

Sistema per serramenti
in alluminio a taglio
termico

ECO-SLIM 72 UP

MATIC 72 UP

ECO-SLIM 72 UP Hi

alsistem.com

Sistemi a design minimale



3G
SYSTEM-RESOLUTION

3G UP
SYSTEM-RESOLUTION

Sistema per serramenti a taglio termico con tripla guarnizione dal design minimale, con nodo laterale di 75mm

System for thermal break windows with triple gasket with minimal design, with 75mm lateral section



ECO-SLIM
72 - 62 - 50
72 - 62 UP

Sistema per serramenti a taglio termico dal design minimale, con nodo laterale di 75mm

System for thermal break windows with a minimal design, with 75mm lateral section



panoramico

Sistema scorrevole dalla mostra architettonica ridotta al minimo e in cui l'alluminio lascia spazio ad ampie specchiature

Minimal design sliding system where aluminium lets glass take the leading role

Sistemi non isolati



PLANET 45

Sistema per serramenti non isolati ad elevata ermeticità

Weatherproof European chamber non-insulated window and door systems

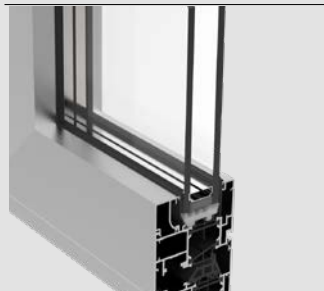
Sistemi a battente



PLANET
72 - 62 - 50 PLUS
72 - 62 UP

Sistema a taglio termico per serramenti con eccellenti valori termici, acustici e fisico meccanici

Planet top-range thermal break system with excellent thermal- and acoustic-proofness and physical-mechanical properties



MATIC
72 - 62 - 50 PLUS
72 - 62 UP

Sistemi a taglio termico per serramenti con ferramenta perimetrale ed elevate prestazioni termiche ed acustiche

Thermal break systems with perimeter hardware for high-performance thermal and acoustic-proof windows and doors

Sistemi scorrevoli e alzanti



SLIDE 60

Sistema scorrevole non isolato, essenziale e funzionale, con zanzariera integrata nel sistema

Non-insulated system, essential and functional. With built-in screen



SLIDE 65

Sistema scorrevole a taglio termico essenziale e funzionale con zanzariera prevista e integrata al sistema

Thermal break system, essential and functional, with built-in screen



SLIDE 80/106 PLUS

Sistema scorrevole-alzante a taglio termico rivoluzionario grazie agli eccellenti risultati termici ed acustici

Revolutionary thermal break system providing excellent thermal and acoustic performance



TOP SLIDE 160 PLUS
160 UP

Sistema a taglio termico per serramenti alzanti con portate fino a 400kg, ed eccellenti prestazioni acustiche, termiche e ambientali

Thermal break system for lift-and-slide windows of up to 400kg providing excellent acoustic, thermal and environmental performance

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Traccia per capitolato

Infissi in alluminio realizzati con la serie taglio termico Ecoslim 72 UP con sistema di tenuta a giunto aperto con pinna centrale di forma tubolare e materiale coestruso, espanso/compatto. I profilati sono estrusi in lega di alluminio EN AW-6060 (UNI EN 573-3), stato di fornitura T5 e T6 conformi alla norma UNI EN 515 con tolleranze dimensionali e spessori conformi alla norma UNI EN 12020-2. L'isolamento termico sarà costituito da barrette esclusivamente tubolari a tripla camera da 38 mm in poliammide a bassa densità ed agli inserti isolanti in PUR, l'assemblaggio delle barrette avverrà a mezzo di rullatura meccanica computerizzata, e le caratteristiche meccaniche delle barrette dovranno rimanere inalterate sino ad una temperatura massima di trattamento di 245°C.

Il processo di produzione è controllato secondo le norme UAETC, i valori di scorrimento dovranno essere superiori ai 24 daN/mm. Il telaio fisso avrà profondità 72mm mentre le parti apribili avranno una profondità di 79mm. Il sistema di tenuta sarà a giunto aperto con guarnizione centrale, in EPDM, avente un'aletta di tenuta che sormonta di 4,5mm il piano inclinato della parte apribile, la guarnizione centrale dovrà essere raccordata nei giunti con gli opportuni angoli vulcanizzati. I profili avranno linee dritte internamente ed esternamente con la possibilità di accogliere soluzioni di fermavetri con taglio a 45° oppure 90°. La sigillatura dei vetri dovrà avvenire secondo le indicazioni riportate nel catalogo e solo ed esclusivamente con guarnizioni fermavetro originali. Appositi fori di drenaggio dovranno essere previsti sul telaio fisso e su quello mobile al fine di permettere il corretto drenaggio del serramento. La scelta dei profili sarà in funzione delle caratteristiche geometriche e dimensionali dell'infisso, della portata degli accessori e dei carichi di esercizio. Gli accessori utilizzati nella fabbricazione delle diverse tipologie dovranno essere solo ed esclusivamente quelli originali studiati appositamente per il sistema, riportati a catalogo e distribuiti dai licenziatari ALSistem, l'utilizzo di prodotti diversi da quelli indicati oppure il montaggio parziale o scorretto degli stessi comporterà la nullità dei certificati di prova e garanzia. La fabbricazione e la posa dovranno avvenire secondo i criteri di lavoro indicati da ALSistem. L'assemblaggio dei profili avverrà con squadrette in alluminio pressofuso multifunzione, i tagli dovranno essere protetti a mezzo sigillanti neutri.

La protezione e finitura dei profilati avverrà a mezzo dei normali trattamenti di superficie, ossidazione anodica conforme al marchio di qualità "Qualanod" oppure a mezzo di verniciatura con polveri poliesteri termoindurenti e polimerizzate in forno a temperature comprese tra 185°C e 195°C, in conformità del marchio di qualità "Qualicoat".

Materiali

L'esecuzione dei serramenti è in lega d'alluminio EN AW-6060 sotto forma di profilati estrusi come indicato dalla disposizione normativa UNI EN 573-3. Lo stato di fornitura è in classe T5 e T6 secondo norma UNI EN 515. Le tolleranze dimensionali sono conformi alla UNI EN 12020-2. Lega secondo la formula ALSistem.

Caratteristiche tecniche e dimensionali

Aspetto visivo esterno: complanare

Aspetto visivo interno: sormonto di 7mm

Profilati: estrusi in lega leggera EN AW-6060 (UNI EN 573-3) anodizzabili e verniciabili. Lega secondo la formula ALSistem

Sistema di tenuta: giunto aperto con precamera, con guarnizioni in EPDM coestruso

Sistema di isolamento termico: realizzato con distanziali in poliammide a bassa densità da 38mm a triplo tubolare e inserti isolanti in PUR

Sistema di accessori: originali ALSistem

Distanza telaio anta: 11,5mm

Sovrapposizione battuta anta su telaio: 6mm

Altezza battuta vetro: 15mm

Fuga tra i profili: 5mm

Profondità telaio: 72/80mm

Profondità anta: 79mm

Tubolarità profili finestra: 11,2mm

Tubolarità profili porta: 44mm

Fissaggio vetri: con fermavetri lisci

Spazio vetro o pannello nei telai fissi: da 27mm a 65mm

Spazio vetro o pannello nelle ante: da 37mm a 58mm

Protezione superficiale

La protezione dei profilati potrà essere effettuata mediante ossidazione anodica con classe di spessore >15 micron, come da norma UNI 10681, oppure mediante verniciatura a polveri poliesteri termoindurenti e polimerizzate in forno nel rispetto delle procedure di qualità "Qualicoat" e delle disposizioni UNI EN 12206-1.

Resistenza della finitura

La finitura superficiale non deve subire corrosioni o alterazioni di aspetto per un periodo di tempo adeguato alla vita del manufatto.

Le caratteristiche sufficienti per assicurarne il comportamento in funzione del tipo di ambiente sono specificate dalle norme UNI 10681 per l'ossidazione e UNI EN 12206-1 per la verniciatura, ricordando che i principali fattori che influiscono sulla resistenza all'ambiente sono la vicinanza al mare, l'inquinamento atmosferico, la manutenzione e la pulizia anche dalla pioggia.

Sicurezza

Al fine di non causare danni fisici o lesioni agli utenti, i serramenti devono essere concepiti secondo le prescrizioni della normativa in materia di sicurezza D.Lgs. 81/2008 e UNI 7697 ed utilizzare secondo quanto indicato nel nostro "manuale uso e manutenzione" dei serramenti e schermi oscuranti.

Caratteristiche della vetratura

La scelta della vetratura deve essere effettuata secondo criteri prestazionali per rispondere ai requisiti di risparmio energetico, isolamento acustico, controllo della radiazione solare, sicurezza. Riferimento norme: UNI EN ISO 10140-2, UNI EN 12488, UNI EN 572-1, UNI EN 12758, UNI EN 12150-1, UNI 11463 DM 2 Aprile 1998, Legge 90/2013 e DMSE 26/06/2015 (requisiti minimi).

Guarnizioni

Le guarnizioni dovranno essere esclusivamente quelle originali studiate per il sistema, a garanzia delle prestazioni dello stesso e rispondenti alle norme di riferimento UNI 3952, UNI EN 12365-1/4.

Sigillanti

I sigillanti devono corrispondere a quanto prescritto dalle norme di riferimento UNI EN ISO 11600. Tali materiali non devono corrodere le parti in alluminio e sue leghe con cui vengono a contatto, pertanto dovranno essere neutri.

Accessori

Gli accessori dovranno essere quelli originali prodotti per la serie e rispondenti ai criteri indicati nelle norme UNI EN 13126-1/19 e alle disposizioni normative in materia di sicurezza DL 81/2008.

Prestazioni

La serie Ecoslim 72 UP risponde ai requisiti della norma UNI EN 12207, UNI EN 12208, UNI EN 12210.

Resistenza meccanica

Il sistema e gli accessori saranno resistenti alle sollecitazioni d'uso secondo i limiti stabiliti dalle norme UNI EN 12365-1 e UNI EN 13126-1/19.

Isolamento acustico

La scelta della classe di isolamento acustico di un serramento va correlata alla destinazione d'uso del locale nel quale l'infisso dovrà essere inserito ed al livello del rumore esterno; il comportamento del serramento in opera è influenzato da fattori che non è possibile definire a priori (h dal suolo, orientamento delle sorgenti sonore, etc...). Il potere fonoisolante potrà essere quindi stimato con buona approssimazione, in base alla permeabilità all'aria del serramento con un minimo di valore di permeabilità pari a 2, ed al potere fonoisolante del vetro. Secondo la metodologia descritta nella norma di riferimento UNI EN ISO 10140-2.

Isolamento termico

La scelta delle prestazioni di isolamento termico deve essere operata in base alle esigenze di risparmio energetico secondo la Legge 10/91, il DL 192/05 e aggiornamento DL 311/06 ed alle esigenze di benessere ambientale o riferimento alla norma UNI EN ISO 10077-1. Si può calcolare la trasmittanza termica del serramento a partire dai valori di trasmittanza dei profili e delle superfici secondo norma UNI EN ISO 10077-1 con la formula:

$$U_w = (A_g \cdot U_g + A_f \cdot U_f + I_g \cdot \psi) \div (A_g + A_f)$$

Certificazioni

Sarà possibile richiedere al costruttore dei serramenti o, in mancanza, al produttore dei profilati, fotocopia dei rapporti di prova relative a determinate prestazioni.

Marcatura CE UNI EN 14351-1

La marcatura CE è OBBLIGATORIA e costituisce il sistema al quale tutti i Costruttori di serramenti devono uniformarsi per poter vendere i propri prodotti nell'Unione Europea. Spetta al Costruttore, o al suo rappresentante, con sede nella EEA [Area Economica Europea] la responsabilità di apporre la marcatura CE sul prodotto, su un'etichetta applicata al prodotto, sul suo imballaggio o sui documenti commerciali di accompagnamento.

La norma UNI EN 14351-1 si applica alle finestre, porte finestre, alle porte pedonali esterne, alle porte esterne sulle vie di fuga, alle finestre da tetto/lucernari (incluse quelle resistenti al fuoco proveniente dall'esterno), alle finestre a nastro, alle finestre accoppiate e alle finestre doppie. Tali serramenti possono essere a una o più ante, con ante mobili e parti fisse, con apertura verso l'interno o verso l'esterno, a movimentazione manuale oppure automatizzata, interamente oppure parzialmente vetrati, con o senza telaio di contenimento della vetratura, con o senza dispositivi di schermatura incorporati.

La norma UNI EN 14351-1 non è applicabile a:

- finestre, portefinestre e porte pedonali con caratteristiche di resistenza al fuoco e tenuta al fumo
- alle porte interne (EN 14351-2)
- alle chiusure oscuranti esterne (UNI EN 13659)
- alle porte girevoli
- alle finestre poste sulle vie di fuga

La norma contempla determinati requisiti volontari e/o obbligatori:

- Tenuta all'acqua
- Rilascio di sostanze pericolose
- Resistenza all'urto
- Resistenza al vento
- Capacità portante dei dispositivi di sicurezza
- Isolamento acustico
- Isolamento termico
- Proprietà radianti delle vetrazioni (trasmissione Luminosa)
- Permeabilità all'aria

Piano di Controllo di Produzione (FPC)

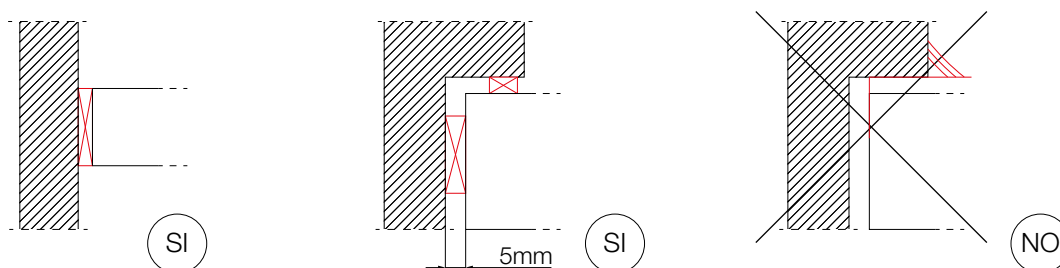
Il controllo di produzione in fabbrica è un sistema esercitato dal costruttore sotto propria responsabilità, al fine di assicurare che le caratteristiche costruttive del prodotto siano mantenute nel tempo entro certi limiti. Il costruttore dovrà stabilire delle procedure documentate, che indichino le modalità che, il personale addetto ai vari controlli, dovrà effettuare per monitorare con frequenza ed esattezza il processo assegnatogli. Il costruttore è tenuto a garantire la rintracciabilità del prodotto attraverso l'uso di codici o altro. Mediante uno schema, il produttore è inoltre tenuto a comunicare al committente indicazioni circa l'utilizzo, la movimentazione, l'installazione, la manutenzione e pulizia del prodotto. Non sono invece analizzate le caratteristiche dell'installazione, ma suggeriamo caldamente di fare riferimento alle indicazioni riportate sui nostri manuali di posa "Thermoposa".

Test di Laboratorio (ITT)

Le caratteristiche del serramento sono valutate sul prodotto finito completo di ferramenta, vetrocamera, pannelli e di tutti gli accessori e trattamenti che lo rendono pronto all'uso. Il costruttore che lo richiama può ottenere i risultati delle prove (ITT) sui serramenti direttamente dall'ALsistem oppure dal licenziatario di zona, la quale cede il diritto d'uso dei risultati degli attestati dei propri ITT ricevuti dal Laboratorio, tramite un contratto fra le parti a "Cascading" (Cascata). Il costruttore ha la responsabilità della conformità del prodotto alle norme europee indicate sul progetto di norma e recepite dalle norme nazionali (norme UNI).

Posa in opera

E' molto importante, per ottenere un buon funzionamento del serramento, curare scrupolosamente la verticalità e il livellamento dell'infisso, dopodiché eseguire la sigillatura usando nastri autoespandenti Thermoposa seguendo i consigli dell'esempio sotto riportato, controllare inoltre che le aperture siano caricate sufficientemente (spessorando il vetro di 1-2mm fuori quadro), affinché, con l'assestamento dei materiali, non si verifichino delle intolleranze di funzionamento nel tempo.



Inoltre, fondamentale è posare il serramento in modo corretto; per questo ALsistem consiglia di utilizzare il sistema **Thermoposa** con il quale si garantisce un sistema di posa del serramento ad alta efficienza termo-acustica. Grazie a questo sistema garantiamo l'adeguato isolamento del foro finestra ed un efficiente messa in opera del serramento nelle nuove costruzioni e nelle ristrutturazioni. Sono pertanto consigliati 3 principali interventi: corretta posa in opera del serramento, coibentazione del cassonetto, quando presente, taglio del marmo, se passante. Per maggiori indicazioni invitiamo a collegarsi a Thermoposa.com.

Manutenzione delle superfici in alluminio

A seguito dei forti tassi di inquinamento oramai raggiunti in tutti i paesi, specialmente nei grossi centri urbani e nelle zone costiere battute dal vento marino, è molto importante che le superfici in alluminio, a contatto con l'atmosfera, siano periodicamente pulite. Il nostro intento è quello di sensibilizzare il costruttore dei serramenti affinché possa di riflesso consigliare IL CLIENTE nel migliore dei modi.

È buona norma tenere in considerazione 3 punti fondamentali:

1. quante volte deve essere eseguita l'operazione di pulizia nell'arco dell'anno
2. il periodo
3. il prodotto da usare

Ecco le risposte:

Il numero di interventi viene stabilito sulla base dello stato di inquinamento della zona in cui è ubicato il caseggiato, varia da 1 a 3 volte l'anno.

Il periodo può essere:

- a fine inverno
- a metà estate
- a metà autunno da scegliere a seconda del numero di interventi

Il prodotto per la pulizia è importante che sia neutro, un prodotto sbagliato potrebbe rovinare i materiali di diversa natura di cui è composto un serramento, (guarnizioni, sigillanti, marmi, etc...) e causare danni che potrebbero compromettere la funzionalità e la durata nel tempo dello stesso.

Le caratteristiche di tali prodotti assieme alla frequenza di pulizia da adottare sono definite nei progetti di norma UNIMET12.04.270 ed E12.04.277.0.

In mancanza di un prodotto neutro è preferibile utilizzare acqua tiepida con un panno non abrasivo.

Per una corretta installazione, manutenzione e pulizia dei serramenti, vi invitiamo inoltre a consultare le prescrizioni riportate sulle seguenti note tecniche Unsaal, UX 42 guida alla posa in opera delle finestre ed UX 10 pulizia delle superfici di serramenti e facciate continue.

Fasi di verniciatura

1. Il ciclo di verniciatura offre la possibilità di ottenere sugli infissi un eccellente rivestimento protettivo superficiale ed una maggiore vivacità del colore;
 2. lo strato deve avere uno spessore min. di 60 micron sulle parti a vista;
 3. il materiale sarà sottoposto al seguente processo:
 - sgrassatura senza attacco
 - lavaggio
 - decapaggio alcalino con attacco
 - lavaggio
 - disossidazione
 - lavaggio
 - cromatazione
 - lavaggio in acqua demineralizzata
 - asciugatura a 75°C
 - verniciatura in polveri termoindurenti
 - polimerizzazione in forno
- Tutte le lavorazioni eseguite su alluminio devono essere conformi a quanto previsto dal marchio di qualità Qualicoat®.

Fasi di anodizzazione

1. Lo strato ossido può variare secondo la zona di ubicazione del serramento da 15 a 20 micron (UNI 10681);
2. può essere normale o elettrocolore;
3. il materiale sarà sottoposto al seguente processo:
 - sgrassatura senza attacco
 - lavaggio
 - decapaggio alcalino con attacco (tranne le finiture lucide)
 - lavaggio
 - disossidazione
 - lavaggio
 - ossidazione in bagno acido solforico a 18/20°C, densità della corrosione 1,5[A]dmq
 - colorazioni inorganiche od organiche od elettrocolore (tranne argento)
 - lavaggio doppio
 - asciugatura
 - fase di fissaggio a caldo in ebollizione a Sali di nichel, fissaggio 2,5/3 minuti per ogni micron di spessore

Osservazione

Nella fase preventiva il progettista o il serramentista dovrà determinare il tipo di serramento da impiegare sulla base degli elementi forniti dal committente. Nella scelta o controllo si dovrà considerare, sulla base della pressione del vento, il momento d'inerzia necessario e scegliere il profilato occorrente nella gamma Ecoslim 72 UP. Ovviamente dovranno essere utilizzati adeguati accessori, tra quelli originali ALSistem, predisposti per le serie Ecoslim 72 UP.

Dimensione e pesi profilati


Le dimensioni e i pesi indicati sui disegni dei profilati a catalogo sono quelli teorici e possono variare in funzione delle tolleranze dimensionali di estrusione (norma UNI EN 12020-2) e dal tipo di finitura. Anche la verniciatura contribuisce ad aumentare gli spessori riducendo pertanto le sedi di inserimento delle guarnizioni e degli accessori. Questa variabilità potrebbe condizionare le dimensioni del taglio e di conseguenza quelle del serramento finito. Le differenze di taglio potranno aumentare in modo proporzionale anche in base al numero di ante per serramento. **Si consiglia, nei primi lavori o in quelli con quantità importanti, di realizzare un campione reale per verificarne il corretto funzionamento.**

Dimensioni taglio

Le dimensioni teoriche di taglio indicate nel presente catalogo si dovranno modificare in funzione della tipologia e sulla base della precisione della macchina di taglio che si sta utilizzando, **(Le finestre a 3 e 4 ante e le finestre di misure ridotte dovranno avere le ante più strette del teorico, di almeno 0,5mm ogni traverso, per evitare interferenze sulla rotazione, etc....).**

Consigli per un corretto assemblaggio

Per ottenere i migliori risultati utilizzando i profili Ecoslim 72 UP si consiglia di osservare attentamente tutte le voci di seguito riportate, atte a rinforzare tutti i punti deboli di una finestra comune, ottimizzando così le prestazioni offerte dal serramento.

Procedura corretta	Obiettivo
sigillare i profili tra loro nel giunto a 45° ⁽¹⁾	evita infiltrazioni d'acqua evita la corrosione e l'ossidazione
sigillare i profili sul montante quando gli stessi vengono intestati	evita infiltrazioni d'acqua evita la corrosione e l'ossidazione
utilizzare l'angolo vulcanizzato della guarnizione di battuta centrale	aumenta la permeabilità all'aria aumenta la tenuta all'acqua
utilizzare l'angolo vulcanizzato della guarnizione di battuta interna	aumenta la permeabilità all'aria e migliora la finitura dell'infisso
usare curve limite di utilizzo per la scelta del profilo	evita scelte inadeguate del profilo
sigillare il serramento sul perimetro tra profilo e controtelaio con sigillante neutro seguendo le indicazioni contenute nel programma Thermoposa® 	evita infiltrazioni d'acqua e garantisce il giunto primario per 10 anni
utilizzare sempre il tassello di registro	facilita la posa in opera, inquadra meglio il telaio, isola i materiali e limita la trasmissione delle vibrazioni
proteggere tutte le lavorazioni effettuate sui profilati	evita la corrosione e l'ossidazione facendo aumentare la durata dell'infisso nel tempo
utilizzare controsagome durante il taglio a 45°	garantisce un taglio corretto al fine di ottenere una giunzione d'angolo perfetta
utilizzare squadrette multifunzione	garantisce giunzioni di alta qualità

⁽¹⁾ Vedi scheda di montaggio M4

Certificazione accessori



I prodotti in alluminio verniciato sono certificati secondo le specifiche tecniche del: **QUALICOAT**



I prodotti in alluminio anodizzato sono certificati secondo le specifiche tecniche del: **EURAS EWAA QUALANOD**



Gli accessori per le gamme Ecoslim 72 UP sono prodotti da aziende certificate ISO9001 e ISO14001

Importante

Tutti i dati esposti in questo catalogo sono puramente indicativi e non impegnano in nessun modo la società la quale si riserva la possibilità di portare migliorie ai suoi prodotti in qualunque momento lo ritenga necessario. La società si riserva il diritto di proprietà del presente catalogo con la proibizione di riprodurlo o trasferirlo a terzi senza l'autorizzazione scritta.

Certificazioni serie Ecoslim 72 UP

Per il principio di estendibilità i certificati sotto riportati sono validi per la serie Ecoslim 72 UP per le diverse tipologie di serramenti indicati in tabella.

	TIPOLOGIA SERRAMENTO	MISURE SERRAMENTO	CERTIFICATO N°	RISULTATO OTTENUTO
 PERMEABILITÀ DELL'ARIA	Finestra 2 ante ribalta	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Classe 4
 TENUTA ALL'ACQUA	Finestra 2 ante ribalta	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Classe E1200
 RESISTENZA AL VENTO	Finestra 2 ante ribalta	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Classe C4
 ISOLAMENTO ACUSTICO	Finestra 1 anta ribalta	H = 1.480mm L = 1.230mm	0008/DC/ACU/21_2	50 dB vetrocamera 88.2/24/55.2
	Finestra 1 anta ribalta	H = 1.480mm L = 1.230mm	0008/DC/ACU/21_2	46 dB vetrocamera 66.1/15/44.2
	Finestra 2 ante ribalta	H = 1.480mm L = 1.230mm	0008/DC/ACU/21_1	47 dB vetrocamera 88.2/24/55.2
	Finestra 2 ante ribalta	H = 1.480mm L = 1.230mm	0008/DC/ACU/21_1	45 dB vetrocamera 66.1/15/44.2
 ISOLAMENTO TERMICO	Finestra con vetrocamera Ug 1,0W/m2K e psi 0,035	Dimensioni normalizzate secondo UNI EN 14351-1 (1,23m [± 25%] x 1,48m [- 25%])	1994-CPR-RP2658	1.20 W/m²K (1 Anta) 1.28 W/m²K (2 Ante)

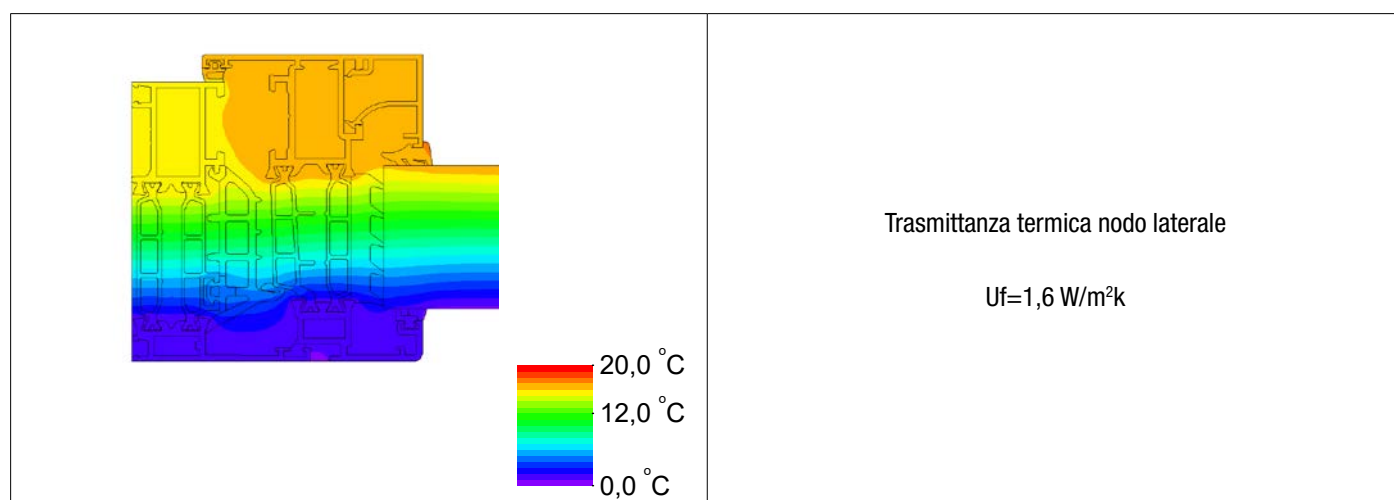
Determinazione della trasmittanza termica dei nodi del sistema per serramenti Ecoslim 72 UP

Per la determinazione della trasmittanza termica dei profilati, sono stati certificati i nodi elencati sotto dal laboratorio notificato IRCCOS, secondo la normativa di prodotto UNI EN ISO 10077-2:2017, seguendo il metodo di calcolo tramite "Flixo 8.1". Il codice di riferimento del documento rilasciato dal laboratorio corrisponde al n° 1994-CPR-RP2658.

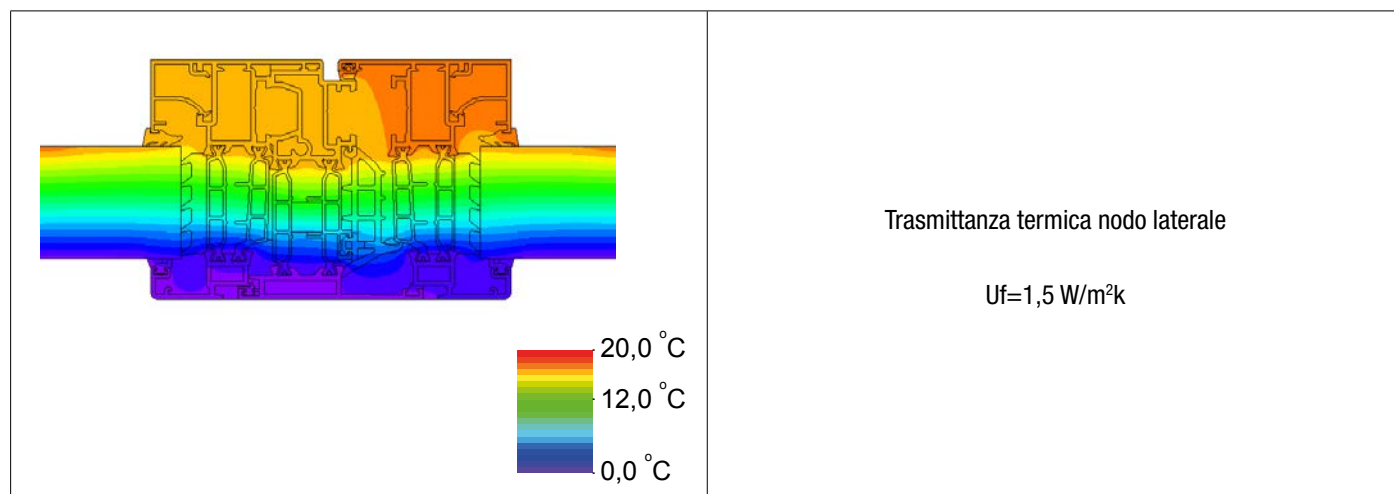
Metodologia di analisi utilizzata

Il calcolo della trasmittanza termica è stato eseguito in accordo con la norma UNI EN ISO 10077-2:2017. Per i calcoli è stato utilizzato il software "Flixo 8.1".

Andamento delle temperature e dei flussi del nodo laterale UP 11703 + UP 11777.



Andamento delle temperature e dei flussi del nodo centrale UP 11777 + UP 11713 + UP 11777.



General specifications

Casement aluminium system, created with the range for Ecoslim 72 UP. The profiles are extruded in aluminium alloy EN AW-6060 (UNI EN 573-3), supply condition T5 and T6 in accordance with standard UNI EN 515 with dimensional tolerances and thicknesses compliant with standard UNI EN 12020-2. The thermal insulation will consist of 38mm polyamide 6.6 strips reinforced 25% with fibreglass in low density polyamide and any PUR insulating inserts. The strips are assembled by means of computerised mechanical rolling, and the mechanical characteristics of the strips must remain unaltered up to a maximum treatment temperature of 245°C.

The production process is controlled in accordance with UAETC standards, the sliding values must be greater than 24 daN/mm. The fixed frame shall be 72mm deep, whilst the openable parts shall be 79mm deep. The sealing system shall be of the open joint type with a central EPDM gasket with a seal fin that overlap of 4.5mm the sloping surface of the sash profile; the central gasket must be connected at the corners with the appropriate vulcanised corners. The profiles will have straight lines internally and externally with the possibility of accommodating glazing bead solutions cut at 45° or 90°. The glazing must be sealed in accordance with the instructions shown in the catalogue and exclusively with original glazing bead gaskets. Appropriate drainage holes must be made on the fixed frame and on the moving frame in order to allow the correct drainage for the window/door. The limits of use of the profiles depend on their geometric characteristics, on the scope of the accessories and on the operating loads. The accessories used in the manufacture of the various types must be exclusively the originals designed especially for the system, as shown in the catalogue and distributed by the ALSistem licensees; the use of products other than those indicated or their partial or incorrect assembly shall render the test certificates and guarantee null and void. The manufacture and installation must be in accordance with the operating criteria indicated by ALSistem. The profiles shall be assembled with brackets in extruded or die-cast aluminium to be buttoned, pinned, crimped or screwed, the edges must be protected with acrylic, silicone or MS polymer sealants.

The profiles must be protected and finished by means of normal surface treatments, anodic oxidation compliant with the "Qualanod" quality label or by painting with thermosetting polyester in powder form and oven-polymerised at temperatures between 185°C and 195°C, in accordance with the "Qualicoat" quality label.

Materials

The execution of the windows is made of EN AW-6060 aluminum alloy in the form of extruded profiles as indicated by the regulatory provision UNI EN 573-3. The state of supply is in class T5 and T6 according to the UNI EN 515 standard.

The dimensional tolerances comply with UNI EN 12020-2. Alloy according to the ALSistem formula.

Technical and dimensional characteristics

External visual appearance: flush

Internal visual appearance: 7mm

Profiles: light alloy EN AW-6060 (UNI EN 573-3) extrusions; they can be anodised and painted. Alloy according to ALSistem formula

Sealing system: giunto aperto con precamera, con guarnizioni in EPDM coestruso

Thermal insulation system: made with 38mm low density polyamide triple-tubular spacers and any PUR insulating inserts

Accessory system: originali ALSistem

Distance between frame and sash: 11,5mm

Superimposition of sash rebate on frame: 6mm

Height of glass rebate: 15mm

Space between the profiles: 5mm

Frame depth: 72/80mm

Sash dept: 79mm

Window profiles tubularity: 11,2mm

Door profiles tubularity: 44mm

Glass fastening: with flat glazing beads

Space for glass or panel (fixed frame): da 27mm a 65mm

Space for glass or panel (sash): da 37mm a 58mm

Surface protection

The protection of the profiles can be carried out by anodic oxidation with a thickness class > 15 microns, as per the UNI 10681 standard, or by painting with thermosetting and polymerized polyester powders in the oven in compliance with the "Qualicoat" quality procedures and the UNI EN 12206-1 provision.

Resistance of the finish

The surface finish must not suffer any corrosion or alterations in appearance for a period of time appropriate to the life of the product. The characteristics required to ensure the behaviour in accordance with the type of environment are specified in standards UNI 10681 for oxidation and UNI EN 12206-1 for painting, bearing in mind that the key factors influencing weather resistance are proximity to the sea, atmospheric pollution, maintenance and cleaning also from rain.

Safety

In order not to cause physical damage or injury to users, the windows and doors must be designed according to the requirements of the safety legislation Legislative Decree 81/2008 and UNI 7697 and used as indicated in our “use and maintenance manual” of the windows and blackout screens.

Characteristics of the glazing

The choice of glazing must be made according to performance criteria to meet the requirements of energy-saving, sound insulation, solar radiation control, safety. Reference standards: UNI EN ISO 10140-2, UNI EN 12488, UNI EN 572-1, UNI EN 12758, UNI EN 12150-1, UNI 11463 DM 2 April 1998, Law 90/2013 and DMSE 26/06/2015 (requirements minimum).

Gaskets

The gaskets must only be the originals designed for the system, guaranteeing its performance and complying with reference standards UNI 3952, UNI EN 12365-1/4.

Sealants

The sealants must comply with the provisions of reference standards UNI EN ISO 11600. These materials must not corrode the parts made of aluminium and its alloys with which they come into contact and must therefore be neutral.

Accessories

The accessories must be the original ones produced for the range and in accordance with the criteria indicated in UNI EN 13126-1/19 standards and with the safety legislation, Italian Leg. Decree 81/2008. Available ITT test report.

Performance

The Ecoslim 72 UP range meets the requirements of standards UNI EN 12207, UNI EN 12208, UNI EN 12210.

Mechanical resistance

The system and its accessories shall be resistant to the stress of use in accordance with the limits established in standard UNI EN 12365-1 e UNI EN 13126-1/19.

Sound insulation

The choice of the type of sound insulation for a door or window depends on the intended purpose of the location in which the frame is to be fitted and on the level of external noise; the behaviour of the door or window on site is influenced by factors that cannot be determined beforehand (height from the floor, orientation of noise sources, etc.). The sound insulation capacity can therefore be estimated to a large degree, based on window/door air permeability, with a minimum permeability value of 2, and on the sound insulation capacity of the glass. In accordance with the methodology described in reference standard UNI EN ISO 10140-2.

Thermal insulation

The choice of the heat insulation properties must be made on the basis of the energy saving requirements in accordance with law 10/91 and L.D.192/05 and update L.D.311/06 and of the environmental wellbeing requirements or with reference to standard UNI EN ISO 10077-1. The window/door thermal transmittance can be calculated from the transmittance values of the profiles and of the surfaces in accordance with standard UNI EN ISO 10077-1 using the formula:

$$U_w = (A_g \cdot U_g + A_f \cdot U_f + I_g \cdot \psi) \div (A_g + A_f)$$

Certifications

It is possible to ask the manufacturer of the windows/doors, or alternatively the local licensee, for a photocopy of the test reports relating to specific properties.

CE Marking UNI EN 14351-1

CE marking is OBLIGATORY and is the system to which all manufacturers of doors and windows must comply in order to be able to sell their products in the European Union. The Manufacturer, or its representative, with its headquarters in the EEA [European Economic Area] is responsible for affixing the CE marking to its product, on a label applied to the product, on its packaging or on its accompanying commercial documents.

Standard UNI EN 14351-1 applies to windows, glass doors, external pedestrian doors, external doors on escape routes, roof windows/skylights (including those resistant to external fire), ribbon windows, coupled windows and double windows. These doors/windows can have one or more leaves, with moving leaves and fixed parts, opening inwards or outwards, operated manually or automatically, completely or partially glazed, with or without a frame to contain the glass, with or without built-in shielding devices.

Standard UNI EN 14351-1 does not apply to:

- windows, glass doors and pedestrian doors with fire-resistant and smoke-proof characteristics
- internal doors (EN 14351-2)
- external obscuring shutters (UNI EN 13659)
- revolving doors
- windows situated on escape routes

The standard relates to certain voluntary and/or obligatory requirements:

- Watertightness
- Release of hazardous substances
- Impact resistance
- Wind resistance
- Load-bearing capacity of safety devices
- Sound insulation
- Thermal insulation
- Glass radiance (light transmission)
- Air permeability

Factory Production Control (FPC)

Factory production control is a system implemented by the manufacturer under its own responsibility, in order to ensure that the structural characteristics of the product are maintained over time within certain limits. The manufacturer must establish certain documented procedures, which indicate the methods that the personnel responsible for various controls must implement in order to monitor the process assigned to them frequently and accurately. The manufacturer is obliged to guarantee the traceability of the product by using codes or other methods. By means of a diagram, the manufacturer is also obliged to inform the purchaser of instructions relating to the use, handling, installation, maintenance and cleaning of the product. The installation characteristics, however, are not analysed. Refer to our Thermoposa manuals.

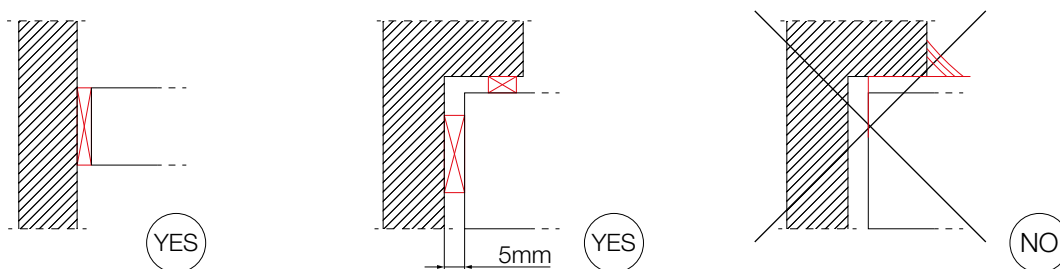
Laboratory Test (ITT)

The characteristics of the door/window are assessed on the finished product complete with its metal fittings, double glazing, panels and all the accessories and treatments that render it ready for use. Any manufacturer who requests it can obtain the results of the tests (ITT) on the doors/windows directly from ALSistem or from the local licensee, which grants the right to use the results of the certificates of the ITTs received from the Laboratory, by means of a cascading agreement between the parties. The manufacturer is responsible for the product's compliance with the European standards indicated in the draft standard and found in the national standards (UNI standards).

Installation

In order for the window to operate properly, it is very important to pay extremely close attention to the vertical positioning and levelling of the frame, and then to seal it using Thermoposa self-expanding tapes, following the advice in the example shown below, also checking that the openings are sufficiently filled (shimming the glass 1-2mm out of square), so that, with the adjustment of the materials, there is no deterioration of operation over time.

Furthermore, it is essential to install the window correctly; for this ALSistem recommends using the Thermoposa system which guarantees a window installation system with high thermo-acoustic efficiency. Thanks to this system we guarantee the adequate



insulation of the window hole and an efficient installation of the window in new buildings and renovations. Therefore, 3 main interventions are recommended: correct installation of the window, insulation of the box, when present, cutting of the marble, if passing through. For further information, please connect to **Thermoposa.com**.

Maintenance of the aluminium surfaces

In view of the high amounts of pollution now reached in all countries, particularly in large cities and in coastal areas beaten by the sea wind, it is very important for aluminium surfaces that are in contact with the atmosphere to be cleaned regularly. Our intention is to raise the awareness of the manufacturers of doors and windows so that they can in turn advise THE CLIENT as well as possible.

It is good practice to take 3 fundamental points into consideration:

- 1- how often the cleaning operation must be carried out over the course of the year
- 2- the period
- 3- the product to be used

Here are the answers:

The number of cleaning operations depends on the level of pollution in the area in which the building is located, ranging from 1 to 3 times a year.

The period may be:

- at the end of winter
- in the middle of summer
- in the middle of autumn, depending on the number of cleaning operations

It is important that the product to be used for cleaning is neutral; using the wrong product could ruin the various different materials of which a door or window consists (gaskets, sealants, marble, etc) and cause damage that could compromise the efficiency and life of the product.

The characteristics of these products as well as the frequency of the cleaning to be adopted are defined in draft standards UNIMET12.04.270 and E12.04.277.0. If no neutral product is available, it is preferable to use warm water with a nonabrasive cloth.

In order to install, maintain and clean the doors and windows correctly, we also suggest that you consult the instructions contained in the following Uncsaal technical notes: UX 42 guide to installing windows UX 10 cleaning of surfaces of doors/windows and continuous facades. Refer to our Thermoposa manuals.

Painting phases

1. The painting cycle offer the possibility of obtaining an excellent protective coating on the surface of the frames and a greater brightness of colour;
2. The layer must have a min. thickness of 60 micron on the visible parts;
3. the material shall be subjected to the following process:
 - removal of grease/dirt without etching
 - washing
 - alkaline (or acid) pickling with etching
 - washing
 - deoxidising
 - washing
 - chromate treatment
 - washing in demineralised water
 - drying at 75°C
 - painting in thermosetting powder coating
 - oven polymerisation

All operations carried out on aluminium must comply with the provisions of the “Qualicoat” quality label.

Anodisation phases

1. The oxide layer may vary from 15 to 20 micron (UNI4522-66), according to the area in which the door/window is located;
2. it can be normal or electro-colour;
3. the material shall be subjected to the following process:
 - removal of grease/dirt without etching
 - washing
 - alkaline pickling with etching (except for shiny finishes)
 - washing
 - deoxidising
 - washing
 - oxidation in sulphuric acid bath at 18/20°C, density of corrosion 1.5[A]dmq
 - inorganic or organic colouring or electro-colour (except for silver)
 - double washing
 - drying
 - hot fixing boiling with nickel salts, fixing 2.5/3 minutes for every micron of thickness.

Observation

During the preliminary phase the project manager or fitter must determine the type of door/window to be used depending on the elements provided by the client. During the selection or inspection, the necessary moment of inertia must be considered depending on the wind pressure and the required profile chosen from the Ecoslim 72 UP range. Obviously, the appropriate accessories must be used from the original ALSistem accessories, provided for the Ecoslim 72 UP range.

Profile dimensions and weights


The dimensions and weights indicated on the drawings of the profiles in the catalogue are theoretical and can vary according to the extrusion dimensional tolerances (Standard UNI EN 12020-02) and to the type of finish. Painting also adds to the thickness, thus reducing the housings for inserting the gaskets and accessories. This variability could influence the dimensions of the cut and consequently those of the finished door/window. The differences in cut can increase also in proportion to the number of leaves per door/window. **It is advisable, in initial works or in those with large quantities, to create a true sample to check that it works properly.**

Cut dimensions

The theoretical cutting dimensions indicated in this catalog must be modified according to the type and on the basis of the precision of the cutting machine being used, **e.g. 3 and 4-sash windows and small sized windows must have sashes narrower than theoretical, at least 0.5mm each crosspiece, to avoid interference with rotation, etc...**

Advice for correct assembly

To obtain the best results when using Ecoslim 72 UP profiles, it is advisable to pay careful attention to all of the following points, designed to reinforce all of the weak points of a normal window, thus optimising the performance offered by the window.

Correct procedure	Objective
seal the profiles together in the join at 45° ⁽¹⁾	prevents water seepage, prevents corrosion
seal the profiles on the jamb when they are faced	prevents water seepage, prevents corrosion
use the vulcanized corner on the sill also in the central rebate gasket	increases air permeability and improves window quality
use the vulcanized corner on the sill also in the inner rebate gasket	increases air permeability and improves window quality
use limit curves to select the profile	avoids choosing the wrong profile
seal the window or door on the perimeter between profile and counter-frame with Thermoposa self-expanding tapes 	prevents water seepage
always use the wall spacer and the screw for fixing	facilitates installation, ensures better frame positioning, insulates materials and minimises the transmission of vibrations
protect all the work carried out on the profiles	prevents corrosion, increasing the life of the frame over time
use counterprofile during the 45° cut	guarantees a correct cut in order to obtain a perfect angle joint
use multi-purpose corner brackets	guarantees high-quality joints and solid in time

⁽¹⁾ See M4 assembly section

Accessory certification



The painted aluminium products are certified according to the technical specifications of:
QUALICOAT



The anodised aluminium products are certified according to the technical specifications of:
EURAS EWAA QUALANOD



The accessories for the Ecoslim 72 UP ranges are produced by ISO9001 and ISO14001 certified companies

Important

All the information provided in this catalogue is for guidance purposes only and in no way commits the company, which reserves the right to make improvements to its products whenever it deems this to be necessary. The company reserves the right of ownership of this catalogue and it is prohibited to reproduce or transfer it to third parties without written authorisation.

ECOSLIM 72 UP range certifications

For the extensibility principle, the certificates below are valid for the Ecoslim 72 UP series for the different types of windows indicated in the table.

	WINDOW TYPE	WINDOW DIMENSION	CERTIFICATE N°	RESULT OBTAINED
 AIR PERMEABILITY	2 tilt and turn window	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Class 4
	2 tilt and turn window	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Class E1200
	2 tilt and turn window	H = 1.650mm L = 1.500mm	1994-CPR-RP1782	Class C4
 SOUNDPROOFING	1 tilt and turn window	H = 1.480mm L = 1.230mm	0023/DC/ACU/20_2	50 dB double glazing 88.2/24/55.2
	1 tilt and turn window	H = 1.480mm L = 1.230mm	0023/DC/ACU/20_2	46 dB double glazing 66.1/15/44.2
	2 tilt and turn window	H = 1.480mm L = 1.230mm	0023/DC/ACU/20_1	47 dB double glazing 88.2/24/55.2
	2 tilt and turn window	H = 1.480mm L = 1.230mm	0023/DC/ACU/20_1	45 dB double glazing 66.1/15/44.2
 THERMAL INSULATION	Windows with double glazing Ug 1,0W/m2K e psi 0,035	Normalized dimension according to UNI EN 14351-1 (1,23m [± 25%] x 1,48m [- 25%])	1994-CPR-RP2658	1.20 W/m²K (1 sash) 1.28 W/m²K (2 sash)

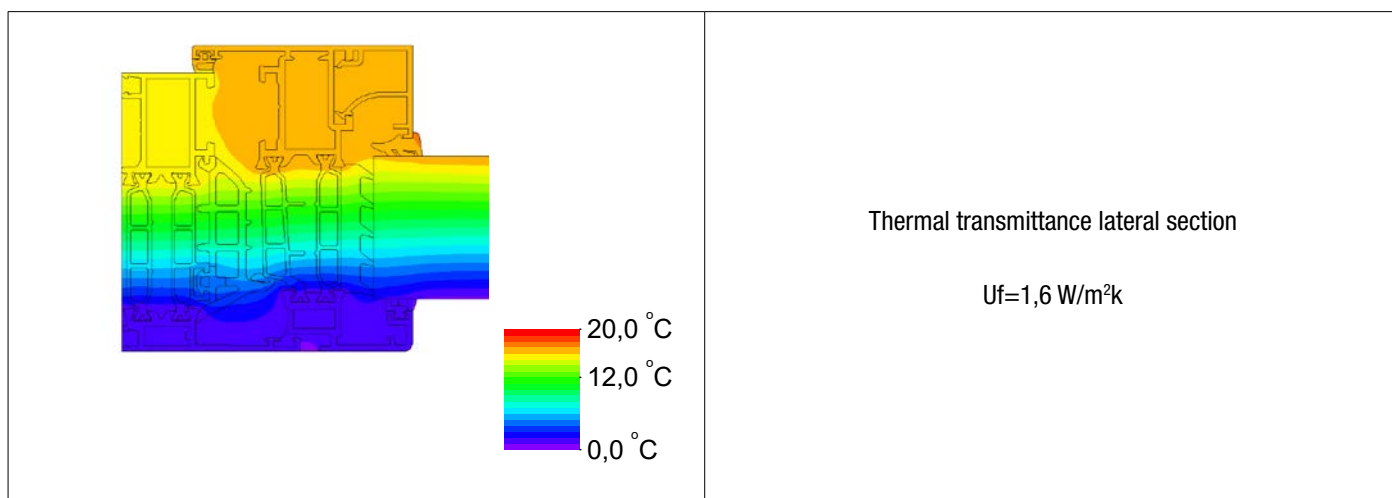
Determination of thermal transmittance of the sections of the Ecoslim 72 UP system for windows

For the determination of the thermal transmittance of the profiles, the sections listed below were certified by the IRCCOS notified laboratory, according to the UNI EN ISO 10077-2:2017 product standard, following the calculation method using "Flixo 8.1". The reference code of the document issued by the laboratory corresponds to n° 1994-CPR-RP2658.

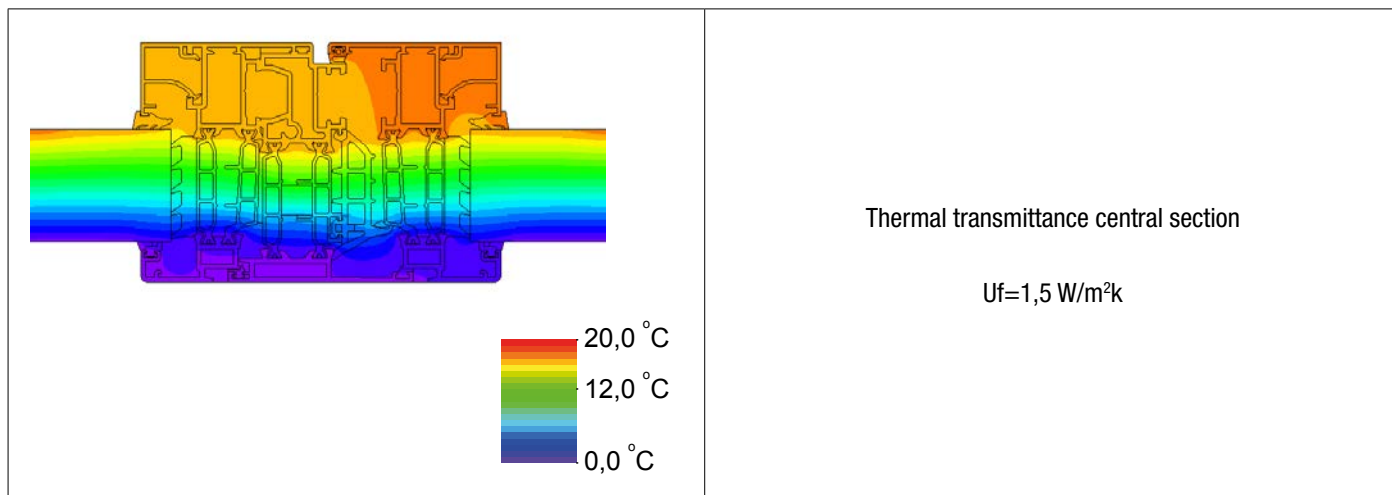
Methodology analysis used

The calculation of the thermal transmittance was performed in accordance with the UNI EN ISO 10077-2:2017 standard. The "Flixo 8.1" software was used for the calculations.

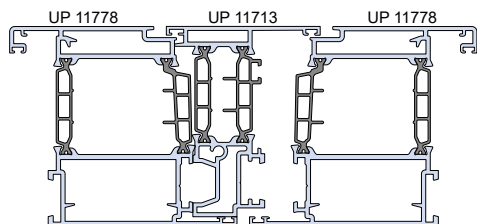
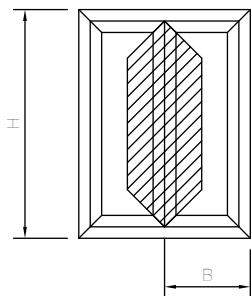
Trend of temperatures and heat flows in the lateral section UP 11703 + UP 11777.



Trend of temperatures and heat flows in the central node UP 11777 + UP 11713 + UP 11777.

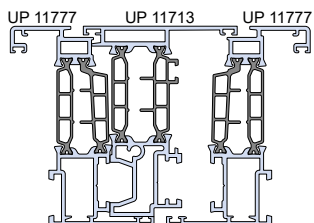
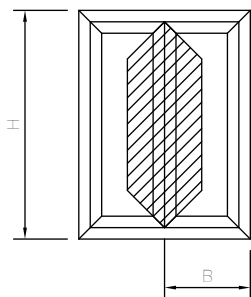
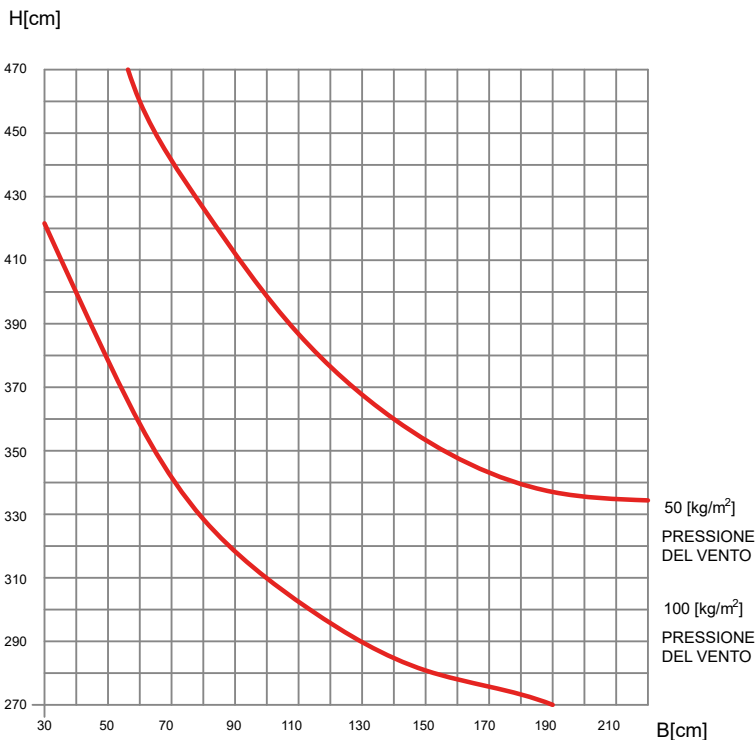


curve limite di utilizzo



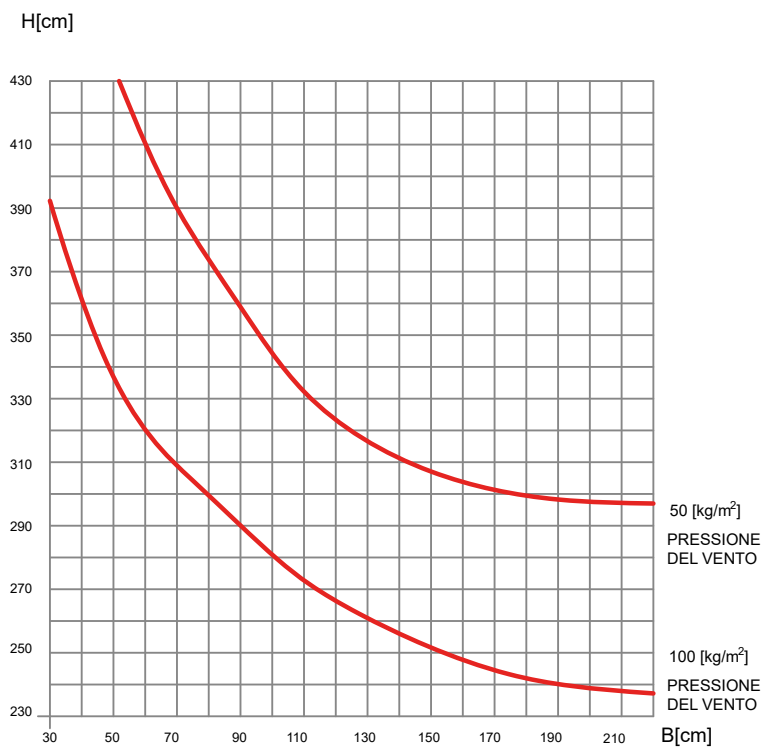
$J_t = 170,61 \text{ cm}^4$
freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



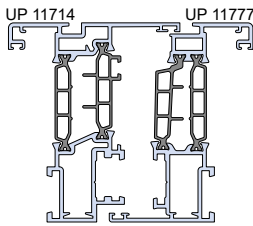
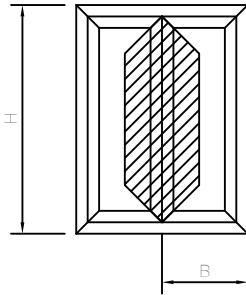
$J_t = 117,57 \text{ cm}^4$
freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



I DIAGRAMMI DI PORTATA SONO CALCOLATI SU BASE TEORICA IN FUNZIONE DELLE CARATTERISTICHE INERZIALI DEI PROFILI

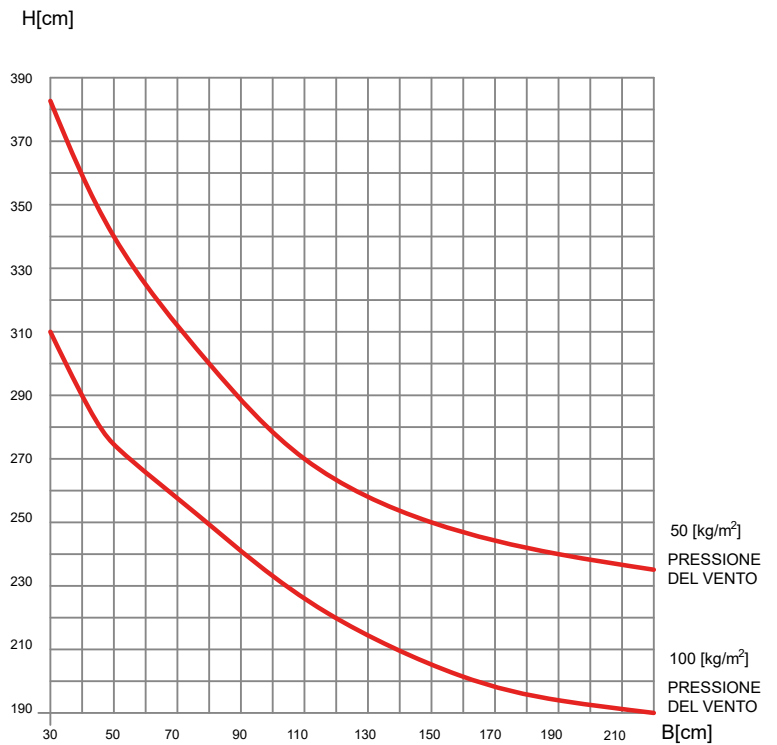
curve limite di utilizzo



$J_t = 84,24 \text{ cm}^4$

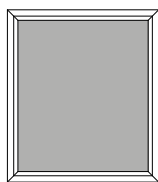
freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO

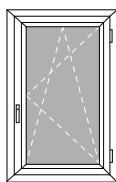


CURVE LIMITE DI
UTILIZZO
Limit curves

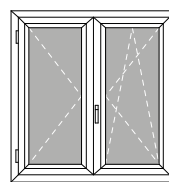
I DIAGRAMMI DI PORTATA SONO CALCOLATI SU BASE TEORICA IN
FUNZIONE DELLE CARATTERISTICHE INERZIALI DEI PROFILI



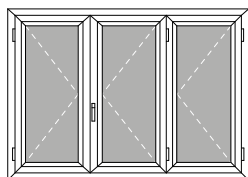
fisso
fixed



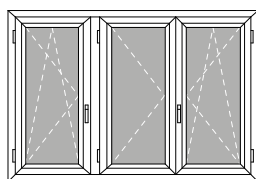
finestra 1 anta ribalta
single leaf tilt and turn



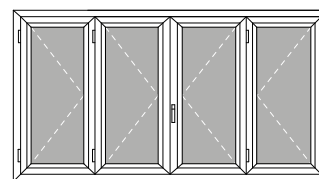
finestra 2 ante ribalta
tilt and turn



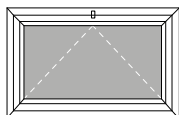
finestra 3 ante
3-leaf window



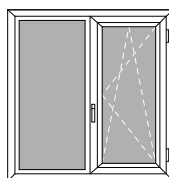
finestra abbinata 1 anta + 2 ante ribalta
matched window
1-leaf + 2-leaf



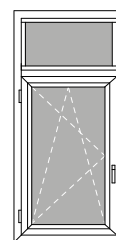
finestra 4 ante
4-leaf window



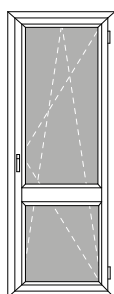
vasistas
transom window



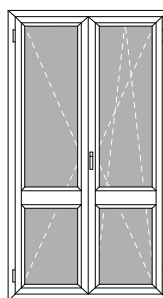
finestra 1 anta ribalta + fisso
single leaf tilt and turn + fixed



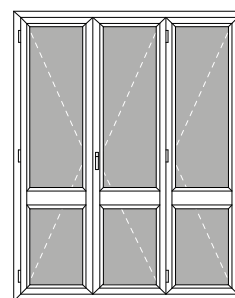
finestra 1 anta ribalta + fisso
single leaf tilt and turn + fixed



porta finestra 1 anta ribalta
balcony door
1-leaf tilt and turn



porta finestra 2 ante ribalta
balcony door.
2-leaf tilt and turn



porta finestra 3 ante
3-leaf balcony door

ANTA MINIMA REALIZZABILE 500mm

LEGENDA BATTUTA-SPALLA

BEAT-ABUTMENT

Allo scopo di unificare la terminologia utilizzata nel catalogo:

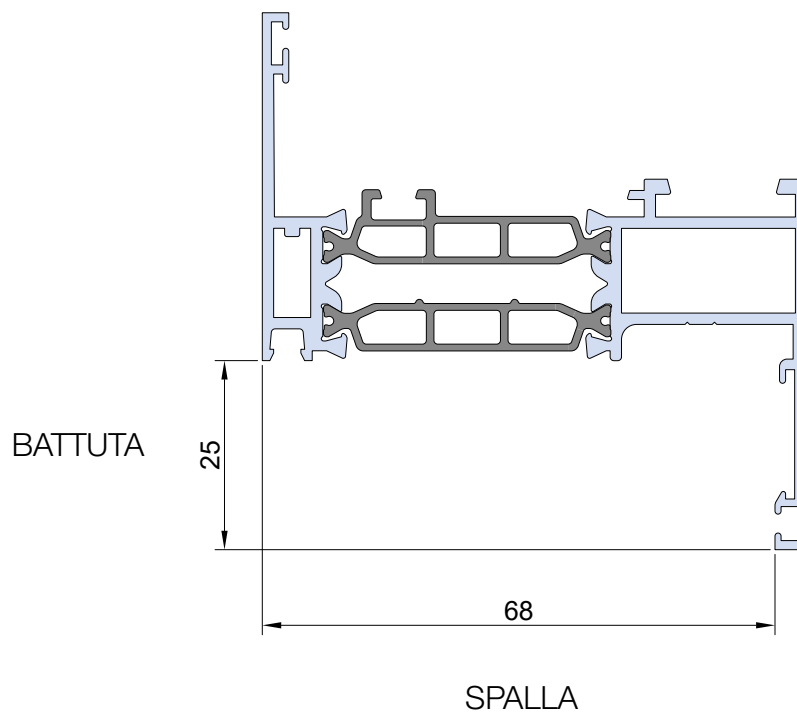
In order to unify the technical terminology conventionally measured the following terms:


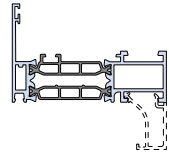

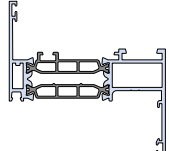
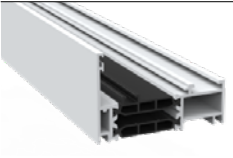
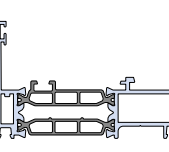
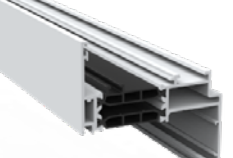
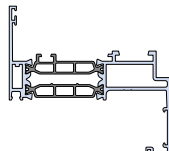
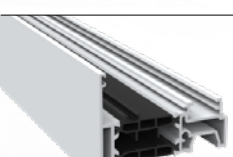
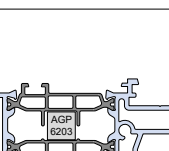
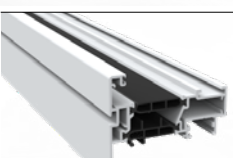
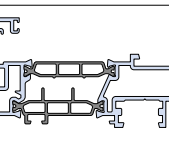

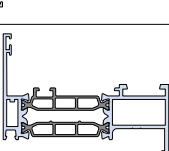

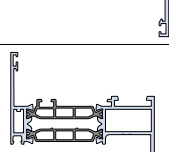

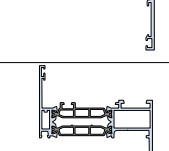

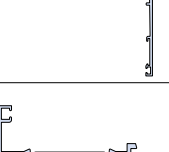
BATTUTA: la quota della lunghezza dell'aletta dei telai che copre il giunto con la muratura


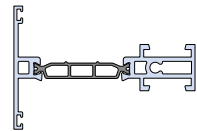

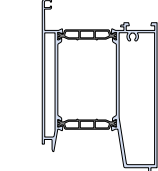

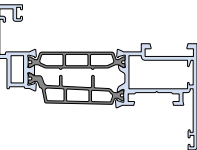
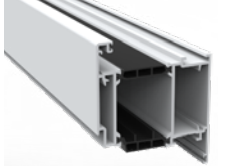
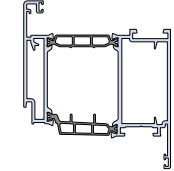

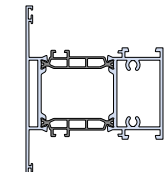
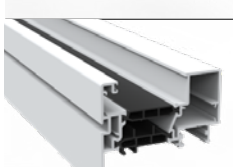
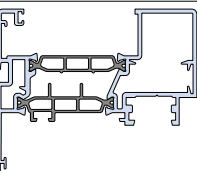

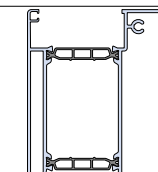
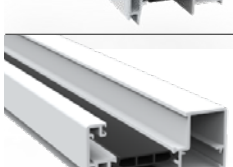
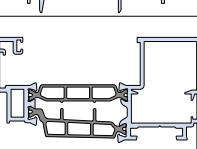

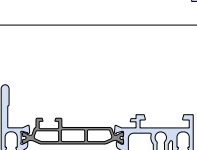
BEAT: the part of the fin length of frames that covers the joint with the masonry

SPALLA: la quota della profondità tra la battuta e il filo esterno dei profili


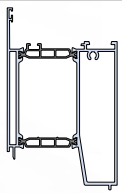
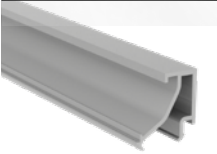
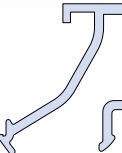
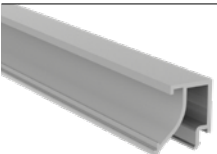
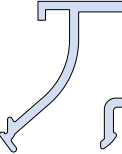
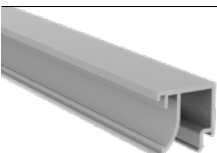
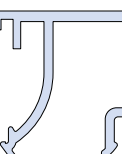
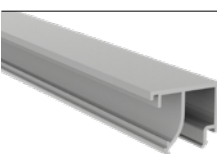
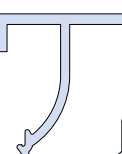
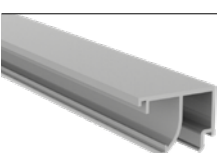
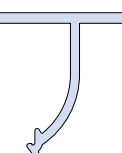
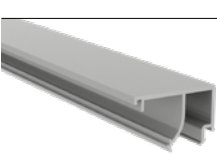
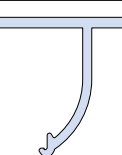
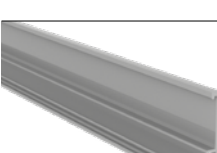
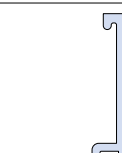
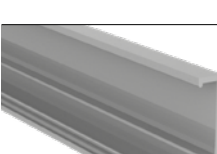
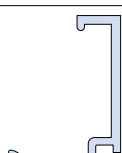
ABUTMENT: the proportion of the depth between the stop and the external thread profile



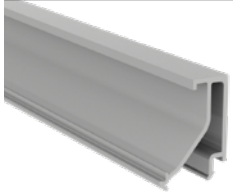
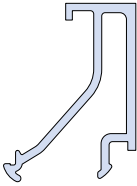
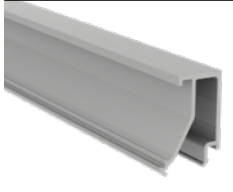
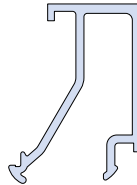
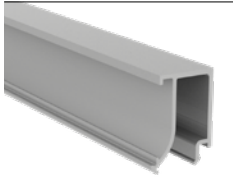
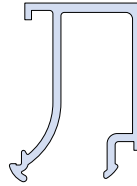
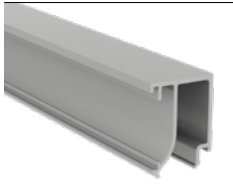
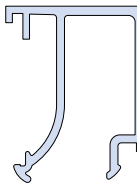
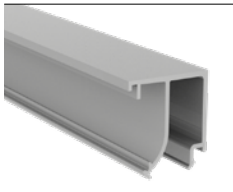
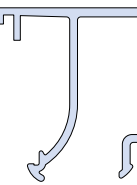
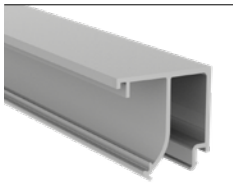
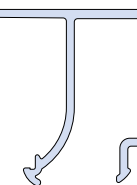
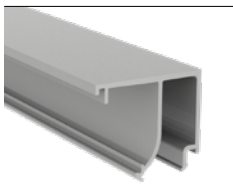
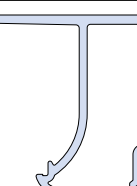
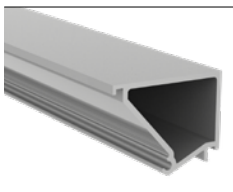
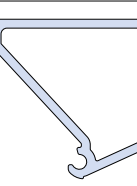
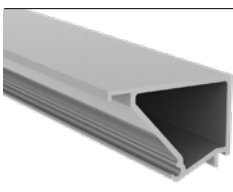
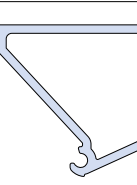
	Sagoma	Art.	Descrizione	Jxx cm ⁴ Jyy cm ⁴
		UP 11700	Telaio a L con aggancio battuta lato muro <i>L frame with hinged side wall hooking</i>	4,64 28,62
		UP 11702	Telaio a Z spalla 68mm, battuta 25mm <i>Z frame for shoulder 68mm, beat 25mm</i>	7,86 35,18
		UP 11703	Telaio a L da abbinare con UP11702, UP11721, UP11722, UP11724 <i>L frame to combine with UP11702, UP11721, UP11722, UP11724</i>	4,50 28,16
		UP 11708	Telaio a Z complanare spalla 67mm battuta 30mm <i>Z frame coplanar for shoulder 67mm, beat 30mm</i>	12,26 45,78
		UP 11713	Riporto centrale <i>Astragal</i>	7,95 39,22
		UP 11714	Profilo T all'italiana per anta UP11777 <i>Italian T profile for UP11777 sash</i>	10,75 45,01
		UP 11721	Telaio a Z spalla 68mm, battuta 30mm <i>Z frame for shoulder 68mm, beat 30mm</i>	9,31 36,38
		UP 11722	Telaio a Z spalla 68mm, battuta 40mm <i>Z frame for shoulder 68mm, beat 40mm</i>	13,25 38,86
		UP 11724	Telaio a Z spalla 68mm, battuta 70mm <i>Z frame for shoulder 68mm, beat 70mm</i>	35,59 45,70
		UP 11728	Traverso 55mm per anta <i>Transom 55mm for sash</i>	5,64 36,68

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		UP 11738	Inglesina 49mm per anta <i>Georgian Bar 49mm for sash</i>	-	2,44 26,54
		UP 11748	Zoccolo di riporto per ante <i>Fitted base for sash</i>	-	87,14 68,71
		UP 11777	Anta normale <i>Flat sash</i>	-	6,55 39,19
		UP 11778	Anta maggiorata <i>Oversized sash</i>	-	43,18 65,67
		UP 12738	Traverso 92mm per telai fissi <i>92mm transom for fixed frame</i>	-	27,11 48,09
		UP 13714	T all'italiana vetro infilare spazio vetro 44mm <i>Italian T astragal for beadless glass gap 44mm</i>	-	15,36 51,30
		UP 13748	Zoccolo di riporto vetro infilare spazio vetro 44mm <i>Fitted base for beadless glass gap 44mm</i>	-	84,82 63,98
		UP 13751	Anta vetro infilare spazio vetro 44mm <i>Sash base for beadless glass gap 44mm</i>	-	10,04 43,55
		UP 71807	Soglia ribassata da 25mm <i>25 mm low sill</i>	747	0,81 20,69

ELENCO PROFILI
List of profiles

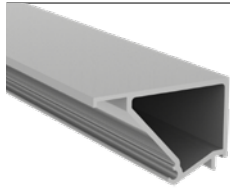
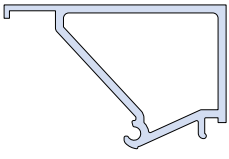
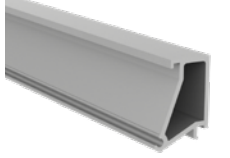
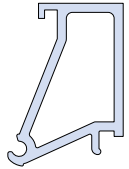
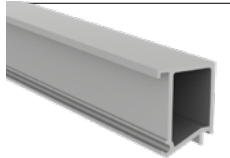
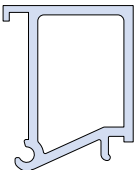
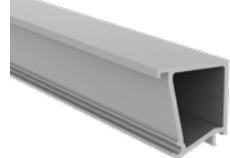
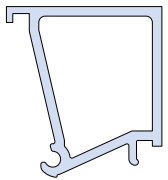
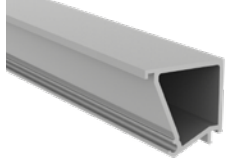
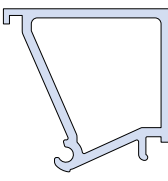
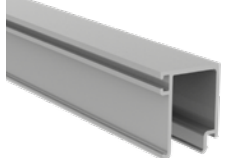
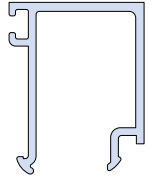
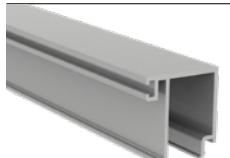
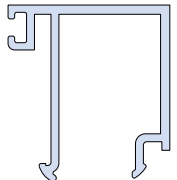
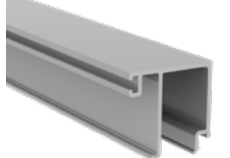
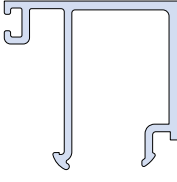
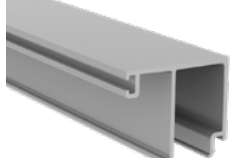
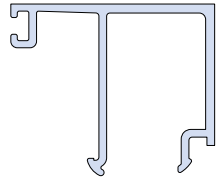
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		UP 71847	Zoccolo di riporto per telai fissi fissaggio a vite <i>Fitted base for fixed frame screw fixing</i>	2265	87,01 64,10
		PL 1110	Fermavetro retto per ante da 10,5mm <i>Flat glazing bead for 10,5mm sash</i>	200	- -
		PL 1114	Fermavetro retto per ante da 14mm <i>Flat glazing bead for 14mm sash</i>	207	- -
		PL 1120	Fermavetro retto per ante da 20mm <i>Flat glazing bead for 20mm sash</i>	235	- -
		PL 1124	Fermavetro retto per ante da 24mm <i>Flat glazing bead for 24mm sash</i>	251	- -
		PL 1128	Fermavetro retto per ante da 27,5mm <i>Flat glazing bead for 27.5mm sash</i>	264	- -
		PL 1132	Fermavetro retto per ante da 31,7mm <i>Flat glazing bead for 31.7mm sash</i>	280	- -
		PL 1404 *	Fermavetro retto per fissi da 3,5mm <i>3.5mm smooth glazing bead for fixed</i>	190	- -
		PL 1407 *	Fermavetro retto per fissi da 7mm <i>7mm smooth glazing bead for fixed</i>	206	- -

* UTILIZZARE SEMPRE ACP 5027! * Use ACP 5027 always



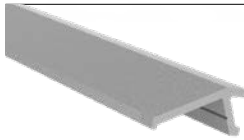
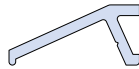
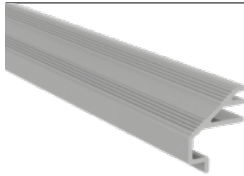
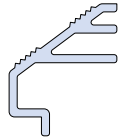
	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 1411	Fermavetro retto per fissi da 10,5mm <i>10.5mm smooth glazing bead for fixed</i>	252	- -
		PL 1414	Fermavetro retto per fissi da 14mm <i>14mm smooth glazing bead fixed</i>	257	- -
		PL 1418	Fermavetro retto per fissi da 20mm <i>20mm smooth glazing bead for fixed</i>	268	- -
		PL 1421	Fermavetro retto per fissi da 21mm <i>21mm smooth glazing bead for fixed</i>	290	- -
		PL 1425	Fermavetro retto per fissi da 24,5mm <i>24.5mm smooth glazing bead for fixed</i>	304	- -
		PL 1428	Fermavetro retto per fissi da 27,5mm <i>27.5mm smooth glazing bead for fixed</i>	312	- -
		PL 1432	Fermavetro retto per fissi da 32mm <i>32mm smooth glazing bead for fixed</i>	331	- -
		PL 1435 *	Fermavetro retto di sicurezza per fissi da 35mm <i>35mm tubular smooth glazing bead for fixed</i>	434	- -
		PL 1439 *	Fermavetro retto di sicurezza per fissi da 38,5mm <i>38.5mm tubular smooth glazing bead for fixed</i>	445	- -

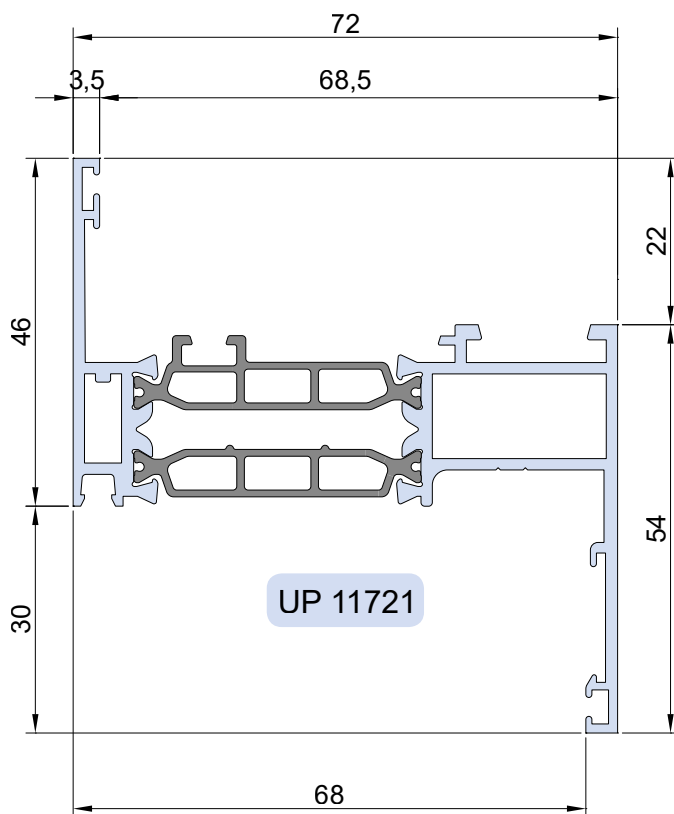
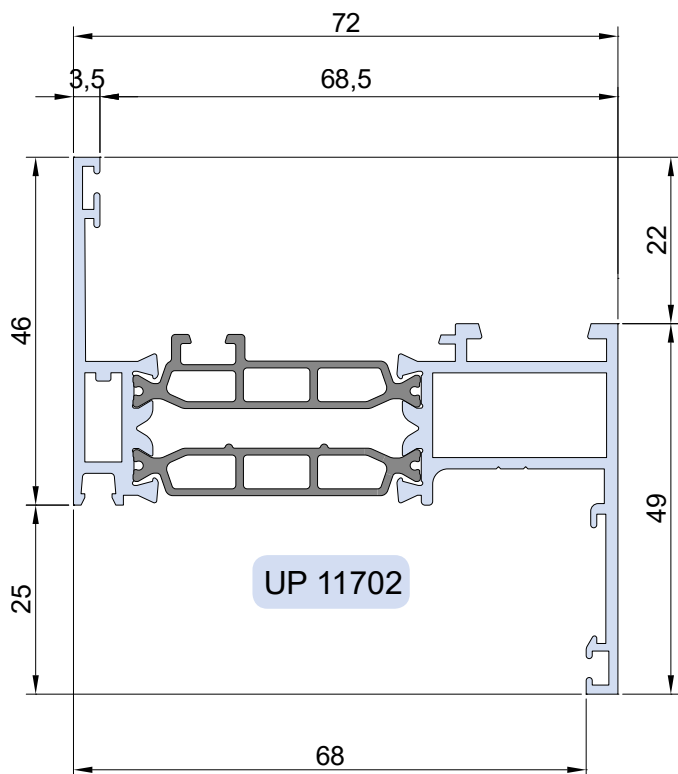
* UTILIZZARE SEMPRE ACP 5027/ * Use ACP 5027 always

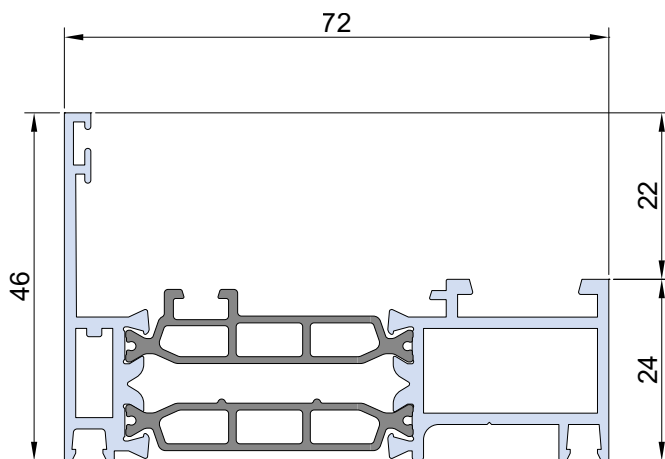
ELENCO PROFILI
List of profiles

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 1442 *	Fermavetro retto di sicurezza per fissi da 41,5mm <i>41.5mm tubular smooth glazing bead for fixed</i>	454	- -
		PL 14214 *	Fermavetro retto di sicurezza per fissi da 14mm <i>14mm tubular smooth glazing bead for fixed</i>	329	- -
		PL 14221 *	Fermavetro retto di sicurezza per fissi da 21mm <i>21mm tubular smooth glazing bead for fixed</i>	353	- -
		PL 14225 *	Fermavetro retto di sicurezza per fissi da 24,5mm <i>24.5mm tubular smooth glazing bead for fixed</i>	370	- -
		PL 14228 *	Fermavetro retto di sicurezza per fissi da 27,5mm <i>27.5mm tubular smooth glazing bead for fixed</i>	389	- -
		PL 14121	Fermavetro retto per fissi con portaguarnizione da 21mm <i>Flat glazing bead for 21mm fixed</i>	280	- -
		PL 14125	Fermavetro retto per fissi con portaguarnizione da 25mm <i>Flat glazing bead for 25mm fixed</i>	313	- -
		PL 14128	Fermavetro retto per fissi con portaguarnizione da 27,5mm <i>Flat glazing bead for 27.5mm fixed</i>	323	- -
		PL 14132	Fermavetro retto per fissi con portaguarnizione da 32mm <i>Flat glazing bead for 32mm fixed</i>	338	- -

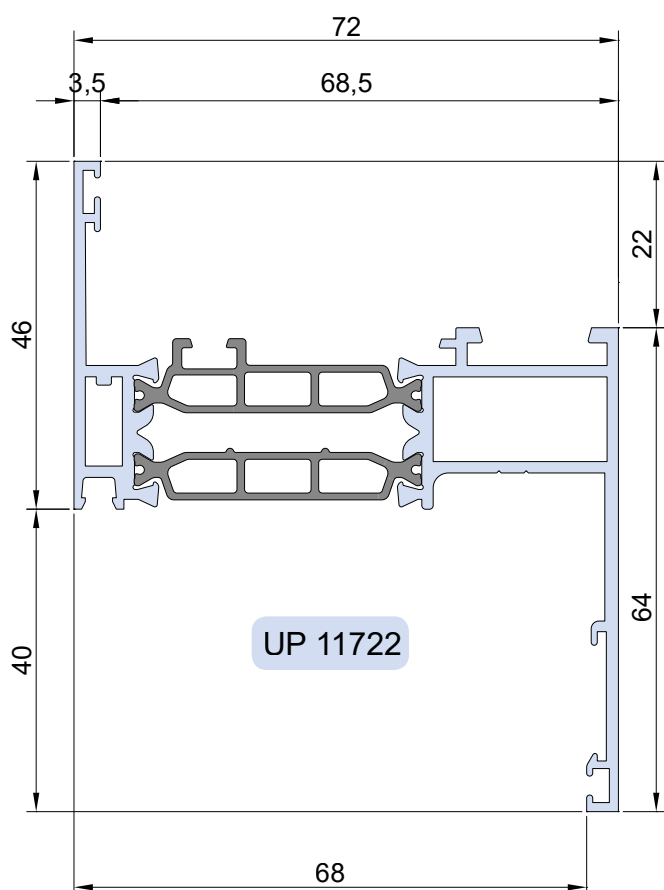
* UTILIZZARE SEMPRE ACP 5027/ * Use ACP 5027 always

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		PL 15007	Riduttore spalla telai <i>Frame reducer</i>	147	- -
		PL 20100	Gocciolatoio <i>Drip</i>	129	- -
		PL 20126	Rinforzo soglia ribassata <i>Low sill reinforcement</i>	260	- -





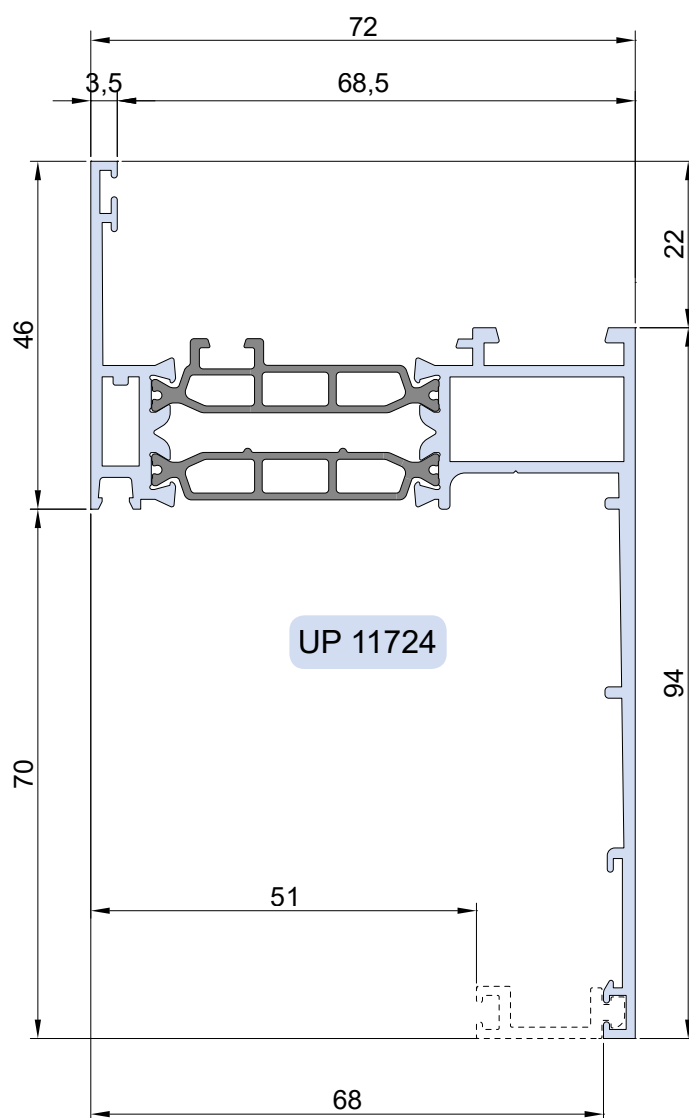
UP 11703



UP 11722

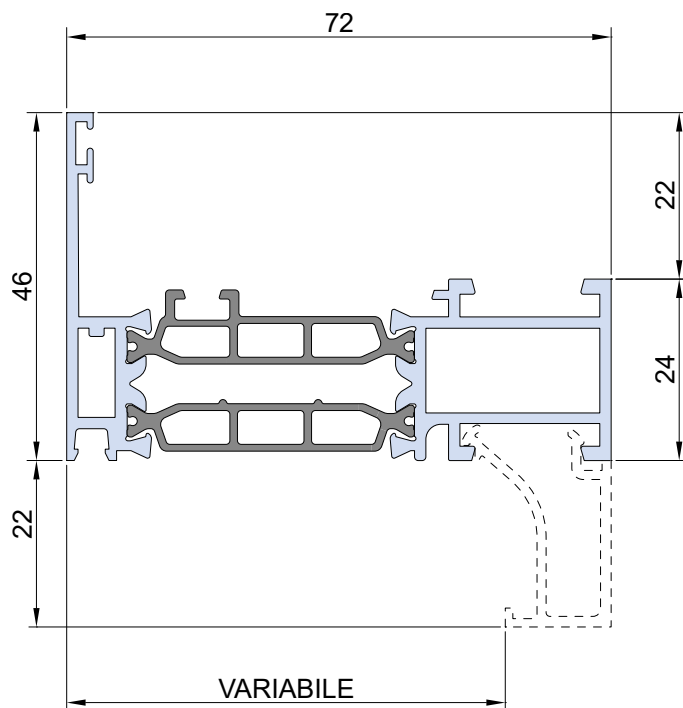
PL 15007

147 gr/m

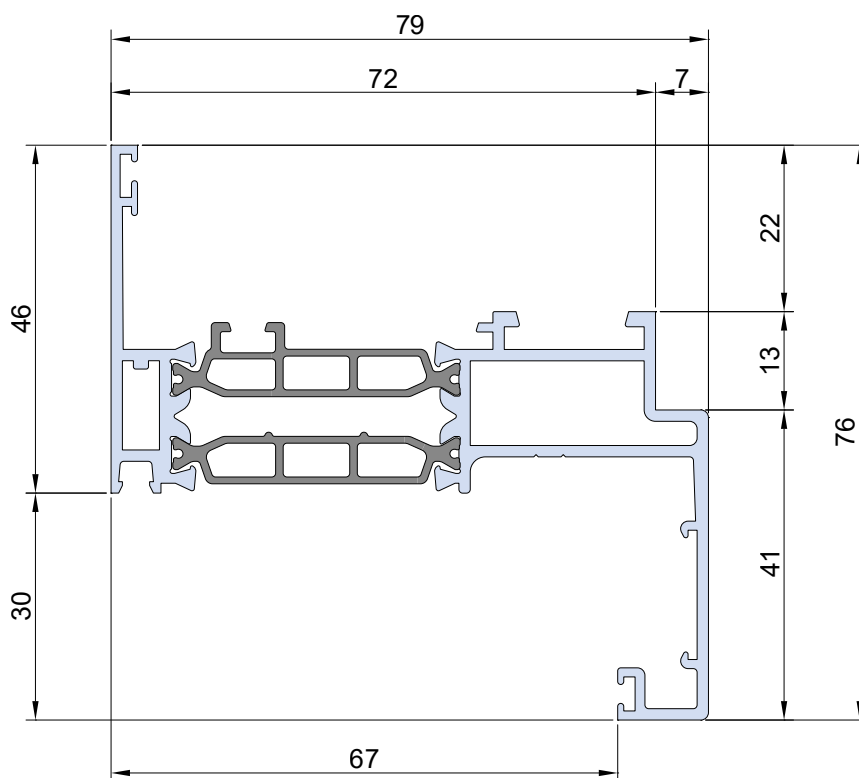


UP 11724

UP 11700

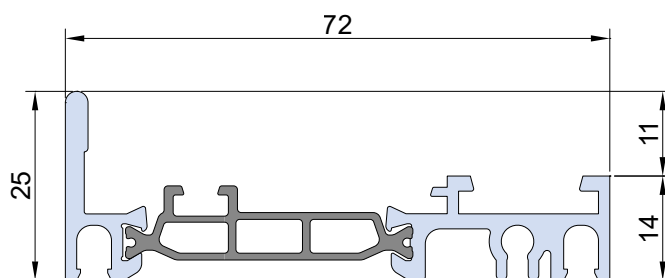


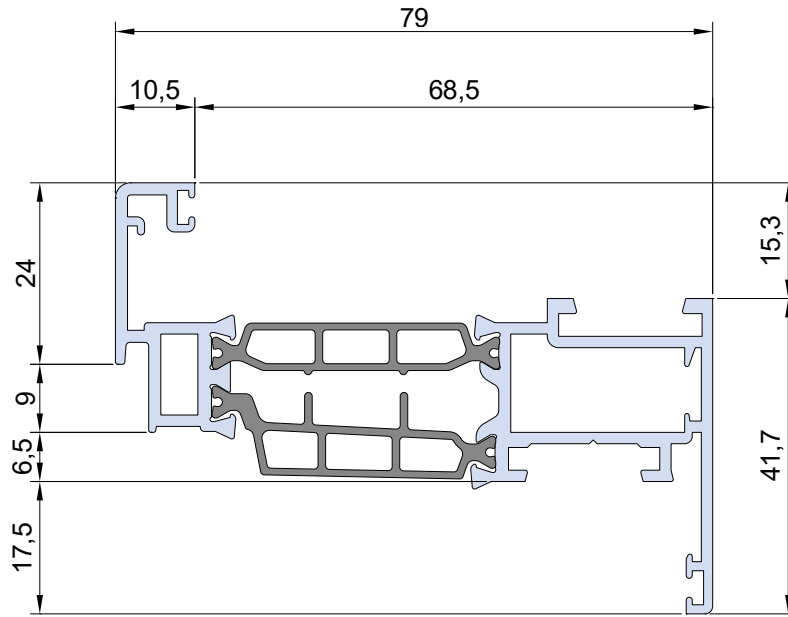
UP 11708



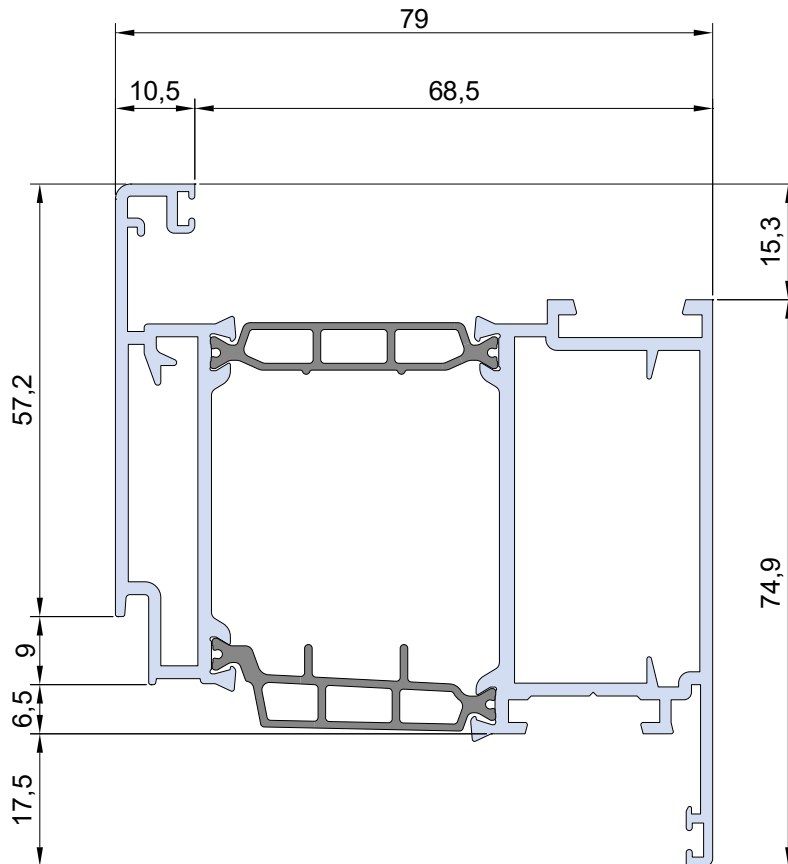
UP 71807

747 gr/m

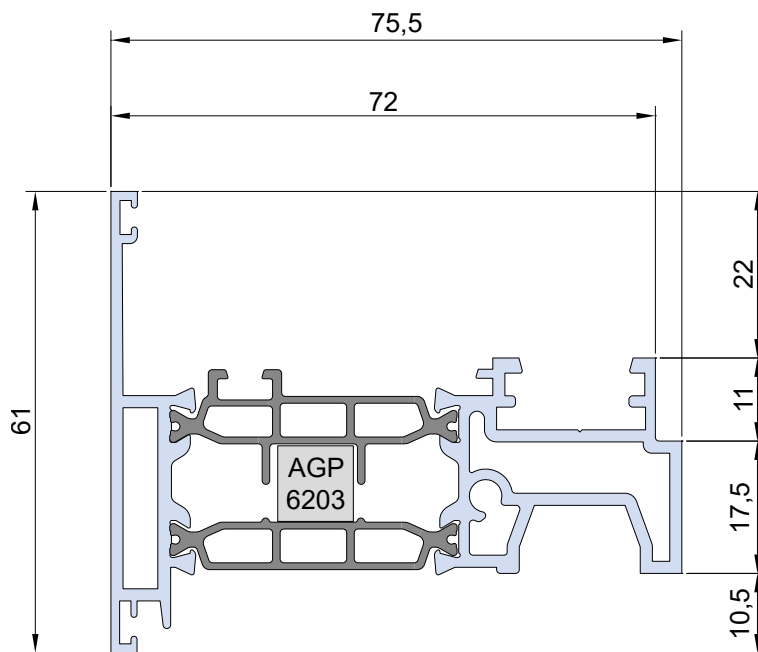




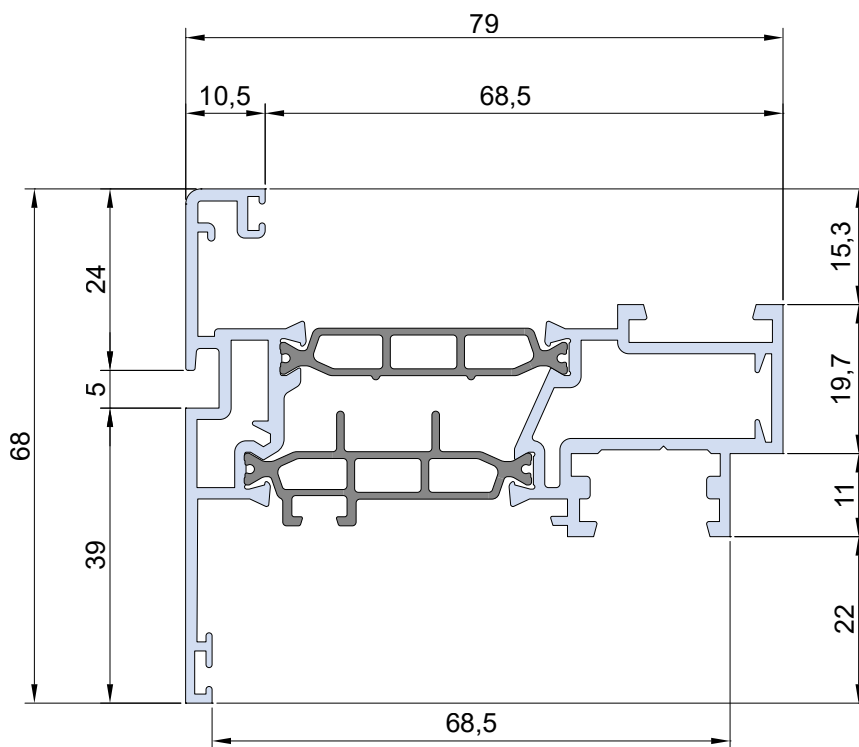
UP 11777



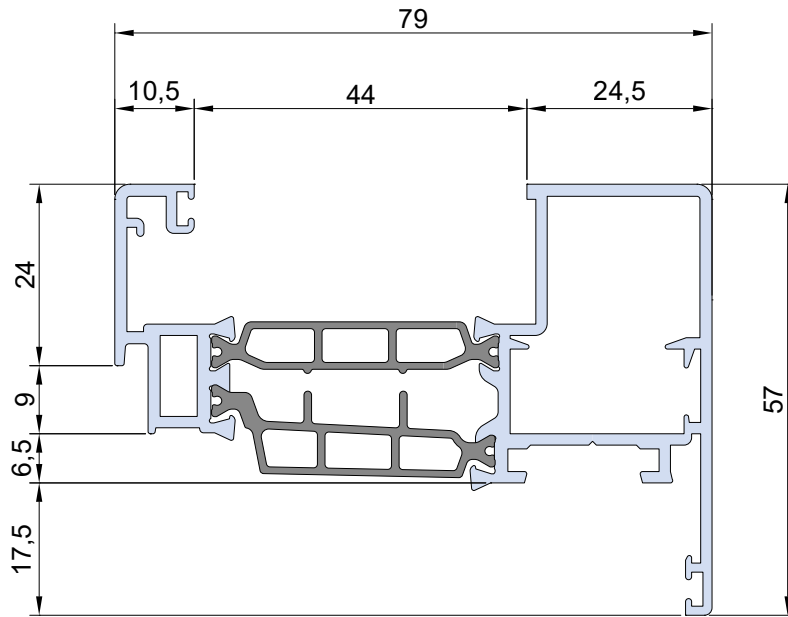
UP 11778



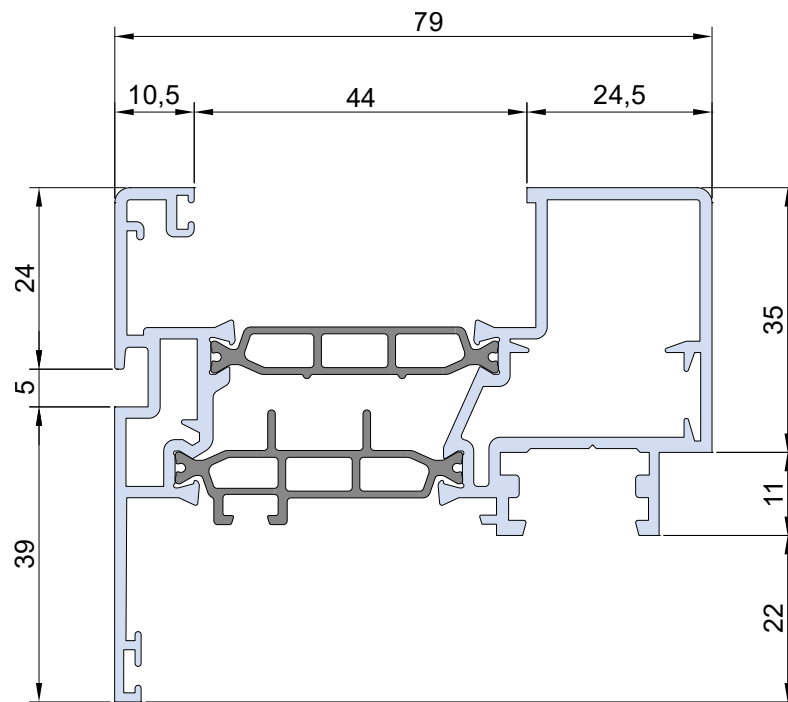
UP 11713



UP 11714

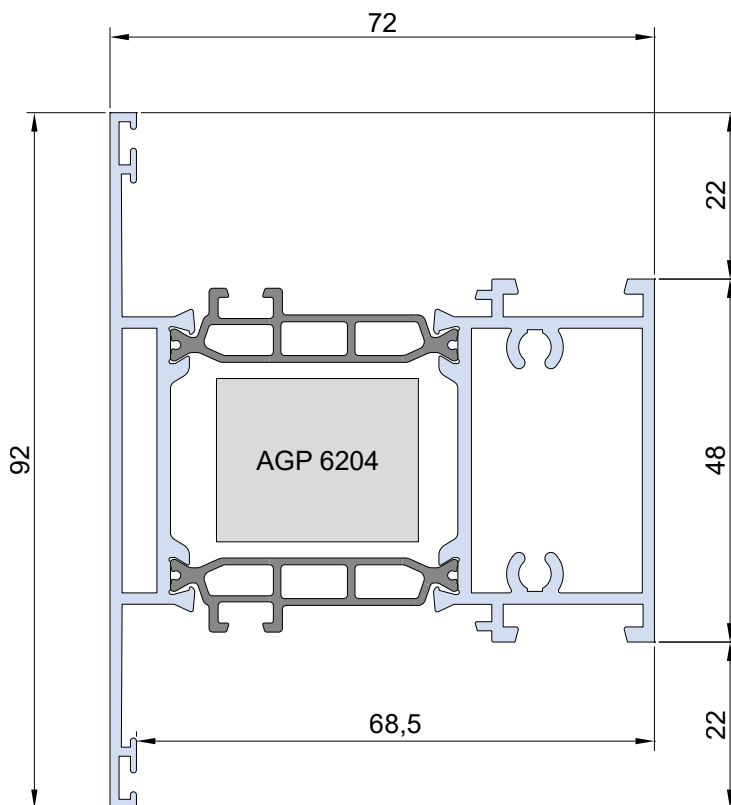


UP 13751

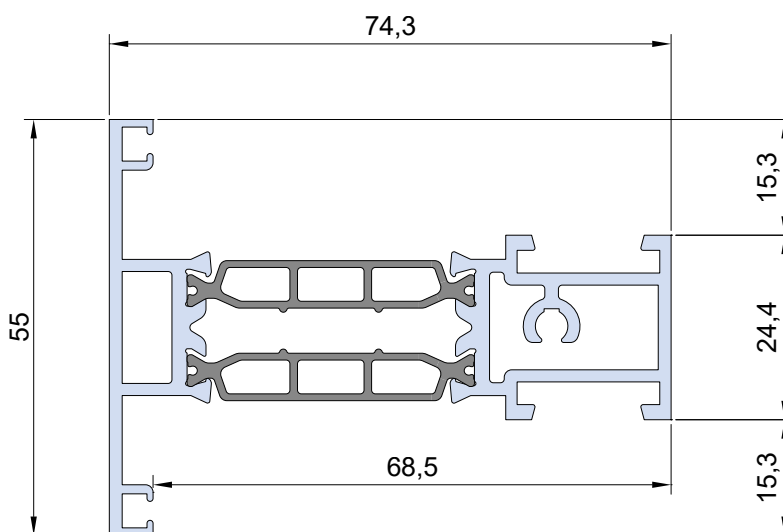


UP 13714

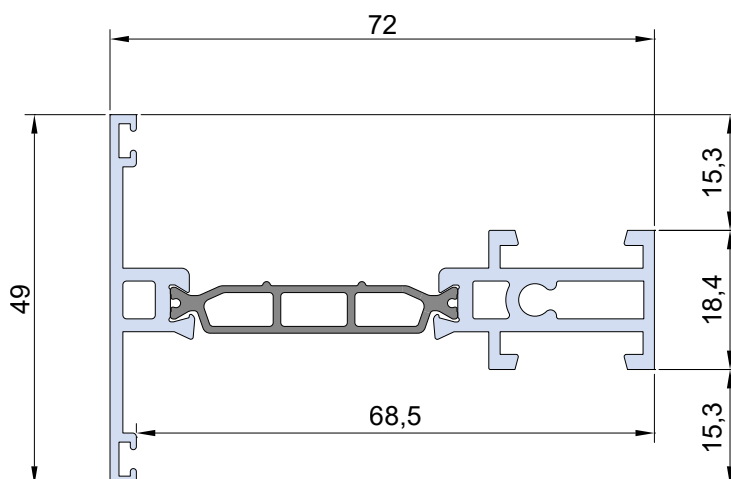
UP 12738

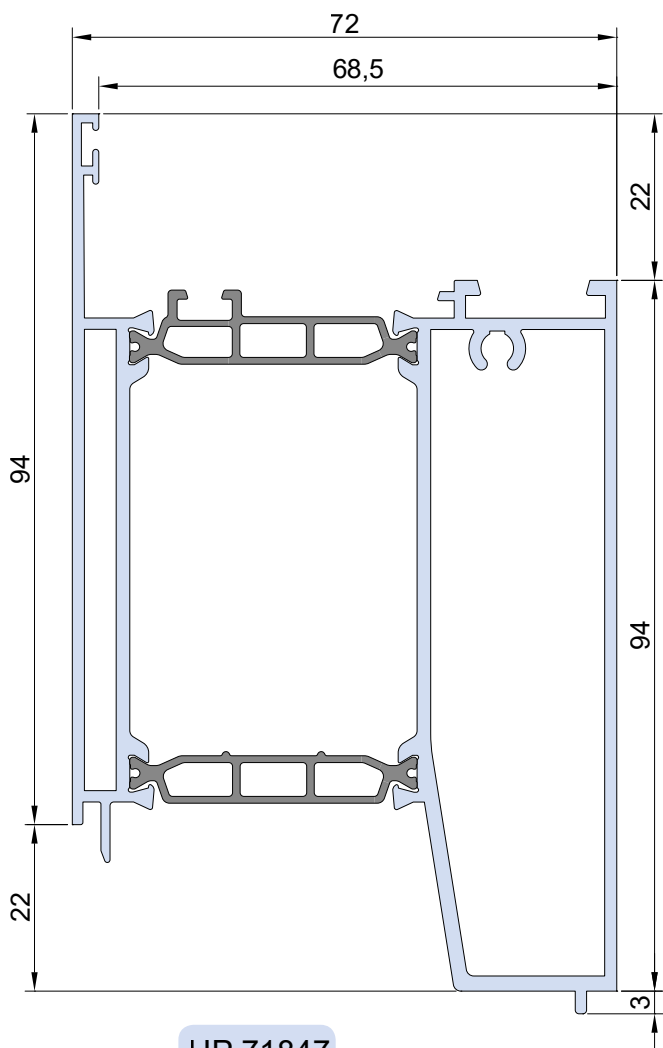


UP 11728



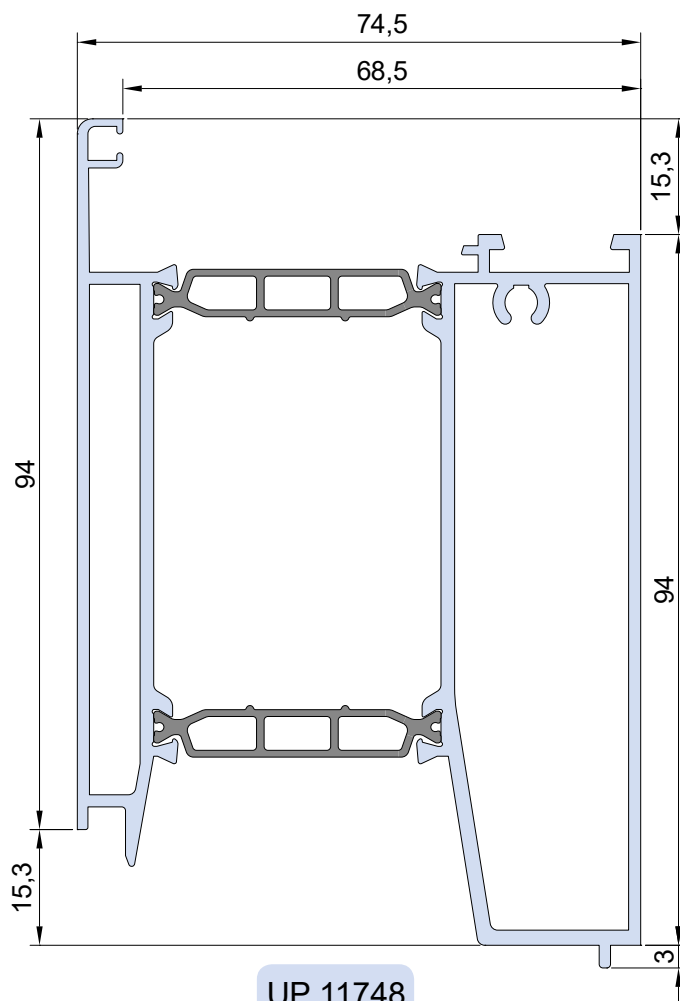
UP 11738





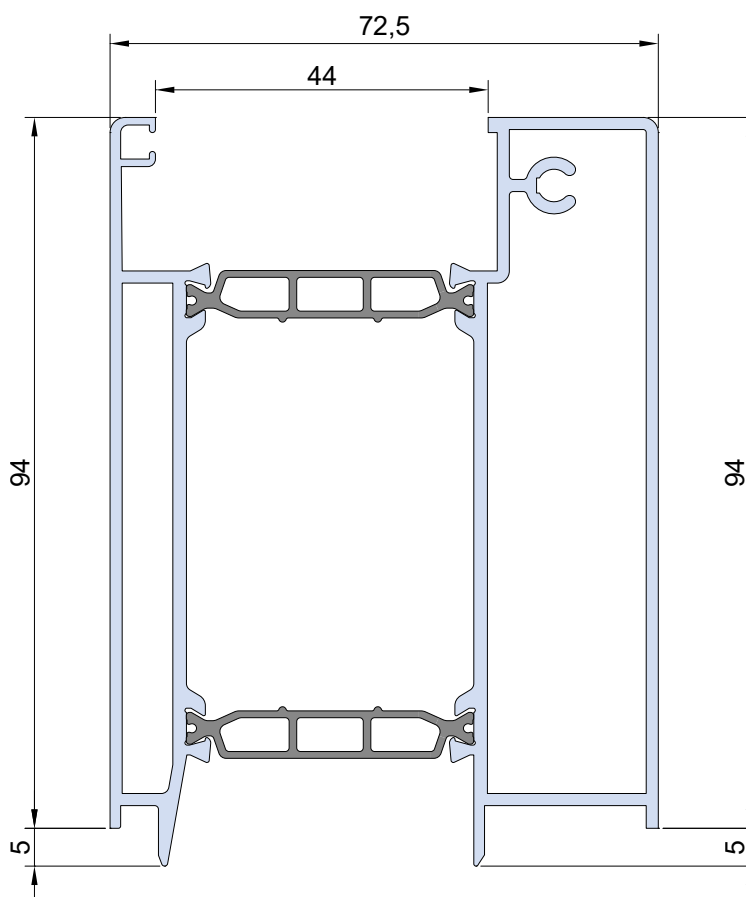
UP 71847

2265 gr/m

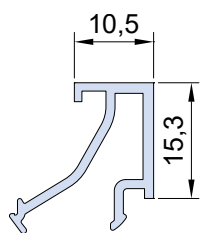


UP 11748

UP 13748

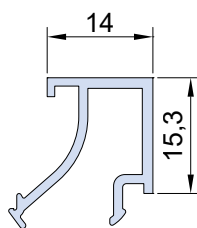


SAGOMARIO
Profilo representation



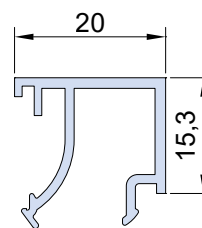
PL 1110

200 gr/m



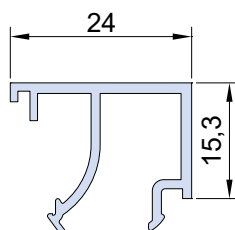
PL 1114

207 gr/m



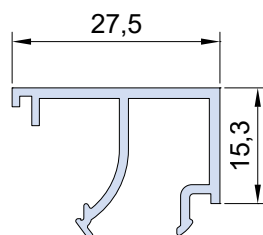
PL 1120

235 gr/m



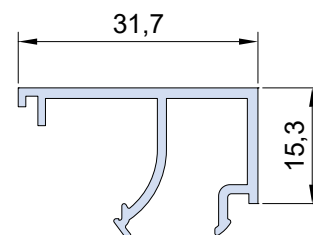
PL 1124

251 gr/m



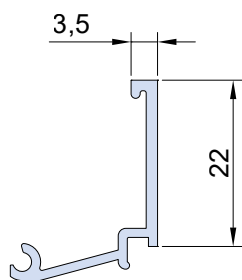
PL 1128

264 gr/m



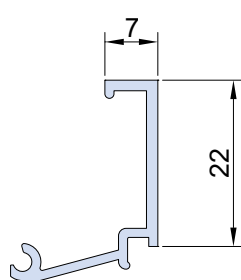
PL 1132

280 gr/m



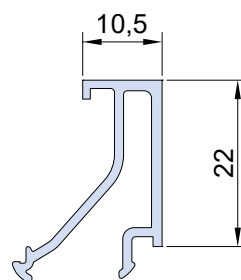
PL 1404

190 gr/m
*



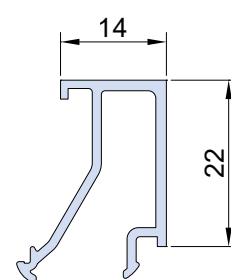
PL 1407

206 gr/m
*



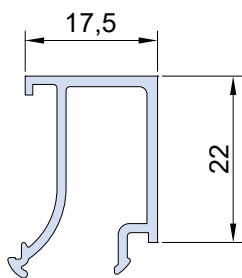
PL 1411

252 gr/m



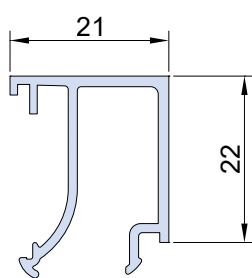
PL 1414

257 gr/m



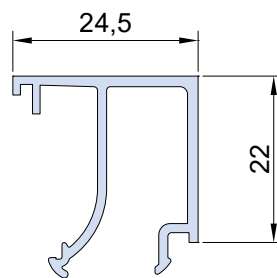
PL 1418

268 gr/m



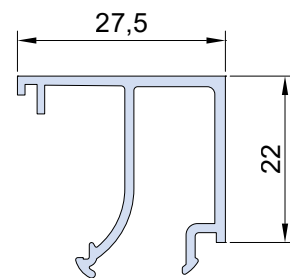
PL 1421

290 gr/m



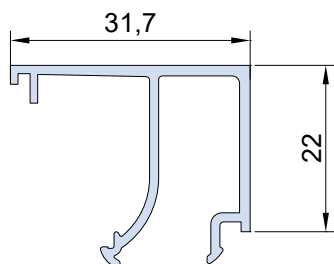
PL 1425

304 gr/m



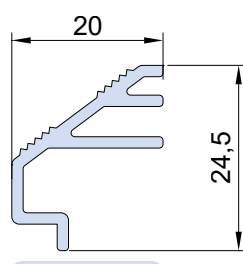
PL 1428

312 gr/m



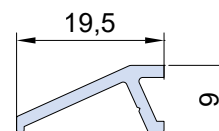
PL 1432

331 gr/m



PL 20126

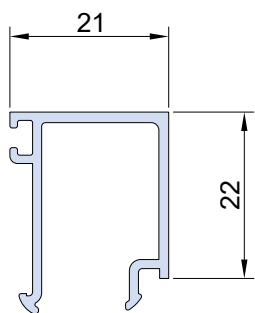
260 gr/m



PL 20100

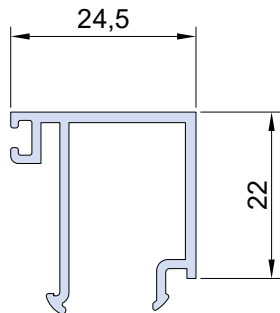
129 gr/m

* UTILIZZARE SEMPRE GOMMINO ACP5027



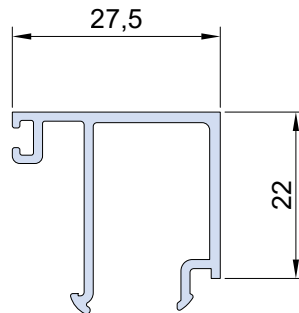
PL 14121

280 gr/m



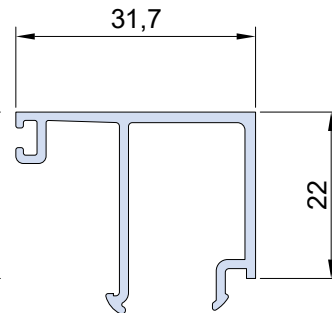
PL 14125

313 gr/m



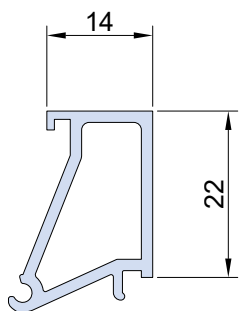
PL 14128

323 gr/m



PL 14132

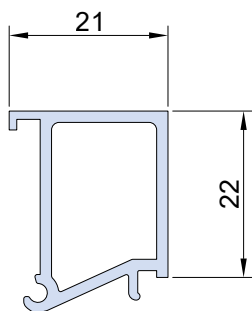
338 gr/m



PL 14214

329 gr/m

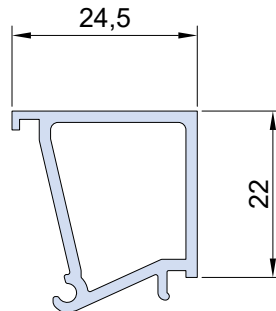
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PL 14221

353 gr/m

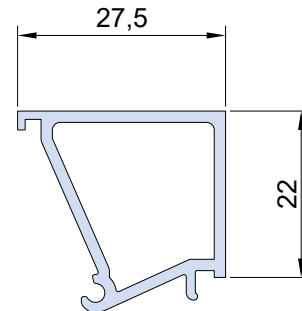
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PL 14225

370 gr/m

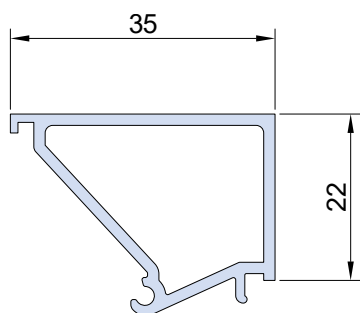
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PL 14228

389 gr/m

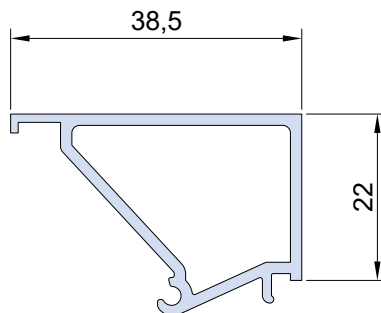
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PL 1435

434 gr/m

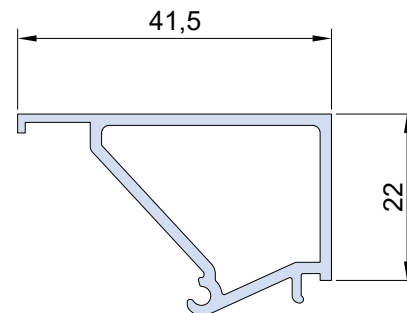
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PL 1439

445 gr/m

*



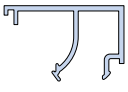
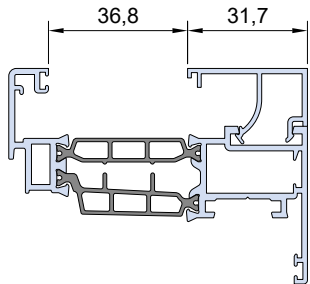

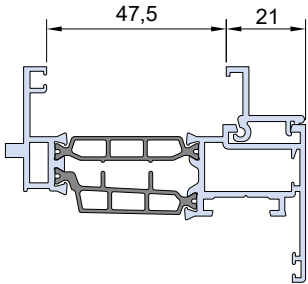
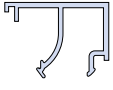
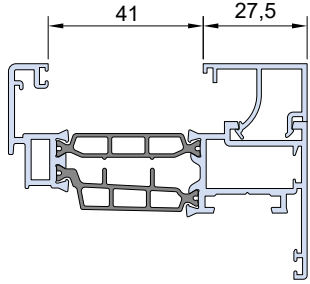

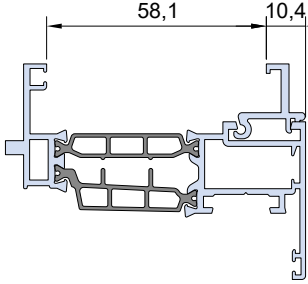

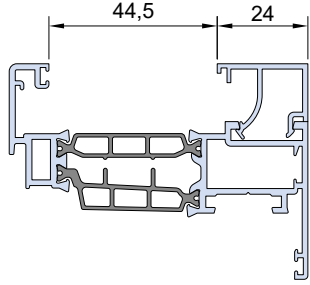

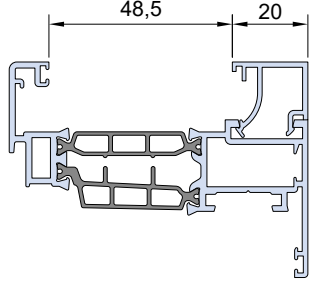

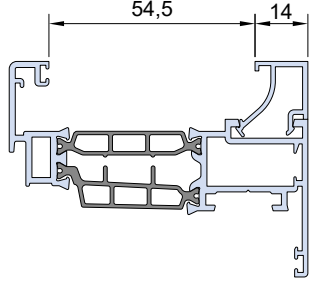

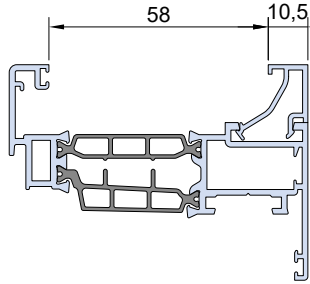
PL 1442

454 gr/m

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* UTILIZZARE SEMPRE GOMMINO ACP5027

Fermavetro	Telaio	Fermavetro	Telaio
<p>PL 1442</p>		<p>PL 1421</p> <p>PL 14121</p>	
<p>PL 1439</p>		<p>PL 14221</p> <p>PL 14421</p>	
<p>PL 1435</p>		<p>PL 1418</p>	
<p>PL 1432</p> <p>PL 14132</p>		<p>PL 14214</p> <p>PL 1414</p>	
<p>PL 1428</p> <p>PL 14128</p>		<p>PL 1411</p>	
<p>PL 14228</p>		<p>PL 1407</p>	
<p>PL 1425</p> <p>PL 14125</p>		<p>PL 1404</p>	
<p>PL 14225</p>			

Fermavetro	Anta UP 11777	Fermavetro	Anta UP 12727
 PL 1132		 PL 11421	
 PL 1128		 PL 11411	
 PL 1124			
 PL 1120			
 PL 1114			
 PL 1110			

AC 2099	Tappino chiudiforo Ø11,5mm <i>Hole-closing cap Ø11,5mm</i>
ACP 5001	Vite Ø8mm per squadrette multifunzione ACP 7002 <i>Screw Ø8mm for multi-function corner cleat ACP 7002</i>
ACP 5006	Cerniera 3 ali componenti inox e piastrini premontati, per telai piani <i>3-wings hinge for flat frames, stainless steel components and pre-assembled plates</i>
ACP 5008	Squadretta allineamento in acciaio inox <i>Alignment corner joint, stainless steel</i>
ACP 5010	Cerniera vasistas doppio scatto <i>Hinge, double snap for boom hung open in</i>
ACP 5012	Cerniera vasistas scatto singolo <i>Hinge, single snap for boom hung open in</i>
ACP 5017	Cricchetto vasistas applicazione rapida <i>Awning/hopper window quick fitting finger catch</i>
ACP 5027	Gommino di bloccaggio per fermavetri a contrasto <i>Glazing bead locking rubber strip</i>
ACP 5030	Spina Ø3mm per squadrette ACP 62153 e ACP 62154 con manico <i>Pin, Ø3mm., with grip for ACP 62153 and ACP 62154 multifunction corner cleats</i>
ACP 5035	Regolo muro in nylon <i>Nylon wall spacer</i>
ACP 5036	Regolo muro in metallo <i>Metal wall spacer</i>
ACP 5058	Rotella inserimento guarnizione centrale <i>Gasket fitting roller</i>
ACP 50128	Cappetta scarico acqua in nylon <i>Nylon drainage plug, black</i>
ACP 50128C	Cover in alluminio, da abbinare ad ACP 50128 <i>Aluminium cover to ACP 50128. Combine with ACP 50128</i>
ACP 50226	Piastrina sostegno anta <i>Plastic support for sash</i>
ACP 50239	Doppia maniglia Aurora per porte <i>Aurora double handle for door</i>
ACP 50552	Martellina Aurora 0-90-180° quadro 7mm <i>Aurora Martellina 0-90-180°, 7mm</i>
ACP 50310	Maniglia EXENS linea Tonda <i>EXENS rounded handle</i>

ACP 50311	Movimento monodirezionale per maniglia EXENS <i>Monodirectional EXENS mechanism for EXENS handle</i>
ACP 50312	Movimento bidirezionale per maniglia EXENS <i>Bidirectional EXENS mechanism for EXENS handle</i>
ACP 50313	Maniglia EXENS squadrata <i>EXENS squared handle</i>
ACP 50314	Maniglia EXENS linea Aurora <i>Aurora EXENS handle</i>
ACP 50318	Doppia EXENS linea Aurora per porte <i>Double Aurora EXENS handle for door</i>
ACP 50321	Maniglia EXENS linea tonda con chiave <i>Exens rounded key-handle</i>
ACP 50322	Maniglia EXENS linea squadrata con chiave <i>Exens squared key-handle</i>
ACP 50323	Kit a/r con meccanismo EXENS per manovra logica <i>T/T kit with EXENS drive for logical maneuver</i>
ACP 50330	Maniglia EXENS linea Aurora quadro 7mm <i>EXENS Aurora line square 7mm</i>
ACP 50341	Basetta copricilindro per doppia maniglia Aurora <i>Base for cylinder dust cap for Aurora double handle</i>
ACP 50400	Cremonese Aurora bidirezionale <i>Bidirectional Cremonese Aurora handle</i>
ACP 50401	Cremonese Aurora monodirezionale per anta ribalta e scorrevole parallelo <i>Monodirectional Cremonese Aurora handle for tilt & turn and parallel slide</i>
ACP 50405	Cerniera premontata, per telai piani <i>Hinge for flat frames.</i>
ACP 50407	Cerniera 3 ^a anta inox e piastrini premontati, usare 1 coppia h max=1800 mm per h oltre 1800 mm inserire la 3a cerniera <i>3rd sash hinge. Use a pair of hinge for hmax=1800 mm, 3 hinges for h>1800 mm</i>
ACP 50410	Kit punto di chiusura a fungo di sicurezza <i>Safety locking point kit</i>
ACP 50411	Bracci sporgere telescopici a coppie <i>Top-hinged telescopic arms for projected windows</i>

ACP 50421	Punto di chiusura registrabile <i>Adjustable locking point</i>
ACP 50422	Catenacciolo in nylon <i>Nylon bolt</i>
ACP 50425	Cavallotto cava fermavetro per inglesine <i>Clamp glazing bead for muntin bars</i>
ACP 50432	Manico per cremonese Aurora ACP 50433/50434 <i>Cremonese Aurora handle for ACP 50433/50434</i>
ACP 50433	Cremonese Aurora bidirezionale senza impugnatura <i>Cremonese Aurora bidirectional without handle</i>
ACP 50434	Cremonese Aurora monodirezionale senza impugnatura <i>Cremonese Aurora monodirectional without handle</i>
ACP 50445	Blocchetti collegamento cremonese in poliammide <i>Polyamide connection pieces for Cremonese handle</i>
ACP 50446/350	Braccio ribalta extra corto 350/410mm da abbinare ad ACP 50476 e ACP 50477 <i>Extra short tilt arm 350/410mm</i>
ACP 50446/415	Braccio ribalta corto 410/700mm da abbinare ad ACP 50476 e ACP 50477 <i>Short tilt arm 410/700mm</i>
ACP 50446/538	Braccio ribalta lungo 701/1800mm da abbinare ad ACP 50476 e ACP 50477 <i>Long tilt arm 701/1800mm</i>
ACP 50447	Kit catenacci per a/r standard (con prolunga alluminio) <i>Deadbolt kit for standard tilt & turn (with aluminum extension)</i>
ACP 50448	Traino per cremonese monodirezionale <i>Towing for monodirectional cremone bolt</i>
ACP 50452	Catenaccioli a spinta in kit in zama con eccentrico di registrazione per anta semifissa <i>Metal bolt set</i>
ACP 50456	Cerniere a/r telai piani <i>T/T hinges for flat frames</i>
ACP 50457	Cerniere a/r telai complanari <i>T/T hinges for coplanar frames</i>
ACP 50459	Adattatore anta abbinata per cerniere ACP 50456 e ACP 50457 <i>Matching sash adapter for ACP 50456 and ACP 50457 hinges</i>

ACP 50475	Kit finestra 1 anta battente <i>Window kit 1 hinged sash</i>
ACP 50476	Kit a/r con traino per cremonese e 2 funghetti AE <i>T/T kit with drive for cremonese bolt and 2 antiburglary locking point</i>
ACP 50477	Kit a/r con meccanismo martellina e 2 funghetti AE <i>T/T kit with handle mechanism and 2 antiburglary locking point</i>
ACP 50478	Kit a/r con meccanismo EXENS e 2 funghetti AE <i>T/T kit with EXENS mechanism and 2 antiburglary locking point</i>
ACP 50481	Kit a/r con traino cremonese per manovra logica <i>T/T kit with cremonese bolt drive for logical maneuver</i>
ACP 50482	Incontro doppio in nylon <i>Double nylon striker</i>
ACP 50525	Terminale asta <i>Rod terminal</i>
ACP 50546/415	Braccio ribalta corto per ante da 410 a 700mm manovra logica <i>Short tilting arm for sashes from 410 to 700mm logic operation</i>
ACP 50546/538	Braccio ribalta lungo per ante da 550 a 1800mm manovra logica <i>Long tilting arm for sashes from 550 to 1800mm logic operation</i>
ACP 50582	Incontro singolo in nylon <i>Single nylon striker</i>
ACP 5150/D	Kit anta ribalta SECRET con cerniera a scomparsa DX braccio corto; Dimensioni anta (L): 472-700mm <i>SECRET tilt and turn windows kit. It is included concealed hinge for right short arm. Sash dimension (L): 472-700mm</i>
ACP 5150/S	Kit anta ribalta SECRET con cerniera a scomparsa SX braccio corto; Dimensioni anta (L): 472-700mm <i>SECRET tilt and turn windows kit. It is included concealed hinge for left short arm. Sash dimension (L): 472-700mm</i>
ACP 5151/D	Kit anta ribalta SECRET con cerniera a scomparsa DX braccio lungo; Dimensioni anta (L): 600-1500mm <i>SECRET tilt and turn windows kit. It is included hidden hinge for right long arm. Sash dimension (L): 600-1500mm</i>
ACP 5151/S	Kit anta ribalta SECRET con cerniera a scomparsa SX braccio lungo; Dimensioni anta (L): 600-1500mm <i>SECRET tilt and turn windows kit. It is included hidden hinge for left long arm. Sash dimension (L): 600-1500mm</i>
ACP 5152	Incontro doppio in zama SECRET per finestra 2 ante battente <i>SECRET Double keeper zamak made for casement window</i>
ACP 5153	Braccio supplementare SECRET per L>1000mm da abbinare ad ACP 5151 <i>SECRET additional window arm, L>1000mm</i>

ACP 5154	Chiusura supplementare lato cerniere (rostro) <i>Beak for passive sash</i>
ACP 5155	Chiusura supplementare per cerniera scomparsa A/R SECRET. Si usa anche in orizzontale per L>1000mm e tra le cerniere per H>1200mm <i>Additional locking piece for SECRET tilt & turn L>1000mm, H>1200mm</i>
ACP 5156	Catenacciolo ante passive in abbinamento ad anta ribalta SECRET <i>SECRET bolt for passive sash</i>
ACP 5157	Kit catenacci con manovra bidirezionale SECRET ante passive <i>SECRET bolt set for two ways directional device</i>
ACP 5158	Incontro singolo in zama per catenacciolo <i>Single keeper zamak</i>
ACP 5159	Terminale in zama SECRET, finestre a battente <i>SECRET zamak rod end zamak</i>
ACP 5161/D	Kit cerniera a scomparsa DX SECRET anta passiva, battente <i>SECRET concealed hinge set right passive sash</i>
ACP 5161/S	Kit cerniera a scomparsa SX SECRET anta passiva, battente <i>SECRET concealed hinge set left passive sash</i>
ACP 5162/D	Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - portata max 150kg- dimensioni anta (L): 472-700mm <i>SECRET tilt and turn mechanism with concealed hinges, right, short arm - Max load 150kg - sash dimensions (L): 472-700mm</i>
ACP 5162/S	Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio corto - portata max 150kg - dimensioni anta (L): 472-700mm <i>SECRET tilt and turn mechanism with concealed hinges, left, short arm - Max load 150kg - sash dimensions (L): 472-700mm</i>
ACP 5163/D	Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - portata max 150kg - dimensioni anta (L): 600-1500mm <i>SECRET tilt and turn mechanism with concealed hinges, right, long arm - Max load 150kg - sash dimensions (L): 600 - 1500mm</i>
ACP 5163/S	Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio lungo - portata max 150kg- dimensioni anta (L): 600-1500mm <i>SECRET tilt and turn mechanism with concealed hinges, left, long arm - Max load 150kg - sash dimensions (L): 600 - 1500mm</i>
ACP 5164/D	Kit cerniera a scomparsa SECRET anta passiva destra - portata max 150kg <i>SECRET concealed hinges, right - Max load 150kg</i>
ACP 5164/S	Kit cerniera a scomparsa SECRET anta passiva sinistra - portata max 150kg <i>SECRET concealed hinges, left - Max load 150kg</i>
ACP 5165	Braccio limitatore di apertura <i>Limit stay arm</i>
ACP 5166	SECRET - Kit Cerniere VASISTAS per infissi fino a 2.500 mm di larghezza <i>SECRET - VASISTAS Hinges Kit for windows up to 2,500 mm wide</i>

ACP 5167	SECRET - Sostegno anta da abbinare al kit ACP 5166 <i>SECRET - Support for sash to combine with the ACP 5166 kit</i>
ACP 5171	Kit Vasistas per cerniere ACP 5166 <i>Vasistas Kit for ACP 5166 hinges</i>
ACP 5198	Meccanismo martellina monodirezionale per A/R, quadro 7mm <i>Handle mechanism monodirectional for T/T windows</i>
ACP 5199N	Meccanismo martellina bidirezionale per battente, quadro 7mm <i>Two ways directional handle mechanism for windows casement</i>
ACP 51454	Rostro per ferramenta standard <i>Rostrum for standard hardware</i>
ACP 5503	Squadretta 22X10mm, angolo variabile min. 30° max.178° <i>Bracket 22x10mm, variable angle min. 30° max. 178°</i>
ACP 5800	Spina per squadretta multifunzione ACP 7002 <i>Pin for multifunction corner cleat ACP 7002</i>
ACP 6202	Squadretta a bottone per tubolarità interna <i>Button square for internal tubularity</i>
ACP 6220	<small>THERMOPOSA</small> Traverso inferiore 20mm Thermopro in PVC <i>Thermopro PVC sill transom, 20mm</i>
ACP 6246/25	<small>THERMOPOSA</small> Controtelaio Thermopro spalla 72mm, battuta 25 rifilabile <i>Thermopro subframe 72mm, beat 25</i>
ACP 6246/49	<small>THERMOPOSA</small> Controtelaio Thermopro spalla 72mm battuta 49 rifilabile <i>Thermopro subframe 72mm, beat 49</i>
ACP 6249	<small>THERMOPOSA</small> Traverso inferiore 40mm Thermopro in PVC <i>Thermopro PVC sill transom</i>
ACP 6251	<small>Hi</small> Squadretta di allineamento per telaio <i>Alignment corner bracket frame</i>
ACP 6254	<small>THERMOPOSA</small> Staffe per traverso ACP 6249 <i>Transom bracket for ACP 6249</i>
ACP 6255	<small>THERMOPOSA</small> Zanche per fissaggio del controtelaio ACP 6246 <i>Clamps for fixing of subframe for ACP 6246</i>
ACP 6256	<small>THERMOPOSA</small> Squadretta angolare per controtelaio ACP 6246 <i>Corner cleat for ACP 6246</i>
ACP 6257	<small>THERMOPOSA</small> Piastra di allineamento per controtelaio ACP 6246 <i>Alignment plate for ACP 6246</i>



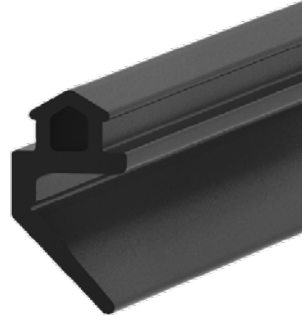
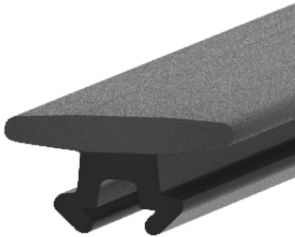



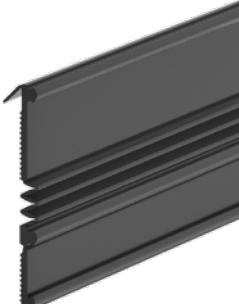


ACP 6258	THERMOPOSA Squadretta di rinforzo per controtelaio ACP 6246 <i>Reinforced bracket for ACP 6246</i>
ACP 6259	THERMOPOSA Rinforzo tubolare aperto in acciaio 12x40mm per controtelaio ACP 6246 <i>Steel tubular reinforcement 12x40mm for ACP 6246</i>
ACP 6260	THERMOPOSA Staffe per traverso ACP 6220 <i>Transom bracket for ACP 6220</i>
ACP 6282	Hi Tappo gocciolatoio per PL 15006 <i>Drip cap for PL 15006</i>
ACP 62110	Squadretta allineamento con tiraggio a camme aletta esterna anta <i>Alignment bracket with external flap cam draft sash</i>
ACP 62153	Squadretta multifunzione per tubolarità esterna normale <i>Multifunction bracket for normal external tubularity</i>
ACP 62154	Squadretta multifunzione per tubolarità esterna maggiorata <i>Multifunction bracket for increased external tubularity</i>
ACP 62155	Squadretta a cianfrinare o spianare <i>Crimping or flattening square</i>
ACP 62156	Spina 8x11mm per squadretta ACP 62155 <i>8x11mm plug for ACP 62155 bracket</i>
ACP 72179M	Tappo riporto centrale versione giunto aperto <i>Central plug for open joint</i>
ACP 72180M	MATIC Tappo riporto centrale versione MATIC <i>Central plug for MATIC</i>
ACP 72686	Tappo T all'italiana <i>Italian T cap</i>
ACP 72690	Hi Tappo di riporto centrale versione Hi <i>Central plug for Hi version</i>
ACP 7002	Squadretta multifunzione 17,5x44mm <i>Multifunction bracket 17.5x44mm</i>
ACP 7207	Cavallotto di allineamento scocca esterna profili dritti <i>External alignment clamp for plane profiles</i>
AGP 4000	Guarnizione di battuta in EPDM <i>EPDM rabbet seal</i>

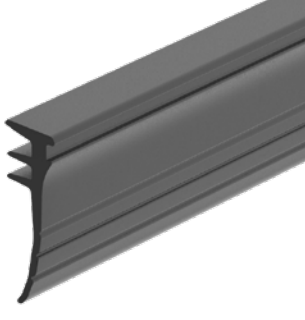
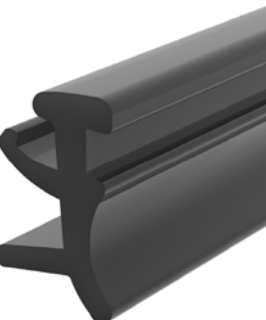

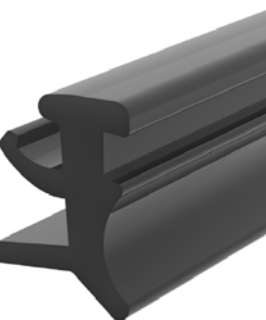

AGP 4002	Guarnizione isolamento perimetrale muro-telaio <i>Wall-frame perimeter insulation seal</i>
AGP 4004	Guarnizione di battuta in EPDM coestruso, inserimento ad infilare <i>R rebate gasket in co-extruded EPDM</i>
AGP 4006	Guarnizione di battuta per riporto centrale lato semifisso per versione giunto aperto <i>Astragal seal, semi-fixed side, for internal gasket sealing version</i>
AGP 4013	Guarnizione vetro esterna in EPDM 2,5mm <i>EPDM external glazing seal 2,5mm</i>
AGP 4014	Guarnizione vetro esterna in EPDM 4mm <i>EPDM external glazing seal, 4mm</i>
AGP 4015	Guarnizione acustica di battuta esterna, coestrusa con base rigida, sostituibile <i>External rabbet acoustic gasket, co-extruded, with replaceable rigid base</i>
AGP 4040	Guarnizione chiudi cava 15mm, color argento <i>Frame recess cover strip 15mm and beat sliding version, silver color</i>
AGP 4085	Angoletto vulcanizzato per AGP 4000 <i>Vulcanized corner piece for AGP 4000</i>
AGP 4099	Guarnizione isolamento perimetrale telaio-controtelaio <i>Frame-subframe perimeter insulating seal</i>
AGP 40131	Guarnizione sottovetro in polietilene espanso <i>Expanded polystyrene glazing strip</i>
AGP 4103	Guarnizione vetro in EPDM 2,5/3,5mm per isolamento acustico e termico <i>Internal glass gasket in EPDM 2,5/3,5mm for sound and thermal insulation</i>
AGP 4106	Guarnizione vetro in EPDM 4/6mm per isolamento acustico e termico <i>Internal glass gasket in EPDM 4/6mm for sound and thermal insulation</i>
AGP 4113	Guarnizione vetro esterna in coestruso EPDM/SPUGNA da 2,5mm per isolamento acustico e termico <i>External glass gasket in co-extruded EPDM/FOAM 2,5mm for sound and thermal insulation</i>
AGP 4203	Guarnizione vetro interna 3mm filo fermavetro. Consente la piega a 90° <i>3mm, inner glazing bead seal</i>
AGP 4204	Guarnizione vetro interna 4mm filo fermavetro. Consente la piega a 90° <i>4mm, inner glazing bead seal</i>
AGP 4205	Guarnizione vetro interna 5mm filo fermavetro. Consente la piega a 90° <i>5mm, inner glazing bead seal</i>
AGP 4206	Guarnizione vetro interna 6mm filo fermavetro. Consente la piega a 90° <i>6mm, inner glazing bead seal</i>

AGP 5030/I	THERMOPOSA Profilo portaintonaco per esterno con asole 250cm <i>Outdoor plaster profile</i>
AGP 5031	THERMOPOSA Profilo portaintonaco per interno con asole 250cm <i>Inner plaster profile</i>
AGP 5032	THERMOPOSA Barriera al vapore per controtelaio ACP 6246 <i>Vapor barrier for ACP 6246</i>
AGP 5033	THERMOPOSA Nastro precompresso BG1 da 15mm per sigillatura della battuta <i>BG1 beat sealing, 15mm</i>
AGP 5034/25	THERMOPOSA Nastro precompresso per posa in battuta per la sigillatura della spalla <i>Band for laying baing, wall sealing</i>
AGP 5035/...	THERMOPOSA Sigillante MS Polimero bianco, marrone, grigio o nero, 290 ml <i>MS Polymer sealant</i>
AGP 5036	THERMOPOSA Schiuma poliuretana elastica fissaggio controtelaio ACP 6246 <i>Elastic polyurethane foam for ACP 6246</i>
AGP 5037	THERMOPOSA Nastro in schiuma di PVC per soglia e traverso inferiore <i>PVC foam band for tramson and threshold</i>
AGP 5058	Sigillante poliuretano bicomponente, cartuccia 415ml <i>Two-component polyurethane sealant, 415ml cartridge</i>
AGP 5059	Pistola manuale per sigillante bicomponente AGP 5058 <i>Manual gun for two-component sealant AGP 5058</i>
AGP 5069	Pistola pneumatica per sigillante bicomponente AGP 5058 <i>Pneumatic gun for two-component sealant AGP 5058</i>
AGP 5072	Beccuccio Static Mixer per AGP 5058 <i>Static Mixer nozzle for AGP 5058</i>
AGP 5073	Sigillante per sigillatrice MCT PL TKE 259 <i>Sealant for MCT PL TKE 259 sealer</i>
AGP 5079	Pistola a batteria per sigillante bicomponente AGP 5058 <i>Battery gun for two-component sealant AGP 5058</i>
AGP 6203	Listello in PUR 10x10mm <i>Strip in PUR 10x10mm</i>
AGP 6204	Listello in PUR 21,6x26,7mm <i>Strip in PUR 21,6x26,7mm</i>

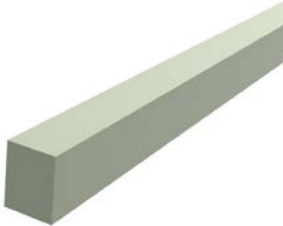
AGP 6231N	Guarnizione sottovetro in espanso <i>Foam under glass gasket</i>
AGP 6280	Guarnizione di giunzione telaio battente-telaio scorrevole <i>Side-hung frame/sliding frame interface seal</i>
AGP 72172	Guarnizione battuta centrale in EPDM coestruso <i>Central gasket in co-extruded EPDM</i>
AGP 72185	Angolo vulcanizzato per AGP 72172 <i>Vulcanized corner for AGP 72172</i>
AGP 6502	Guarnizione supplementare per soglia ribassata da abbinare alla AGP 72172 <i>Additional seal for low threshold to combine with AGP 72172</i>
AGP 7007	Guarnizione vetro esterna da 3mm, filo alluminio, consente la piega a 90° senza taglio <i>External glazing seal, 3mm, installed flush with aluminum. Can be bent at a 90° angle without cutting</i>
MCT PL TKE 259	Sigillatrice d'angoli automatica <i>Automatic corner sealer</i>
TAC 1000	Astina in poliammide. Disponibile in grigio e nero, rotolo 200mt <i>PA rod. Available in color grey and black, roll 200m</i>
SG0003EN ^{Hi}	Guarnizione di vetratura interna sp.3 mm <i>Internal glazing seal, 3 mm thick</i>
SG0005EN ^{Hi}	Guarnizione di vetratura interna sp.5 mm <i>Internal glazing seal, 5 mm thick</i>
SG0007EN ^{Hi}	Guarnizione di vetratura interna sp.7 mm <i>Internal glazing seal, 7 mm thick</i>
SG0009EN ^{Hi}	Guarnizione di vetratura interna sp.9 mm <i>Internal glazing seal, 9 mm thick</i>
SG0011EN ^{Hi}	Guarnizione di vetratura interna sp.11 mm <i>Internal glazing seal, 11 mm thick</i>
SG0013EN ^{Hi}	Guarnizione di vetratura interna sp.13 mm <i>Internal glazing seal, 13 mm thick</i>
SG0015EN ^{Hi}	Guarnizione di vetratura interna sp.15 mm <i>Internal glazing seal, 15 mm thick</i>

ELENCO GUARNIZIONI


	<p>AGP 4000</p> <p>Guarnizione di battuta in EPDM Cfz: 400m</p> <p><i>EPDM rabbet seal Pkg: 400m</i></p>		<p>AGP 4014</p> <p>Guarnizione esterna in EPDM 4mm Cfz: 200m</p> <p><i>EPDM external glazing seal, 4mm Pkg: 200m</i></p>
	<p>AGP 4002</p> <p>Guarnizione isolamento perimetrale muro-telaio Cfz: 200m</p> <p><i>Wall-frame perimeter insulation seal Pkg: 200m</i></p>		<p>AGP 4015</p> <p>Guarnizione acustica di battuta esterna, coestrusa con base rigida sostituibile Cfz: 750m</p> <p><i>External rabbet acoustic gasket, co-extruded, with replaceable rigid base Pkg: 750m</i></p>
	<p>AGP 4004</p> <p>Guarnizione di battuta in EPDM coestruso, inserimento ad infilare Cfz: 300m</p> <p><i>Rebate gasket in co-extruded EPDM Pkg: 300m</i></p>		<p>AGP 4085</p> <p>Angoletto vulcanizzato per AGP 4000 Cfz: 400 pz</p> <p><i>Vulcanized corner piece for AGP 4000 Pkg: 400 pcs</i></p>
	<p>AGP 4006</p> <p>Guarnizione di battuta per riporto centrale lato semifisso per versione giunto aperto Cfz: 200m</p> <p><i>Astragal seal, semi-fixed side, for internal gasket sealing version Pkg: 200m</i></p>		<p>AGP 4099</p> <p>Guarnizione isolamento perimetrale telaio-controtelaio Cfz: 50m</p> <p><i>Frame-subframe perimeter insulating seal Pkg: 50m</i></p>
	<p>AGP 4013</p> <p>Guarnizione esterna in EPDM 2,5mm Cfz: 200m</p> <p><i>EPDM external glazing seal 2,5mm Pkg: 200m</i></p>		<p>AGP 6280</p> <p>Guarnizione di giunzione telaio battente-telaio scorrevole Cfz: 300m</p> <p><i>Side-hung frame/sliding frame interface seal Pkg: 300m</i></p>

	<p>AGP 4203</p> <p>Guarnizione vetro interna, 3mm filo fermavetro. Consente la piega a 90° Cfz: 200m</p> <p><i>Inner glazing bead seal, 3mm Pkg: 200m</i></p>		<p>AGP 4106</p> <p>Guarnizione vetro in EPDM 4/6 mm per isolamento acustico e termico Cfz: 80m</p> <p><i>Internal glass gasket in EPDM 4/6 mm for sound and thermal insulation Pkg: 80m</i></p>
	<p>AGP 4204</p> <p>Guarnizione vetro interna, 4mm filo fermavetro. Consente la piega a 90° Cfz: 150m</p> <p><i>Inner glazing bead seal, 4mm Pkg: 150m</i></p>		<p>AGP 4113</p> <p>Guarnizione vetro esterna in coestruso EPDM/SPUGNA da 2.5mm per isolamento acustico e termico Cfz: 100m</p> <p><i>External glass gasket in co-extruded EPDM/FOAM 2.5mm for sound and thermal insulation. Pkg: 100m</i></p>
	<p>AGP 4205</p> <p>Guarnizione vetro interna, 5mm filo fermavetro. Consente la piega a 90° Cfz: 120m</p> <p><i>Inner glazing bead seal, 5mm Pkg: 120m</i></p>		<p>AGP 4040</p> <p>Guarnizione chiudi cava 15mm color argento Cfz: 100m</p> <p><i>Frame recess cover strip 15mm and bead sliding version, silver color Pkg: 100m</i></p>
	<p>AGP 4206</p> <p>Guarnizione vetro interna, 6mm filo fermavetro. Consente la piega a 90° Cfz: 100m</p> <p><i>Inner glazing bead seal, 6mm Pkg: 100m</i></p>		<p>AGP 7007</p> <p>Guarnizione vetro esterna da 3mm, filo alluminio, consente la piega a 90° senza taglio Cfz: 250m</p> <p><i>External glazing seal, 3 mm, installed flush with aluminum. Can be bent at a 90° angle without cutting Pkg: 250m</i></p>
	<p>AGP 4103</p> <p>Guarnizione vetro in EPDM 2.5/3.5 mm per isolamento acustico e termico Cfz: 100m</p> <p><i>Internal glass gasket in EPDM 2.5/3.5 mm for sound and Pkg: 100m</i></p>		<p>AGP 72172</p> <p>Guarnizione battuta cntrale in EPDM coestruso Cfz: 50m</p> <p><i>Central gasket in co-extruded EPDM Pkg: 50m</i></p>

	AGP 72185
	<p>Angolo vulcanizzato per AGP 72172 Cfz: 400 pz</p> <p><i>Corner joint for AGP 72172 Pkg: 400 pcs</i></p>

	AGP 6204
	<p>Listello in PUR 21,6x26,7mm Cfz: 1m</p> <p><i>strip in PUR 21.6x26.7mm Pkg: 1m</i></p>

	AGP 6502
	<p>Guarnizione supplementare per soglia ribassata, da abbinare alla AGP 72172 Cfz: 50m</p> <p><i>Additional seal for low threshold combined with AGP 72172 Pkg: 50m</i></p>

	TAC 1000
	<p>Astina in poliammide Disponibile in grigio e nero Cfz: 200m</p> <p><i>PA rod. Available in color grey and black Pkg: 200m</i></p>

	AGP 40131
	<p>Guarnizione sottovetro in polietilene espanso Cfz: 100m</p> <p><i>Expanded polystyrene glazing strip Pkg: 100m</i></p>


	ACP 5058
	<p>Rotella inserimento guarnizione centrale Cfz: 250 pz</p> <p><i>Gasket fitting roller Pkg: 250 pcs</i></p>

	AGP 6231N
	<p>Guarnizione sottovetro in polietilene espanso. Applicazione con biadesivo. Cfz: 100m</p> <p><i>Seal under glass foam. Application with adhesive. Pkg: 100m</i></p>

	AGP 6203
	<p>Listello in PUR 10x10mm Cfz: 1m</p> <p><i>strip in PUR 10x10mm Pkg: 1m</i></p>

ELENCO ACCESSORI GENERICI

	AC 2099
	Tappino chiudiforo Ø11,5 mm Cfz: 1000 pz <i>Hole-closing cap Ø11.5mm Pkg: 1000 pcs</i>

	ACP 50128C
	Cover in alluminio, da abbinare ad ACP 50128. Disponibile in tutte le finiture, verniciate ed ossidate. Cfz: 100 pz <i>Aluminium cover to ACP 50128. Pkg: 100 pcs</i>

	ACP 5027
	Gommino di bloccaggio per fermavetri a contrasto Cfz: 100 pz <i>Glazing bead locking rubber strip Pkg: 100 pcs</i>

	ACP 72179M
	Tappo per riporto centrale versione giunto aperto Cfz: 20 cp <i>Astragal plug open joint Pkg: 20 pcs</i>






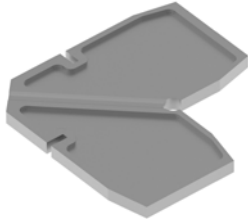




	ACP 5035
	Regolo a muro in nylon Cfz: 250 pz <i>Nylon wall spacer Pkg: 250 pcs</i>

	ACP 72686
	Tappo T all'italiana Cfz: 50 cp <i>T italian plug Pkg: 50 pairs</i>

	ACP 5036
	Regolo a muro in metallo Cfz: 100 pz <i>Metal wall spacer Pkg: 100 pcs</i>

	ACP 50128
	Cappetta scarico acqua in nylon. Cfz: 100 pz <i>Nylon drainage plug Pkg: 100 pcs</i>

ELENCO ACCESSORI PER GIUNZIONE


	<p>ACP 5001</p> <p>Vite Ø8mm per squadrette multifunzione ACP 7001, ACP 7002, ACP 5801M ACP 5802 Cfz: 1000 pz <i>Screw Ø8mm for ACP 7001, ACP 7002, ACP 5801M, ACP 5802 multifunctional corner joints</i> Pkg: 1000 pcs</p>		<p>ACP 62110</p> <p>Squadretta allineamento con tiraggio a camme aletta esterna anta Cfz: 250 pz <i>Multifunctional corner joint for external alignment</i> Pkg: 250 pcs</p>
	<p>ACP 5800</p> <p>Spina per squadretta multifunzione ACP 5801M, ACP 5802, ACP 6235 e ACP 7001, ACP 7002 Cfz: 1000 pz <i>Pin for ACP 5801M, ACP 5802, ACP 6235 and ACP 7001, ACP 7002 multifunctional corner joints</i> Pkg: 1000 pcs</p>		<p>ACP 62153</p> <p>Squadretta multifunzione per tubolarità esterna normale Cfz: 200 pz <i>Multifunction corner cleat for external cavity</i> Pkg: 200 pcs</p>
	<p>ACP 5008</p> <p>Squadretta allineamento in acciaio inox Cfz: 400 pz <i>Alignment corner joint, stainless steel</i> Pkg: 400 pcs</p>		<p>ACP 62154</p> <p>Squadretta multifunzione per tubolarità esterna maggiorata Cfz: 250 pz <i>Multifunction corner cleat for external oversized cavity</i> Pkg: 250 pcs</p>
	<p>ACP 5030</p> <p>Spina Ø3mm per squadrette ACP 62153 e ACP 62154 con manico Cfz: 400 pz <i>Pin Ø3mm with grip for ACP 62153 and ACP 62154 multifunction corner joints</i> Pkg: 400 pcs</p>		<p>ACP 62155</p> <p>Squadretta a cianfrinare o spianare Cfz: 150 pz <i>Corner cleat. Install with pin or by crimping</i> Pkg: 150 pcs</p>
	<p>ACP 6202</p> <p>Squadrette a bottone per tubolarità interna Cfz: 250 pz <i>Press-type corner cleat for inner cavity</i> Pkg: 250 pcs</p>		<p>ACP 62156</p> <p>Spina 8x11mm per squadretta ACP 62155 Cfz: 400 pz <i>8x11mm pin for ACP 62155</i> Pkg: 400 pcs</p>

ELENCO ACCESSORI DI CHIUSURA

	<p>ACP 7002</p> <p>Squadretta multifunzione 17,5x44mm Cfz: 150 pz</p> <p><i>Multifunction corner cleat, 17,5x44mm. Pkg: 150 pcs</i></p>
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	<p>ACP 50552</p> <p>Martellina Aurora 0°-90°-180° quadro 7mm Cfz: 10 pz</p> <p><i>Aurora Martellina handle 0°- 90°-180° Pkg: 10 pcs</i></p>
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	<p>ACP 7207</p> <p>Cavallotto di allineamento scocca esterna profili dritti Cfz: 250dx - 250sx</p> <p><i>External alignment clamp for plane profiles Pkg: 250dx-250sx</i></p>
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	<p>ACP 50400</p> <p>Cremonese Aurora bidirezionale Cfz: 10 pz</p> <p><i>Bidirectional Cremonese Aurora handle Pkg: 10 pcs</i></p>
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	<p>ACP 50425</p> <p>Cavallotto cava fermavetro per inglesine Cfz: 1 pz</p> <p><i>Clamp glazing bead for inglesine Pkg: 1 pcs</i></p>
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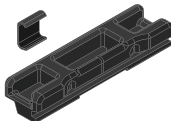

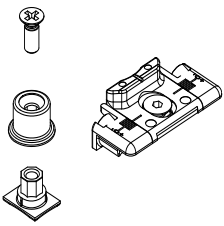


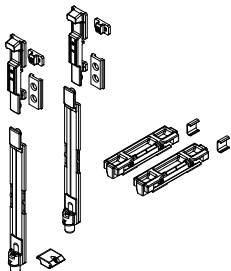

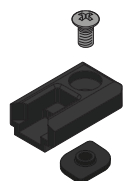

	<p>ACP 50401</p> <p>Cremonese Aurora monodirezionale per anta ribalta e scorrevole parallelo Cfz: 10 pz</p> <p><i>Monodirectional Cremonese Aurora handle for tilt & turn and parallel slide Pkg: 10 pcs</i></p>
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	<p>ACP 5503</p> <p>Squadretta 22X10mm, angolo variabile min. 30° max.178° Cfz: 20 pz</p> <p><i>Bracket 22x10mm, variable angle min. 30° max.178° Pkg: 20 pcs</i></p>
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	<p>ACP 50432</p> <p>Impugnatura per cremonese Aurora ACP 50433/50434 Cfz: 20 pz</p> <p><i>Cremonese Aurora handle for ACP 50433/50434 Pkg: 20 pcs</i></p>
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	<p>ACP 50433</p> <p>Cremonese Aurora bidirezionale senza impugnatura Cfz: 10 pz</p> <p><i>Bidirectional Cremonese Aurora handle Pkg: 10 pcs</i></p>
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	<p>ACP 50434</p> <p>Cremonese Aurora monodirezionale senza impugnatura Cfz: 10 pz</p> <p><i>Monodirectional Cremonese Aurora handle Pkg: 10 pcs</i></p>		<p>ACP 50310</p> <p>Maniglia EXENS linea tonda Cfz: 10 pz</p> <p><i>EXENS Rounded handle Pkg: 10 pcs</i></p>
	<p>ACP 50318</p> <p>Doppia maniglia EXENS linea Aurora per porte Cfz: pz</p> <p><i>Double Aurora EXENS handle for door Pkg: pcs</i></p>		<p>ACP 50321</p> <p>Maniglia EXENS linea tonda con chiave Cfz: 10 pz</p> <p><i>EXENS rounded key-handle Pkg: 10 pcs</i></p>
	<p>ACP 50445</p> <p>Blocchetti collegamento cremonese in poliammide grigia / nera Cfz: 160 pz</p> <p><i>Grey / black polyamide connection pieces for Cremonese handle Pkg: 160 pcs</i></p>		<p>ACP 50313</p> <p>Maniglia EXENS squadrata Cfz: 10 pz</p> <p><i>EXENS squared handle Pkg: 10 pcs</i></p>
	<p>ACP 50314</p> <p>Maniglia EXENS linea Aurora Cfz: 1 pz</p> <p><i>Aurora EXENS handle Pkg: 1 pcs</i></p>		<p>ACP 50322</p> <p>Maniglia EXENS linea squadrata con chiave Cfz: 10 pz</p> <p><i>EXENS squared key-handle Pkg: 10 pcs</i></p>
	<p>ACP 50330</p> <p>Maniglia EXENS linea Aurora quadro 7mm Cfz: 10 pz</p> <p><i>EXENS Aurora line square 7mm Pkg: 10 pcs</i></p>		<p>ACP 50239</p> <p>Doppia maniglia Aurora per porte Cfz: 5 pz</p> <p><i>Aurora double handle for door Pkg: 5 pcs</i></p>

	<p>ACP 50341</p> <p>Basetta copricilindro per doppia maniglia Aurora Cfz: 20 pz</p> <p><i>Base for cylinder dust cap for Aurora double handle</i> Pkg: 10 pcs</p>		<p>ACP 50482</p> <p>Incontro asta doppio in nylon nero Cfz: 100 pz</p> <p><i>Double nylon striker</i> Pkg: 100 pcs</p>
	<p>ACP 50422</p> <p>Catenacciolo in nylon grigia Cfz: 50 pz</p> <p><i>Grey nylon bolt</i> Pkg: 50 pcs</p>		<p>ACP 50421</p> <p>Punto di chiusura registrabile in zama Cfz: 10 kit</p> <p><i>Adjustable locking point</i> Pkg: 10 kit</p>
	<p>ACP 50525</p> <p>Terminale asta in poliammide grigia Cfz: 50 pz</p> <p><i>Rod terminal</i> Pkg: 50 pcs</p>		<p>ACP 50226</p> <p>Piastrina sostegno anta in poliammide grigia Cfz: 500 pz</p> <p><i>Plastic support for sash</i> Pkg: 500 pcs</p>
	<p>ACP 50452</p> <p>Kit catenacci in zama anta abbinata per battente standard e anta ribalta (con terminale registrabile e 2 incontri). Cfz: 10 kit</p> <p><i>Zamak bolt kit for matching sash for standard and tilt sash (with adjustable and piece and 2 strikers)</i> Pkg: 10 kits</p>		<p>ACP 50312</p> <p>Movimento bidirezionale per maniglia EXENS Cfz: 1 pz</p> <p><i>EXENS bidirectional mechanism for EXENS handle</i> Pkg: 1 pcs</p>
	<p>ACP 50582</p> <p>Incontro asta singolo in nylon nero Cfz: 100 pz</p> <p><i>Nylon keeper single rod</i> Pkg: 100 pcs</p>		<p>ACP 5199N</p> <p>Meccanismo martellina bidirezionale per battente, quadro 7mm Cfz: 10 pz</p> <p><i>Bidirectional handle mechanism for casement windows, 7mm</i> Pkg: 10 pcs</p>

	<p>ACP 50475</p> <p>Kit finestra battente 1 anta in poliammide grigia: blocchetti di collegamento, incontri, terminali asta, piastrino sostegno anta, piastrini chiudi cerniere Cfz: 10 kit</p> <p><i>1-sash casement windows kit Pkg: 10 kit</i></p>		<p>ACP 5010</p> <p>Cerniera vasistas doppio scatto Cfz: 20 cp</p> <p><i>Hinge, double snap for bottom hung Pkg: 20 couple pcs</i></p>
	<p>ACP 50405</p> <p>Cerniera premontata, per telai piani. Cfz: 50 pz</p> <p><i>Hinge for flat frames. Pkg: 50 pcs</i></p>		<p>ACP 5166</p> <p>SECRET VASISTAS Kit Cerniere per infissi fino a 2.500 mm di larghezza Portata: 250 kg Cfz: 10 kit</p> <p><i>SECRET - VASISTAS Hinges Kit for windows up to 2,500 mm wide. Capacity 250kg Pkg: 10 kit</i></p>
	<p>ACP 50407</p> <p>Cerniera terza anta/ telai complanari piastrini premontati Cfz: 20 pz</p> <p><i>Third sash hinge / coplanar frames with pre-assembled plates Pkg: 20 pcs</i></p>		<p>ACP 5167</p> <p>SECRET Sostegno anta da abbinare al kit ACP 5166 Cfz: 10 kit</p> <p><i>SECRET - Support for sash to combine with the ACP 5166 kit Pkg: 10 kit</i></p>
	<p>ACP 51454</p> <p>Rostrum per ferramenta standard Cfz: 50 pz</p> <p><i>Rostrum for standard hardware Pkg: 50 pcs</i></p>		<p>ACP 50411</p> <p>Bracci sporgere telescopici a coppie Cfz: 10 coppie</p> <p><i>Top-hinged telescopic arms for projected windows Pkg: 10 pcs</i></p>
	<p>ACP 5012</p> <p>Cerniera vasistas scatto singolo Cfz: 10 cp</p> <p><i>Hinge, single snap for bottom hung open in Pkg: 10 pairs</i></p>		<p>ACP 5165</p> <p>Braccio limitatore di apertura per battenti anta ribalta Standard e SECRET e Vasistas (fino a 130 Kg) Cfz: 10 pz</p> <p><i>Limit stay arm for Standard and SECRET and Vasistas tilt and turn hinges (up to 130 Kg) Pkg: 10 pcs</i></p>

legenda / legend

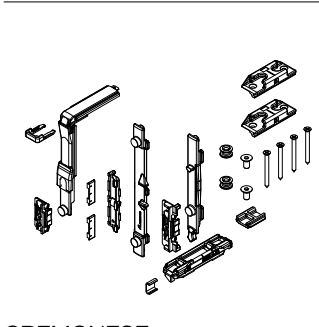
QAPE = quota anta punta esterna / external tip sash share



ACP 5171

Kit Vasistas per cerniere
ACP 5166
Cfz: 10 pz

*Vasistas Kit for ACP 5166 hinges
Pkg: 10 pcs*



ACP 50476

Kit a/r standard e SECRET
con traino per cremonese e
2 funghetti anti effrazione
Cfz: 10 kit

*T/T kit with drive standard and SECRET
for cremonese bolt and 2 anti-burglary
locking point
Pkg: 10 kits*

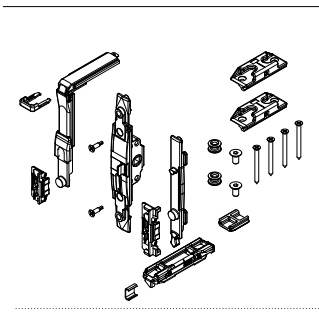
CREMONESE



ACP 5017

Cricchetto vasistas
applicazione rapida
Cfz: 50 pz

*Quick fitting finger catch
Pkg: 50 pcs*

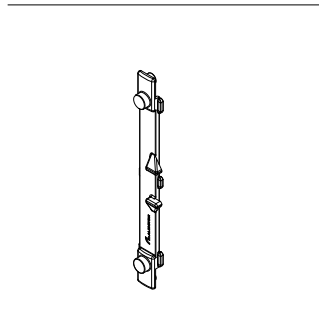


ACP 50477

Kit a/r standard e SECRET
con meccanismo martellina
e 2 funghetti anti effrazione
Cfz: 10 kit

*T/T kit standard and SECRET with handle
mechanism and 2 anti-burglary locking
point
Pkg: 10 kits*

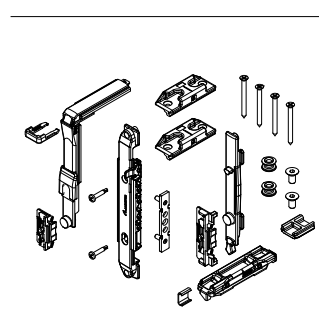
MARTELLINA



ACP 50448

Traino per cremonese
monodirezionale
Cfz: 10 pz

*Towing for monodirectional cremone bolt
Pkg: 10 pcs*

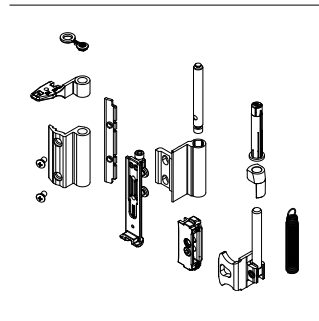


ACP 50478

Kit a/r standard e SECRET
con meccanismo EXENS e
2 funghetti anti effrazione
Cfz: 10 kit

*T/T kit standard and SECRET with EXENS
mechanism and 2 anti-burglary locking
point
Pkg: 10 kits*

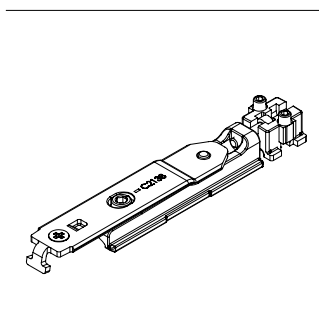
EXENS



ACP 50456

Kit cerniere per anta
abbinata telai piani
(Sormonto interno)
Cfz: 10 pz

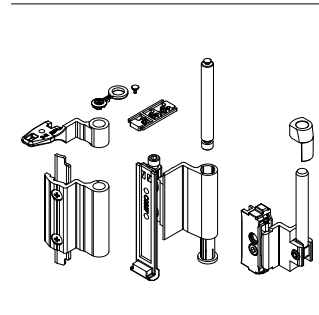
*Hinge kit to combine sash to flat frame
Pkg: 10 pcs*



ACP 50459

Adattatore anta abbinata
per cerniere ACP 50456 o
ACP 50457
Cfz: 10 pz

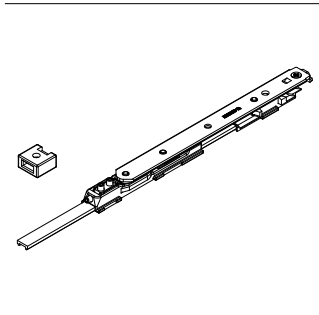
*Matching sash adapter for ACP 50456 and
ACP 50457 hinges
Pkg: 10 pcs*



ACP 50457

Kit cerniere per telai
complanari
Cfz: 1 pz

*T/T hinges for coplanar frames
Pkg: 1 pcs*



ACP 50446/350

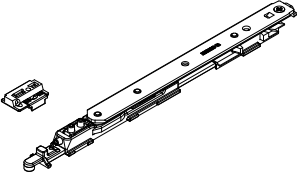
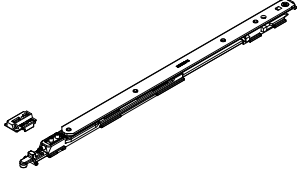
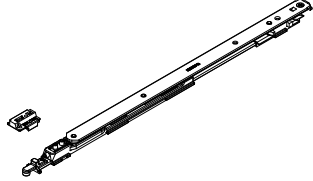

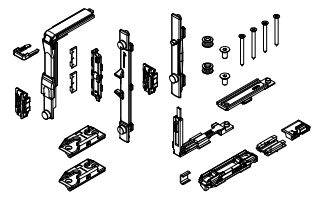
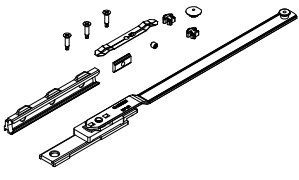
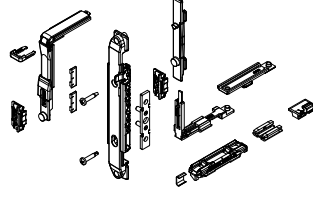

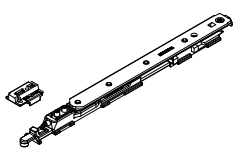

Braccio ribalta extra corto
ante da 350/410mm da
abbinare ad ACP 50476 o
ACP 50477
- QAPE
Cfz: 10 pz

*Extra short tilt arm 350/410mm
Pkg: 10 pcs*

ACCESSORI
Fittings

legenda / legend

QAPE = quota anta punta esterna / external tip sash share

	<p>ACP 50446/415</p> <p>Braccio ribalta corto ante da 410/700mm da abbinare ad ACP 50476 e ACP 50477</p> <p>- QAPE Cfz: 10 pz</p> <p><i>Short tilt arm 410/700 mm Pkg: 10 pcs</i></p>		<p>ACP 50546/538</p> <p>Braccio ribalta lungo 550/1800mm manovra logica</p> <p>- QAPE Cfz: 10 pz</p> <p><i>Long tilting arm 550/1800mm logic operation Pkg: 10 pcs</i></p>
	<p>ACP 50446/538</p> <p>Braccio ribalta lungo ante da 701/1800mm da abbinare ad ACP 50476 e ACP 50477</p> <p>- QAPE Cfz: 10 pz</p> <p><i>Long tilt arm for sashes 701/1800mm Pkg: 10 pcs</i></p>		<p>ACP 50447</p> <p>Kit catenacci per a/r standard (con prolunga alluminio) e SECRET</p> <p>Cfz: 10 kit</p> <p><i>Deadbolt kit for standard round trip (with aluminum extension) and SECRET Pkg: 10 kits</i></p>
	<p>ACP 50481</p> <p>Kit a/r con traino cremonese per manovra logica</p> <p>Cfz: 10 kit</p> <p><i>T/T kit with cremone bolt drive for logical maneuver Pkg: 10 kits</i></p>		<p>ACP 5153</p> <p>Braccio supplementare per a/r standard e SECRET per ante superiori a 1000mm</p> <p>Cfz: 5 kit</p> <p><i>Additional window arm for T/T standard and SECRET for >1000mm Pkg: 5kit</i></p>
	<p>ACP 50323</p> <p>Kit a/r standard e SECRET con meccanismo EXENS per manovra logica</p> <p>Cfz: 10 kit</p> <p><i>T/T kit standard and SECRET with EXENS mechanism for logic operation Pkg: 10 kits</i></p>		<p>ACP 5198</p> <p>Meccanismo martellina monodirezionale per A/R, quadro 7mm</p> <p>Cfz: 10 pz</p> <p><i>Monodirectional handle mechanism for T/T windows Pkg: 10 pcs</i></p>
	<p>ACP 50546/415</p> <p>Braccio ribalta corto ante da 410/700mm manovra logica</p> <p>- QAPE Cfz: 10 pz</p> <p><i>Short tilting arm 410/700mm logic operation Pkg: 10 pcs</i></p>		<p>ACP 50311</p> <p>Movimento monodirezionale per maniglia EXENS</p> <p>Cfz: 1 pz</p> <p><i>EXENS monodirectional mechanism for EXENS handle Pkg: 1 pcs</i></p>

CREMONESE

EXENS

legenda / legend

MT+ML = sia manovra tradizionale, sia manovra logica / both traditional maneuver and logical maneuver


QAPE = quota anta punta esterna / external tip sash share

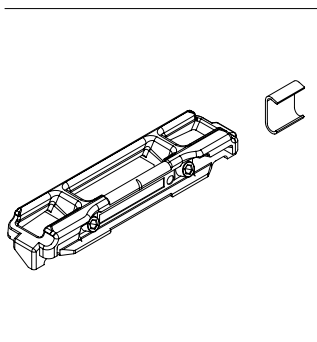
	<p style="text-align: center;">ACP 5150/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio corto - ante da 472-700 mm - MT+ML - QAPE - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, left, short arm - 472-700 mm sash - MT+ML - QAPE - Max load 100kg Pkg: 10 kit</i></p>		<p style="text-align: center;">ACP 5151/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - ante da 600-1500 mm (oltre 1100 mm abbinare a ACP 5153) - MT+ML - QAPE - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, right, long arm - 600-1500 mm sash (over 1100 mm combine with ACP 5153) - MT+ML - QAPE - Max load 100kg Pkg: 10 kit</i></p>
	<p style="text-align: center;">ACP 5150/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - ante da 472-700 mm - MT+ML - QAPE - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, right, short arm - 472-700 mm sash - MT+ML - QAPE - Max load 100kg Pkg: 10 kit</i></p>		<p style="text-align: center;">ACP 5161/D</p> <p>Kit cerniere a scomparsa SECRET anta passiva destra e anche per battente - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET concealed hinges, right and for casement windows Max load 100kg Pkg: 10 kit</i></p>
	<p style="text-align: center;">ACP 5151/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio lungo - ante da 600-1500 mm (oltre 1100 mm abbinare a ACP 5153) - MT+ML - QAPE - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, left, long arm - 600-1500 mm sash (over 1100 mm combine with ACP 5153) - MT+ML - QAPE - Max load 100kg Pkg: 10 kit</i></p>		<p style="text-align: center;">ACP 5161/S</p> <p>Kit cerniere a scomparsa SECRET anta passiva sinistra e anche per battente - portata max 100kg Cfz: 10 kit</p> <p><i>SECRET concealed hinges, left and for casement windows Max load 100kg Pkg: 10 kit</i></p>

legenda / legend

MT+ML = sia manovra tradizionale, sia manovra logica / both traditional maneuver and logical maneuver

QAPE = quota anta punta esterna / external tip sash share

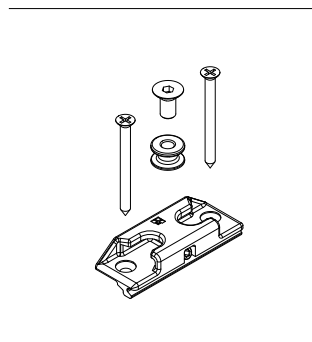
	<p align="center">ACP 5162/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio corto - ante da 472-700 mm - portata max 150kg - MT+ML - QAPE Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, right, short arm - Max load 150kg Pkg: 10 kit</i></p>		<p align="center">ACP 5163/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio lungo - ante da 600-1500mm (oltre 1000mm abbinare a ACP 5153) - portata max 150kg - MT+ML - QAPE Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, left, long arm - Max load 150kg Pkg: 10 kit</i></p>
	<p align="center">ACP 5162/S</p> <p>Kit A/R con cerniere a scomparsa SECRET anta sinistra braccio corto - ante da 472-700 mm - portata max 150kg - MT+ML - QAPE Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, left, short arm - Max load 150kg Pkg: 10 kit</i></p>		<p align="center">ACP 5164/D</p> <p>Kit cerniere a scomparsa SECRET anta passiva destra - portata max 150kg anche per battente Cfz: 10 kit</p> <p><i>SECRET concealed hinges kit for right inactive sash - max load 150kg also for casement windows Pkg: 10 kit</i></p>
	<p align="center">ACP 5163/D</p> <p>Kit A/R con cerniere a scomparsa SECRET anta destra braccio lungo - ante da 600-1500mm (oltre 1000mm abbinare a ACP 5153) - portata max 150kg - MT+ML - QAPE Cfz: 10 kit</p> <p><i>SECRET tilt and turn mechanism with concealed hinges, right, long arm - Max load 150kg Pkg: 10 kit</i></p>		<p align="center">ACP 5164/S</p> <p>Kit cerniere a scomparsa SECRET anta passiva sinistra - portata max 150kg anche per battente Cfz: 10 kit</p> <p><i>SECRET concealed hinges kit for left inactive sash - max load 150kg also for casement windows Pkg: 10 kit</i></p>



ACP 5152

Incontro doppio in zama SECRET per finestra 2 ante battente
Cfz: 100 pz

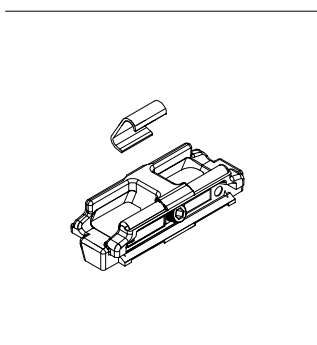
Zamak double keeper for casement window
Pkg: 100 pcs



ACP 50410

Kit punto di chiusura aggiuntivo anti effrazione a fungo
Cfz: 20 kit

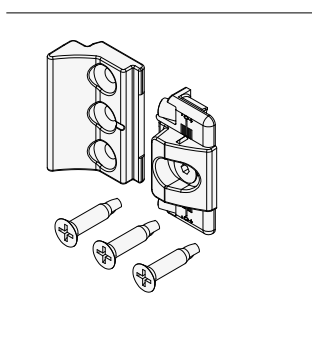
Safety additional closure point anti burglary kit
Pkg: 20 kits



ACP 5158

Incontro singolo in zama per catenacciolo
Cfz: 100 pz

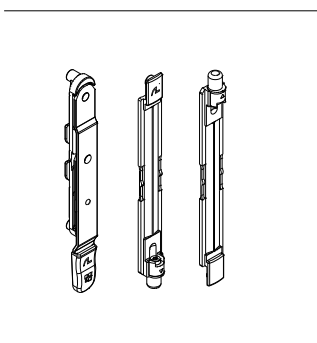
Zamak single keeper
Pkg: 100 pcs



ACP 5154

Chiusura supplementare lato cerniere (rostro) SECRET, battenti e a/r
Cfz: 50 pz


Beak for passive sash, SECRET, casement and T/T
Pkg: 50 pcs



ACP 5157

Kit catenacci con manovra a leve bidirezionale anta passiva e anche a/r standard e SECRET con registrazione +/- 1,5mm
Cfz: 10 pz

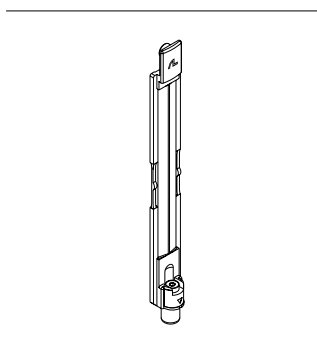
Bolt kit with bidirectional lever maneuver in passive sash and also standard and SECRET round trip with adjustment +/- 1,5mm
Pkg: 10 pcs



ACP 5156

Catenaccio anta passiva a spinta per battenti, a/r, standard e SECRET.
Cfz: 10 pz

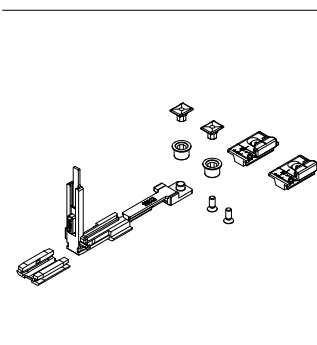
Bolt for passive sash, casement windows, T/T standard and SECRET
Pkg: 10 pcs



ACP 5159

Terminale in zama per finestre a battente con registrazione +/- 1,5mm
Cfz: 40 pz

Zamak rod-end for casement windows with +/- 1,5mm registration
Pkg: 40 pcs










ACP 5155











Chiusure supplementari A/R standard e SECRET. Si usa anche in orizzontale per L >1000mm e tra le cerniere per H >1200mm
Cfz: 10 kit



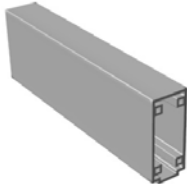






Additional locking piece for standard and SECRET tilt & turn mechanism. L>1000mm H>1200mm
Pkg: 10 pcs

ELENCO ACCESSORI SIGILLATURA

	<p>AGP 5058</p> <p>Sigillante poliuretano bicomponente, cartuccia 415ml</p> <p><i>Two-component polyurethane sealant, 415ml cartridge</i></p>		<p>AGP 5073</p> <p>Sigillante per sigillatrice MCT PL TKE 259</p> <p><i>Sealant for MCT PL TKE 259 sealer</i></p>
	<p>AGP 5059</p> <p>Pistola manuale per sigillante bicomponente AGP 5058</p> <p><i>Manual gun for two-component sealant AGP 5058</i></p>		<p>MCT PL TKE 259</p> <p>Sigillatrice d'angoli automatica</p> <p><i>Automatic corner sealer</i></p>
	<p>AGP 5069</p> <p>Pistola pneumatica per sigillante bicomponente AGP 5058</p> <p><i>Pneumatic gun for two-component sealant AGP 5058</i></p>		
	<p>AGP 5079</p> <p>Pistola a batteria per sigillante bicomponente AGP 5058</p> <p><i>Battery gun for two-component sealant AGP 5058</i></p>		
	<p>AGP 5072</p> <p>Beccuccio Static Mixer per AGP 5058</p> <p><i>Static Mixer nozzle for AGP 5058</i></p>		

ELENCO ACCESSORI THERMOPOSA

	<p>AGP 5030/I</p> <p>Profilo portaintonaco per esterno con asole 250cm Cfz: 1 br</p> <p><i>Outdoor plaster profile Pkg: 1 rod</i></p>		<p>AGP 5036</p> <p>Schiuma poliuretana elastica fissaggio controtelaio ACP 6246 Cfz: 1 pz</p> <p><i>Elastic polyurethane foam for ACP 6246 Pkg: 1 pcs</i></p>
	<p>AGP 5031</p> <p>Profilo portaintonaco per interno con asole 250cm Cfz: 1 br</p> <p><i>Inner plaster profile Pkg: 1 rod</i></p>		<p>AGP 5037</p> <p>Nastro in schiuma di PVC per soglia e traverso inferiore Cfz: 20m</p> <p><i>PVC foam band for transom e threshold Pkg: 20m</i></p>
	<p>AGP 5032</p> <p>Barriera vapore per controtelaio ACP 6246 Cfz: 30m</p> <p><i>Vapor barrier for ACP 6246 Pkg: 30m</i></p>		<p>AGP 5035/...</p> <p>Sigillante MS Polimero bianco, marrone, grigio o nero Cfz: 1 pz</p> <p><i>MS Polymer Sealant Pkg: 1 pcs</i></p>
	<p>AGP 5033</p> <p>Nastro precompresso BG1 da 15mm per sigillatura della battuta Cfz: 15m</p> <p><i>BG1 beat sealing, 15mm Pkg: 15m</i></p>		<p>ACP 6246/25</p> <p>Controtelaio Thermopro 72mm, battuta 25 rifilabile Cfz: 3m</p> <p><i>Thermopro Subframe 72mm, beat 25 Pkg: 3m</i></p>
	<p>AGP 5034/25</p> <p>Nastro precompresso per posa in battuta per sigillatura della spalla Cfz: 7m</p> <p><i>Band for laying batting, wall sealing Pkg: 7m</i></p>		<p>ACP 6246/49</p> <p>Controtelaio Thermopro 72mm, battuta 49 rifilabile Cfz: 3m</p> <p><i>Thermopro Subframe 72mm, beat 49 Pkg: 3m</i></p>

	<p align="center">ACP 6249</p> <p>Traverso inferiore 40mm Thermopro in PVC Cfz: 3m</p> <p><i>Thermopro PVC sill transom Pkg: 3m</i></p>		<p align="center">ACP 6255</p> <p>Zanche per fissaggio del controtelaio for ACP 6246 Cfz: 1 pz</p> <p><i>Clamps for fixing of subframe Pkg: 1 pcs</i></p>
	<p align="center">ACP 6220</p> <p>Traverso inferiore 20mm Thermopro in PVC Cfz: 3m</p> <p><i>Thermopro PVC sill transom 20mm Pkg: 3m</i></p>		<p align="center">ACP 6256</p> <p>Squadretta angolare per controtelaio ACP 6246 Cfz: 1 pz</p> <p><i>Corner cleat for ACP 6246 Pkg: 1 pcs</i></p>
	<p align="center">ACP 6254</p> <p>Staffe per traverso ACP 6249 Cfz: 1 pz</p> <p><i>Transom bracket for ACP 6249 Pkg: 1 pcs</i></p>		<p align="center">ACP 6258</p> <p>Squadretta di rinforzo per controtelaio ACP 6246 Cfz: 1 pz</p> <p><i>Reinforced bracket for ACP 6246 Pkg: 1 pcs</i></p>
	<p align="center">ACP 6260</p> <p>Staffe per traverso ACP 6220 Cfz: 1 pz</p> <p><i>Transom bracket for ACP 6220 Pkg: 1 pcs</i></p>		<p align="center">ACP 6259</p> <p>Rinforzo tubolare aperto in acciaio 12x40mm per controtelaio ACP 6246 Cfz: 1 pz</p> <p><i>Steel tubular reinforcement 12x40mm for ACP 6246 Pkg: 1 pcs</i></p>
	<p align="center">ACP 6257</p> <p>Piastra di allineamento per controtelaio ACP 6246 Cfz: 1 pz</p> <p><i>Alignment plate for ACP 6246 Pkg: 1 pcs</i></p>		

ELENCO ACCESSORI THERMOPOSA



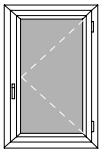
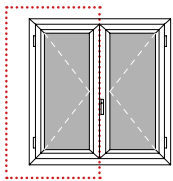
	ACP 1000/50	ACP 1000/70	ACP 1000/80	ACP 1000/90
	Vite TORX testa cilindrica T30 7,5x50 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x70 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x80 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x90 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>
	ACP 1000/100	ACP 1000/110	ACP 1000/120	ACP 1000/130
	Vite TORX testa cilindrica T30 7,5x100 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x110 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x120 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x130 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>
	ACP 1000/150	ACP 1000/180	ACP 1000/210	
	Vite TORX testa cilindrica T30 7,5x150 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x180 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	Vite TORX testa cilindrica T30 7,5x210 Cfz: 100 pz <i>Screw with socket head Pkg: 100 pcs</i>	



	ACP 1001/50	ACP 1001/70	ACP 1001/80	ACP 1001/90
	Vite TORX testa svasata T30 7,5x50 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x70 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x80 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x90 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>
	ACP 1001/100	ACP 1001/110	ACP 1001/120	ACP 1001/130
	Vite TORX testa svasata T30 7,5x100 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x110 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x120 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x130 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>
	ACP 1001/150	ACP 1001/180	ACP 1001/210	
	Vite TORX testa svasata T30 7,5x150 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x180 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	Vite TORX testa svasata T30 7,5x210 Cfz: 100 pz <i>Countersunk screw Pkg: 100 pcs</i>	

Composizione dei kit per applicazione della ferramenta STANDARD LINE

Standard Line kit

Tipologia	Soluzione con Cremonese		
BATTENTE	Articolo	Descrizione	Q.tà
	ACP 50400	Cremonese AURORA bidirezionale / <i>Two ways directional Cremonese Aurora handle</i>	1
	ACP 50475	Kit finestra battente / <i>Window kit hinged door</i>	1
	ACP 50405	Cerniera Telai Piani / <i>Hinge for sash frames</i>	2/...
	ACP 50407	Cerniera Telai Complanari / <i>3 rd sash hinge</i>	2/...
	ACP 51454	Rostro / <i>Rostrum</i>	1
	Soluzione con Martellina		
	Articolo	Descrizione	Q.tà
	ACP 50552	Martellina Aurora quadro 7 / <i>Aurora Martellina square 7mm</i>	1
	ACP 50330	Maniglia EXENS linea Aurora quadro 7 / <i>EXENS Aurora line square 7mm</i>	1
	ACP 5199N	Meccanismo bidirezionale / <i>Handle mechanism</i>	1
	ACP 50405	Cerniera Telai Piani / <i>Hinge for flat frames</i>	2/...
	ACP 50407	Cerniera Telai Complanari / <i>3 rd sash hinge</i>	2/...
	ACP 50525	Terminale asta / <i>Rod terminal</i>	2
	ACP 50582	Incontro singolo / <i>Single nylon striker</i>	2
	ACP 51454	Rostro / <i>Rostrum</i>	1
	Soluzione con EXENS		
	Articolo	Descrizione	Q.tà
	ACP 50314	EXENS Aurora / <i>Aurora EXENS handle</i>	1
	ACP 50310	EXENS Tonda / <i>EXENS Rounded handle</i>	1
	ACP 50313	EXENS Squadrata / <i>EXENS Squared handle</i>	1
ACP 50312	Meccanismo bidirezionale / <i>Bidirectional EXENS mechanism for EXENS handle</i>	1	
ACP 50405	Cerniera Telai Piani / <i>Hinge for flat frames</i>	2/...	
ACP 50407	Cerniera Telai Complanari / <i>3 rd sash hinge</i>	2/...	
ACP 50525	Terminale asta / <i>Rod terminal</i>	2	
ACP 50582	Incontro singolo / <i>Single nylon striker</i>	2	
ACP 51454	Rostro / <i>Rostrum</i>	1	
Anta affiancata			
	Articolo	Descrizione	Q.tà
	ACP 50405	Cerniera Telai Piani / <i>Hinge for flat frames</i>	2/...
	ACP 50407	Cerniera Telai Complanari / <i>3 rd sash hinge</i>	2/...
	ACP 50482	Incontro doppio / <i>Double nylon striker</i>	2
	ACP 51454	Rostro / <i>Rostrum</i>	1
ACP 50422	Kit catenaccioli / <i>Nylon bolt</i>	2	

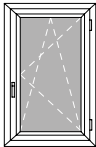
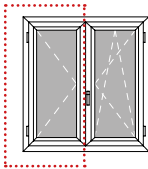
⚠ ATTENZIONE

Consultare sempre diagramma delle dimensioni e portate realizzabili per la ferramenta standard line a pagina 140

Always consult the diagram of the dimensions and capacities that can be achieved for the standard line hardware on page 140

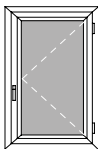
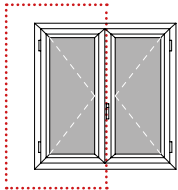
Composizione dei kit per applicazione della ferramenta SECRET portata **100kg**

SECRET Line kit- load 100kg

Tipologia	Soluzione con Cremonese		
	ANTA RIBALTA	SECRET Portata 100Kg. / SECRET Capacity 100Kg.	
	Articolo	Descrizione	Q.tà
	ACP 50476	Kit A/R standard per cremonese / T/T kit with drive for cremonese bolt	1
	ACP 50401	Cremonese AURORA per A/R / Monodirectional Cremonese Aurora handle for tilt & turn	1
	ACP 5150/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1
	ACP 5150/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1
	ACP 5151/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1
	ACP 5151/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1
	ACP 5153	Braccio supplementare / Additional window arm	1
	ACP 5155	Chiusure supplementari / Additional locking piece	1
	Soluzione con Martellina		
		SECRET Portata 100Kg. / SECRET Capacity 100Kg.	
	Articolo	Descrizione	Q.tà
	ACP 50477	Kit A/R standard per martellina / T/T kit with handle mechanism	1
	ACP 50552	Martellina Aurora quadro 7 / Aurora Martellina square 7mm	1
ACP 50330	Maniglia EXENS linea Aurora quadro 7 / EXENS Aurora line square 7mm	1	
ACP 5150/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1	
ACP 5150/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1	
ACP 5151/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1	
ACP 5151/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1	
ACP 5153	Braccio supplementare / Additional window arm	1	
ACP 5155	Chiusure supplementari / Additional locking piece	1	
Soluzione con EXENS			
	SECRET Portata 100Kg. / SECRET Capacity 100Kg.		
Articolo	Descrizione	Q.tà	
ACP 50478	Kit A/R standard per EXENS / T/T kit with EXENS mechanism	1	
ACP 50314	EXENS Aurora / Aurora EXENS handle	1	
ACP 50310	EXENS Tonda / EXENS Rounded handle	1	
ACP 50313	EXENS Squadrata / EXENS Squared handle	1	
ACP 5150/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1	
ACP 5150/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1	
ACP 5151/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1	
ACP 5151/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1	
ACP 5153	Braccio supplementare / Additional window arm	1	
ACP 5155	Chiusure supplementari / Additional locking piece	1	
Anta affiancata			
		SECRET Portata 100Kg. / SECRET Capacity 100Kg.	
	Articolo	Descrizione	Q.tà
	ACP 5161/D	KIT cerniera anta passiva SECRET DX / SECRET concealed hinge set DX passive sash	1
	ACP 5161/S	KIT cerniera anta passiva SECRET SX / SECRET concealed hinge set SX passive sash	1
	ACP 5157	KIT catenaccioli manovra bidirezionali / Bolt set for two ways directional device	1
ACP 5156	catenaccio anta passiva (Alternativa) / Bolt for inactive sash (alternative)	2	

Composizione dei kit per applicazione della ferramenta SECRET portata **100kg**

SECRET Line kit- load 100kg

Tipologia	Soluzione con Cremonese		
BATTENTE	SECRET Portata 100Kg. / SECRET Capacity 100Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50400	Cremonese AURORA bidirezionale / Bidirectional Cremonese Aurora handle	1
	ACP 50475	Kit finestra battente / Window kit hinged door	1
	ACP 5161/D	KIT cerniera anta passiva SECRET DX / SECRET concealed set for right inactive sash	1
	ACP 5161/S	KIT cerniera anta passiva SECRET SX / SECRET concealed set for left inactive sash	1
	ACP 5154	Rostro / Rostrum	1
	Soluzione con Martellina		
	SECRET Portata 100Kg. / SECRET Capacity 100Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50552	Martellina Aurora quadro 7 / Aurora Martellina square 7mm	1
	ACP 50330	Maniglia EXENS linea Aurora quadro 7 / EXENS Aurora line square 7mm	1
	ACP 5199N	Meccanismo bidirezionale / Two ways directional mechanism	1
	ACP 5161/D	KIT cerniera anta passiva SECRET DX / SECRET concealed set for right inactive sash	1
	ACP 5161/S	KIT cerniera anta passiva SECRET SX / SECRET concealed set for left inactive sash	1
	ACP 50525	Terminale asta / Rod terminal	2
	ACP 50582	Incontro singolo / Single nylon striker	2
	ACP 5154	Rostro / Rostrum	1
	Soluzione con EXENS		
	SECRET Portata 100Kg. / SECRET Capacity 100Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50314	EXENS Aurora / Aurora EXENS handle	1
	ACP 50310	EXENS Tonda / EXENS Rounded handle	1
	ACP 50313	EXENS Squadrata / EXENS Squared handle	1
	ACP 50312	Meccanismo bidirezionale / Two ways directional EXENS mechanism	1
	ACP 5161/D	KIT cerniera anta passiva SECRET DX / SECRET concealed set for right inactive sash	1
	ACP 5161/S	KIT cerniera anta passiva SECRET SX / SECRET concealed set for left inactive sash	1
	ACP 50525	Terminale asta / Rod terminal	2
ACP 50582	Incontro singolo / Single nylon striker	2	
ACP 5154	Rostro / Rostrum	1	
Anta affiancata			
	SECRET Portata 100Kg. / SECRET Capacity 100Kg.		
	Articolo	Descrizione	Q.tà
	ACP 5161/D	KIT cerniera anta passiva SECRET DX / SECRET concealed set for right inactive sash	1
	ACP 5161/S	KIT cerniera anta passiva SECRET SX / SECRET concealed set for left inactive sash	1
	ACP 50482	Incontro doppio / Double nylon striker	2
	ACP 50422	KIT Catenaccioli (Alternativa) / Nylon bolt set	2
	ACP 5157	KIT catenaccioli bidirezionali (Alternativa) / Bolt set for two ways directional device	1
	ACP 5156	kit catenacci (Alternativa) / Bolt for inactive sash (alternative)	2
	ACP 5154	Rostro / Rostrum	1

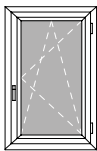
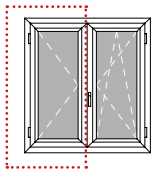
ATTENZIONE

Consultare sempre diagramma delle dimensioni e peso massimo dell'anta per le cerniere SECRET 100kg a pagina 127

Always consult the diagram of the dimensions and maximum weight of the sash for SECRET 100kg hinges in the page 127

Composizione dei kit per applicazione della ferramenta SECRET portata **150kg**

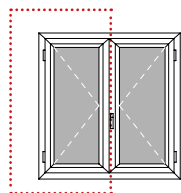
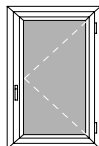
SECRET Line kit- load 150kg

Tipologia	Soluzione con Cremonese		
	ANTA RIBALTA	SECRET Portata 150Kg. / SECRET Capacity 150Kg.	
	Articolo	Descrizione	Q.tà
	ACP 50476	Kit A/R standard per cremonese / T/T kit with drive for cremonese bolt	1
	ACP 50401	Cremonese AURORA per A/R / Monodirectional Cremonese Aurora handle for tilt & turn	1
	ACP 5162/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1
	ACP 5162/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1
	ACP 5163/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1
	ACP 5163/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1
	ACP 5153	Braccio supplementare / Additional window arm	1
	ACP 5155	Chiusure supplementari / Additional locking piece	1
	Soluzione con Martellina		
		SECRET Portata 150Kg. / SECRET Capacity 150Kg.	
	Articolo	Descrizione	Q.tà
	ACP 50477	Kit A/R standard per martellina / T/T kit with handle mechanism	1
	ACP 50552	Martellina Aurora quadro 7 / Aurora Martellina square 7mm	1
ACP 50330	Maniglia EXENS linea Aurora quadro 7 / EXENS Aurora line square 7mm	1	
ACP 5162/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1	
ACP 5162/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1	
ACP 5163/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1	
ACP 5163/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1	
ACP 5153	Braccio supplementare / Additional window arm	1	
ACP 5155	Chiusure supplementari / Additional locking piece	1	
Soluzione con EXENS			
	SECRET Portata 150Kg. / SECRET Capacity 150Kg.		
Articolo	Descrizione	Q.tà	
ACP 50478	Kit A/R standard per EXENS / T/T kit with EXENS mechanism	1	
ACP 50314	EXENS Aurora / Aurora EXENS handle	1	
ACP 50310	EXENS Tonda / EXENS Rounded handle	1	
ACP 50313	EXENS Squadrata / EXENS Squared handle	1	
ACP 5162/D	KIT Cerniera A/R Braccio corto DX / Tilt and turn windows kit, included concealed hinge for DX short arm	1	
ACP 5162/S	KIT Cerniera A/R Braccio corto SX / Tilt and turn windows kit, included concealed hinge for SX short arm	1	
ACP 5163/D	KIT Cerniera A/R Braccio lungo DX / Tilt and turn windows kit, included concealed hinge for DX long arm	1	
ACP 5163/S	KIT Cerniera A/R Braccio lungo SX / Tilt and turn windows kit, included concealed hinge for SX long arm	1	
ACP 5153	Braccio supplementare / Additional window arm	1	
ACP 5155	Chiusure supplementari / Additional locking piece	1	
Anta affiancata			
		SECRET Portata 150Kg. / SECRET Capacity 150Kg.	
	Articolo	Descrizione	Q.tà
	ACP 5164/D	KIT cerniera anta passiva SECRET DX / Hinges kit for right inactive sash	1
	ACP 5164/S	KIT cerniera anta passiva SECRET SX / Hinges kit for left inactive sash	1
	ACP 5157	KIT catenaccioli manovra bidirezionali / Bolt set for two ways directional device	1
	ACP 5156	Kit catenacci (Alternativa) / Bolt for inactive sash (alternative)	2
ACP 5154	Rostrò / Rostrum	1	

Composizione dei kit per applicazione della ferramenta SECRET portata **150kg**

SECRET Line kit- load 150kg

Tipologia	Soluzione con Cremonese		
BATTENTE	SECRET Portata 150Kg. / SECRET Capacity 150Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50400	Cremonese AURORA bidirezionale / Two ways directional Cremonese Aurora handle	1
	ACP 50475	Kit finestra battente / Window kit hinged door	1
	ACP 5164/D	KIT cerniera anta passiva SECRET DX / Hinges kit for right inactive sash	1
	ACP 5164/S	KIT cerniera anta passiva SECRET SX / Hinges kit for left inactive sash	1
	ACP 5154	Rostro / Rostrum	1
	Soluzione con Martellina		
	SECRET Portata 150Kg. / SECRET Capacity 150Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50552	Martellina Aurora quadro 7 / Aurora Martellina square 7mm	1
	ACP 50330	Maniglia EXENS linea Aurora quadro 7 / EXENS Aurora line square 7mm	1
	ACP 5199N	Meccanismo bidirezionale / Two ways directional mechanism	1
	ACP 5164/D	KIT cerniera anta passiva SECRET DX / Hinges kit for right inactive sash	1
	ACP 5164/S	KIT cerniera anta passiva SECRET SX / Hinges kit for left inactive sash	1
	ACP 50525	Terminale asta / Rod terminal	2
	ACP 50582	Incontro singolo / Single nylon striker	2
	ACP 5154	Rostro / Rostrum	1
	Soluzione con EXENS		
	SECRET Portata 150Kg. / SECRET Capacity 150Kg.		
	Articolo	Descrizione	Q.tà
	ACP 50314	EXENS Aurora / Aurora EXENS handle	1
	ACP 50310	EXENS Tonda / EXENS Rounded handle	1
	ACP 50313	EXENS Squadrata / EXENS Squared handle	1
	ACP 50312	Meccanismo bidirezionale / Two ways directional EXENS mechanism	1
	ACP 5164/D	KIT cerniera anta passiva SECRET DX / Hinges kit for right inactive sash	1
	ACP 5164/S	KIT cerniera anta passiva SECRET SX / Hinges kit for left inactive sash	1
	ACP 50525	Terminale asta / Rod terminal	2
	ACP 50582	Incontro singolo / Single nylon striker	2
	ACP 5154	Rostro / Rostrum	1
	Anta affiancata		
	SECRET Portata 150Kg. / SECRET Capacity 150Kg.		
	Articolo	Descrizione	Q.tà
	ACP 5164/D	KIT cerniera anta passiva SECRET DX / Hinges kit for right inactive sash	1
	ACP 5164/S	KIT cerniera anta passiva SECRET SX / Hinges kit for left inactive sash	1
	ACP 50482	Incontro doppio / Double nylon striker	2
	ACP 50422	KIT Catenaccioli (Alternativa) / Nylon bolt set	2
	ACP 5157	KIT catenaccioli bidirezionali (Alternativa) / Bolt set for two ways directional device	1
	ACP 5156	kit catenacci (alternativa) / Bolt for inactive sash (alternative)	2
	ACP 5154	Rostro / Rostrum	1



⚠ ATTENZIONE

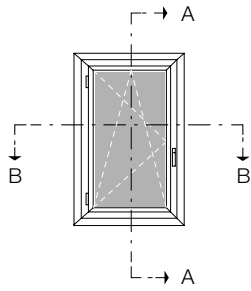
Consultare sempre diagramma delle dimensioni e peso massimo dell'anta per le cerniere SECRET 150kg a pagina 129

Always consult the diagram of the dimensions and maximum weight of the sash for SECRET 150kg hinges in the page 129

Composizione tipologia vasistas

Vasistas type composition

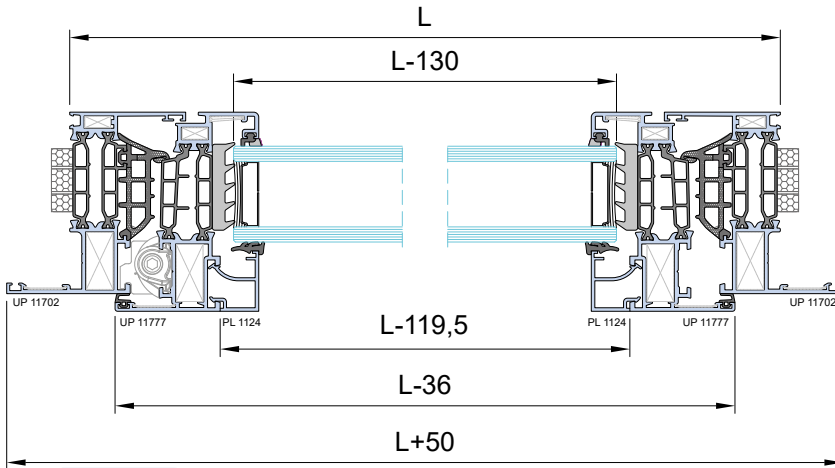
Tipologia	Vasistas SECRET		
	Articolo	Descrizione	Q.tà
	ACP 5166	Vasistas SECRET/ <i>SECRET - VASISTAS Hinges Kit for windows</i>	1
	ACP 5167	Sostegno anta SECRET / <i>SECRET- support for sash</i>	1
	ACP 5165	Limitatore di apertura / <i>Limit stay arm</i>	1
	ACP 5017	Cricchetto / <i>Awning/hopper window quick fitting finger catch</i>	1
	Vasistas Standard		
	Articolo	Descrizione	Q.tà
	ACP 5012	Cerniere vasistas / <i>Hinge, single snap</i>	1
	ACP 5010	Cerniere vasistas (Alternativa) / <i>Hinge, double snap</i>	1
	ACP 5165	Limitatore di apertura / <i>Limit stay arm</i>	1
	ACP 5017	Cricchetto / <i>Awning/hopper window quick fitting finger catch</i>	1



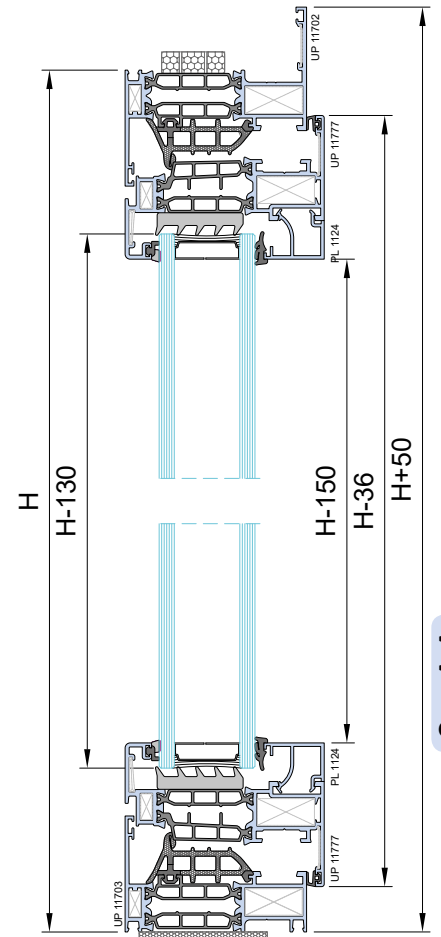
Finestra 1 anta ribalta
Window 1 sash lift & turn

Distinta vetri
Glass list

Pezzi	L	H
1	L-130	H-130



Sez. B-B



Sez. A-A

Distinta profili

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	2	L-119,5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-150	

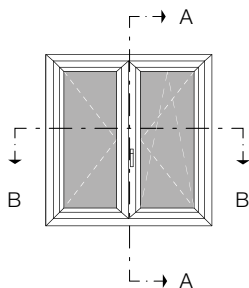
Distinta guarnizioni

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L-36
		2	H-36
AGP 6231N	Sottovetro <i>glazing strip</i>	2	L-112 H-112
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		2	H-116
AGP 7007	Vetro esterno <i>external glass gasket</i>	2	L-136
		2	H-136
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-136
		2	H-136
AGP 5034/25	Isolamento spalla <i>side insulation</i>	1	L
		2	H
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	8 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	16 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

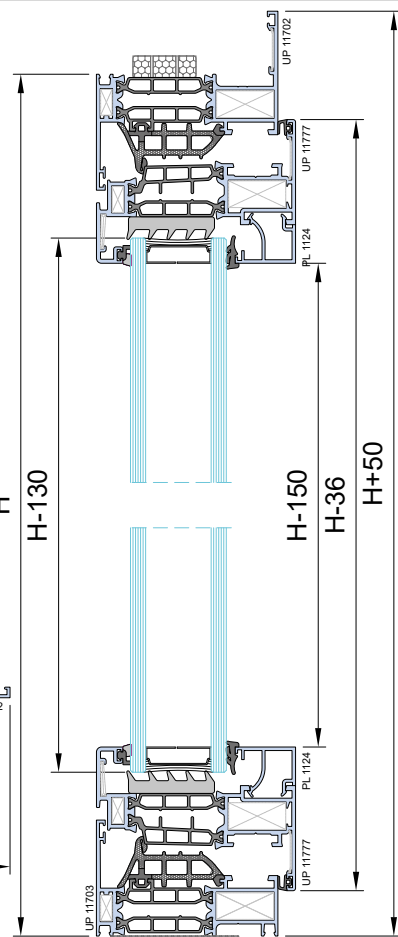
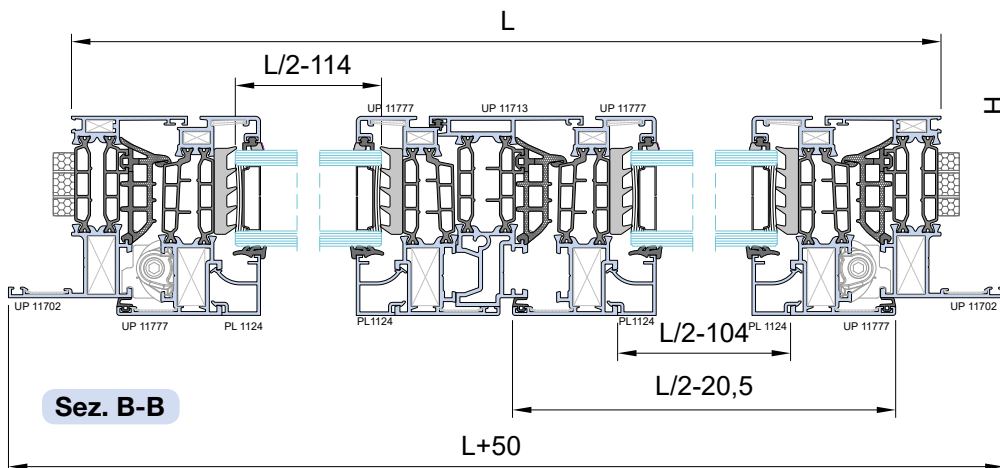
DISTINTE DITAGLIO
Catalog lists



Finestra 2 ante ribalta
Window 2 sash lift & turn

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-114	H-130



Distinta profili
Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-20,5	
	Montante anta <i>mullion sash</i>	4	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-104	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-150	
UP 11713	Riporto centrale <i>central cap</i>	1	H-106	

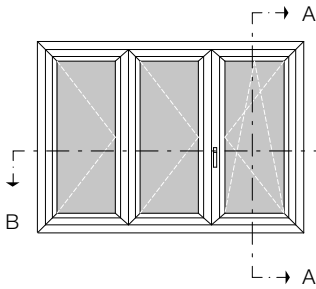
Distinta accessori
Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	12pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	12 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	10 pz
ACP 51478	Kit manovra <i>handle set</i>	1 kit
ACP 50314	EXENS linea Aurora <i>Aurora martellina handle mechanism</i>	1pz
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	24 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72179M	Tappo di riporto centrale <i>plug for central connection profile</i>	1 cp
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz

Distinte di taglio
Cutting lists

Distinta guarnizioni
Gaskets' list

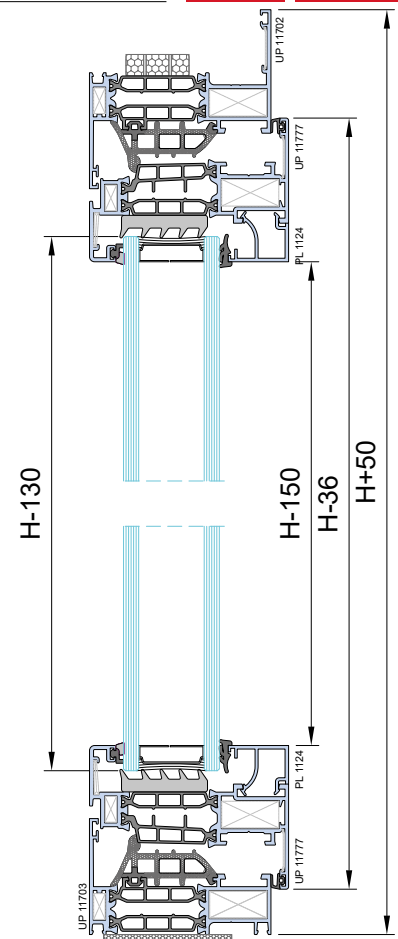
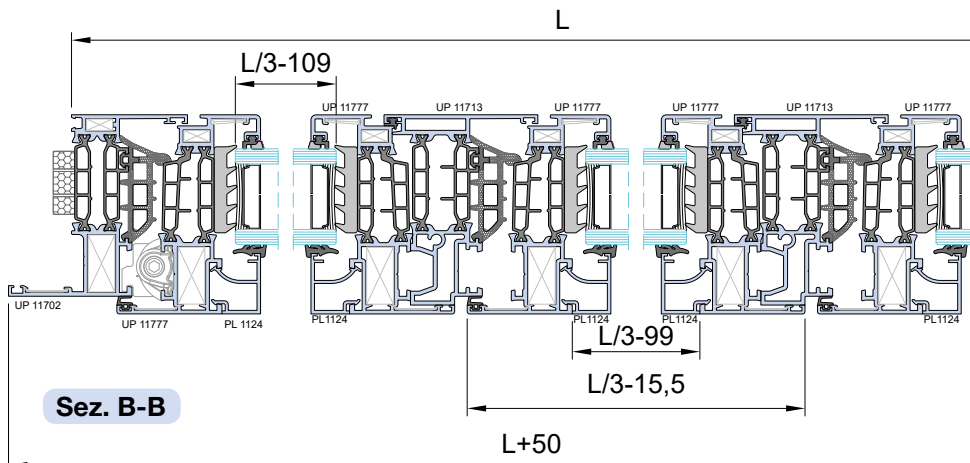
Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta <i>wall seal</i>	4 L/2-20,5 3 H-36
		Sottovetro <i>glazing strip</i>	4 L/2-97,5 4 H-113
AGP 72172		Pinna giunto aperto <i>central rabbet</i>	2 L-116 3 H-116
		Vetro esterno <i>external glass gasket</i>	4 L/2-121 4 H-136
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	4 L/2-121 4 H-136
		Battuta riporto <i>rabbet gasket</i>	1 H-106
AGP 5034/25		Isolamento spalla <i>side insulation</i>	1 L 2 H
		Isolamento soglia <i>threshold insulation</i>	1 L



Finestra 3 ante ribalta
Window 3 sash lift & turn

Distinta vetri
Glass list

Pezzi	L	H
3	L/3-109	H-130



Sez. A-A

Distinta profili
Profiles list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio <i>Threshold frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	6	L/3-15,5	
	Montante anta <i>mullion sash</i>	6	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	6	L/3-99	
	Montante fermavetro <i>mullion glazing bead</i>	6	H-150	
UP 11713	Riporto centrale <i>central cap</i>	2	H-106	

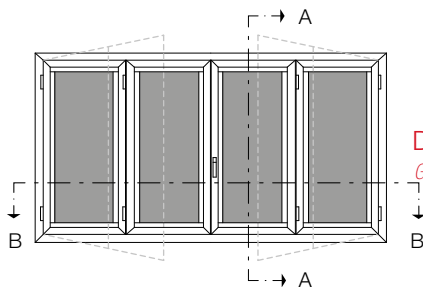
Distinta accessori
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	16 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	16 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	12 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	14 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	32 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	8 pz
ACP 5157	Kit catenacci bidirezionali <i>bolt set for 2-ways directional device</i>	2 kit
ACP 5161	Kit cerniera anta passiva <i>concealed hinges</i>	1 kit
ACP 5152	Incontro doppio <i>double keeper</i>	2 pz
ACP 50407	Cerniera per 3a anta <i>3rd sash hinges</i>	2 pz
ACP 72179M	Tappo per riporto centrale <i>plug for central connection profile</i>	2 cp

Distinta guarnizioni
Gaskets list

Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta <i>wall seal</i>	6 L/3-15,5 4 H-36
		Sottovetro <i>glazing strip</i>	6 L/3-92 6 H-112
AGP 72172		Pinna giunto aperto <i>central rabbet</i>	2 L-116 4 H-116
		Vetro esterno <i>external glass gasket</i>	6 L/3-109 6 H-136
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	6 L/3-109 6 H-136
AGP 4006		Battuta riporto centrale <i>central cap wall seal</i>	2 L-106
AGP 5034/25		Isolamento spalla <i>side insulation</i>	1 L
		Isolamento soglia <i>threshold insulation</i>	2 H
AGP 5037		Isolamento soglia <i>threshold insulation</i>	1 L

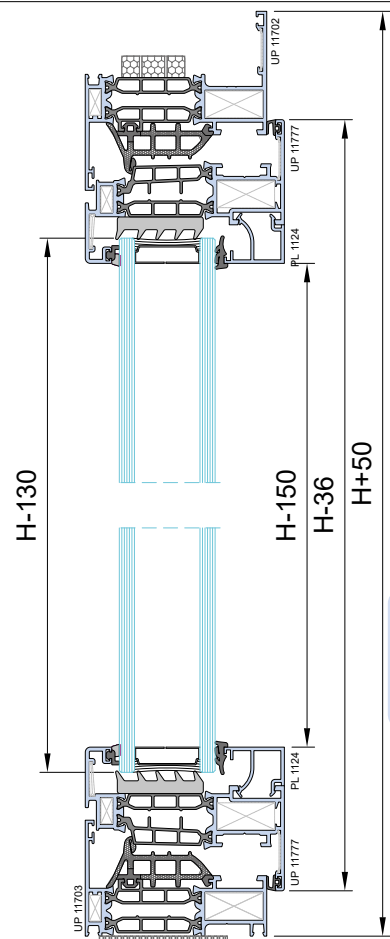
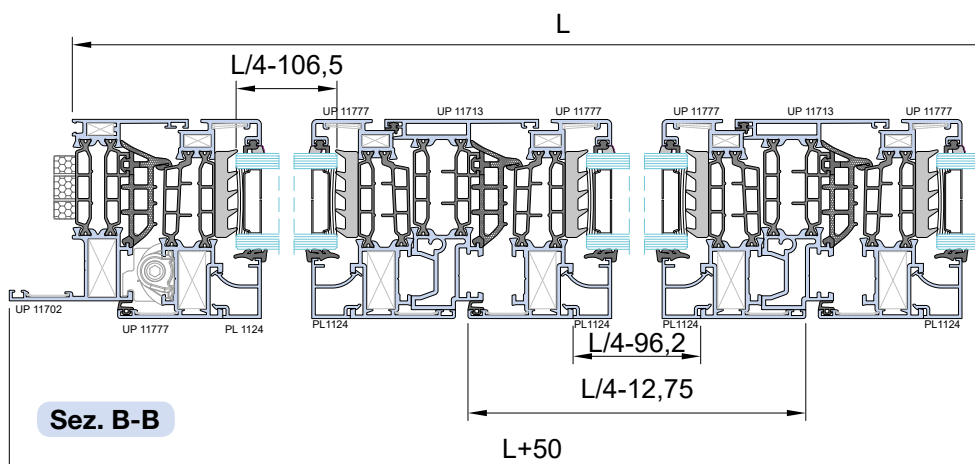
DISTINTE DITAGLIO
Catalog lists



Finestra 4 ante
Window 4 sash

Distinta vetri
Glass list

Pezzi	L	H
4	L/4-106,5	H-130



Distinta profili
Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio <i>Threshold frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	8	L/4-12.75	
	Montante anta <i>mullion sash</i>	8	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	8	L/4-96.2	
	Montante fermavetro <i>mullion glazing bead</i>	8	H-150	
UP 11713	Riporto centrale <i>central cap</i>	3	H-106	

Accessories' list
Distinta accessori

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	20 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	20 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	16 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	18 pz
ACP 50312	Kit manovra <i>handle set</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50525	Terminali asta <i>rod terminal</i>	2 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	40 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	10 pz
ACP 5157	Kit catenacci bidirezionali <i>bolt set for 2-ways directional device</i>	3 kit
ACP 5161	Kit cerniera anta passiva <i>concealed hinges</i>	2 kit
ACP 5152	Incontro doppio <i>double keeper</i>	6 pz
ACP 50407	Cerniera per 3a anta <i>3rd sash hinges</i>	4 pz
ACP 72179M	Tappo per riporto centrale <i>plug for central connection profile</i>	3 cp

DISTINTE DI TAGLIO
Cutting lists

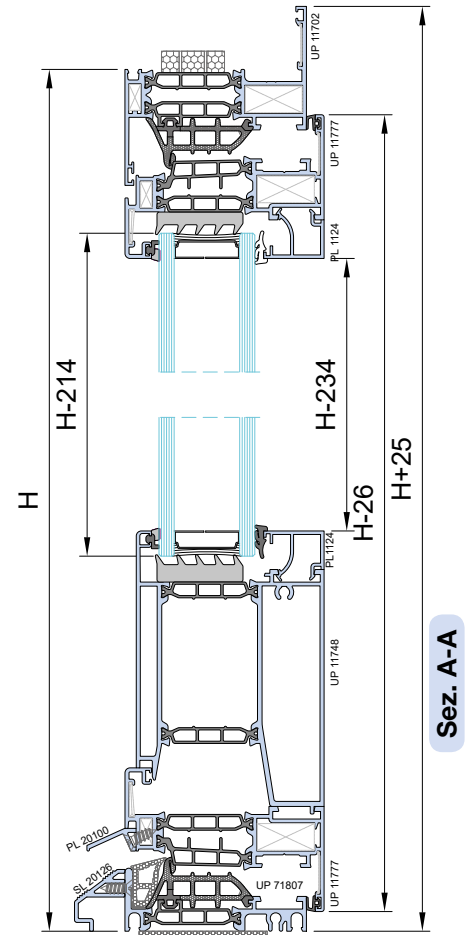
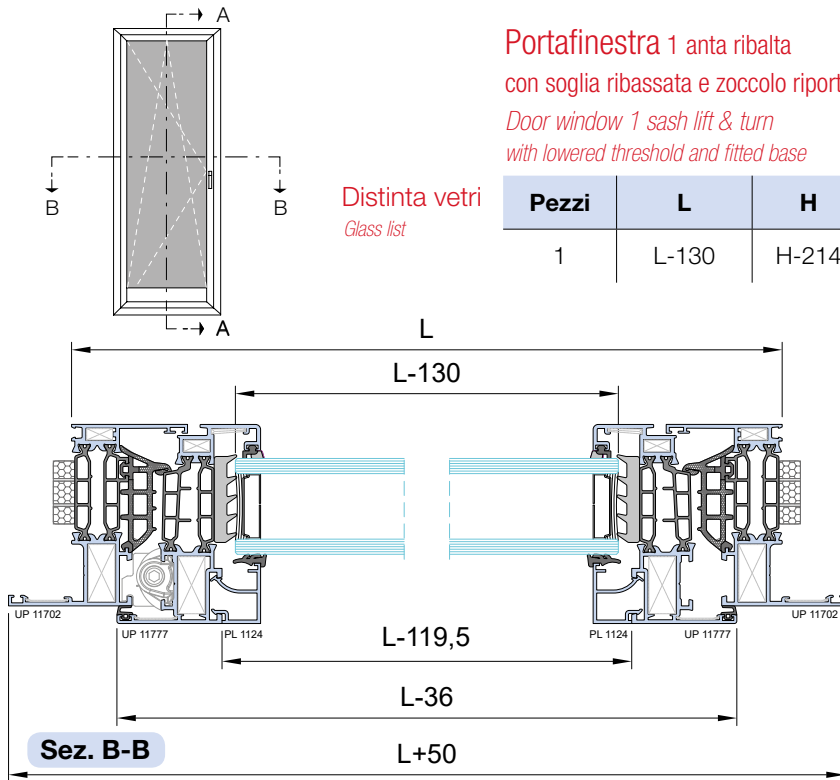
Distinta guarnizioni
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta	8 L/4-12
			5 H-36
AGP 6231N		Sottovetro	8 L/4-88
			8 H-112
AGP 72172		Pinna giunto aperto <i>central rabbet</i>	2 L-116
			5 H-116
AGP 7007		Vetro esterno <i>external glass gasket</i>	8 L/4-106
			8 H-136
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	8 L/4-106
			8 H-136
AGP 4006		Battuta riporto centrale <i>central cap wall seal</i>	3 L-106
AGP 5034/25		Isolamento spalla <i>side insulation</i>	1 L
			2 H
AGP 5037		Isolamento soglia <i>threshold insulation</i>	1 L

Portafinestra 1 anta ribalta
con soglia ribassata e zoccolo riportato
*Door window 1 sash lift & turn
with lowered threshold and fitted base*

Distinta vetri
Glass list

Pezzi	L	H
1	L-130	H-214



Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-26	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	2	L-119.5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-234	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	
UP 11748	Zoccolo riportato <i>fitted base</i>	1	L-110.5	

Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L-36
		2	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	2	L-112
		2	H-196
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		2	H-107.5
AGP 7007	Vetro esterno <i>external glass gasket</i>	2	L-136
		2	H-220
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-136
		2	H-220
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Accessories' list

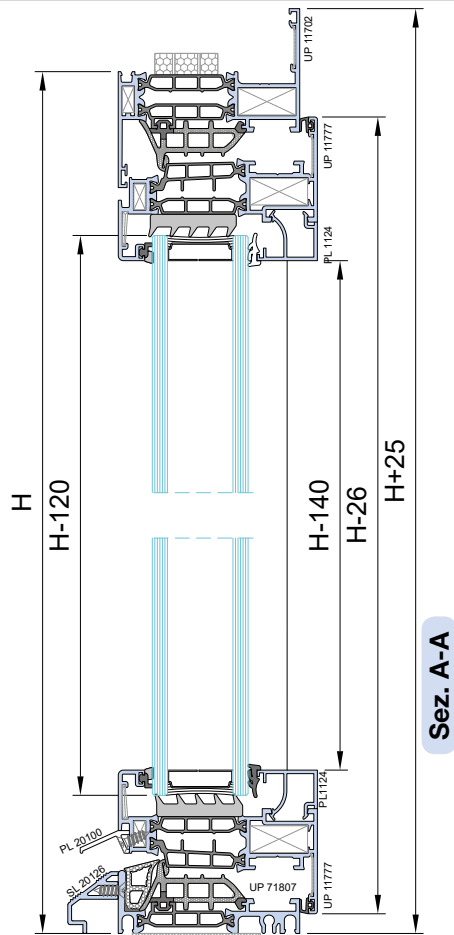
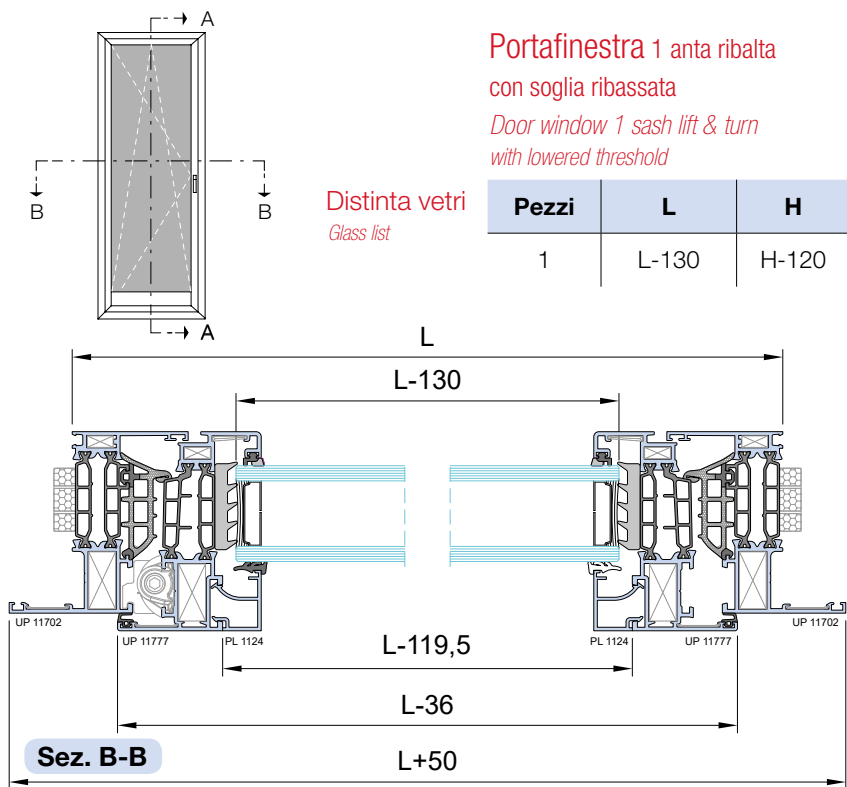
Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	6 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	6 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	12 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

DISTINTE DITAGLIO
Catalog lists

**Portafinestra 1 anta ribalta
con soglia ribassata**
*Door window 1 sash lift & turn
with lowered threshold*

Distinta vetri
Glass list

Pezzi	L	H
1	L-130	H-120



Distinta profili

Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-26	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	2	L-119,5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-140	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	

Distinta accessori

Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	6 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	6 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	12 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

DISTINTE DI TAGLIO

Cutting lists

Distinta guarnizioni

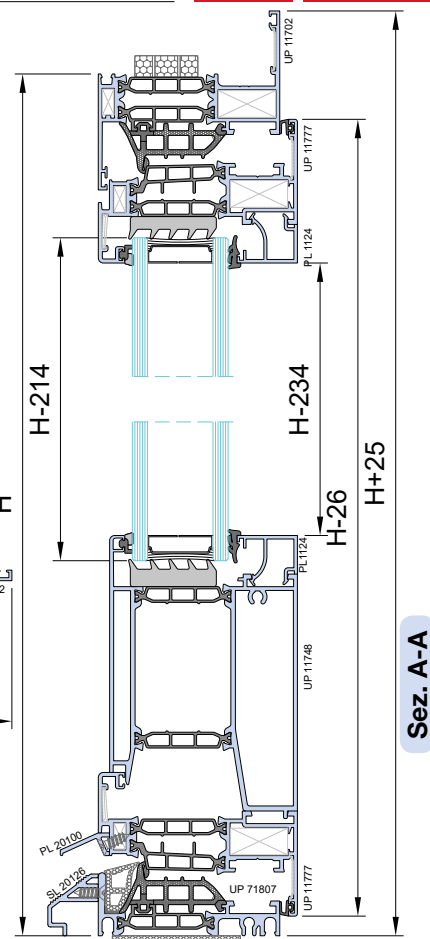
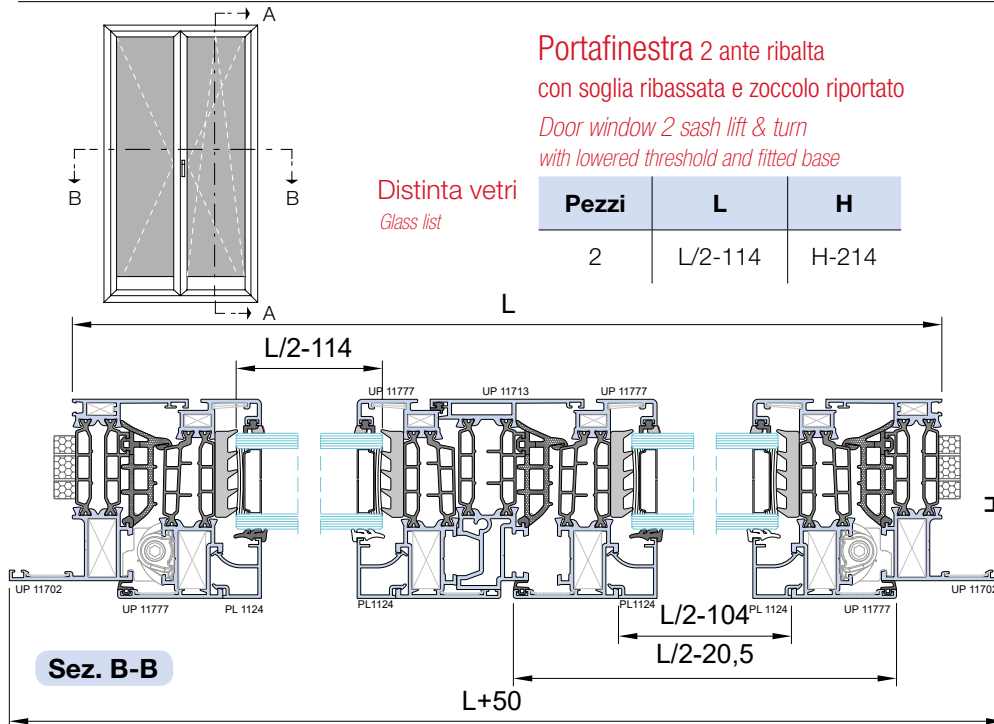
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L-36
		2	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	2	L-112
		2	H-102
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		2	H-107,5
AGP 7007	Vetro esterno <i>external glass gasket</i>	2	L-136
		2	H-126
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-136
		2	H-126
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Portafinestra 2 ante ribalta
con soglia ribassata e zoccolo riportato
Door window 2 sash lift & turn
with lowered threshold and fitted base

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-114	H-214



Distinta profili
Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-20,5	
	Montante anta <i>mullion sash</i>	4	H-26	
UP 11713	Riporto centrale <i>central cap</i>	1	H-96	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-104	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-234	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	
UP 11748	Zoccolo riportato <i>fitted base</i>	2	L/2-95	

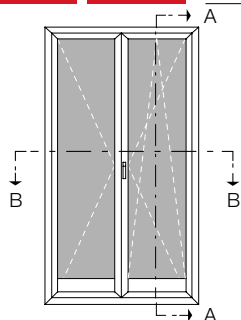
Distinta guarnizioni
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L/2-20,5
		3	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	4	L/2-97,5
		4	H-196
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		3	H-107,5
AGP 7007	Vetro esterno <i>external glass gasket</i>	4	L/2-121
		4	H-220
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	4	L/2-121
		4	H-220
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 4006	Battuta riporto centrale <i>rabbet central gasket</i>	1	H-96
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori
Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	10 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	10 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	10 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5158	Incontro superiore anta passiva <i>top gathering passive sash</i>	1 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72179M	Tappo per riporto centrale <i>central plug</i>	1 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	20 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

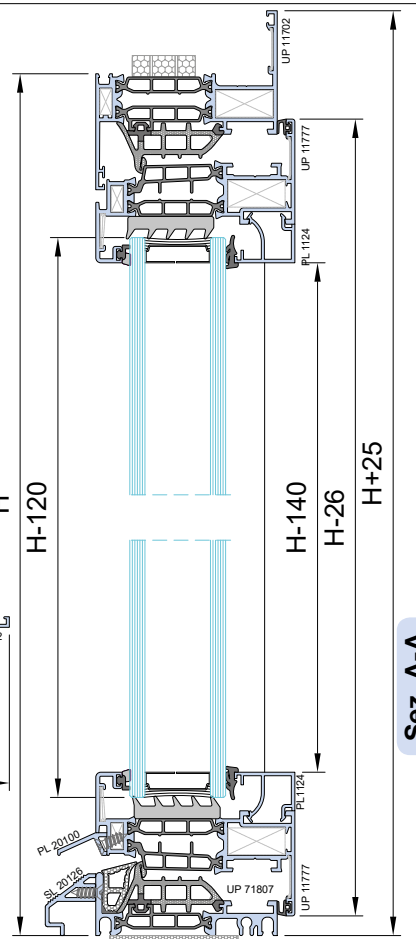
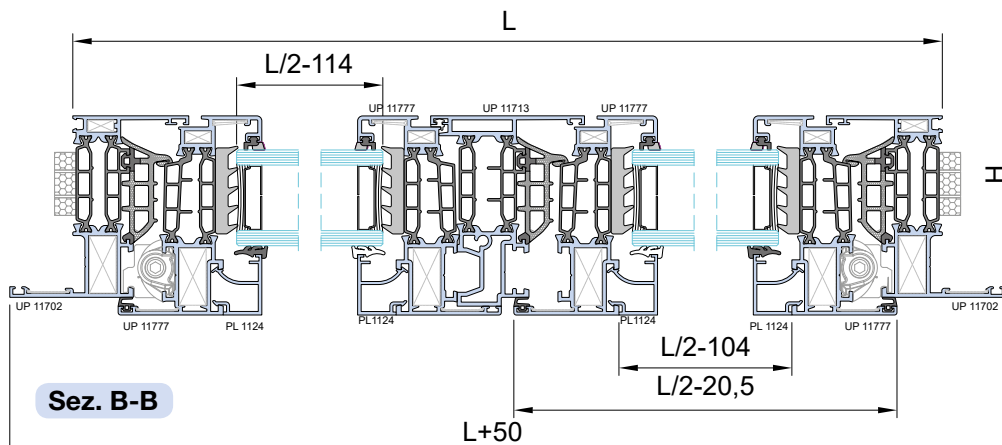
DISTINTE DITAGLIO
Cutting lists



**Portafinestra 2 ante ribalta
con soglia ribassata**
*Door window 2 sash lift & turn
with lowered threshold*

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-114	H-120



Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-20,5	
	Montante anta <i>mullion sash</i>	4	H-26	
UP 11713	Riporto centrale <i>central cap</i>	1	H-96	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-104	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-140	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	

Distinta profili

Profiles' list

Distinta accessori

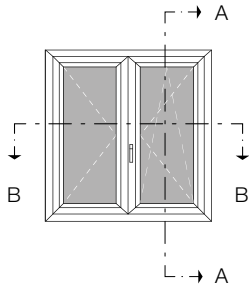
Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	10 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	10 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	10 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5158	Incontro superiore anta passiva <i>top gathering passive sash</i>	1 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72179M	Tappo per riporto centrale <i>central plug</i>	1 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	20 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L/2-20,5
		3	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	4	L/2-97,5
		4	H-102
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		3	H-107,5
AGP 7007	Vetro esterno <i>external glass gasket</i>	4	L/2-121
		4	H-126
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	4	L/2-121
		4	H-126
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 4006	Battuta riporto centrale <i>rabbet central gasket</i>	1	H-96
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta guarnizioni

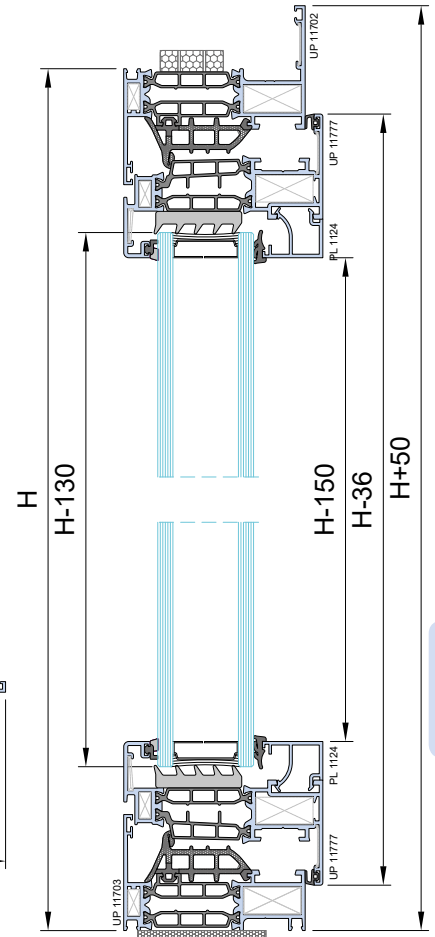
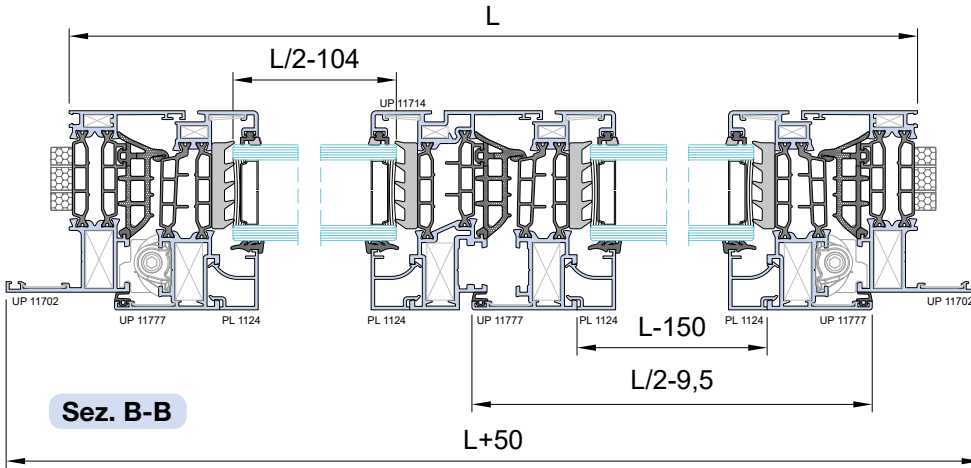
Gaskets' list



Finestra 2 ante ribalta con nodo centrale T all'italiana
Window 2 sash lift & turn with central section transome italian T

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-104	H-130



Distinta profili
Profiles list

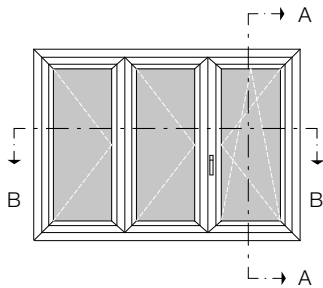
Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-9.5	
	Montante anta <i>mullion sash</i>	3	H-36	
UP 11714	Montante T all'italiana <i>transom italian T</i>	1	H-14	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-93.5	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-150	

Distinta accessori
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	12 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	12 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 5150	Kit a/r cerniera a scomparsa <i>tilt & turn set concealed hinge</i>	1 kit
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72686	Tappo per T all'italiana <i>italian T plug</i>	1 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	24 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz

Distinta guarnizioni
Gaskets list

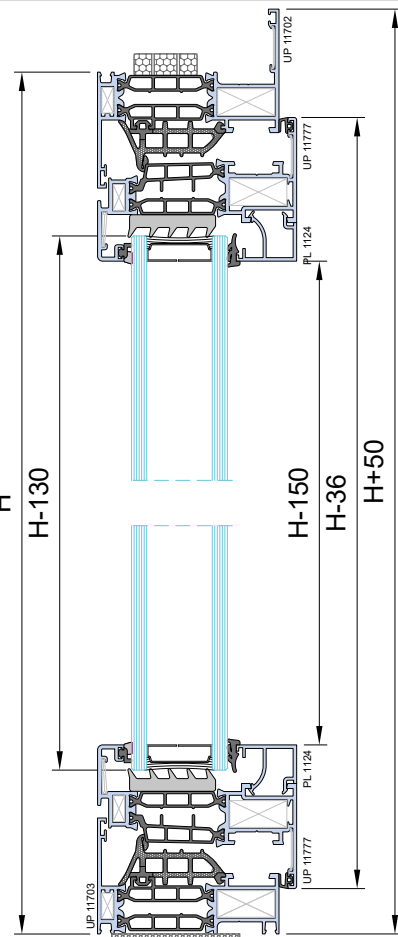
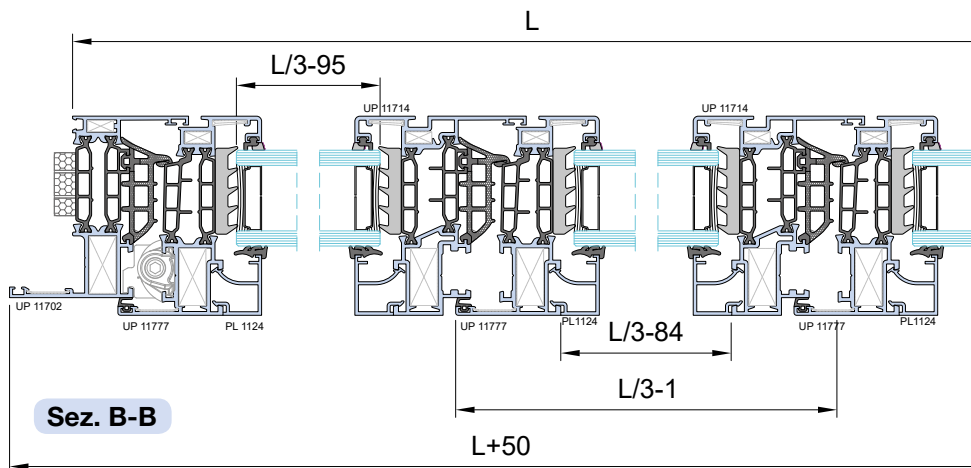
Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta <i>wall seal</i>	4 L/2-9.5
		3 H-36	
AGP 6231N		Sottovetro <i>glazing strip</i>	4 L/2-86
		4 H-112	
AGP 72172		Pinna giunto aperto <i>central rabbet</i>	2 L-116
			3 H-116
AGP 7007		Vetro esterno <i>external glass gasket</i>	4 L/2-107
			4 H-136
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	4 L/2-107
			4 H-136
AGP 5034/25		Isolamento spalla <i>side insulation</i>	2 H 1 L
AGP 5037		Isolamento soglia <i>threshold insulation</i>	1 L



Finestra 3 ante ribalta con nodo centrale T all'italiana
 Window 3 sash lift & turn with central section transome italian T

Distinta vetri
 Glass list

Pezzi	L	H
3	L/3-95	H-130



Sez. A-A

Distinta profili
 Profiles list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	6	L/3-1	
	Montante anta <i>mullion sash</i>	4	H-36	
UP 11714	Montante T all'italiana <i>transom italian T</i>	2	H-14	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	6	L/3-84	
	Montante fermavetro <i>mullion glazing bead</i>	6	H-150	

Distinta accessori
 Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	16 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	16 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	12 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	12 pz
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 5150	Kit a/r cerniera a scomparsa <i>tilt & turn set concealed hinge</i>	1 kit
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	2 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72686	Tappo per T all'italiana <i>italian T plug</i>	2 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	32 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
ACP 5152	Incontro doppio <i>double keeper</i>	2 pz
ACP 50407	Cerniera per 3a anta <i>3rd sash hinge</i>	2 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	8 pz

Distinte di taglio
 Cutting lists

Distinta guarnizioni
 Gaskets list

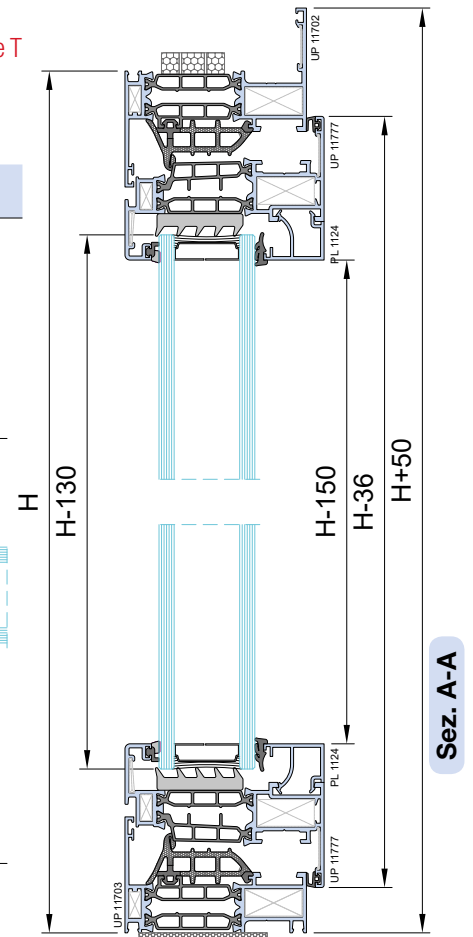
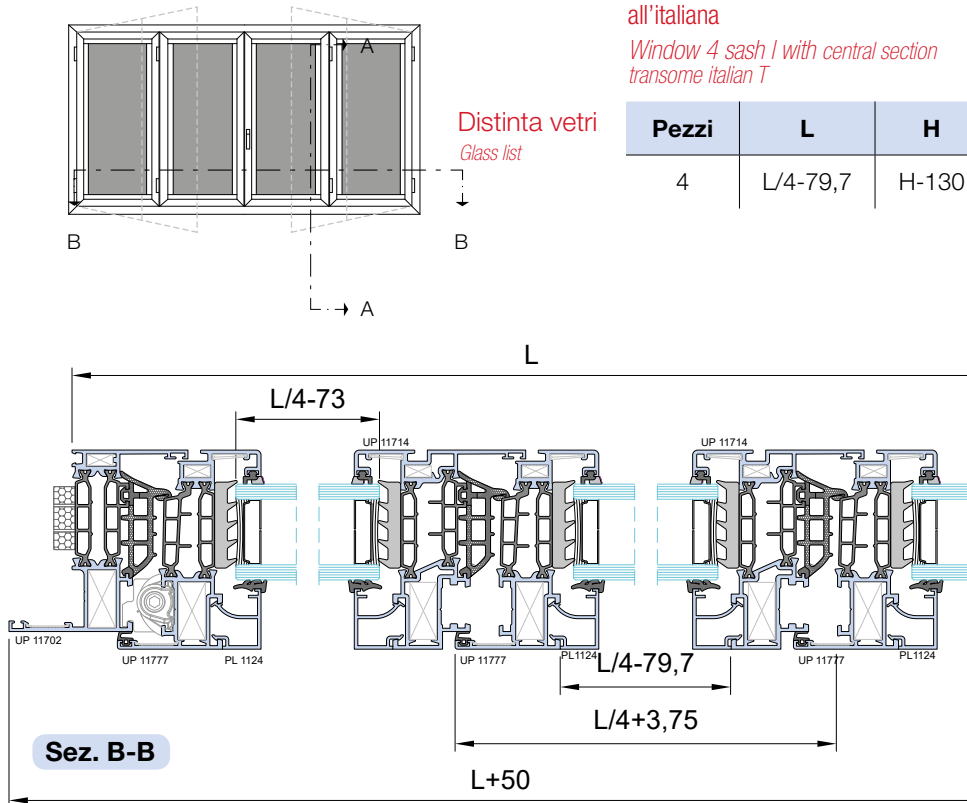
Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	6	L/3-1
		4	H-36
AGP 6231N	Sottovetro <i>glazing strip</i>	6	L/3-67
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		4	H-116
AGP 7007	Vetro esterno <i>external glass gasket</i>	6	L/3-100.5
		6	H-136
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	6	L/3-100.5
		6	H-136
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Finestra 4 ante con nodo centrale T all'italiana

Window 4 sash I with central section transome italian T

Distinta vetri
Glass list

Pezzi	L	H
4	L/4-79,7	H-130



Profiles' list Distinta profili

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 11777	Traverso anta <i>transom sash</i>	8	L/4+3,75	
	Montante anta <i>mullion sash</i>	5	H-36	
UP 11714	Montante T all'italiana <i>transom italian T</i>	3	H-14	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	6	L/4-79,7	
	Montante fermavetro <i>mullion glazing bead</i>	6	H-150	

Gaskets' list Distinta guarnizioni

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	8	L/4+4
		5	H-36
AGP 6231N	Sottovetro <i>glazing strip</i>	8	L/4-90
		8	H-112
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		5	H-116
AGP 7007	Vetro esterno <i>external glass gasket</i>	8	L/4-98
		8	H-136
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	8	L/4-98
		8	H-136
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Accessories' list Distinta accessori

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	20 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	20 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	16 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	12 pz
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50525	Terminali asta <i>rod terminal</i>	2 pz
ACP 50312	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	3 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	2 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72686	Tappo per T all'italiana <i>italian T plug</i>	3 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	40 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
ACP 5152	Incontro doppio <i>double keeper</i>	6 pz
ACP 50407	Cerniera per 3a anta <i>3rd sash hinge</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	10 pz

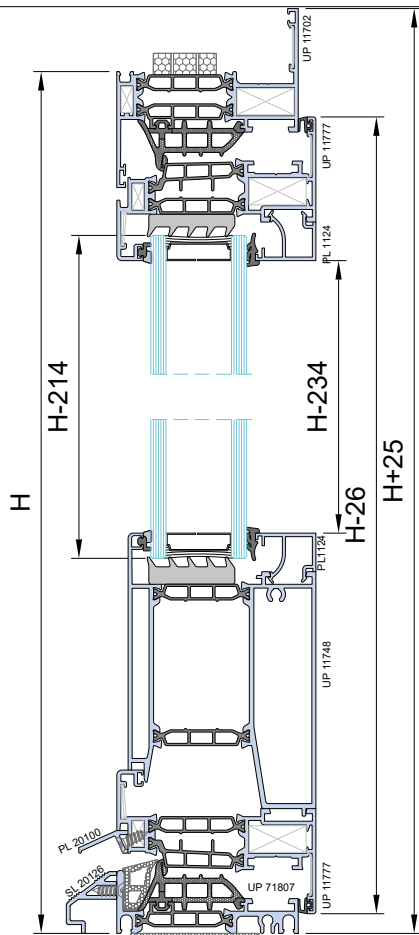
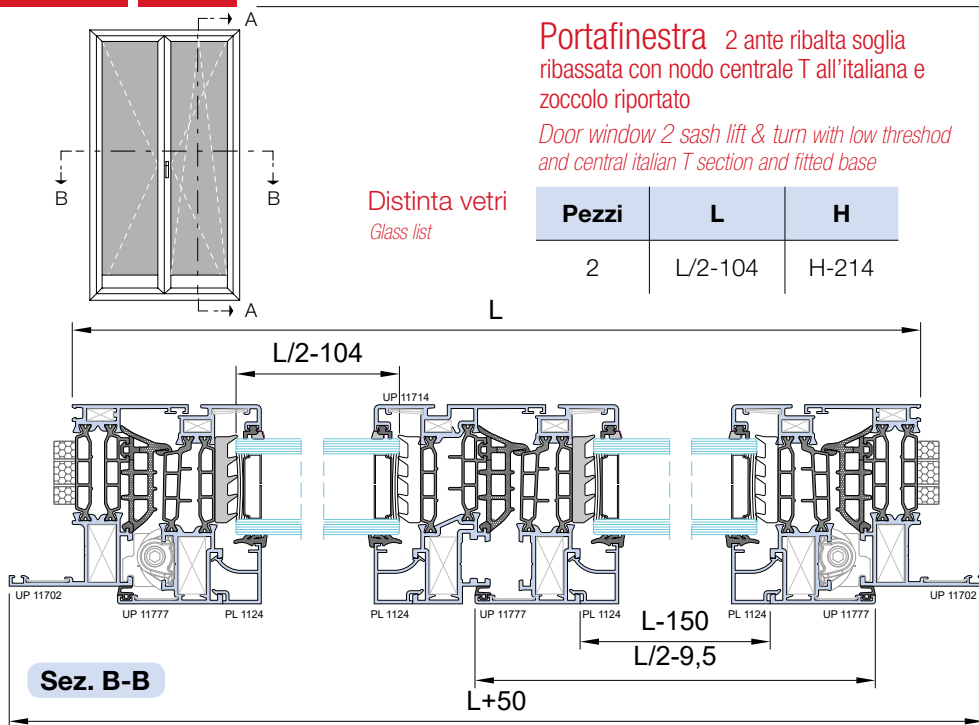
DISTINTE DITAGLIO
Catalog lists

Portafinestra 2 ante ribalta soglia ribassata con nodo centrale T all'italiana e zoccolo riportato

Door window 2 sash lift & turn with low threshold and central italian T section and fitted base

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-104	H-214



Distinta profili
Profiles' list

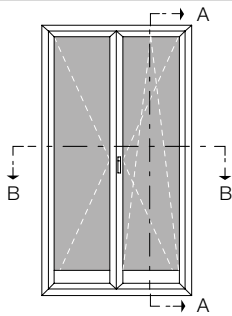
Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-9,5	
	Montante anta <i>mullion sash</i>	3	H-26	
UP 11714	Montante T all'italiana <i>transom italian T</i>	1	H-4	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-93,5	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-234	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	
UP 11748	Zoccolo riportato <i>fitted base</i>	2	L/2-84	

Distinta guarnizioni
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L/2-9,5
		3	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	4	L/2-86
		4	H-196
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		3	H-107,5
AGP 7007	Vetro esterno <i>external glass gasket</i>	4	L/2-107
		4	H-220
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	4	L/2-107
		4	H-220
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori
Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	10 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	10 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72686	Tappo per T all-italiana <i>T italian plug</i>	1 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	20 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

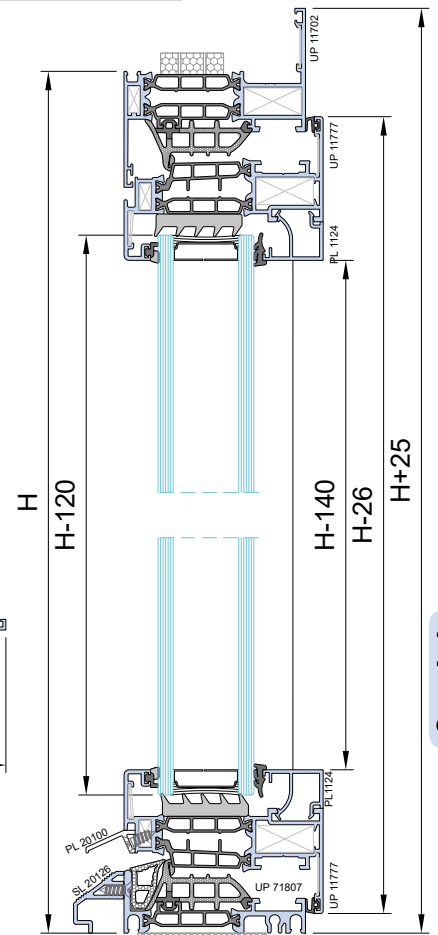
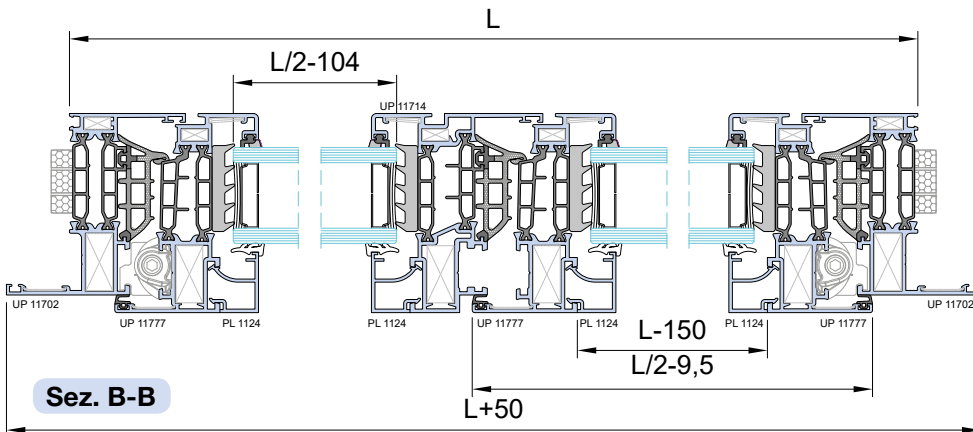


Portafinestra 2 ante ribalta soglia
ribassata con nodo centrale T all'italiana

Door window 2 sash lift & turn with low
threshold and central italian T section

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-104	H-120



Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+25	
UP 71807	Soglia <i>Threshold</i>	1	L-39	
UP 11777	Traverso anta <i>transom sash</i>	4	L/2-9.5	
	Montante anta <i>mullion sash</i>	3	H-26	
UP 11714	Montante T all'italiana <i>transom italian T</i>	1	H-4	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-93.5	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-140	
SL 20126	Rinforzo soglia ribassata <i>low threshold</i>	1	L	
SL 20100	Gocciolatoio <i>drip</i>	1	L-102	

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L/2-9.5
		3	H-26
AGP 6231N	Sottovetro <i>glazing strip</i>	4	L/2-86
4		H-102	
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		3	H-107.5
AGP 7007	Vetro esterno <i>external glass gasket</i>	4	L/2-107
		4	H-126
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	4	L/2-107
		4	H-126
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-116
AGP 5034/25	Isolamento spalla <i>side insulation</i>	2	H
		1	L
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori
Accessories' list

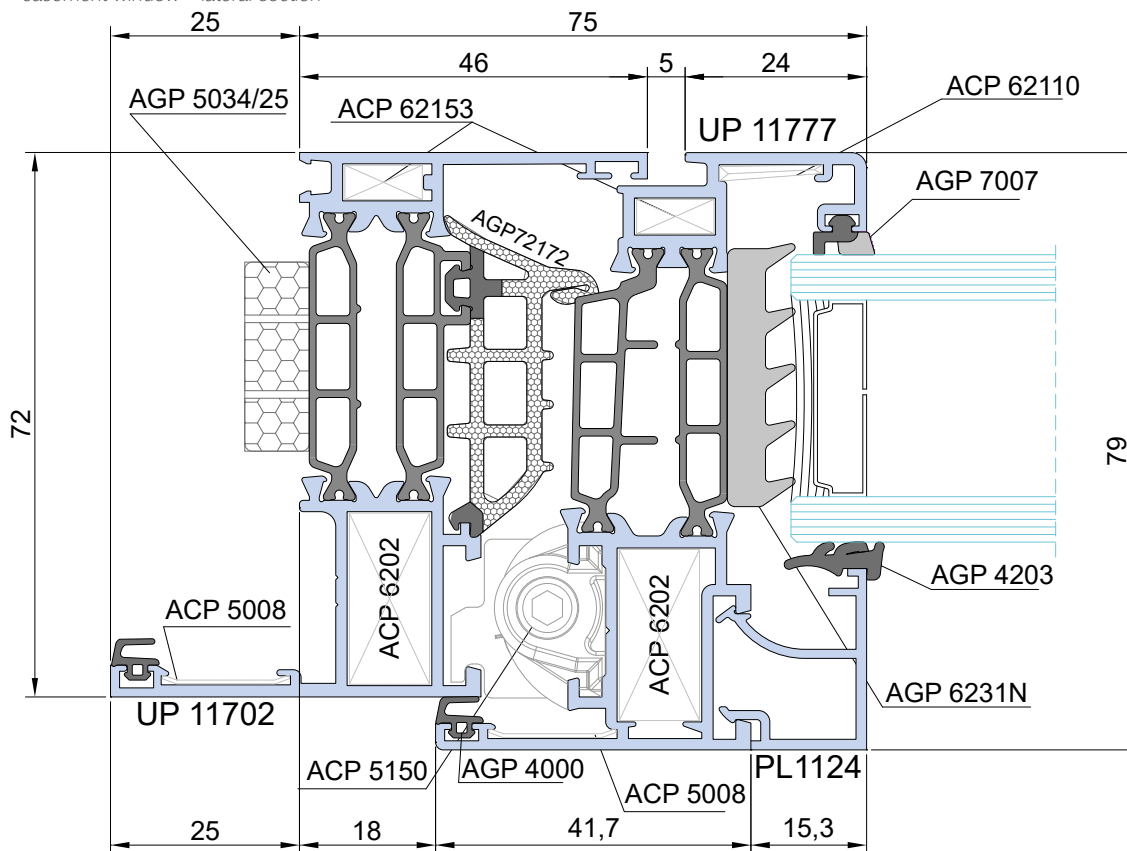
Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	10 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	10 pz
ACP 62110	Squadretta allineamento <i>alignment corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	8 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 72686	Tappo per T all-italiana <i>T italian plug</i>	1 cp
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	20 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

DISTINTE DITAGLIO
Cutting lists

Nodo 01

Nodo apertura interna - finestra a battente - nodo laterale

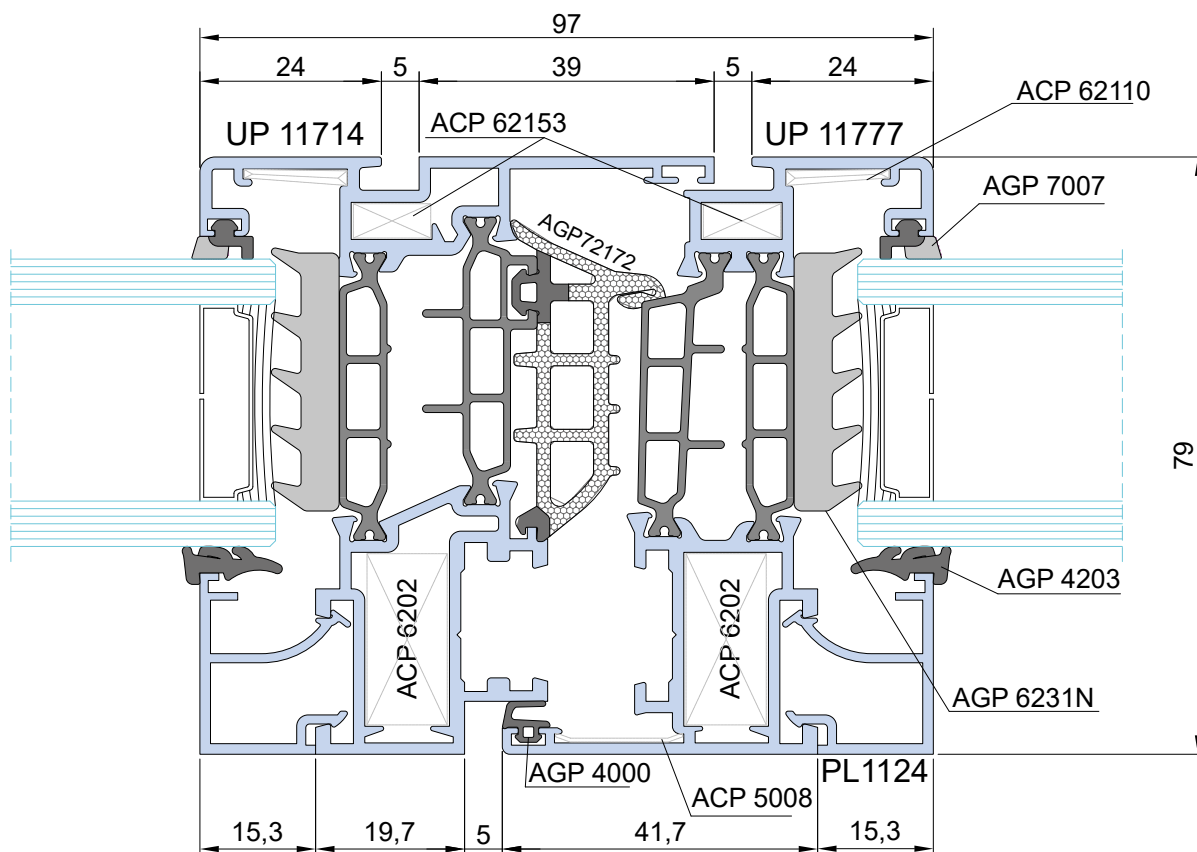
Inward opening - casement window - lateral section



Nodo 02

Nodo T all'italiana - nodo centrale

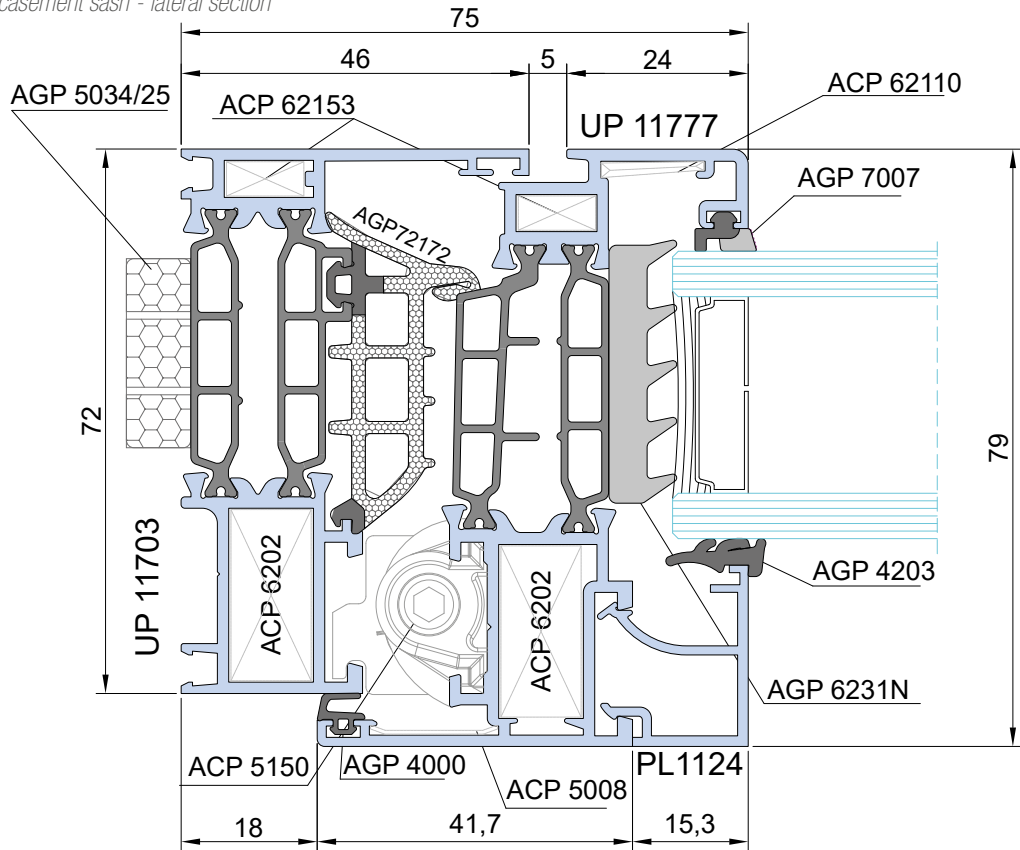
Italian T profile - central section



Nodo 03

Nodo apertura interna - finestra a battente - nodo laterale

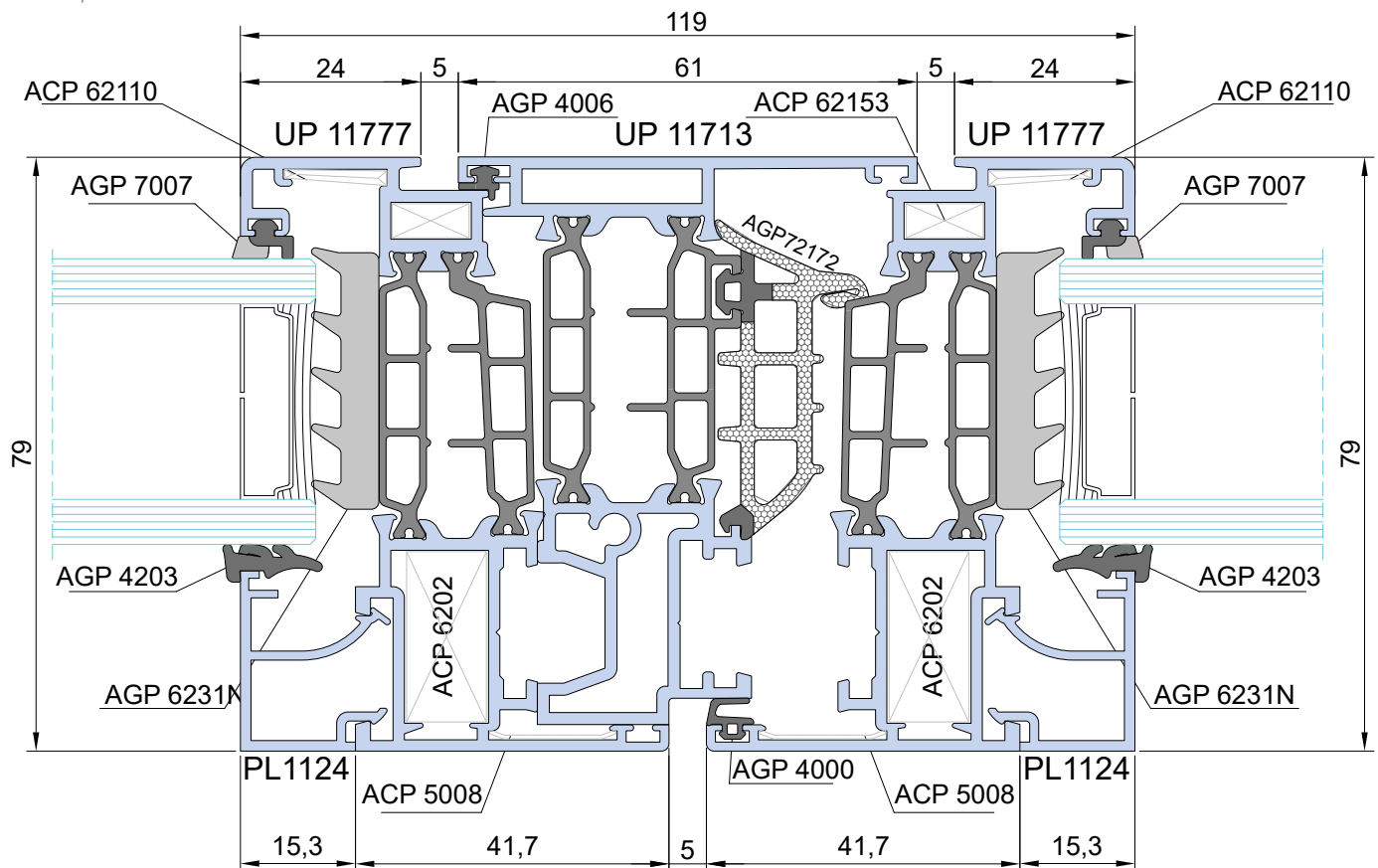
Inward opening section - casement sash - lateral section



Nodo 04

Nodo T di riporto - nodo centrale

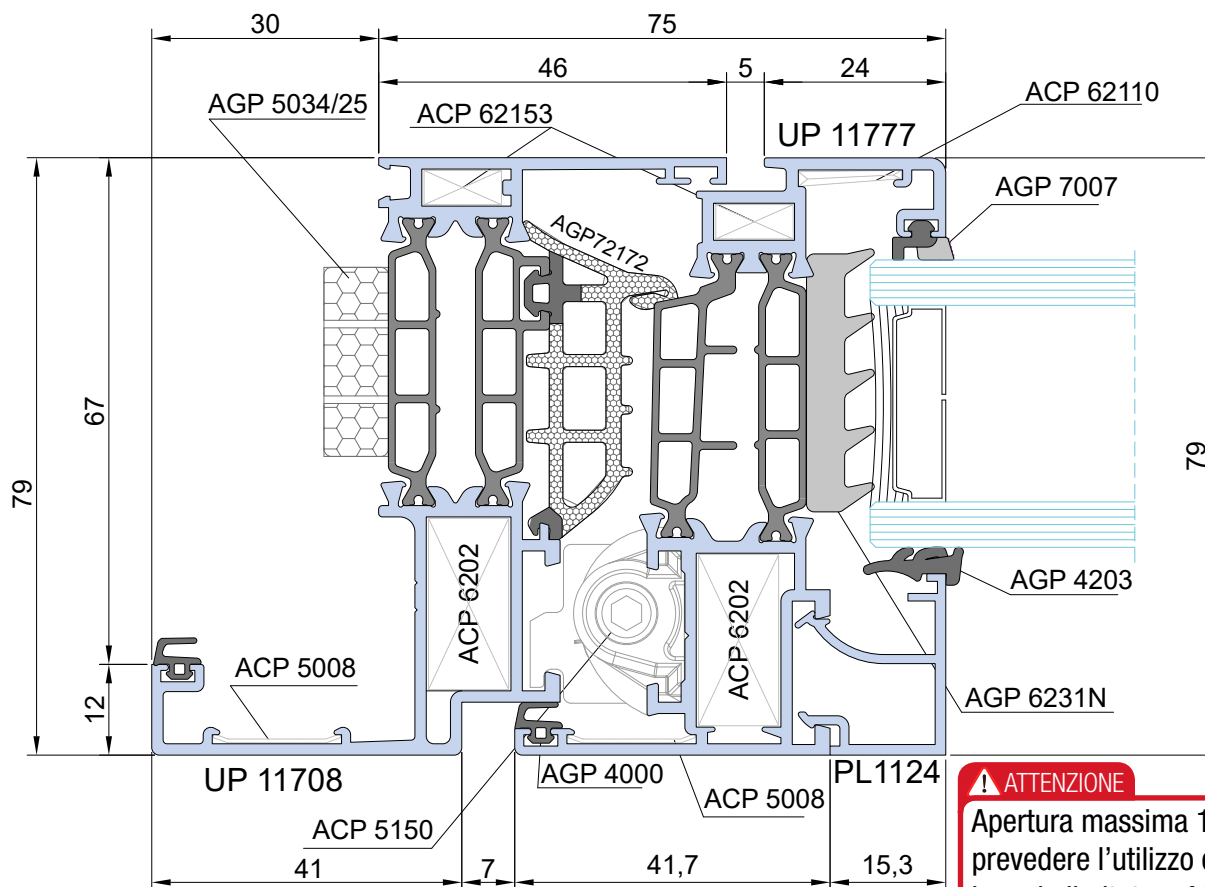
Rebate T profile - central section



Nodo 05

Apertura interna - finestra a battente - telaio coplanare - nodo laterale

Inward opening section - casement sash - coplanar frame - lateral section

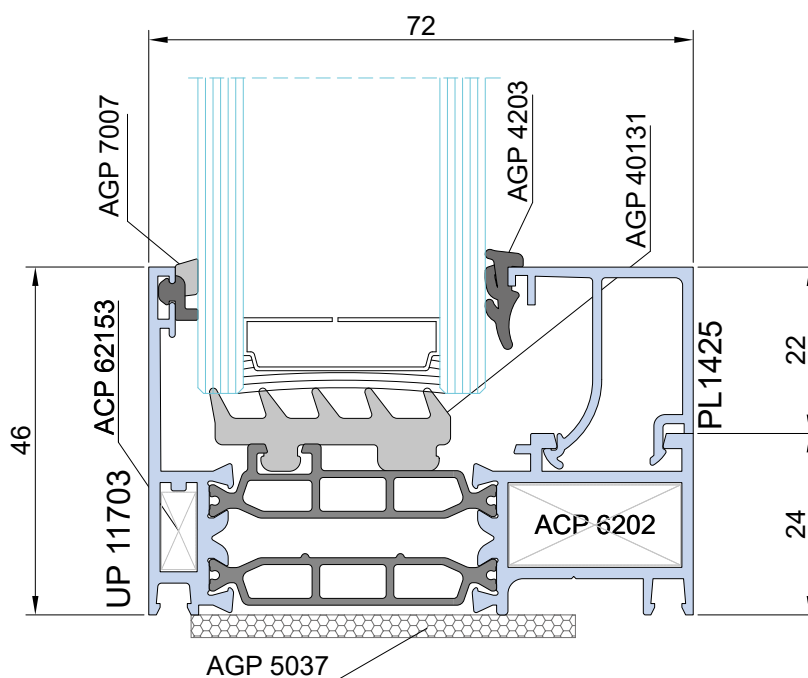


ATTENZIONE
 Apertura massima 105°
 prevedere l'utilizzo del
 braccio limitatore ACP 5165
 Maximum opening 105°
 foresee the use of the ACP 5165 limiter
 arm

Nodo 06

Nodo perimetrale - fisso

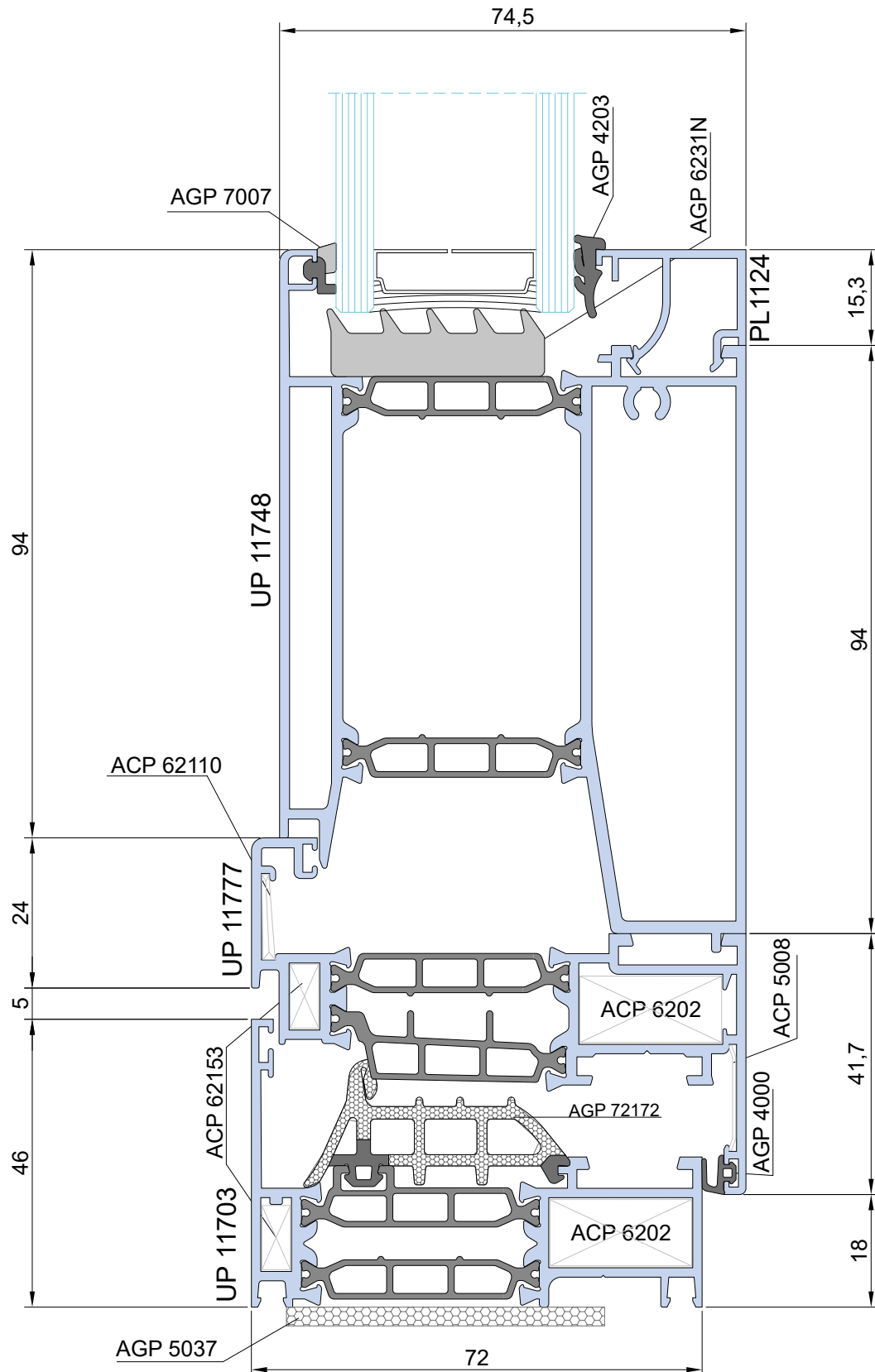
Perimetral section - fixed



Nodo 07

Apertura interna - portafinestra a battente - nodo soglia

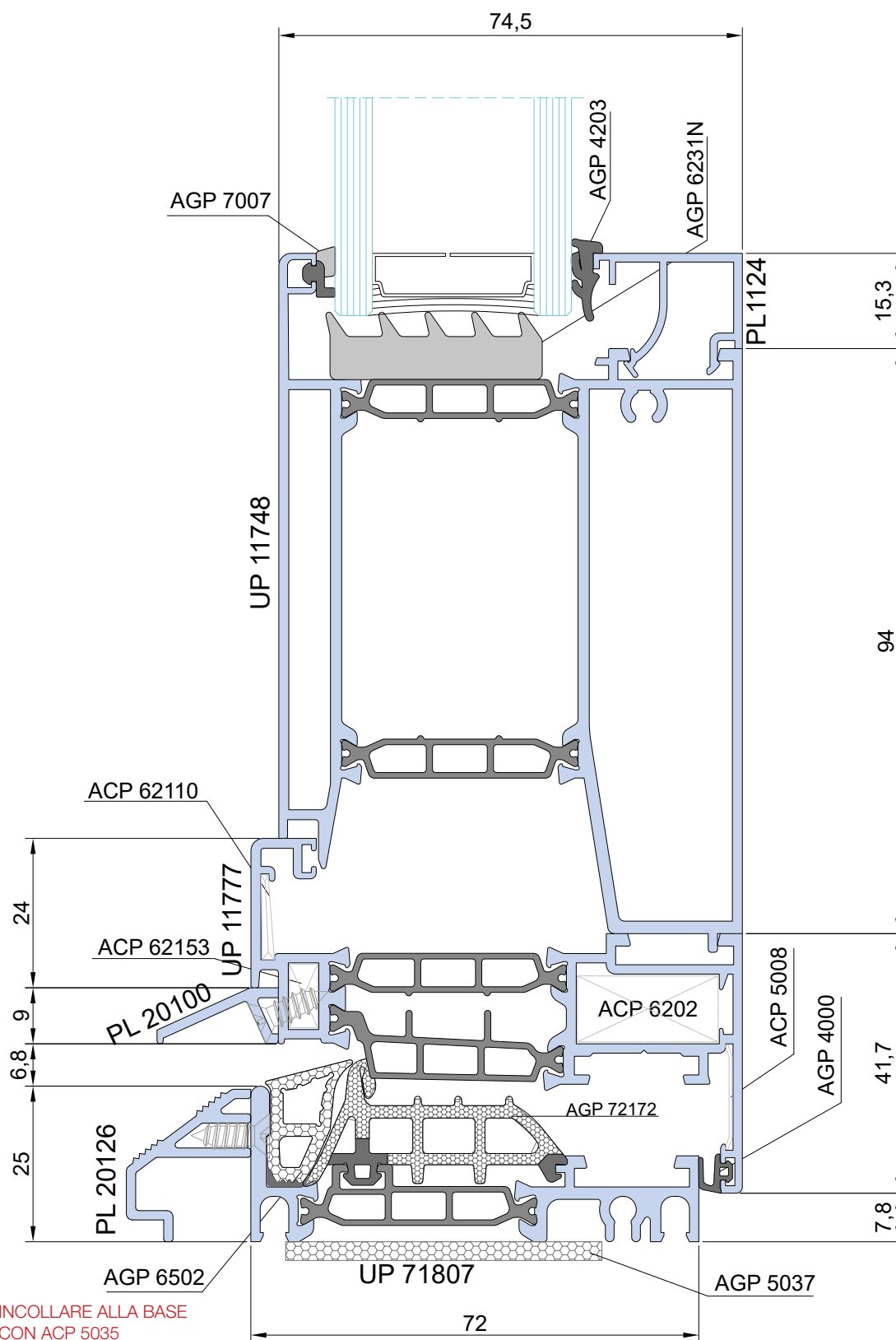
Inward opening - balcony door - threshold section



Nodo 08

Apertura interna - zoccolo riportato - portafinestra a battente - nodo soglia ribassata

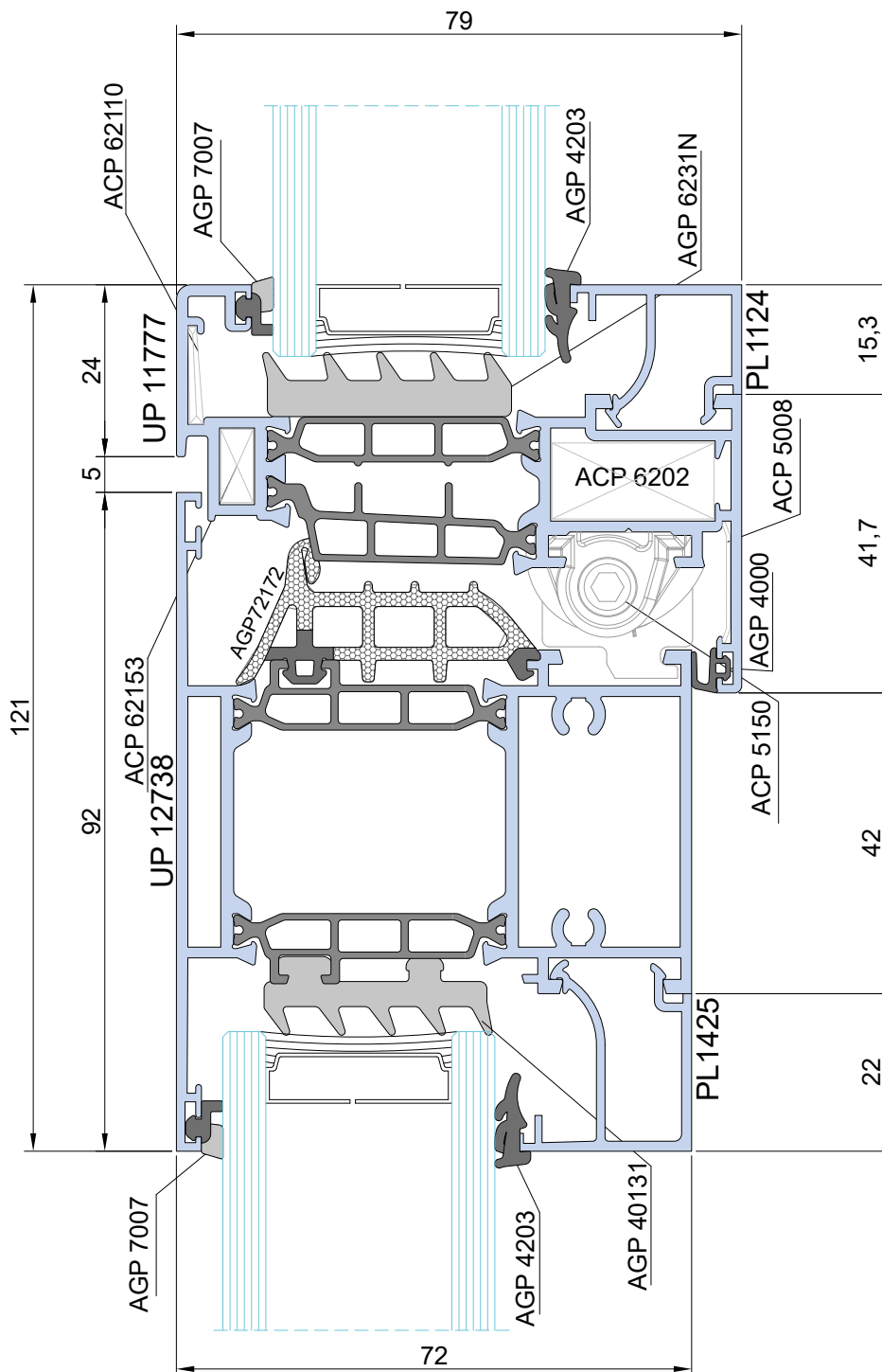
Inward opening - casement door - bottom section - beadless type



Nodo 09

Apertura interna - finestra a battente - nodo laterale - fisso+apribile

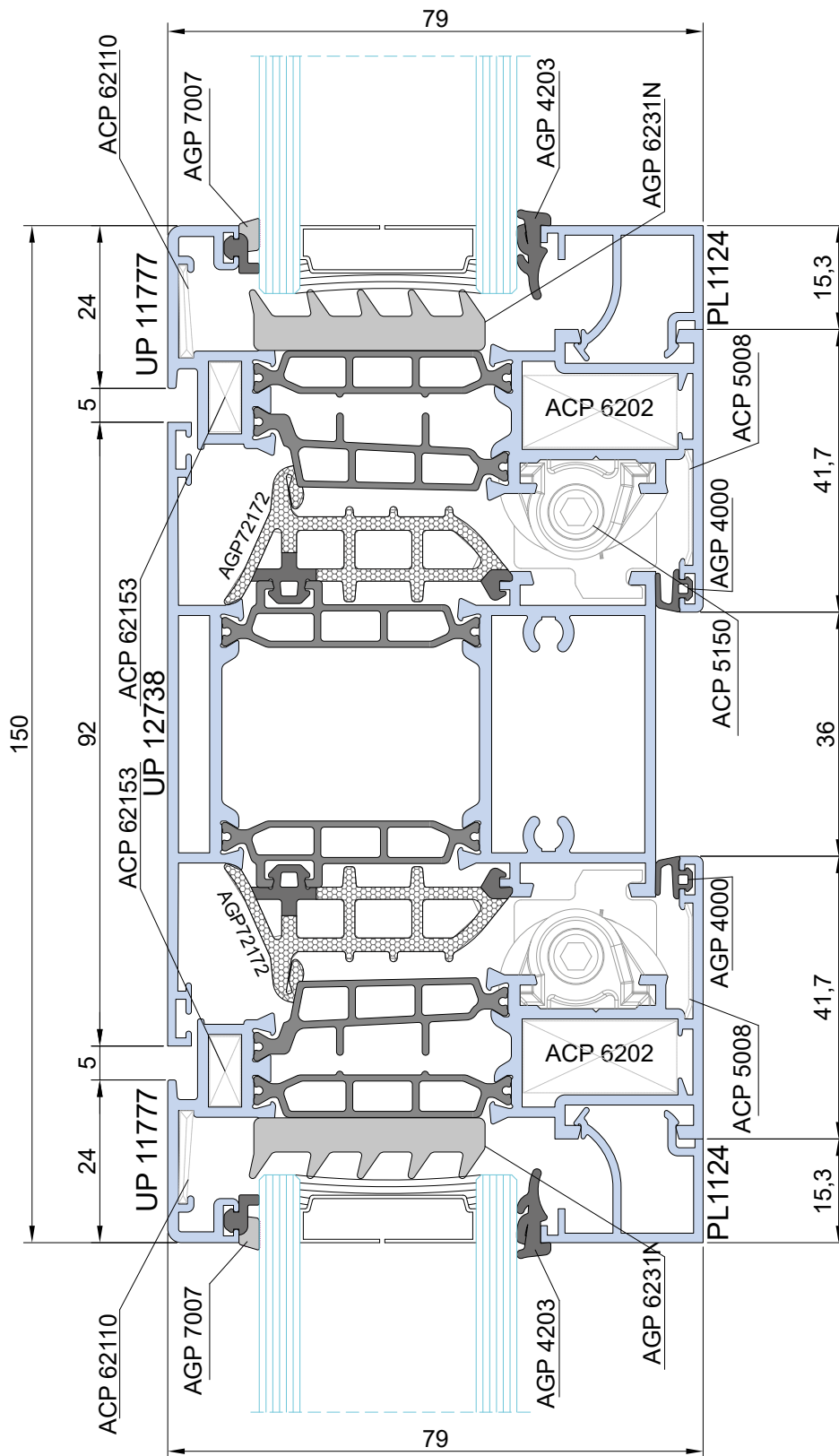
Inward opening - casement sash - lateral section - fixed+opening



Nodo 10

Apertuta interna - finestra a battente - nodo laterale - apribile+apribile

Inward opening - casement window - lateral section - opening+opening

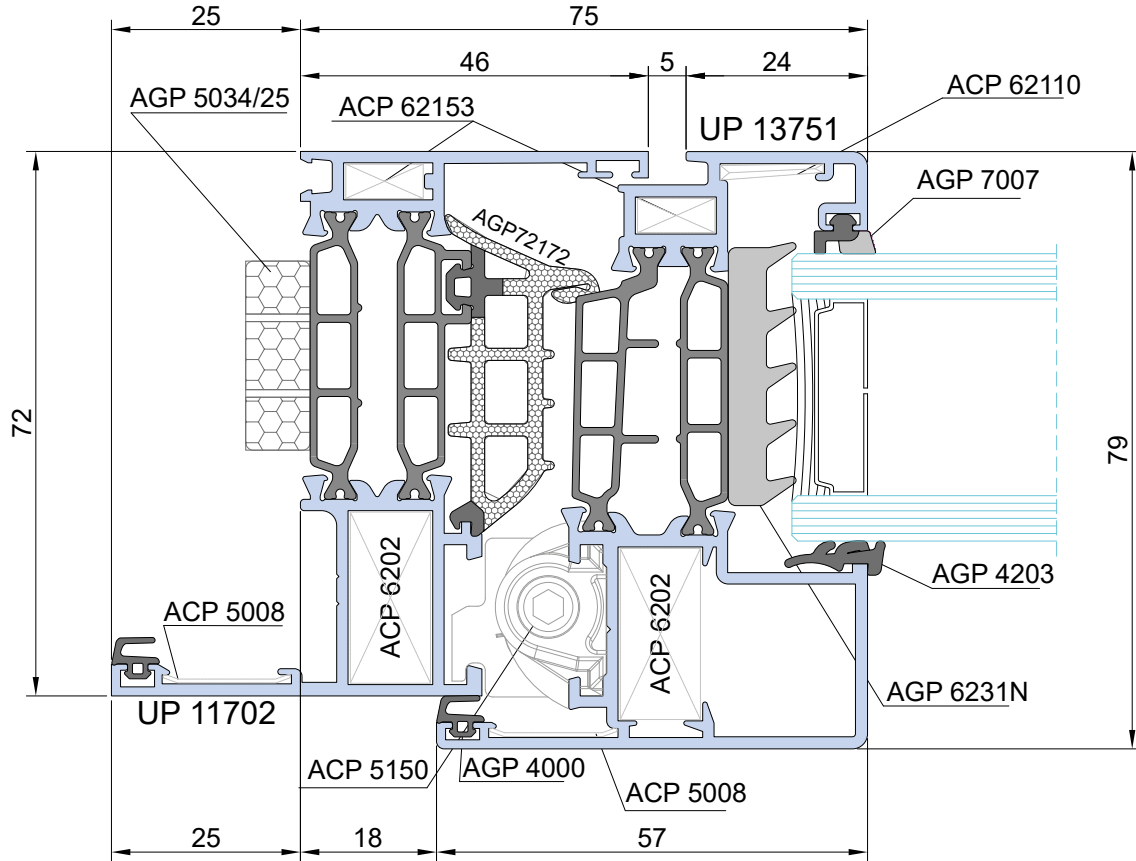


NODI E SEZIONI
 Sections

Nodo 11

Apertuta interna - finestra a battente vetro infilare - nodo laterale anta vetro infilare

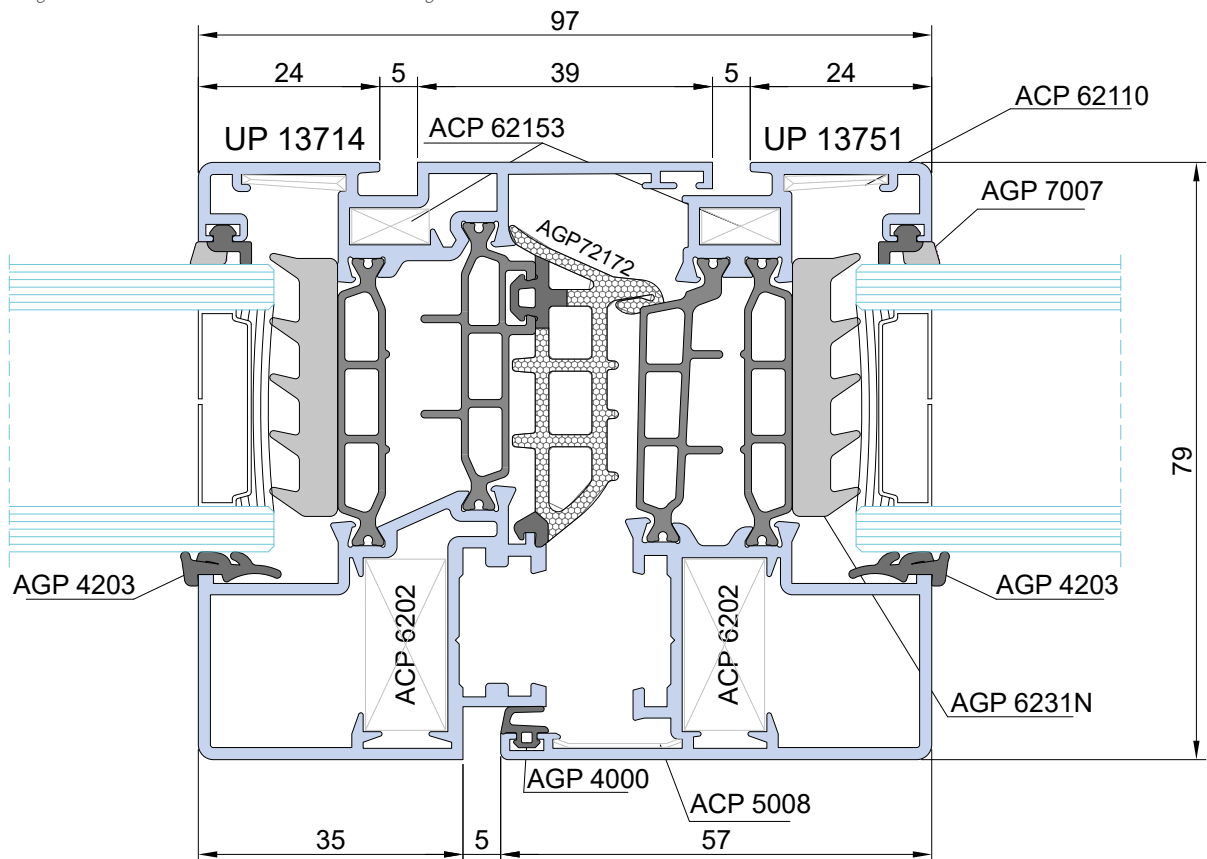
Inward opening - casement window astragal - lateral section sash base for beadless glass



Nodo 12

Nodo T all'italiana - nodo centrale anta vetro infilare

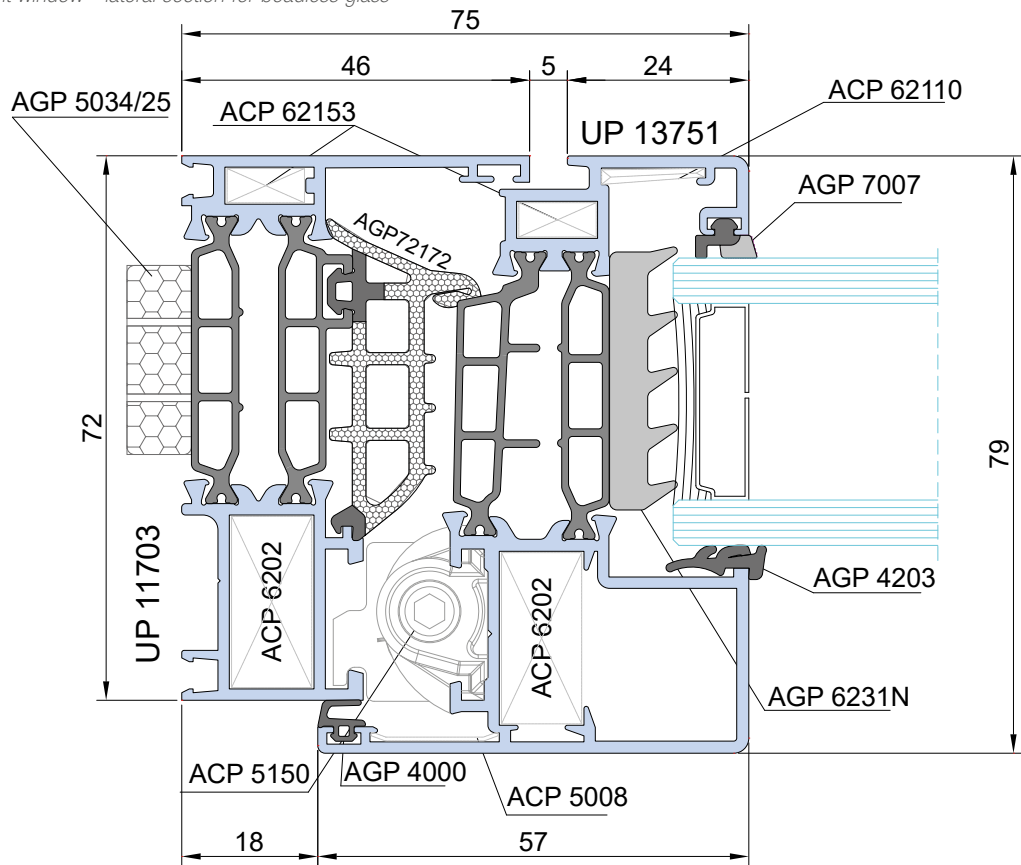
Italian T section astragal - central section sash base for beadless glass



Nodo 13

Apertura interna - finestra a battente - nodo laterale anta vetro infilare

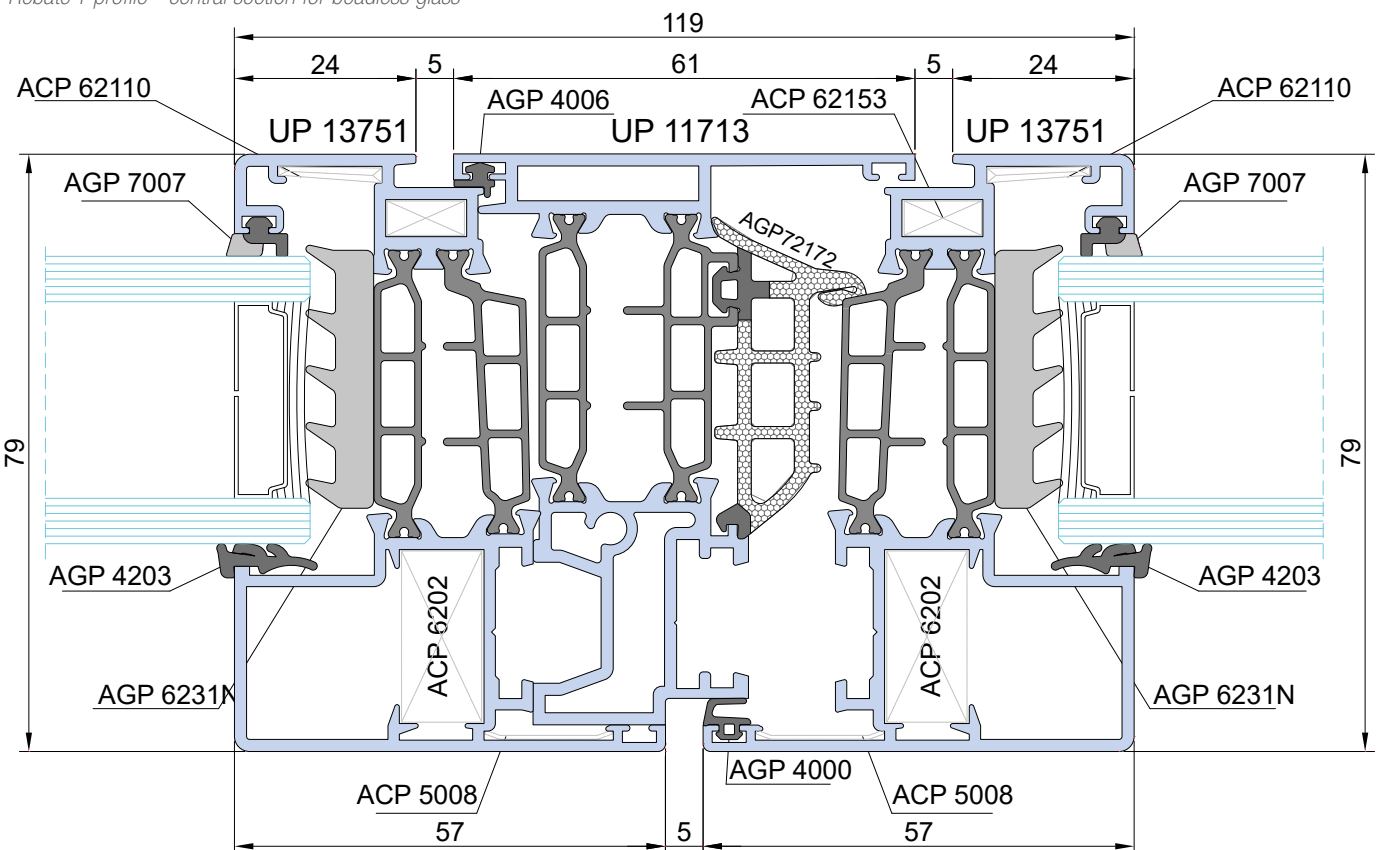
Inward opening - casement window - lateral section for beadless glass



Nodo 14

Nodo T di riporto - nodo centrale anta vetro infilare


Rebate T profile - central section for beadless glass



LEGENDA

	<p>Punzonatrice <i>Punching machine</i></p>	 <p>Pantografo / fresatrice / centro di lavoro <i>Pantograph / cutter / machine center</i></p>
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ELENCO ATTREZZATURE



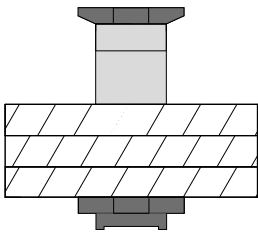
MCT PL 14570

Questa punzonatrice esegue tutte le lavorazioni per la serie Ecoslim:

- Fori EXENS
- Scarico acqua
- Areazione anta
- Asola e foro squadretta
- Foro squadretta spinare
- Esclusore
- Riduttore di corsa
- Lavorazione astina
- Spuntatura alette per passaggio astina

Milling machine tool for Ecoslim serie:

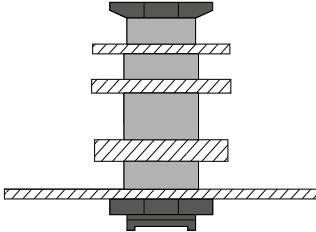
- EXENS holes
- water drainage hole
- sash ventilation
- corner cleat double hole
- corner cleat hole
- rod



MCT PL 53 PT

Gruppo frese per lavorazione riporto centrale per Ecoslim 72 UP HI

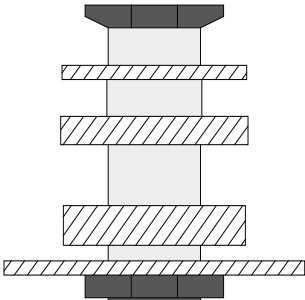
Cutting machine for Ecoslim 72 UP HI



MCT PL 55 PT

Gruppo frese intestatura trasversi per Ecoslim 72 UP HI

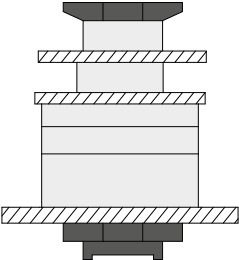
Cross-joining cutter group for for Ecoslim 72 UP HI



MCT PL 44 PT

Gruppo frese per telai serie Ecoslim 72 UP

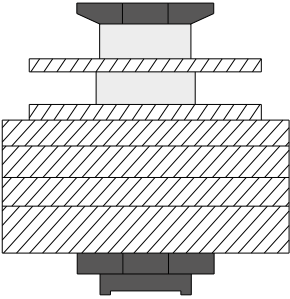
Cutting machine for Ecoslim 72 UP frames



MCT PL 47 PT

Gruppo frese per ante della Ecoslim 72 UP

Cutting machine for Ecoslim 72 UP sashes

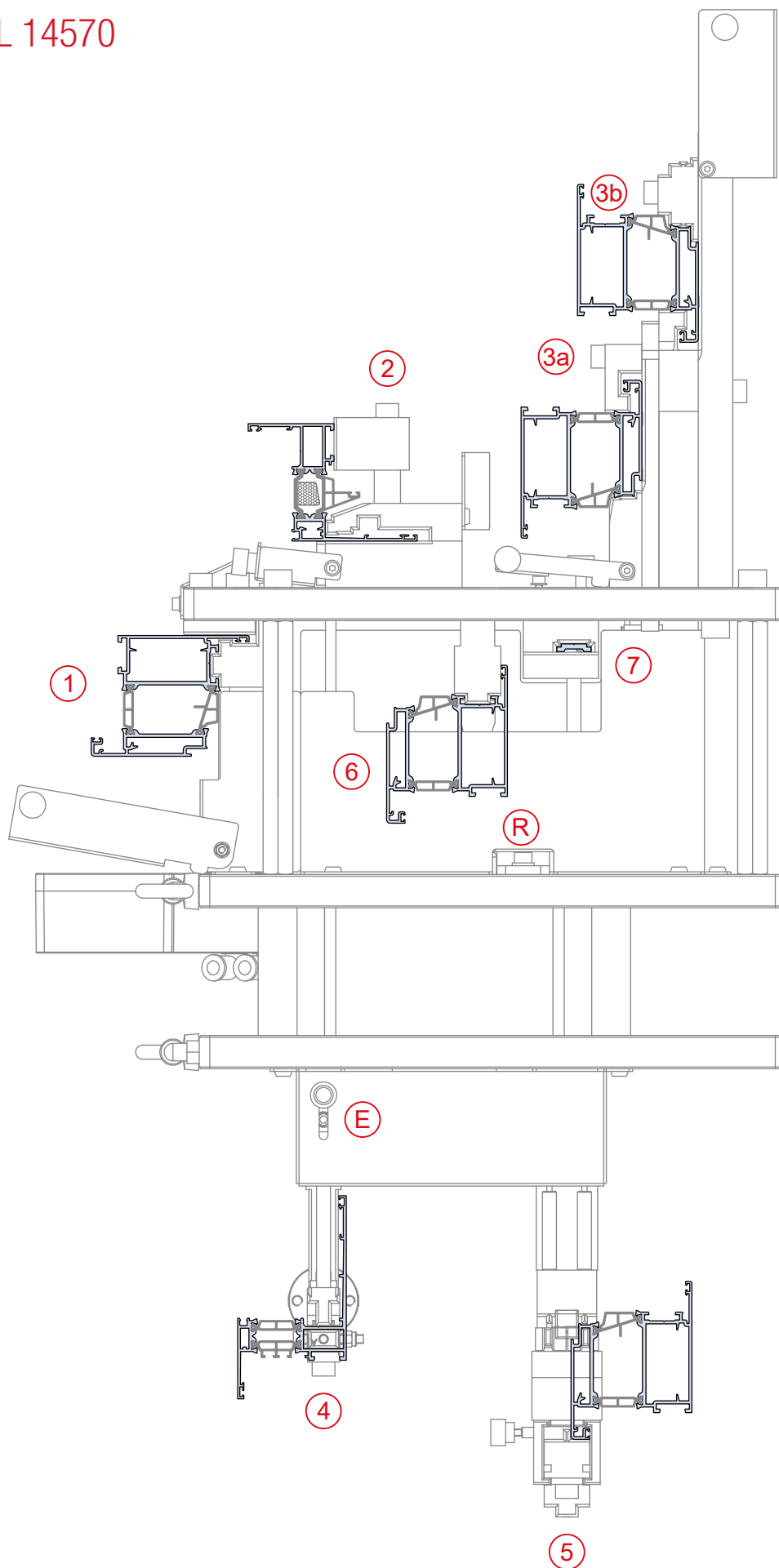


MCT PL 50 PT

Gruppo frese per lavorazione T all'italiana

Cutting machine for Ecoslim italian T

MTC PL 14570

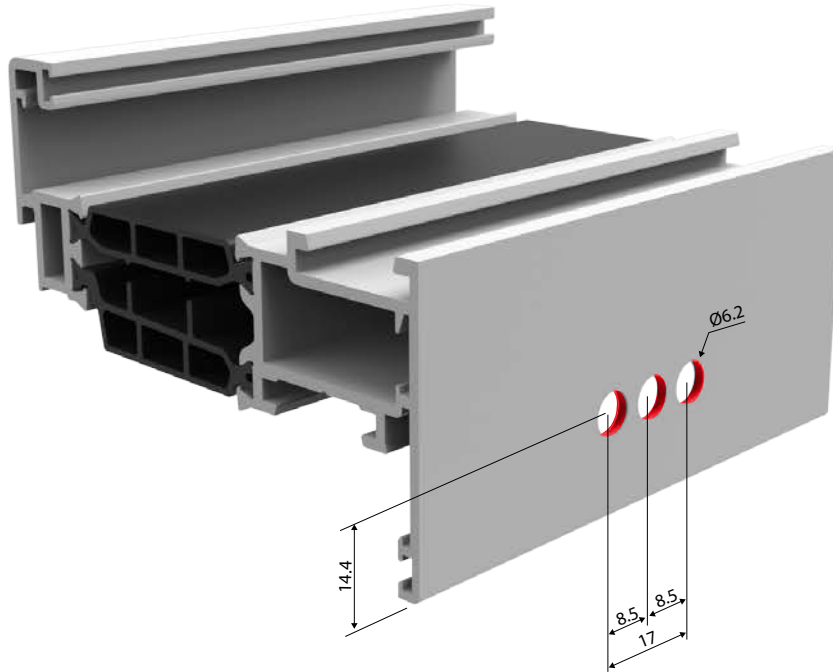


- ① Fori EXENS / EXENS holes
- ② Scarico Acqua / Drain water
- ③ Areazione anta / Sash ventilation
- ④ Asola e foro squadretta / Corner joint hole
- ⑤ Foro squadretta spinare / Corner joint hole
- ⑥ Spuntatura alette passaggio astina / Trimmings of rod passage fins
- ⑦ Foro astina / Hole for rod
- Ⓔ Esclusore / Excluder
- Ⓕ Riduttore di corsa / Reducer stroke

L1

Fori montaggio EXENS
Holes mounting EXENS

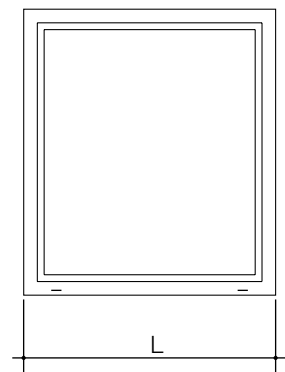
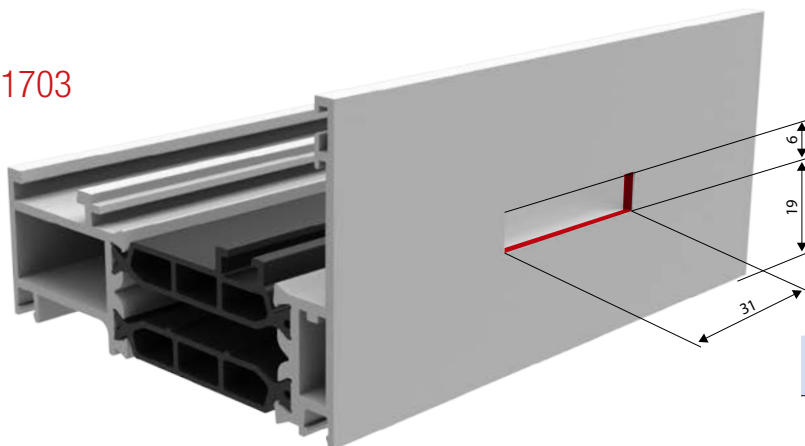
UP 11777



L2

Asola 31x6mm scarico acqua
Slot 31x6mm drain water

UP 11703



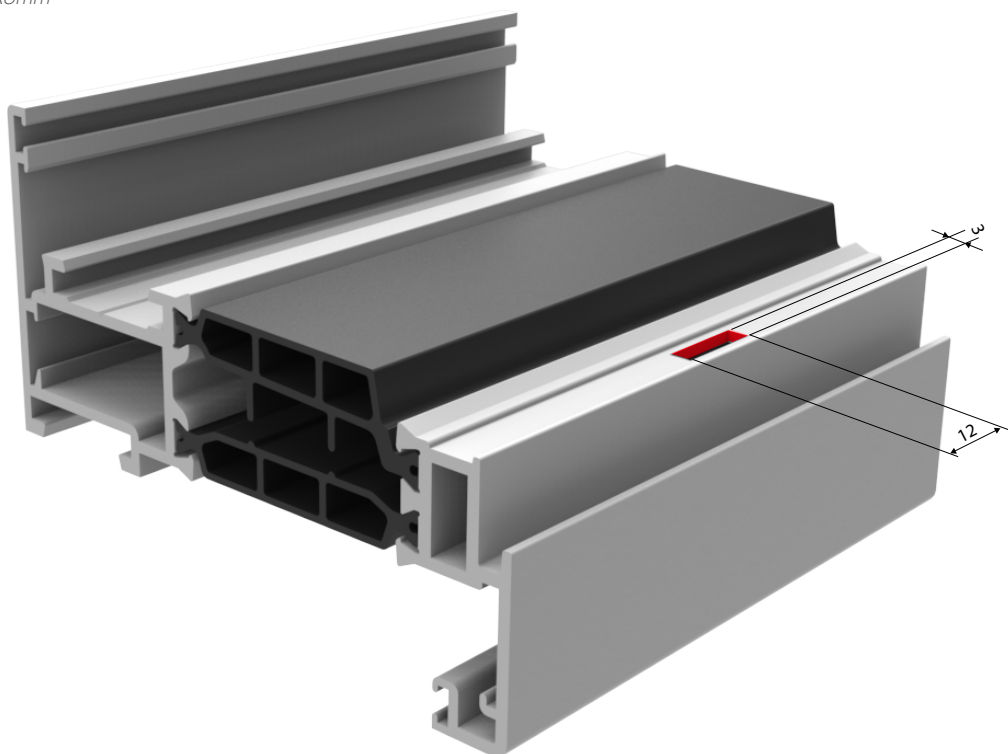
DIMENSIONI	Q.TA' DRENAGGI
fino a 1000	3
fino 1000 a 1500	4
oltre 1500m	min. 6 / 1 ogni 400mm

L3A 

Asola aerazione anta lato esterno 12x3mm

Slot for sash ventilation outside 12x3mm

UP 11777

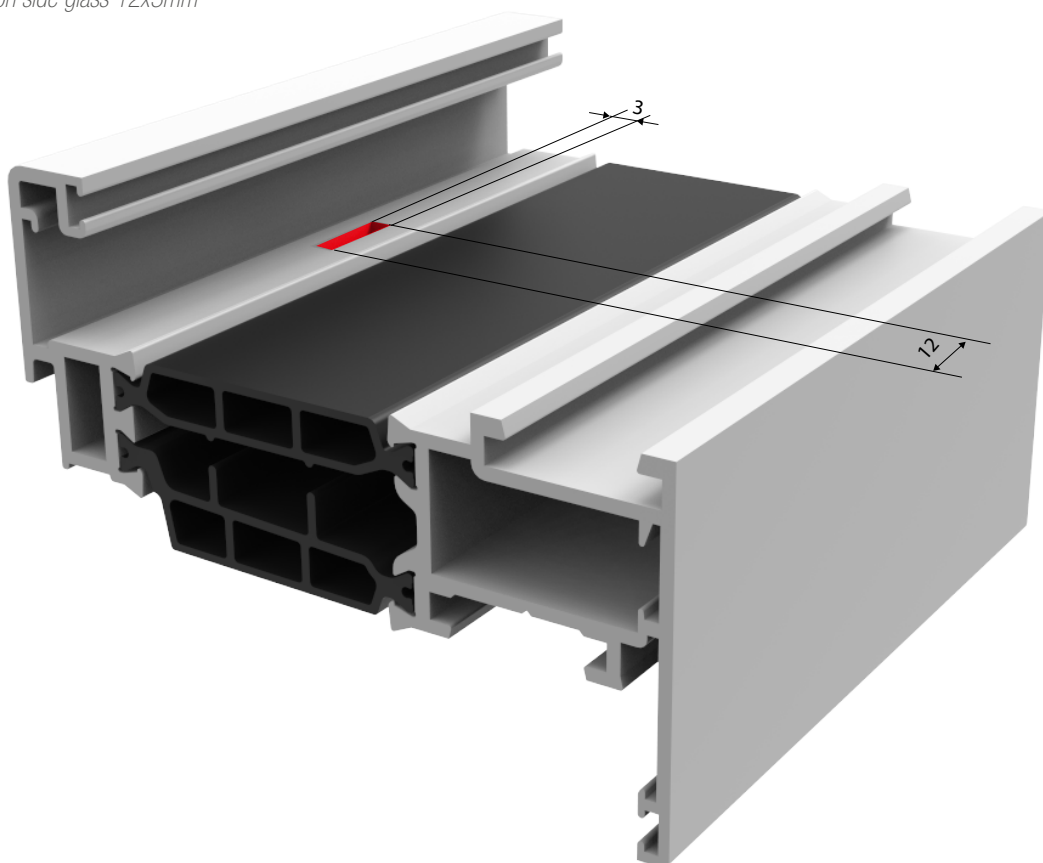


L3B 

Asola aerazione anta lato vetro 12x3mm

Slot for sash ventilation side glass 12x3mm

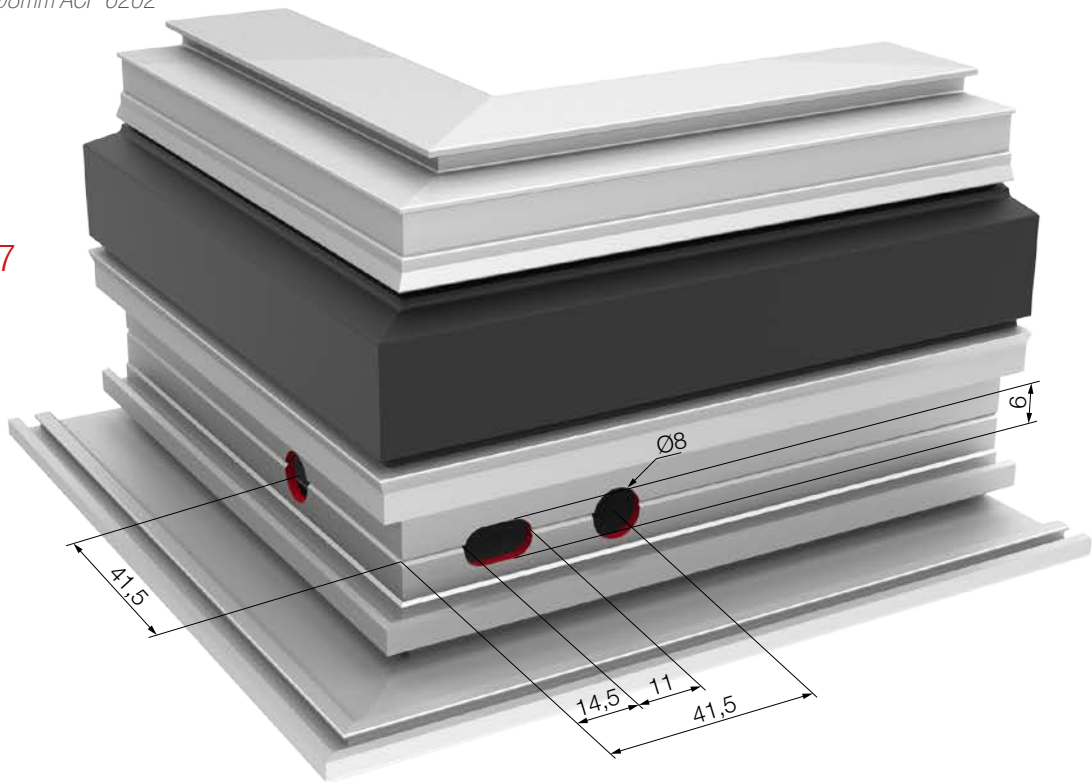
UP 11777



L4A

Foro squadretta bottone/spinare Ø8mm ACP 6202
Bracket slot/dowelling Ø8mm ACP 6202

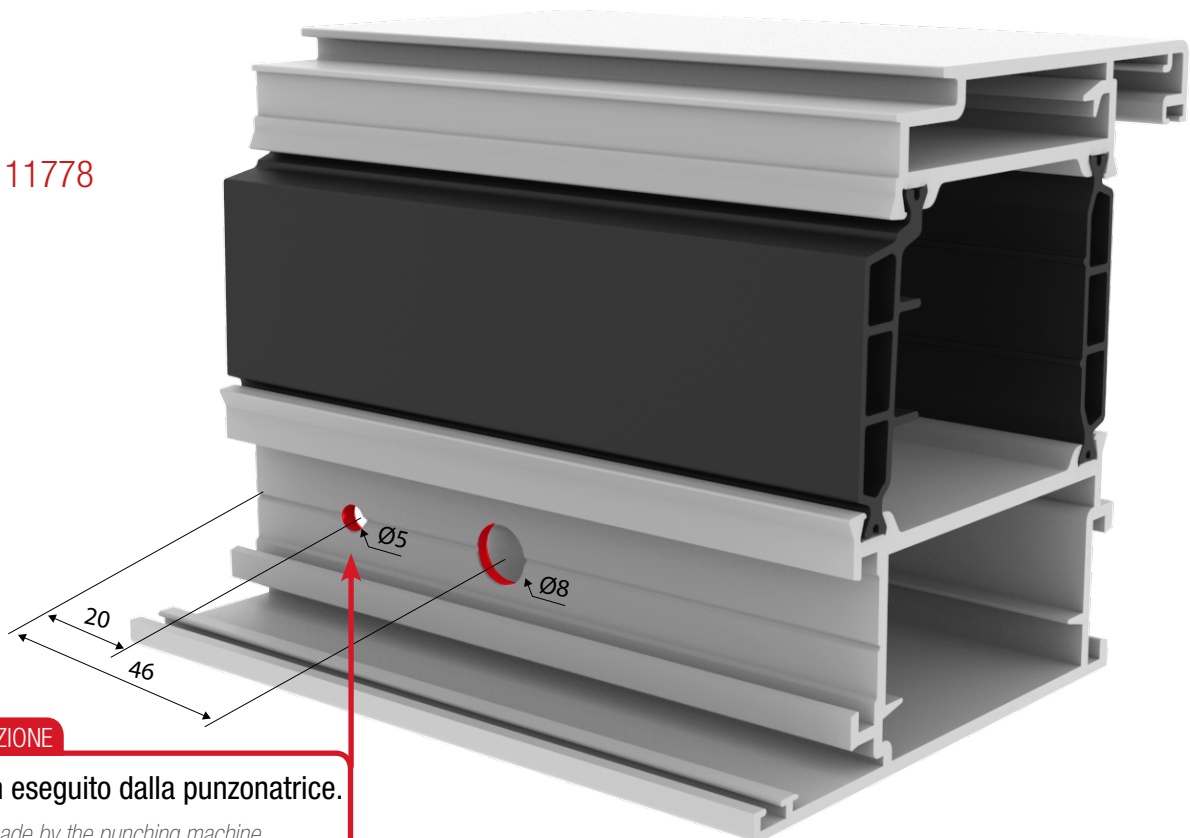
UP 11777



L4B

Foro squadretta spinare/avvitare Ø8mm ACP 7002
Bracket dowelling hole Ø8mm ACP 7002

UP 11778



ATTENZIONE

Foro non eseguito dalla punzonatrice.

Hole not made by the punching machine.

L4C

Foro squadretta spinare Ø8mm ACP 62155

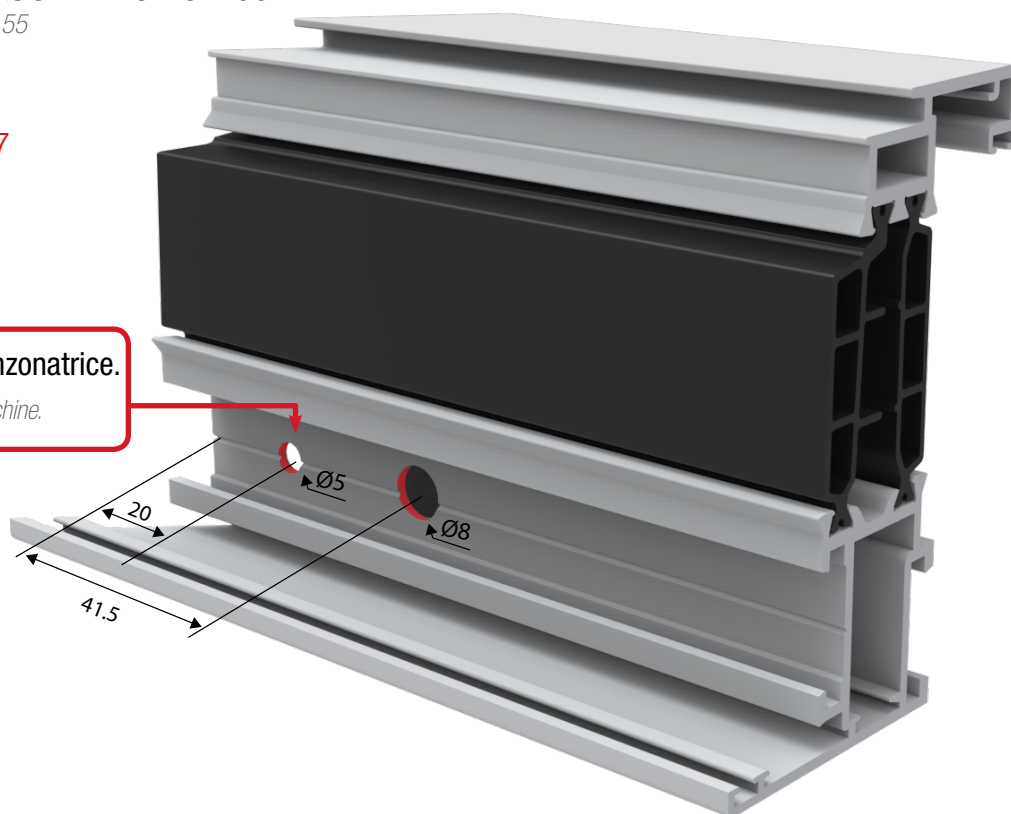
Hole for corner joint Ø8mm ACP 62155

UP 11777

ATTENZIONE

Foro non eseguito dalla punzonatrice.

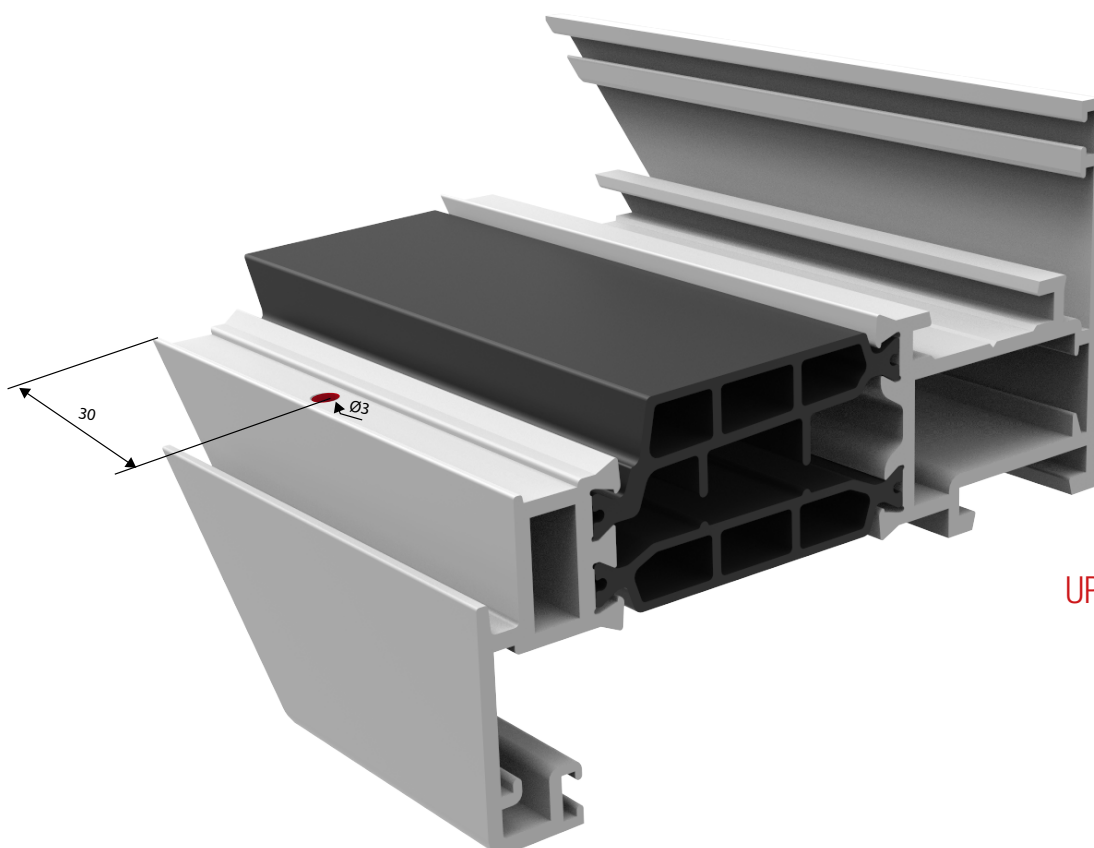
Hole not made by the punching machine.



L5

Foro squadretta spinare Ø3mm ACP 62153/ACP 62154

Slot for sash ventilation outside 12x3mm

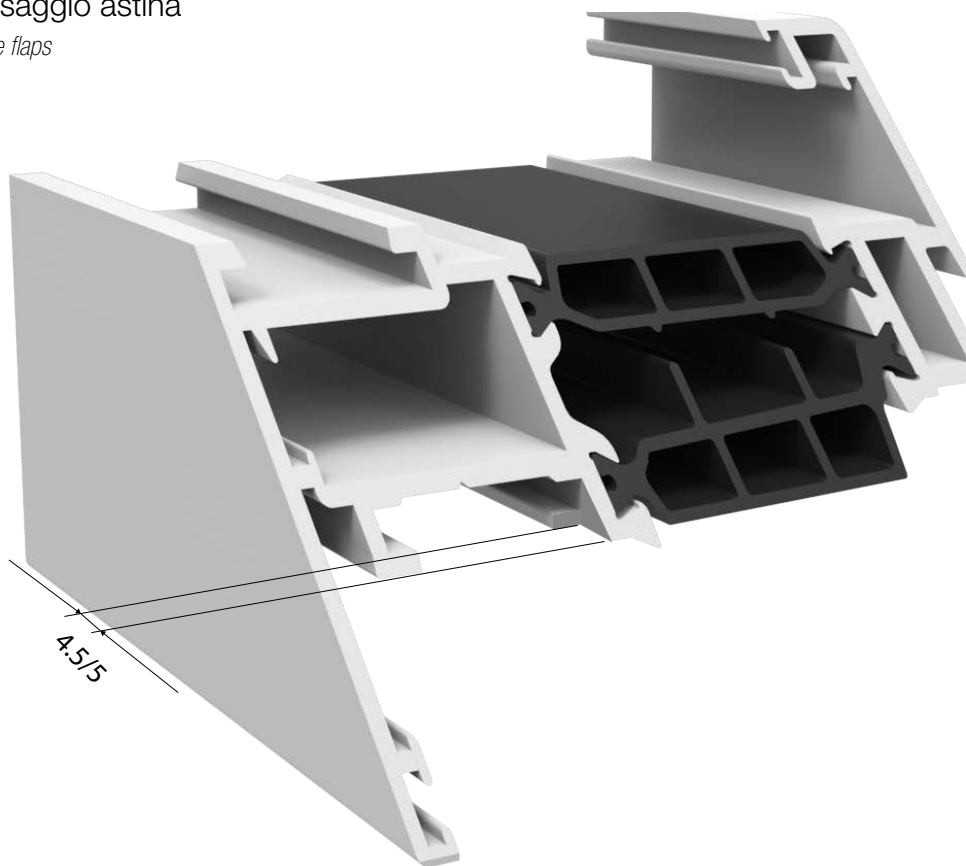


UP 11777

L6

Spuntatura alette passaggio astina

Trimming of the fore-end passage flaps

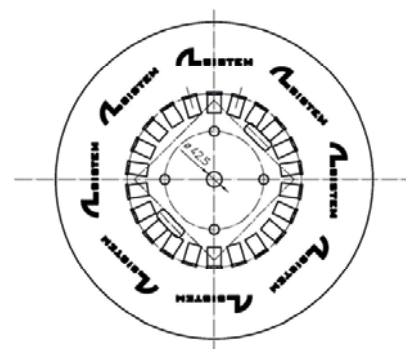
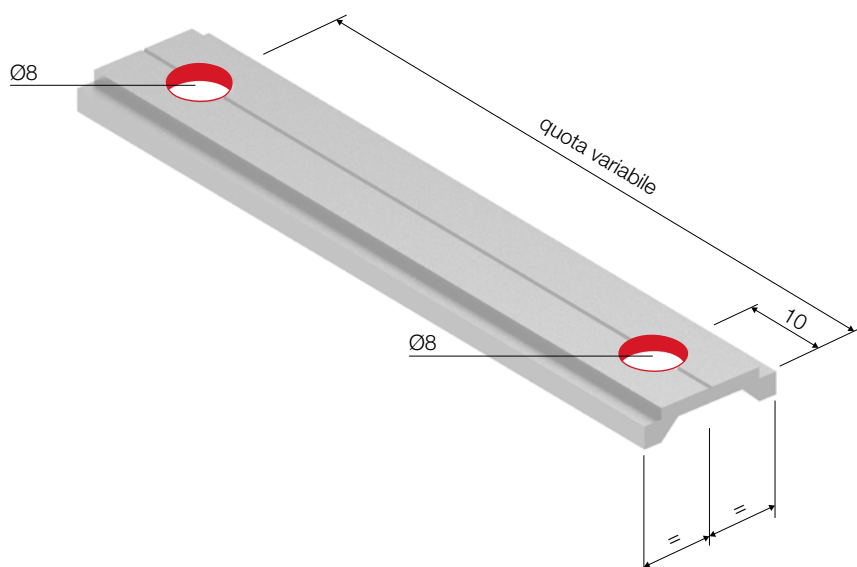


L7

Foro astina di testa Ø 8mm oppure passante

Utilizza astina in alluminio AS 1000 oppure in poliammide in bobina TAC 1000

Hole or head rod Ø 8mm or passing. Use aluminium rod AS 1000 or polyamide in TAC 1000 coil



TAC 1000

L8

Lavorazione fori per montaggio squadrette angolo variabile ACP 5503

Machining of holes to fit variable corner joint ACP 5503

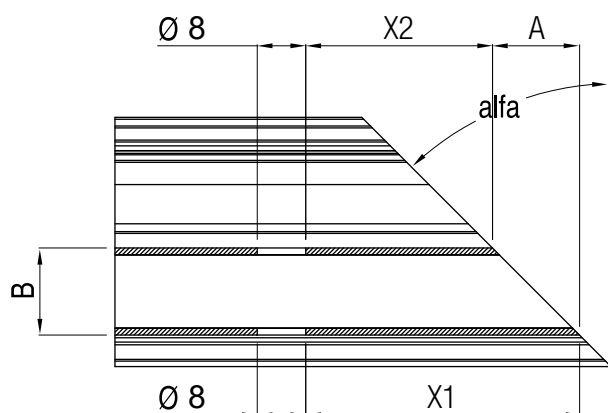


PROCEDURA PER DETERMINARE LE QUOTE DI FORATURA

- Stabilito l'angolo di taglio del profilo, misurare la quota A o determinarla in linea teorica applicando la seguente formula: $A = B \times \tan(\text{alfa})$;
- Sommare o detrarre al coefficiente C la metà della quota A (prima determinata) per ottenere la distanza do foratura X1 esterna oppure X2 per la distanza interna;
- Visto l'ampio campo di regolazione delle squadrette la misura ottenuta può essere arrotondata + o - al mm.

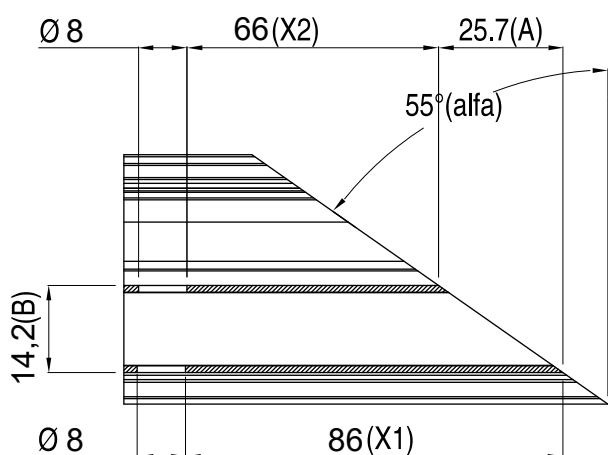
PROCEDURE FOR DETERMINING THE DRILLING DIMENSIONS

- Once the profile cut angle has been established, measure value A or determine it theoretically by applying the following formula: $A = B \times \tan(\text{alfa})$;
- Add to or subtract from the coefficient C half of value A (previously determined) to obtain the external drilling distance X1 the internal drilling distance X2;
- Given the wide range of adjustment of the brackets the measurement obtained can be rounded + 0 - to the mm.



Esempio con angolo di taglio $\text{alfa} = 55^\circ$

Example of alfa cutting angle = 55°



Angolo = alfa
 $A = B \times \tan(\text{alfa})$
 $C = 76$
 $X1 = C + (A/2)$
 $X2 = C - (A/2)$

Angle = alfa
 $A = B \times \tan(\text{alfa})$
 $C = 76$
 $X1 = C + (A/2)$
 $X2 = C - (A/2)$

Angolo = 55°
 $A = 14.2 \times (\tan \text{ di } 55)$
 $C = 76$ (art.0969.10/8/20)
 $X1 = 76 + (20.28/2) \approx 86.14$
 $X = 65 - (20.28/2) \approx 65.86$
 arrotondare
 $X1 = 86$
 $X2 = 66$

Angle = 55°
 $A = 14.2 \times (\tan \text{ di } 55)$
 $C = 76$ (art.0969.10/8/20)
 $X1 = 76 + (20.28/2) \approx 86.14$
 $X2 = 76 - (20.28/2) \approx 65.86$
 round up/down
 $X1 = 86$
 $X2 = 66$

L9 

Lavorazione montaggio meccanismo martellina ACP 5198 e ACP 5199N

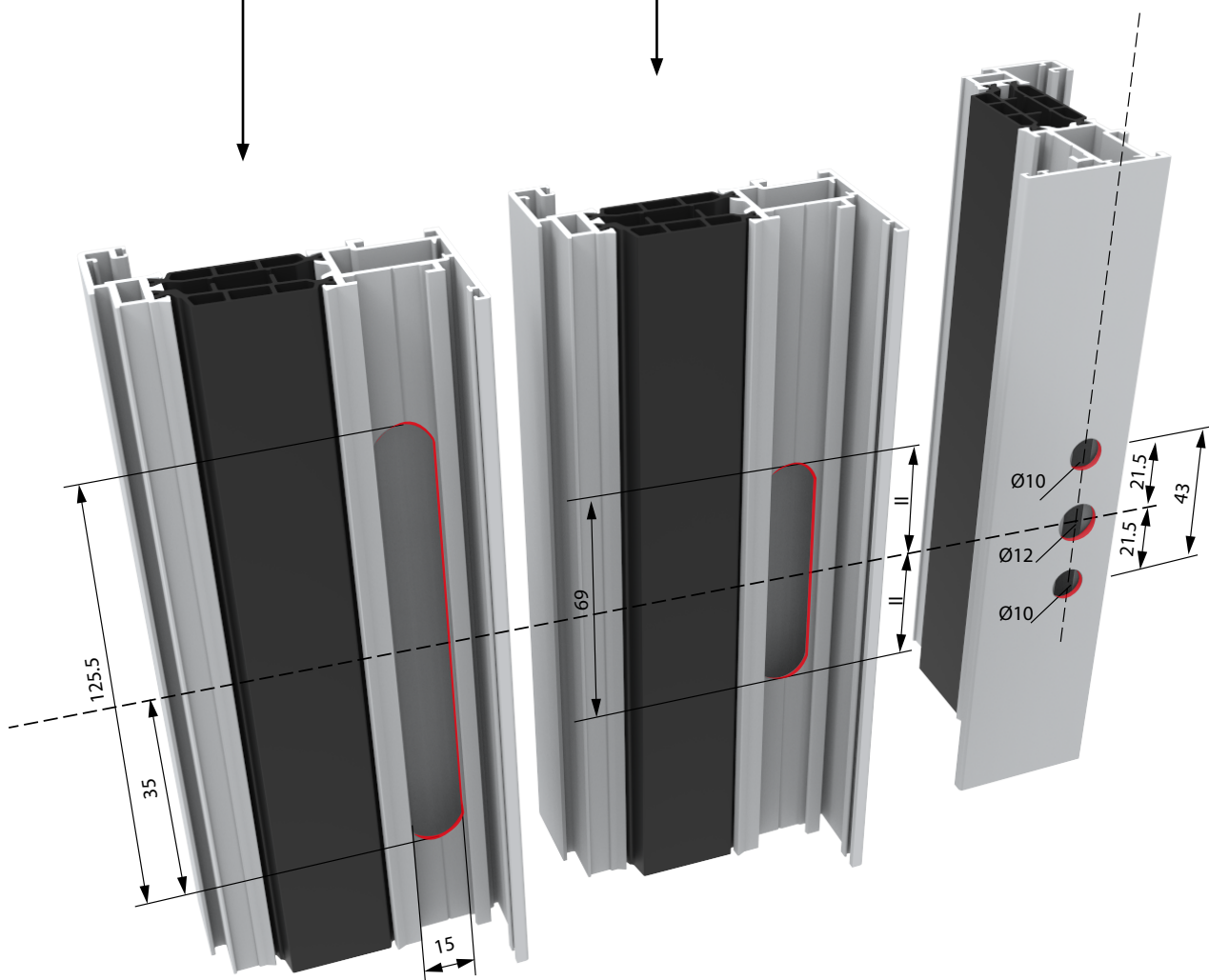
Machining of Martellina mechanism assembly ACP 5198 and ACP 5199N



ACP 5199N BIDIREZIONALE



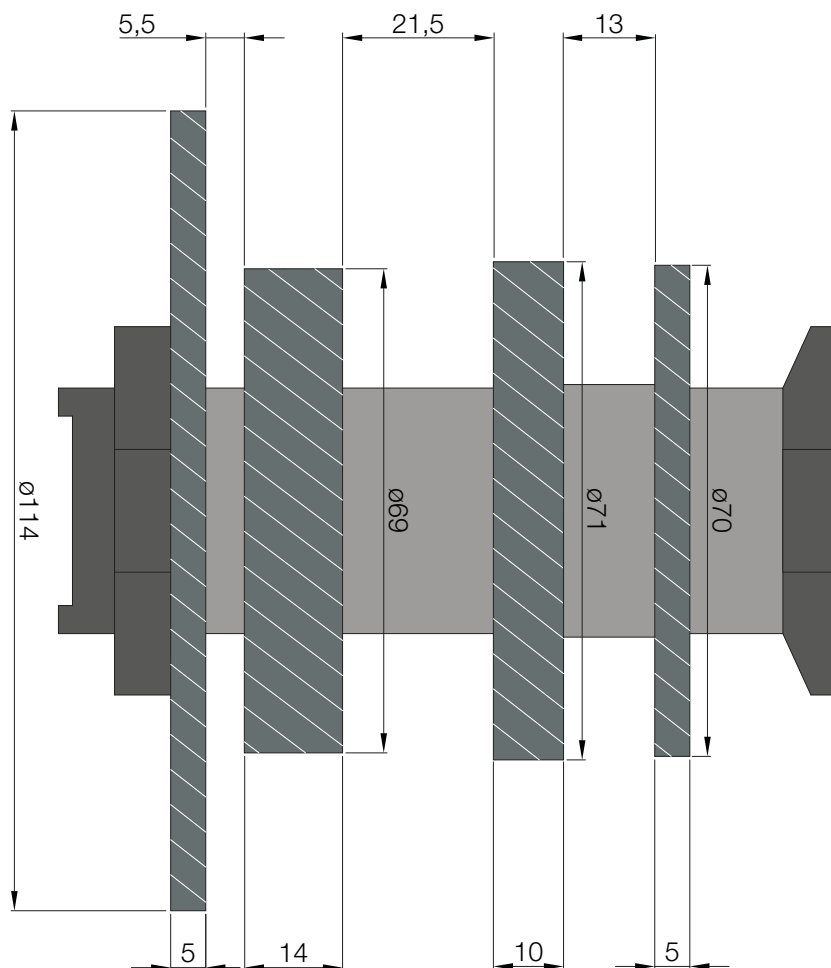
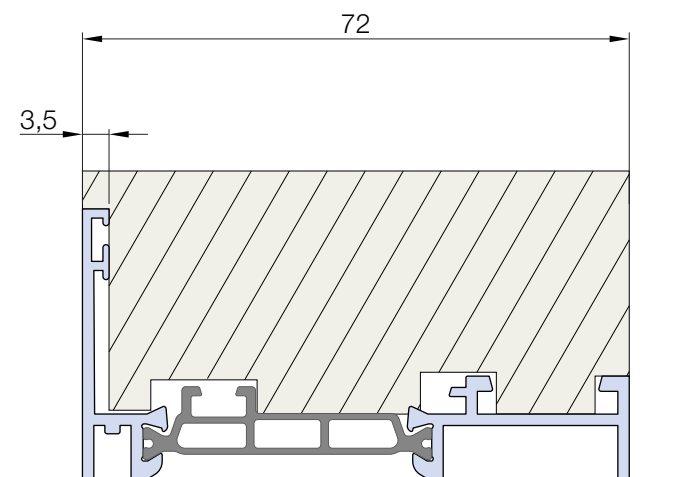
ACP 5198 MONODIREZIONALE



L10

Gruppo frese MCT PL 44 PT

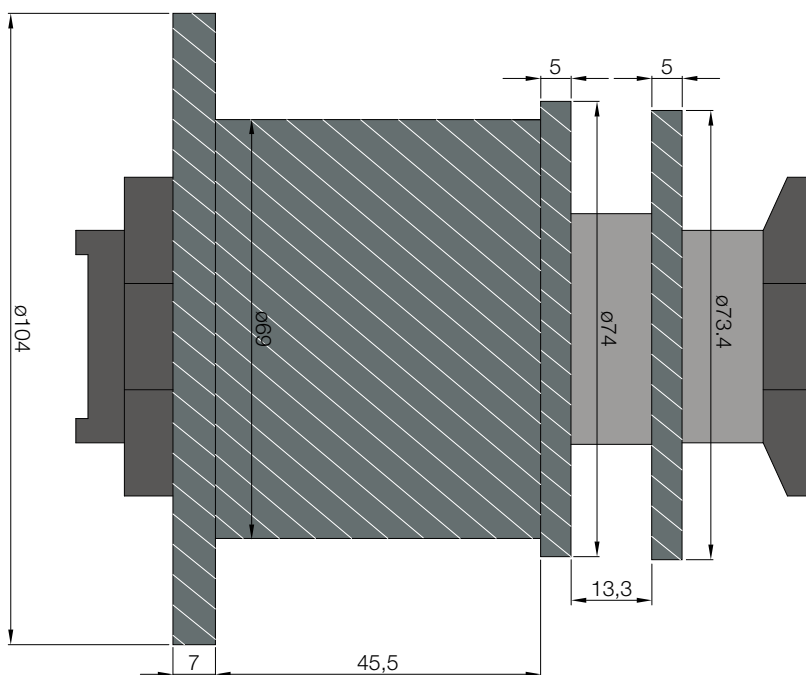
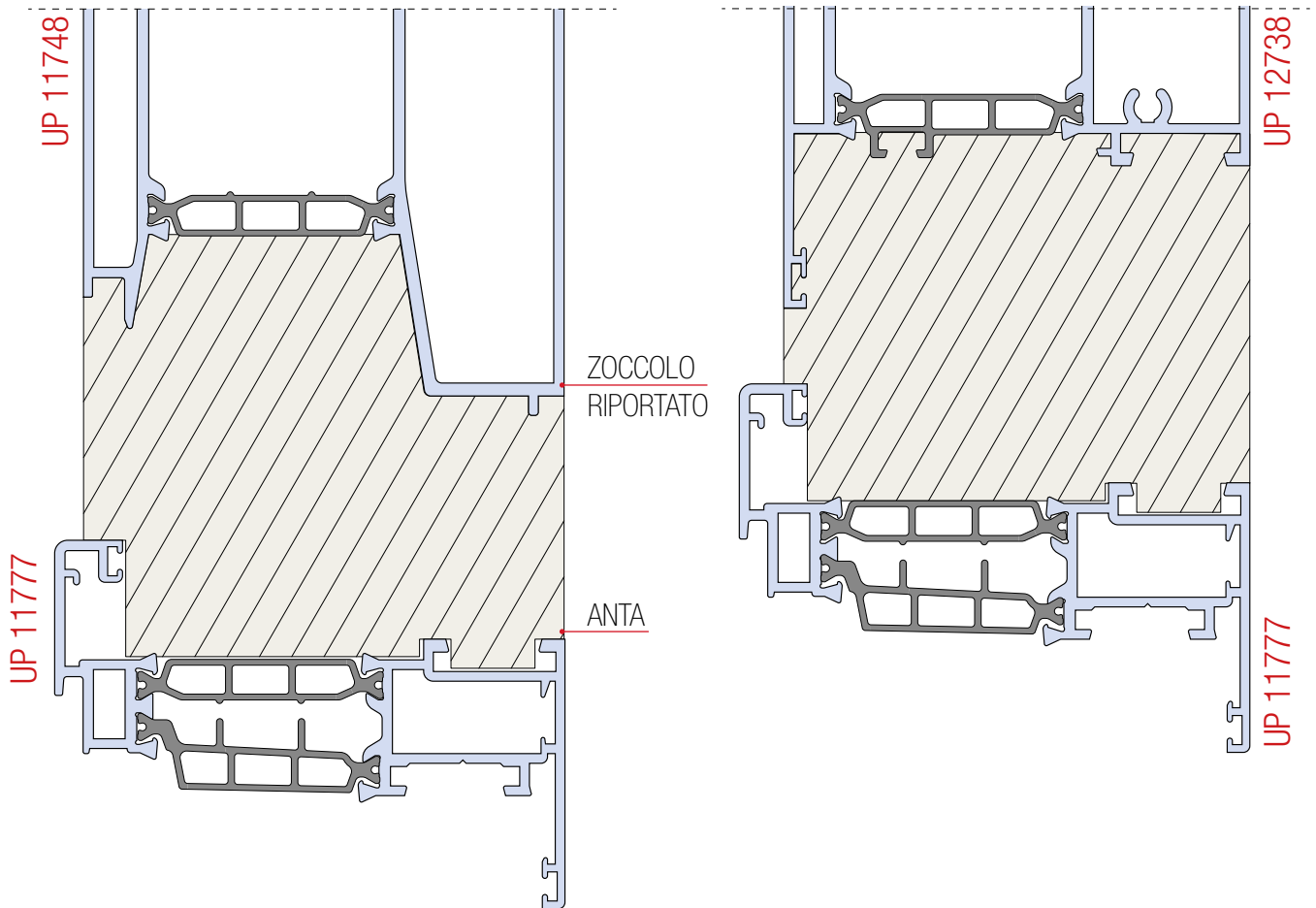
MCT PL 44 PT tool



L11 

Gruppo frese MCT PL 47 PT

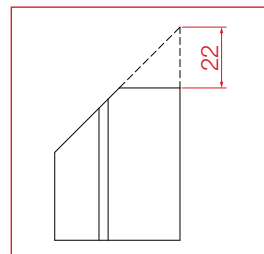
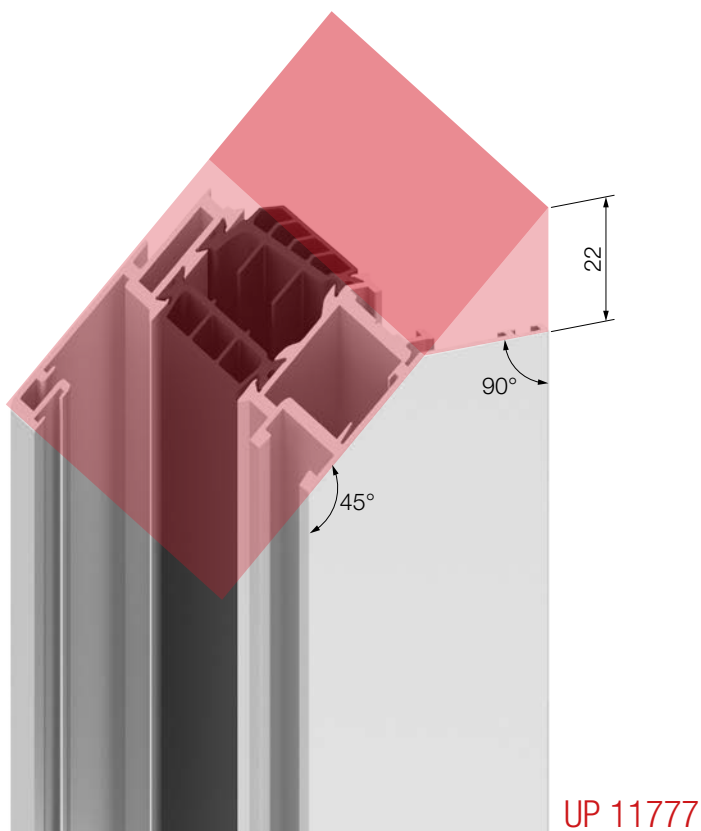
MCT PL 47 PT tool



L12

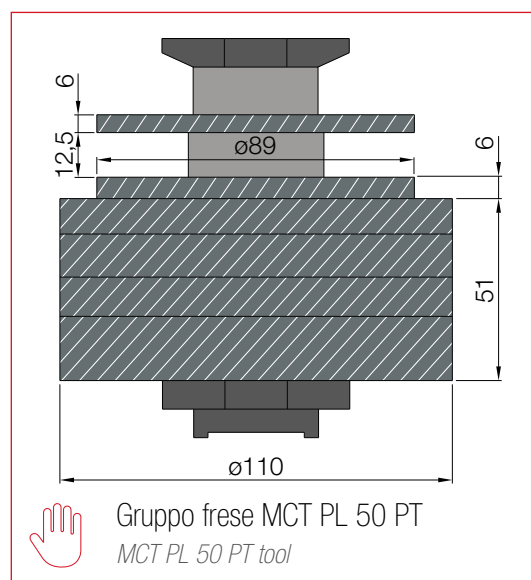
Lavorazione sui profili UP 11777 e UP 11714 per applicazione tappi ACP 72686

Working profiles UP 11777 and UP 11714 application cap ACP 72686



Dopo aver tagliato a 45° il profilo anta occorre spuntare il profilo come indicato in figura.

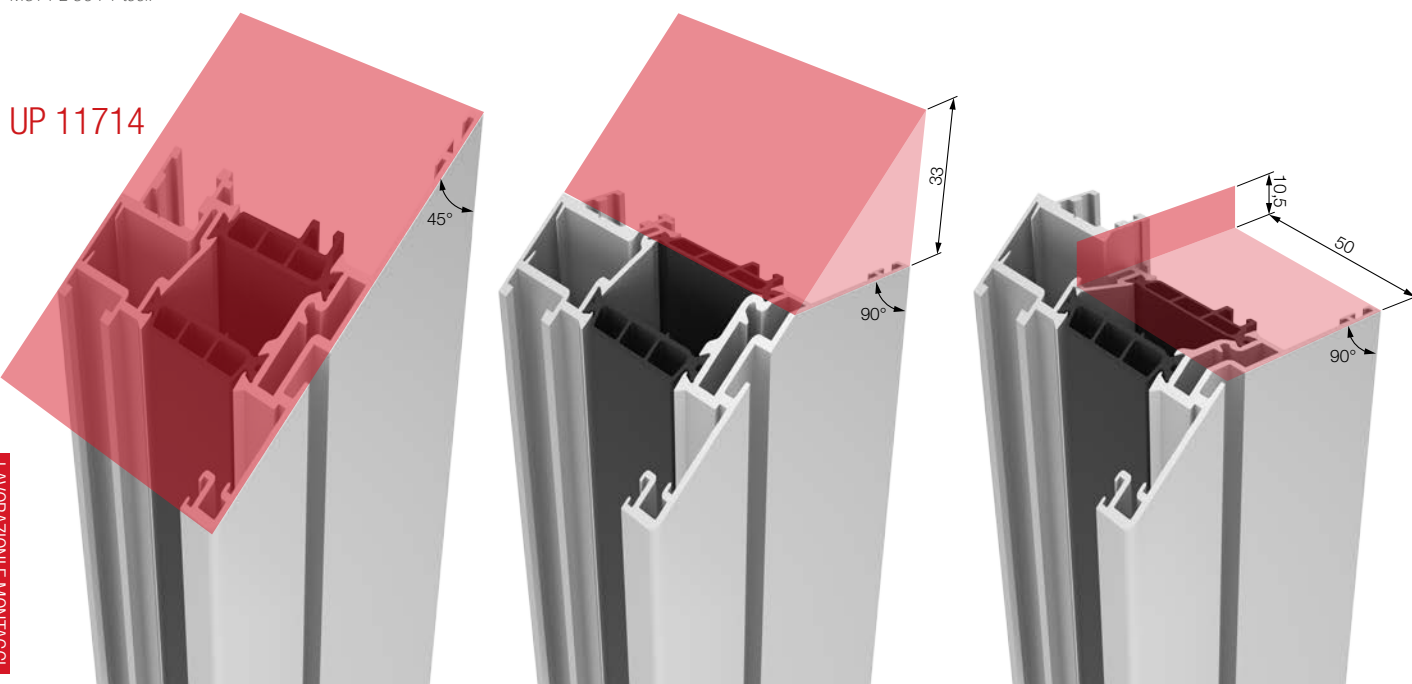
After cutting at 45° the sash profile it must be milled to 90° as indicated in figure.



Dopo aver tagliato a 45° il profilo T-italiana ed averlo spuntato come indicato in figura occorre fresare a 90° per una profondità di 50mm e con un H di 10,5mm. Per eseguire tale lavorazione è possibile utilizzare il gruppo frese.

MCT PL 50 PT

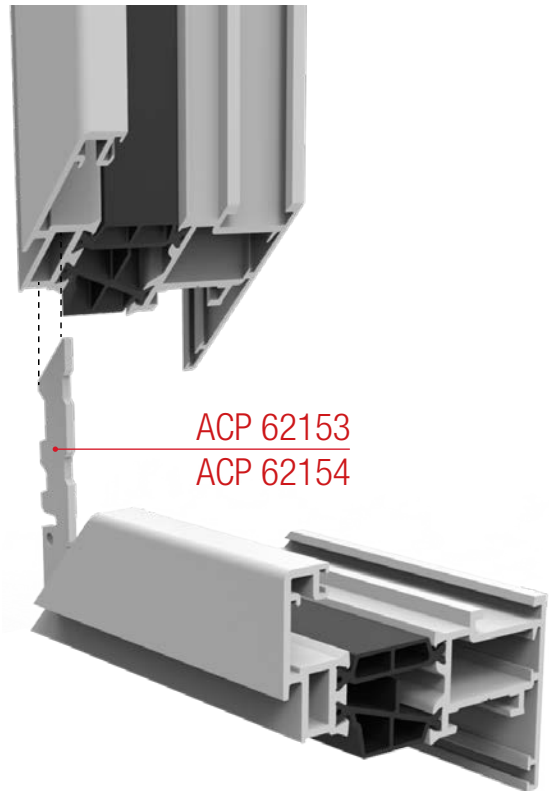
After cutting at 45° the sash profile it must be milled to 90° as indicated in figure. Used MCT PL 50 PT tool.



M1

Applicazione squadretta ACP 62153 - ACP 62154

ACP 62153 - ACP 62154 bracket assembly



- 1 Forare come da LAVORAZIONE L5.
Spinare tramite spina ACP 5030, con l'utilizzo di un martello, ed asportare il manico.

*Drill as per OPERATION L5.
Broaching using pin ACP 5030 and broken handle with hammer.*



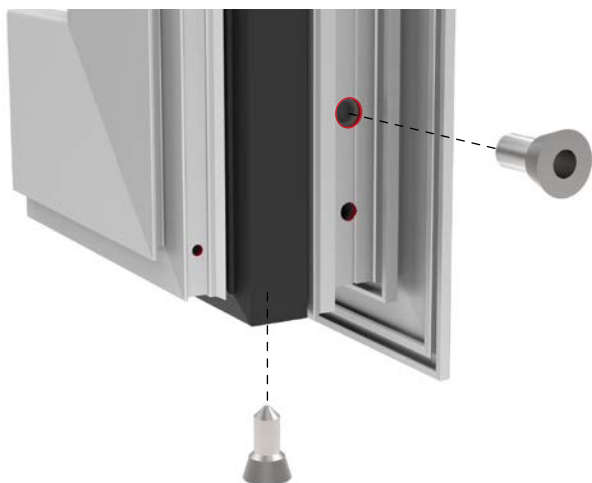
- 2 Oppure:
cianfrinare tramite l'apposito kit.

Crimping using appropriate kit.

M2

Applicazione squadretta ACP 7002

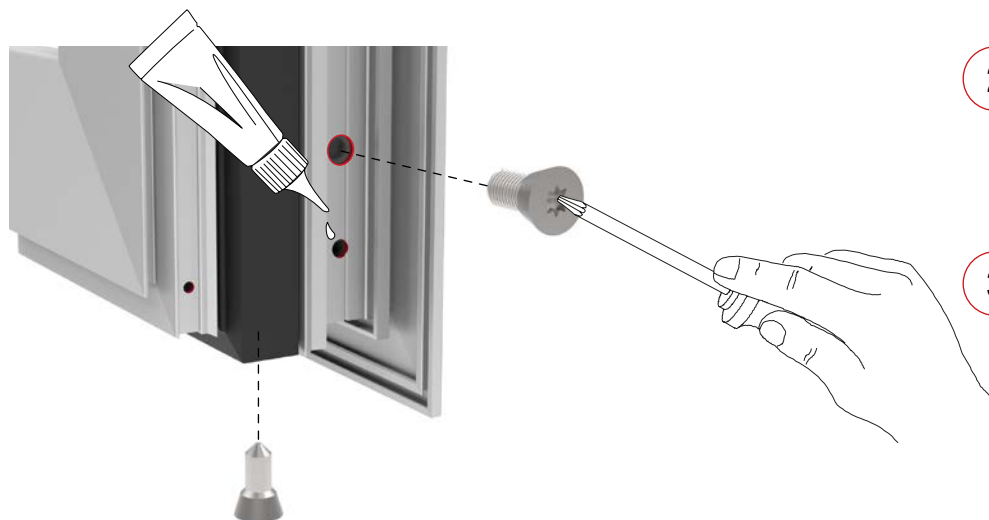
ACP 7002 bracket assembly



1

Dopo aver effettuato la LAVORAZIONE L4B, spinare tramite spinatrice o spinocianfrinatrice utilizzando la spina ACP 5800.

After OPERATION L4B, crimping using ACP 5800.



2

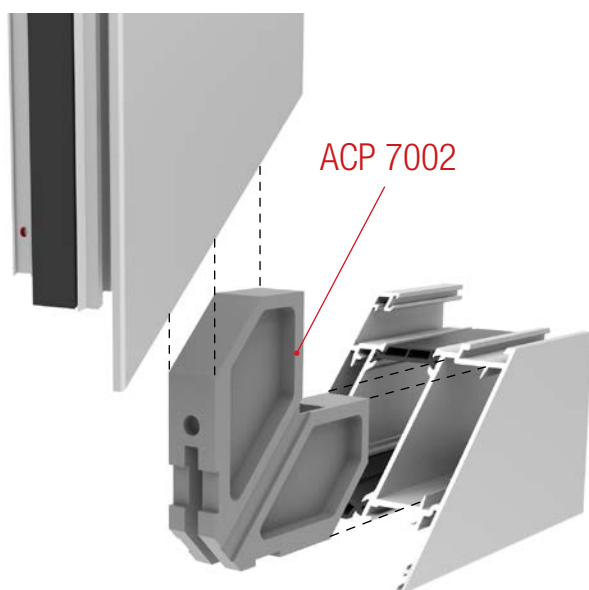
Dopo aver chiuso l'angolo, inserire la colla tramite l'apposito foro.

After closing using glue to stick.

3

Dopo aver effettuato la LAVORAZIONE L4B, avvitare la vite ACP 5001.

After OPERATION L4B, screw down using ACP 5001.



4

Cianfrinare tramite l'apposito kit.

Crimping using appropriate kit.

M3

Iniettare la colla AGP 5058, anche nella squadretta interna ACP 62155, attraverso il foro preposto, fino al riempimento di tutte le cavità dell'angolo interno.

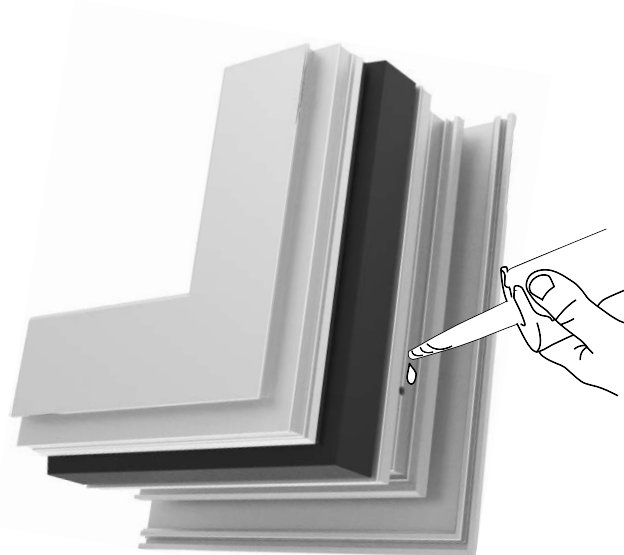
Inject the AGP 5058 glue, also into the ACP 62155 internal bracket, through the hole provided, until all the cavities of the internal corner are filled.



ALSISTEM consiglia...

l'utilizzo della colla bicomponente AGP 5058 per garantire una maggior tenuta e velocizzare la solidificazione dell'angolo.

the use of two-component glue AGP 5058 to ensure greater sealing and speed up the solidification of the corner.



M4

Sigillare i profili: prima di chiudere l'angolo, sigillare le superfici di contatto dei profili tagliati, utilizzando l'apposita sigillatrice MCT PL TKE259.

Sealing the profiles: before closing the corner, seal the contact surfaces of the cut profiles, using the appropriate sealer MCT PL TKE259.



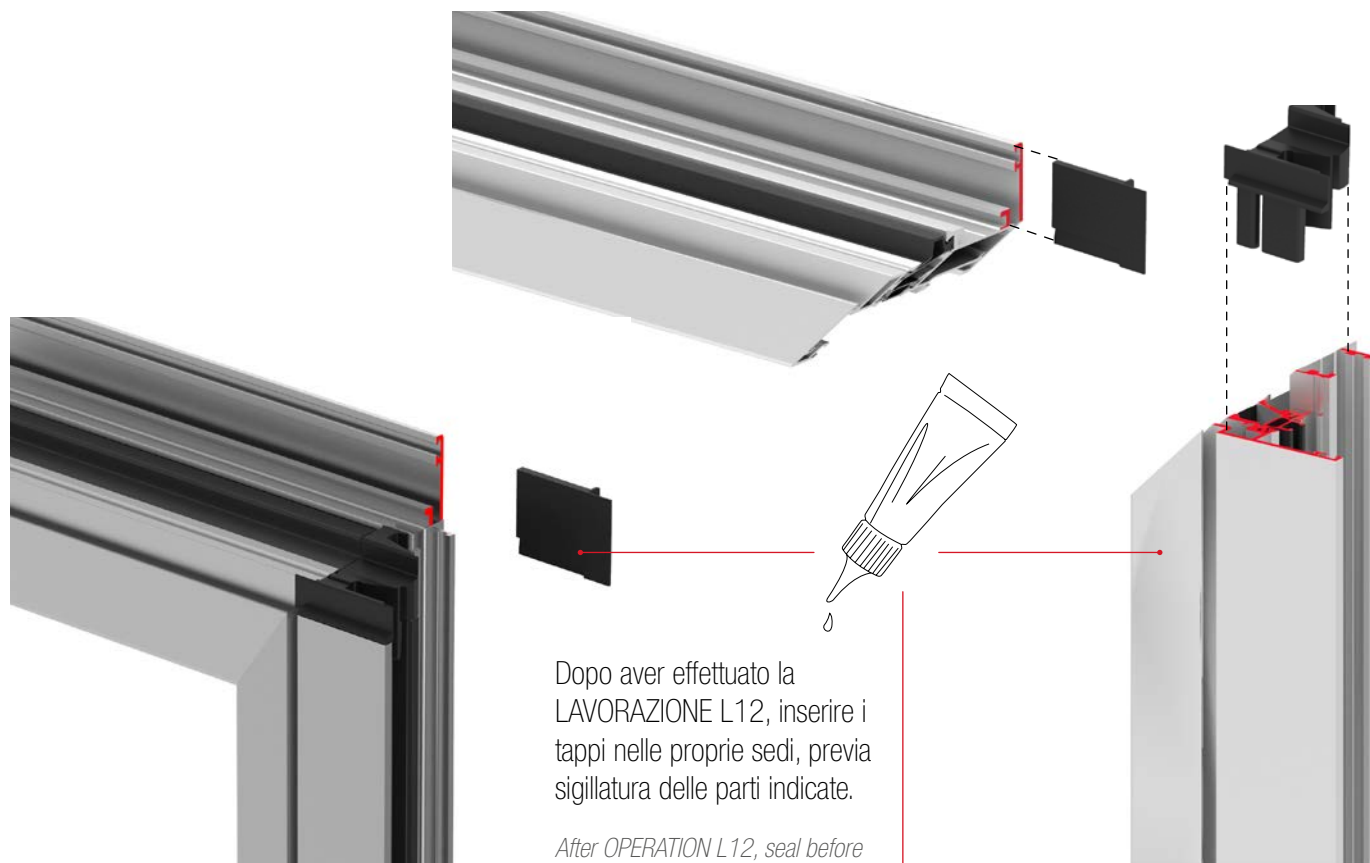
Sigillatrice d'angoli automatica



M5

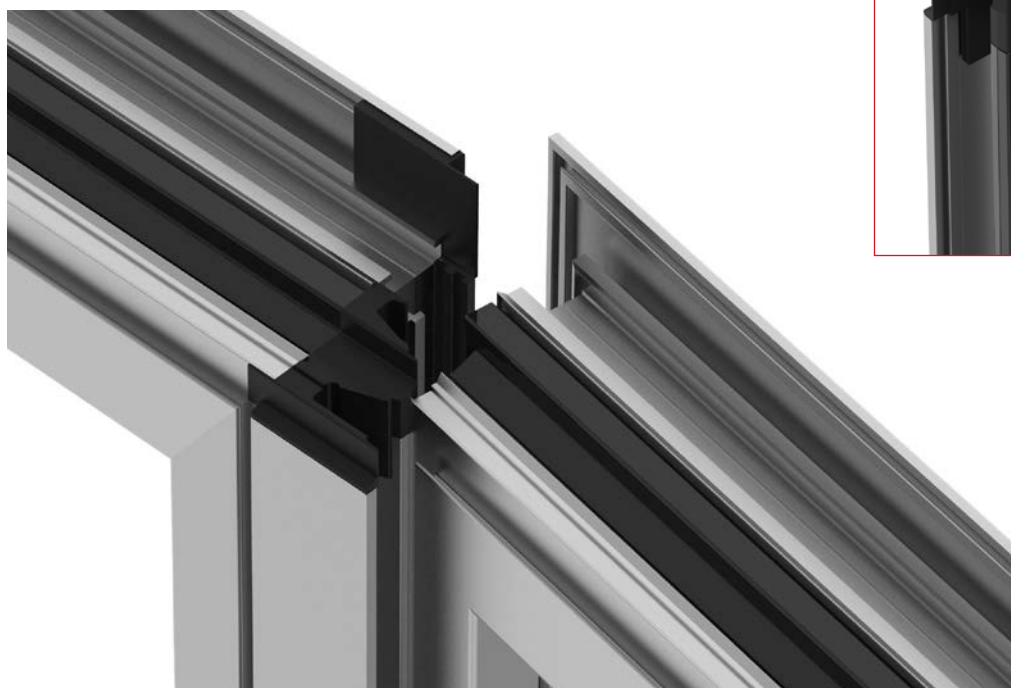
Applicazione tappi ACP 72686

ACP 72686 cap assembly



Dopo aver effettuato la LAVORAZIONE L12, inserire i tappi nelle proprie sedi, previa sigillatura delle parti indicate.

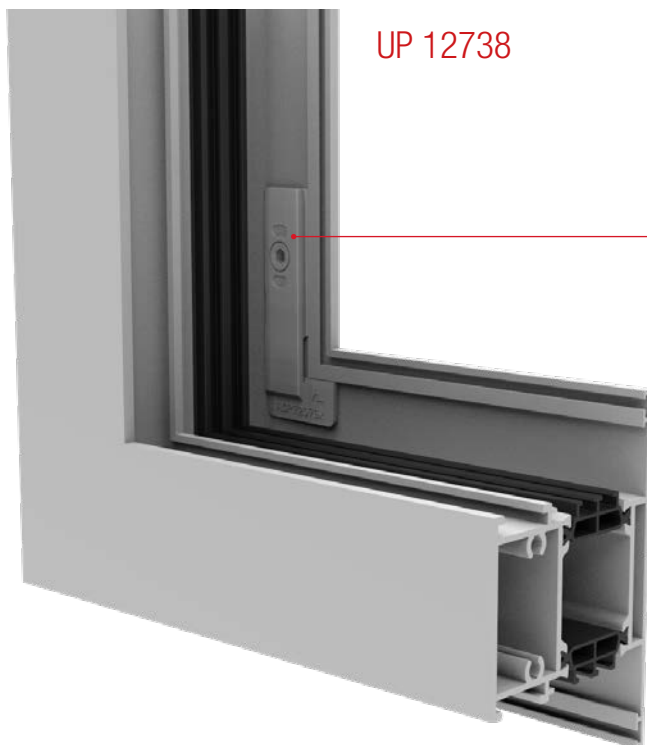
After OPERATION L12, seal before insert the plugs marked locations.



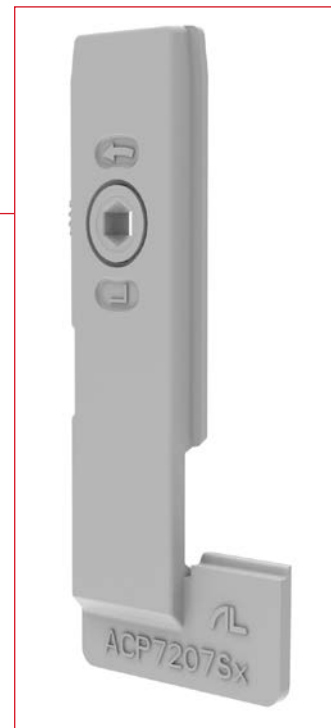
M6

Applicazione cavallotti esterni ACP 7207

ACP 7207 assembly



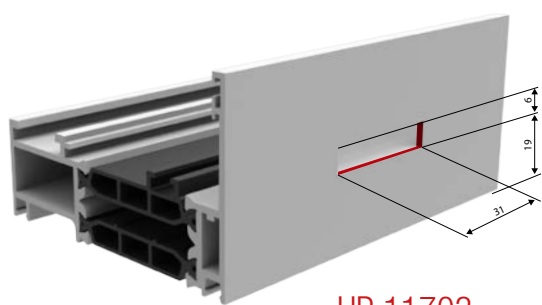
UP 12738



M7

Applicazione cappetta di drenaggio ACP 50128 / ACP 50128C

ACP 50128 / ACP 50128C caps assembly



UP 11703



1



2



3

ACP 50128
Nylon



ACP 50128C
Alluminio



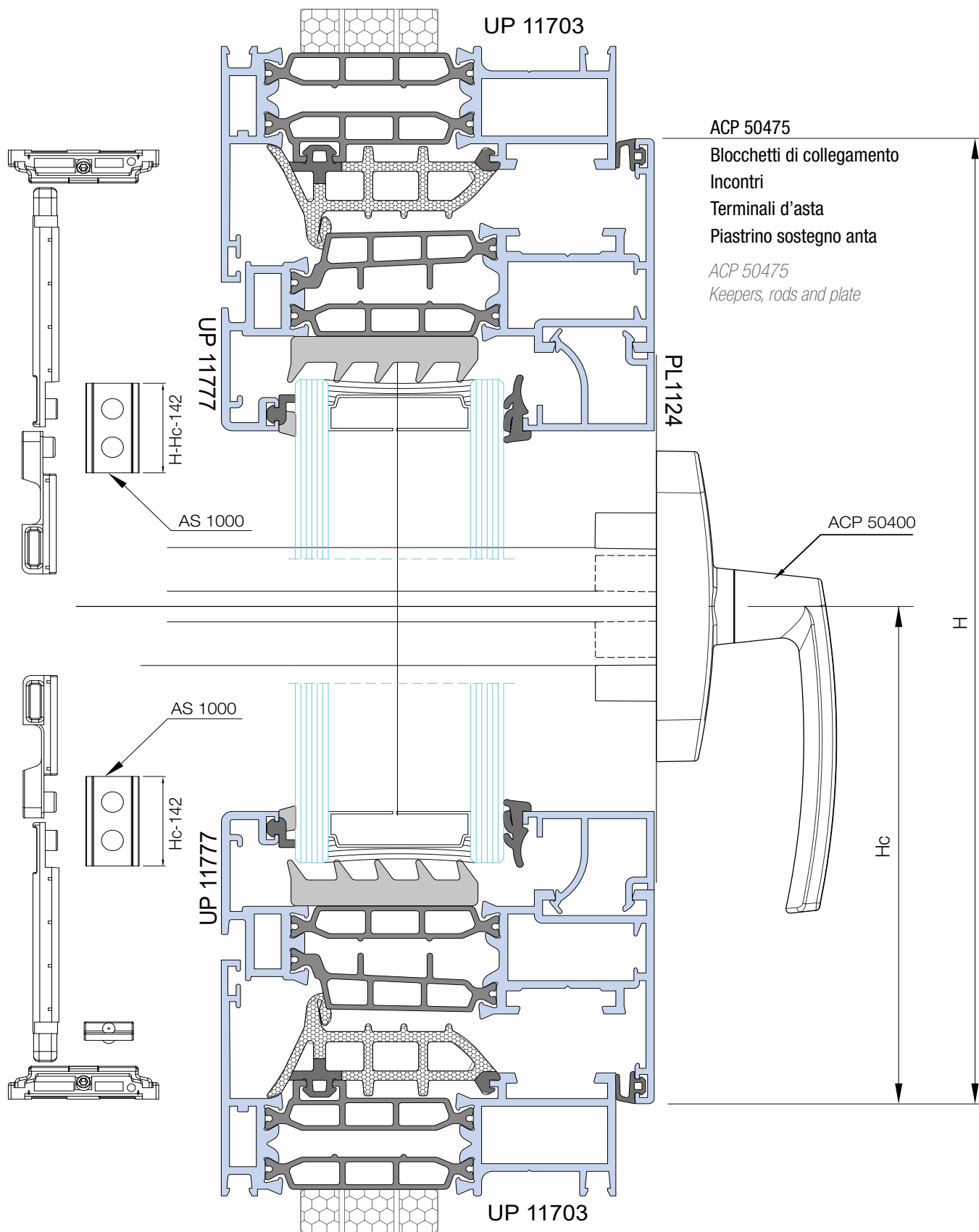
Dopo aver effettuato la LAVORAZIONE L2, inserire la cappetta in nylon e la cover di alluminio in tinta col profilo.

After OPERATION L2, insert nylon cup and cover in aluminium.

M8

Lavorazione taglio astina per kit ACP 50475

Sash closure rod cutting for ACP 50475



M9

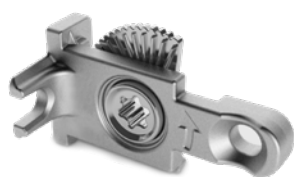
Applicazione cavallotto ACP 50425 cava fermavetro
Application U-bolt ACP 50425 glazing bead slot

Per l'applicazione del cavallotto cava fermavetro è necessario implementare la lavorazione effettuata con il Gruppo frese MCT PL 44 PT.

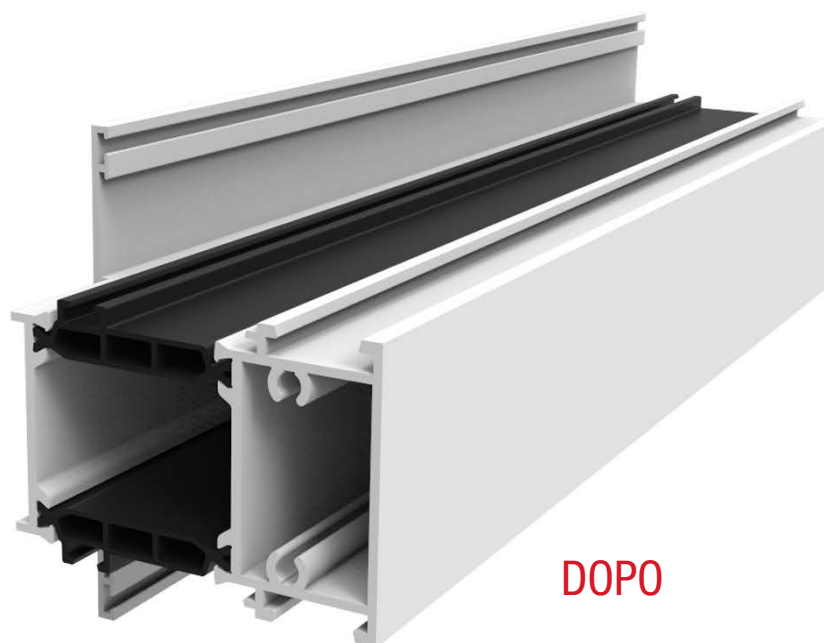
For the application of the glazing bead hollow U-bolt it is necessary to implement the processing carried out with the cutter group MCT PL 44 PT.

Asportare le Alette per la profondità di 4,5mm per montare il Cavallotto ACP 50425

Remove the fins for the 4.5mm depth to mount the ACP 50425 U-bolt



ACP 50425



M10

Montaggio profilo per Inglesina UP 11738 Profile assembly for Georgian Bar UP 11738

Per il fissaggio dei profili per inglesina all'anta si consiglia di utilizzare 4 cavallotti ACP 50425 (con eccentrico di tiraggio); con questo accessorio è possibile realizzare anche giunti a croce. Laddove è possibile (ad esempio montaggi sequenziali o periferici) si possono utilizzare viti di tiraggio tramite l'occhione presente sul profilo (fissaggi periferici).

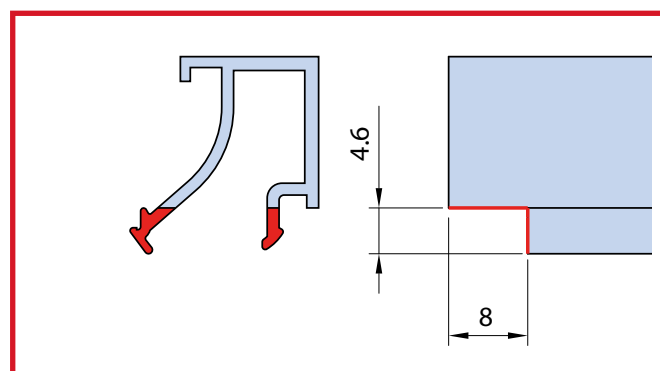
To fix the Georgian Bar profile of the sash it is recommended to use 4 U-bolts ACP 50425 (with draft eccentric); with this accessory it is also possible to make cross joints. Where possible (e.g. sequential or peripheral assemblies) tension screws can be used through the eye on the profile (peripheral fastenings).

L'unica operazione necessaria, oltre all'intestatura del profilo UP 11638 (possibile con i gruppi frese *) è la rifilatura dei traversi dei fermavetro (vedi sotto) per evitare le interferenze con i cavallotti.

*The only operation required, in addition to trimming the UP 11638 profile (possible with the cutter units *) is trimming the crosspieces of the glass beads (see below) to avoid interference with the U-bolts.*

* MCT PL 37 PT per telai
MCT PL 47 PT per ante

LAVORAZIONE PROFILI FERMAVETRO



Si consiglia inoltre, per rendere perfettamente coplanare l'inglesina con i montanti, di utilizzare una guarnizione vetro interna che eserciti una buona pressione sul vetro.

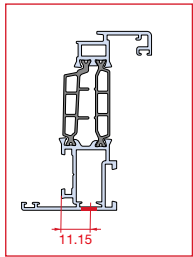
In order to make the profile perfectly coplanar with the Georgian Bar, it is also advisable to use an internal glass seal which exerts good pressure on the glass.



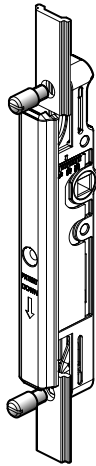
M11

Applicazione martellina ACP 50552

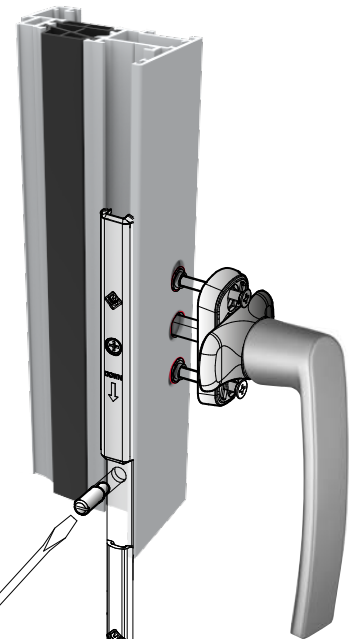
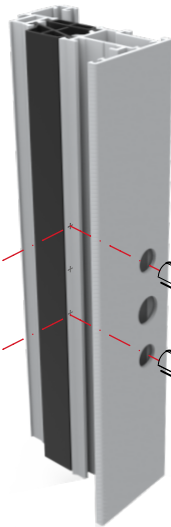
ACP 50552 application



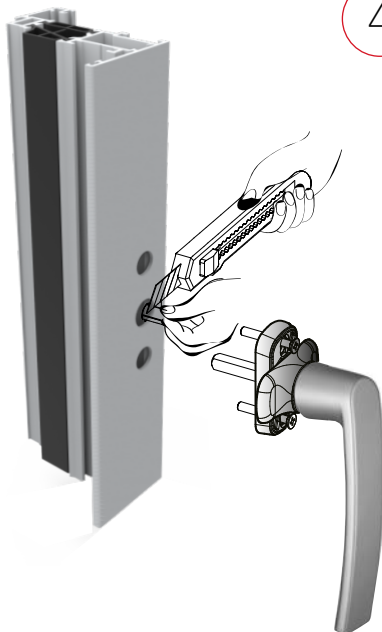
1 Inserire il meccanismo nell'apposita sede
Insert the mechanism into its seat



2 Abbinare l'astina e fissare con i perni di collegamento
Match the rod and secure with connecting pins



3 Tagliare a misura i distanziali plastici
Cut to size plastic spacers



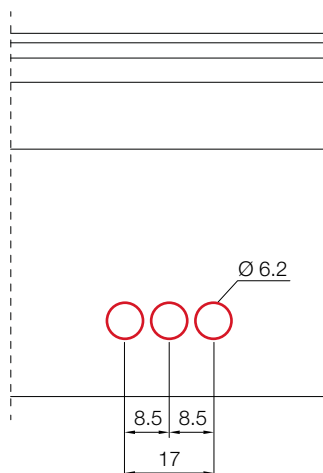
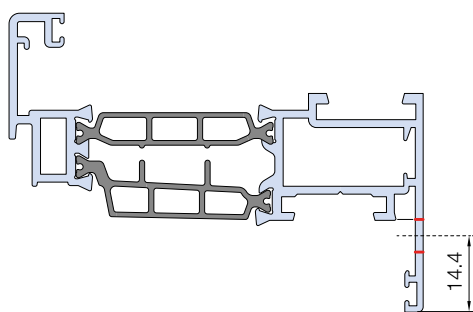
4 Fissare la martellina con le apposite viti
Fix the handle with its screws



M12

Applicazione EXENS ACP 50314

EXENS ACP 50314 application



1

Realizzare fori come
indicato in rosso
Making holes as shown

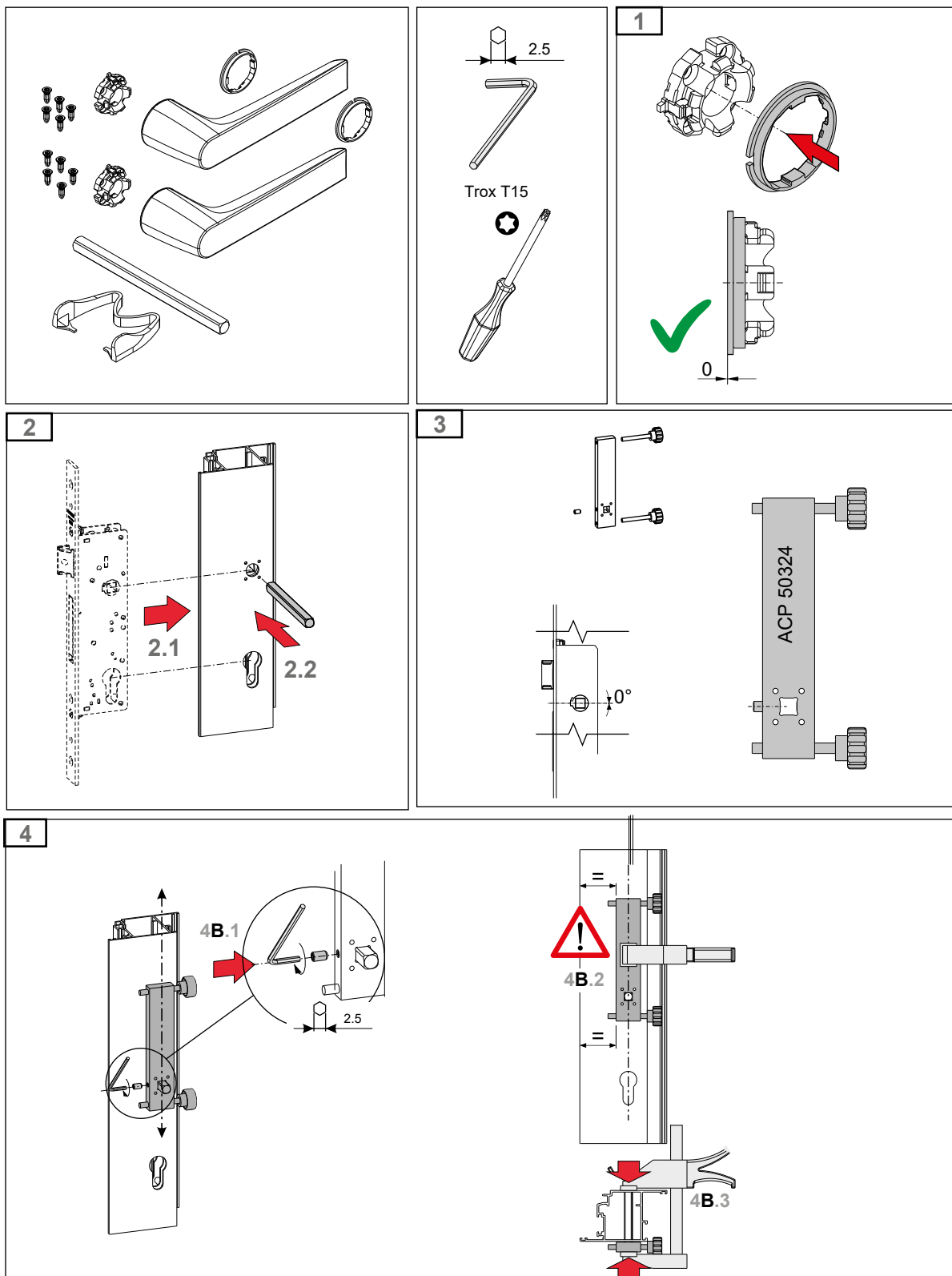
- 2 Inserire il piastrino all'interno del meccanismo
Insert plate inside the mechanism
- 3 Inserire il meccanismo nella cava ferramenta dell'anta
Insert mechanism in the hardware quarry of the left
- 4 Agganciare l'astina all'estremità del meccanismo tramite i perni
Attached rod at the end of the mechanism through pins
- 5 Fissare il meccanismo al profilo con due viti
Fixed mechanism to the profile with screws
- 6 Inserire la EXENS attraverso i fori nel meccanismo e serrare il tutto con i 2 grani inclusi nella confezione
Insert EXENS into the mechanism and fixed with 2 grubs screw

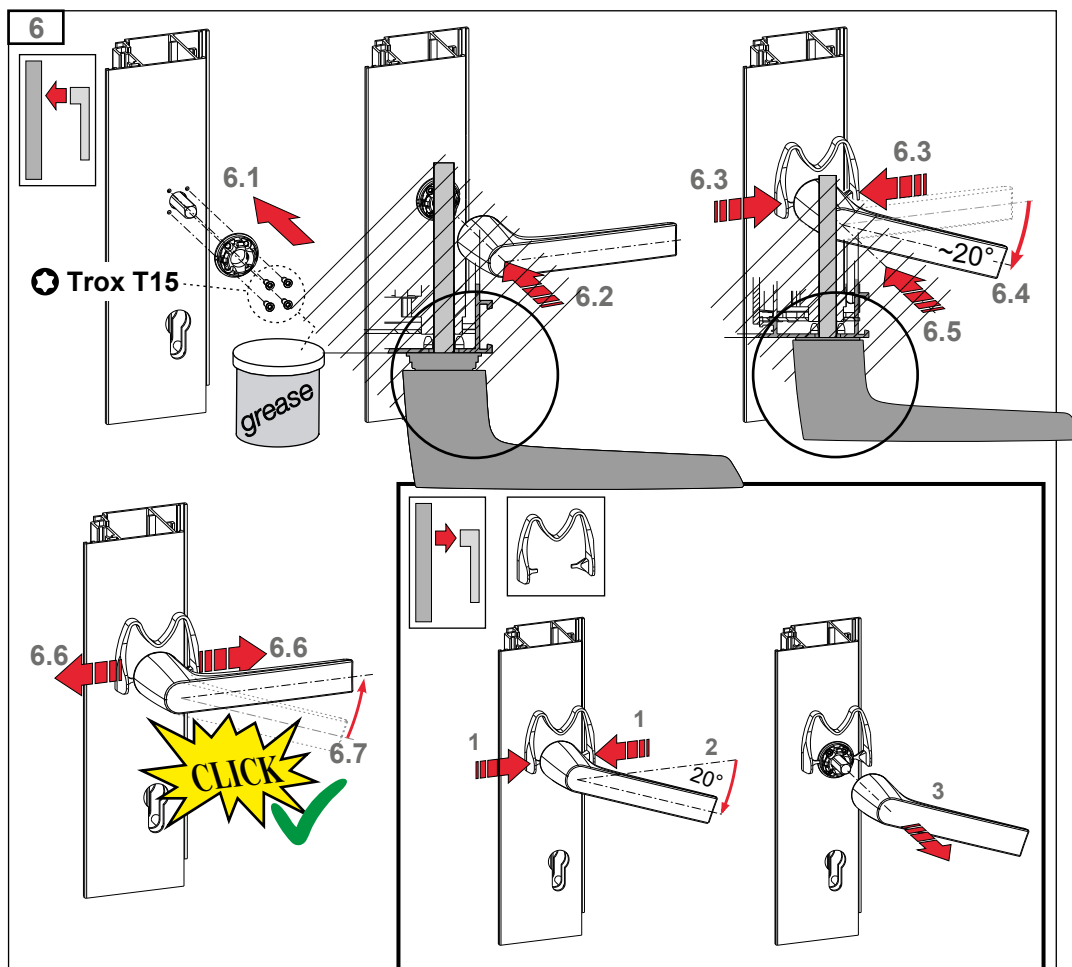
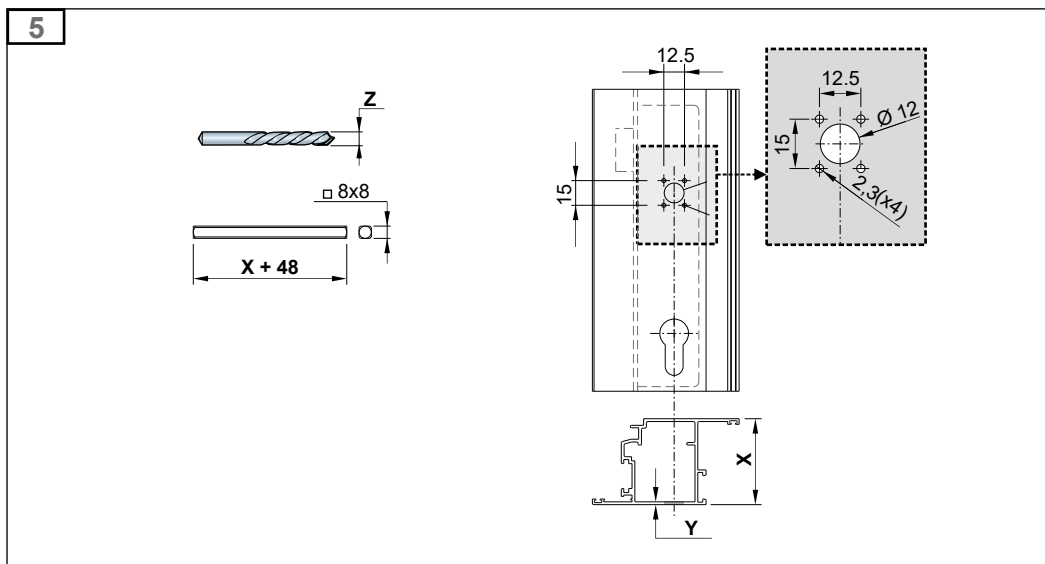


M13

Applicazione doppia maniglia EXENS linea Aurora ACP 50318

Double handle application EXENS Aurora line ACP 50318

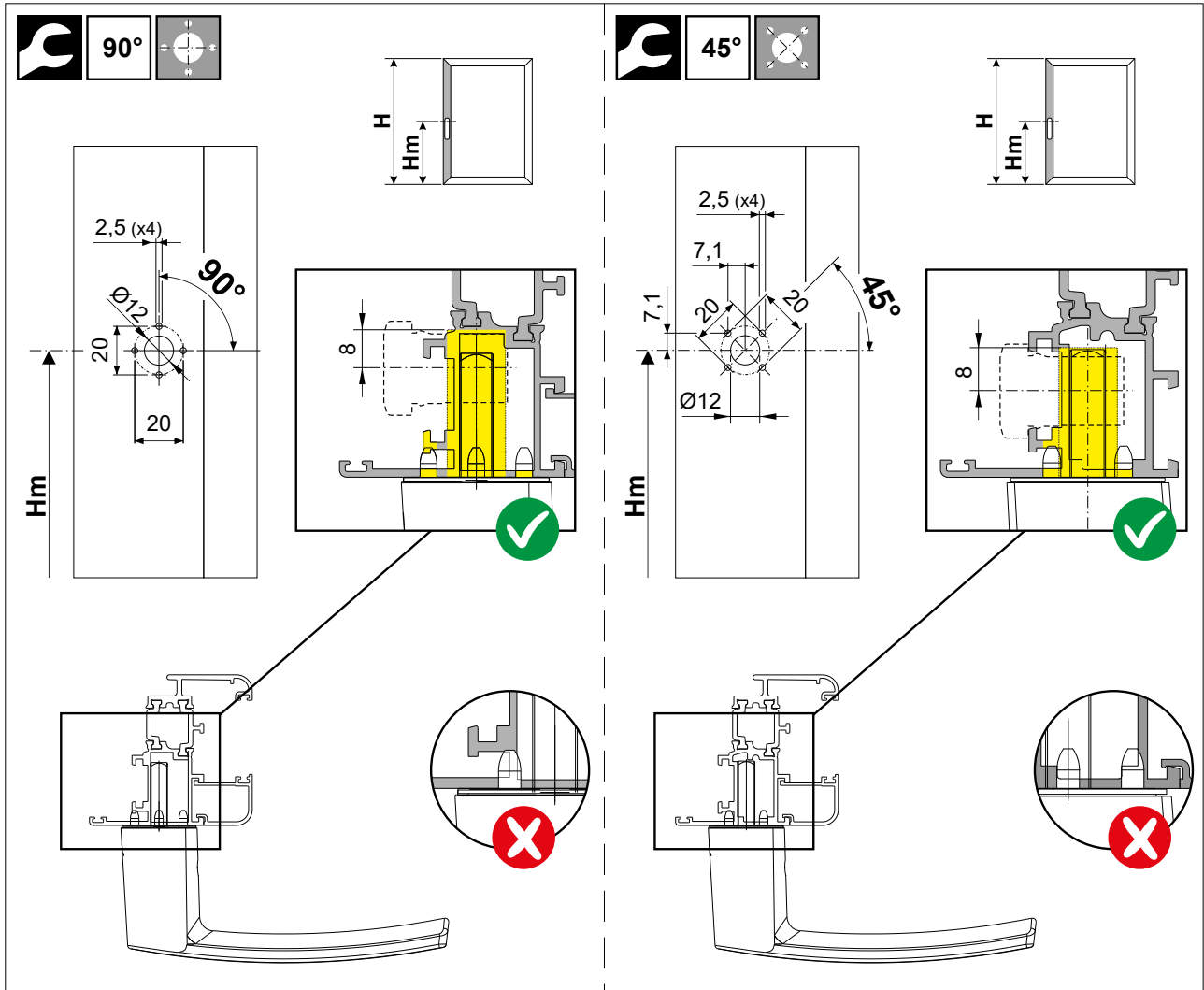
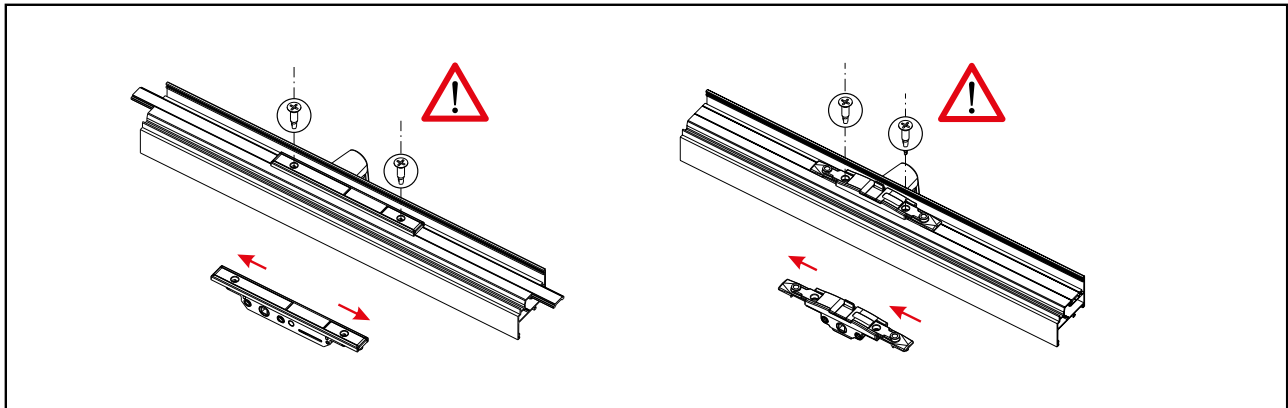
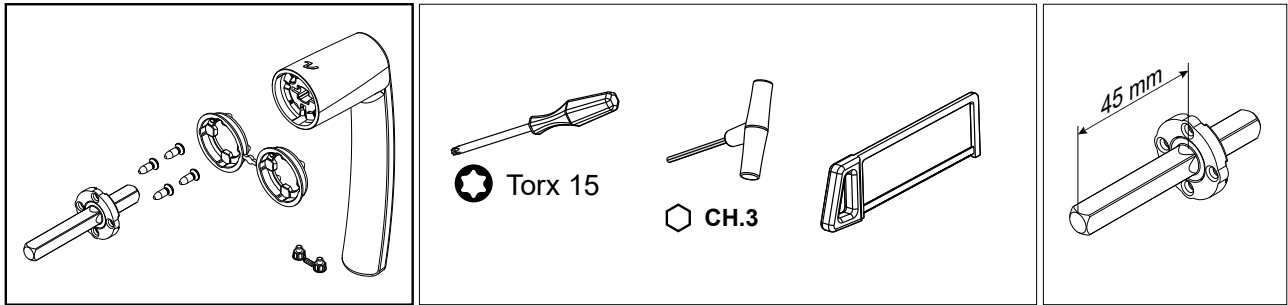


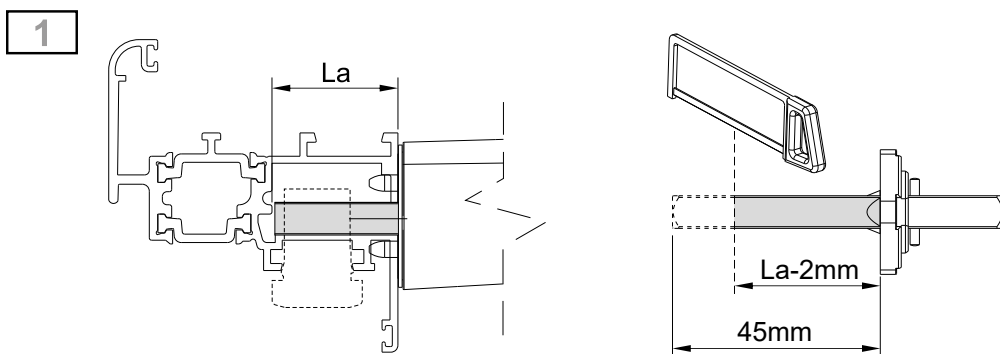


M14

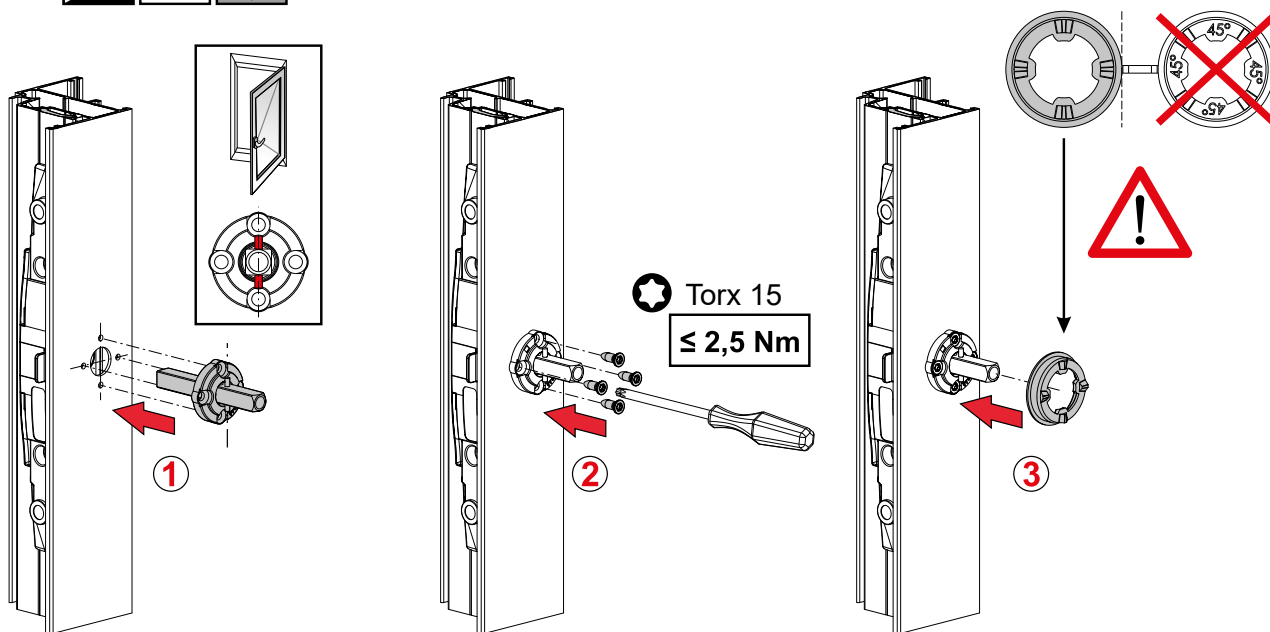
Applicazione EXENS linea AURORA quadro 7mm ACP 50330

EXENS application AURORA line 7mm square ACP 50330

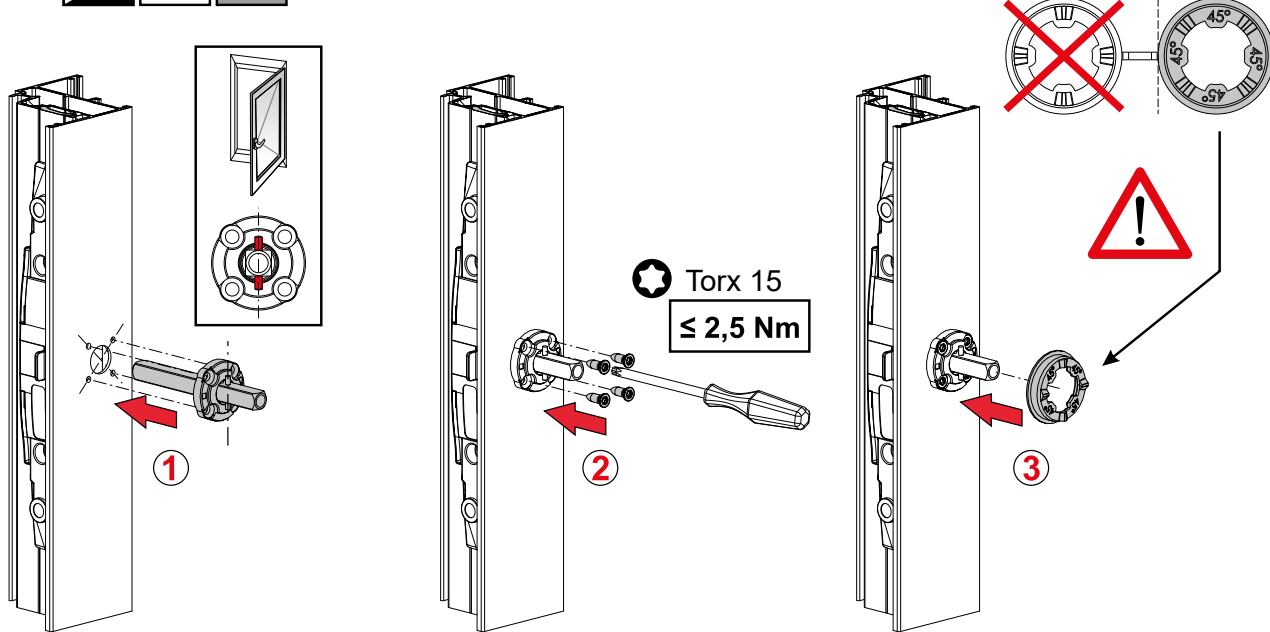




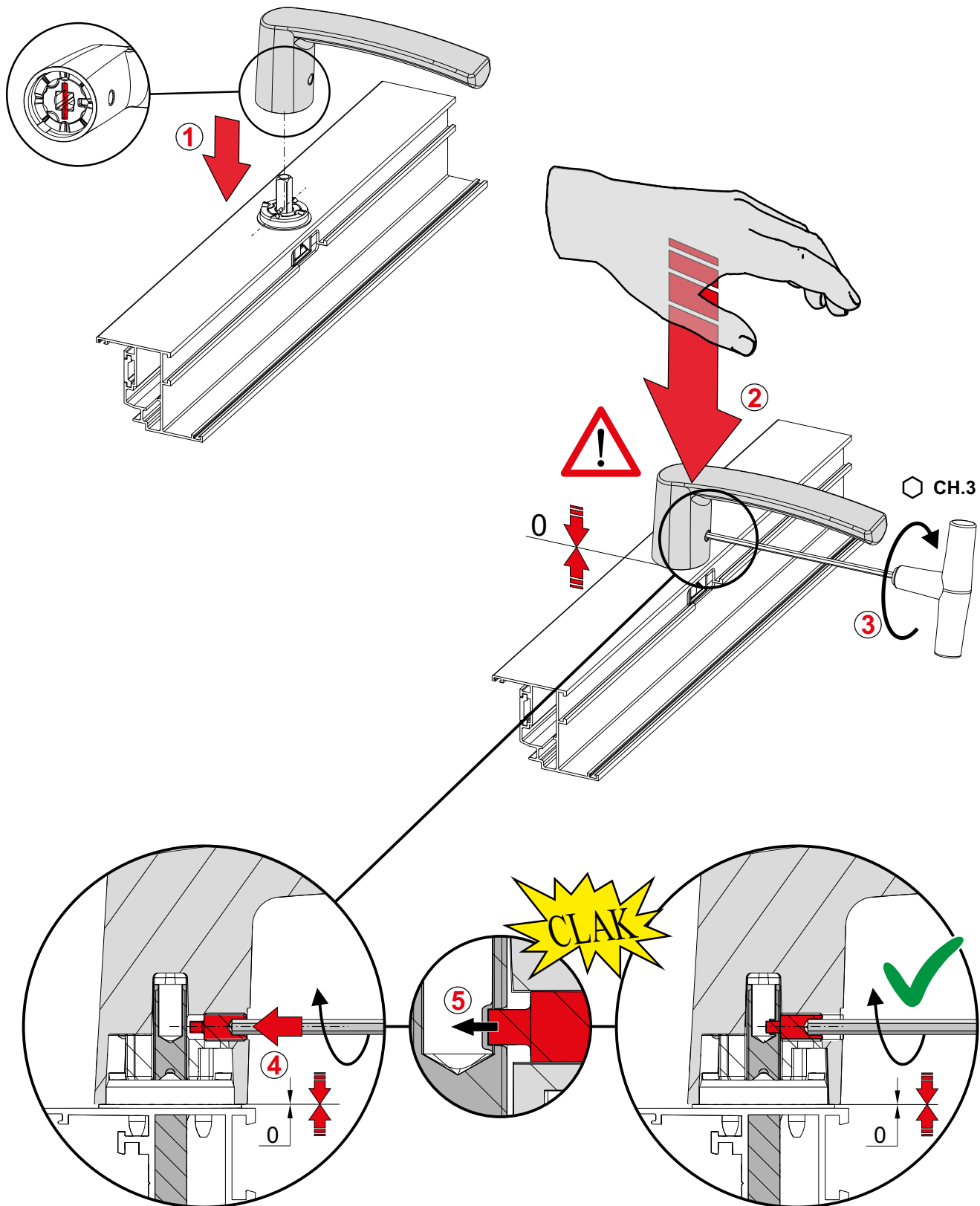
2.A **90°**



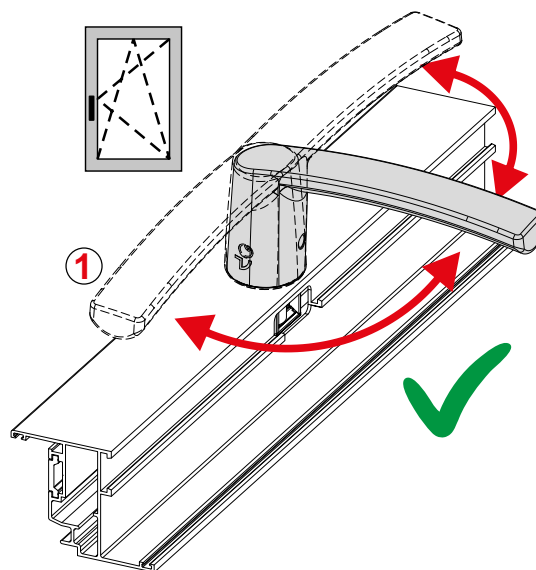
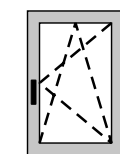
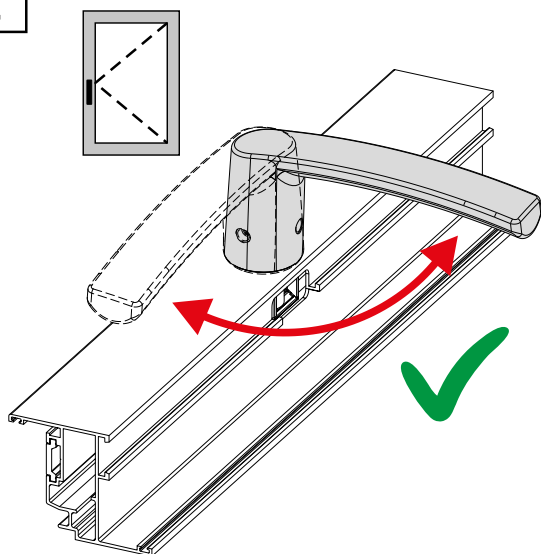
2.B **45°**



3

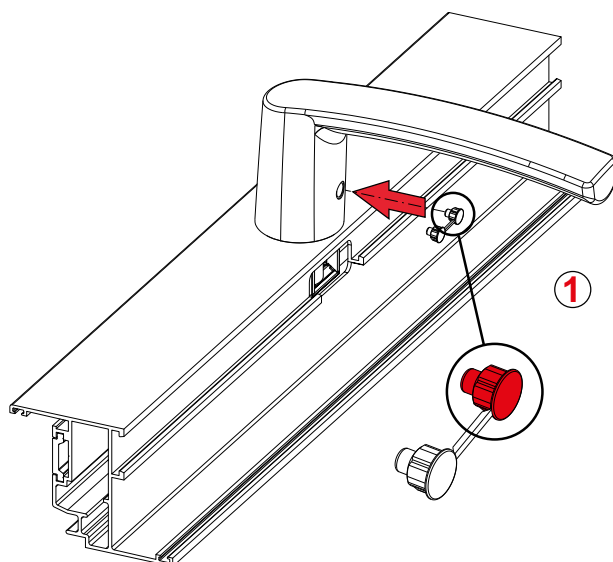
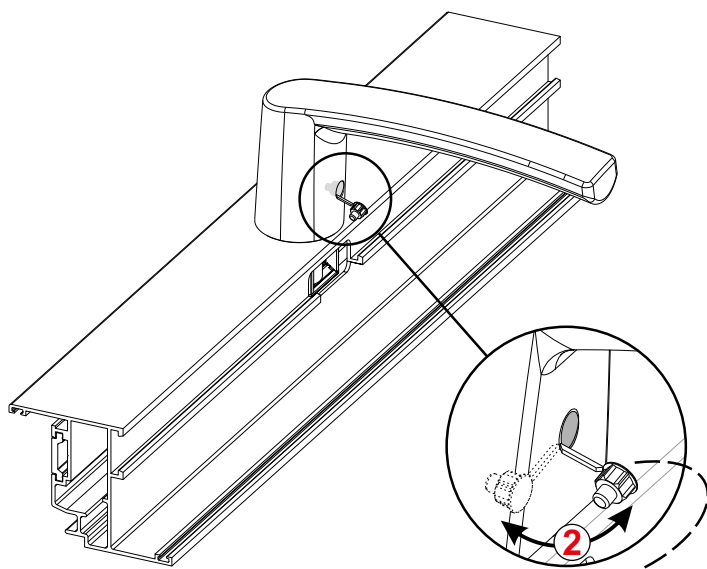
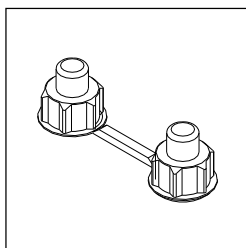


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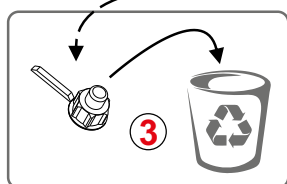


1

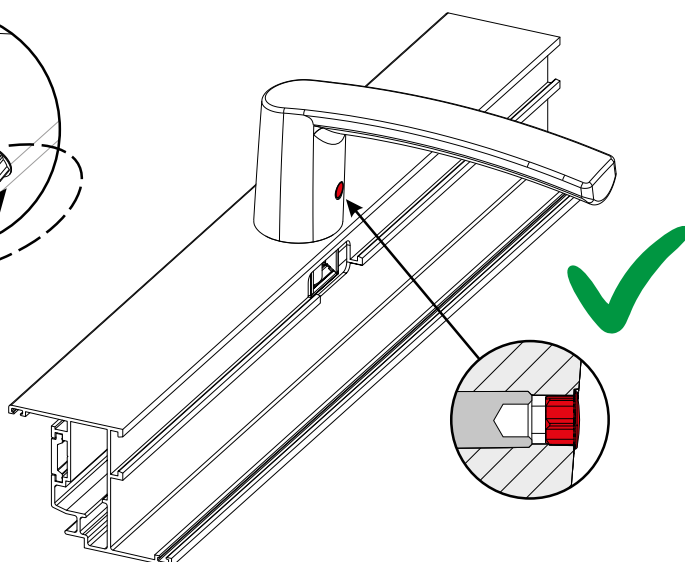
5



1



3



M15


Montaggio SECRET anta a ribalta **portata max 100kg**

Assembly tilt & turn system, SECRET serie, capacity 100kg

PESO MASSIMO DELL'ANTA (ALLUMINIO E VETRO)

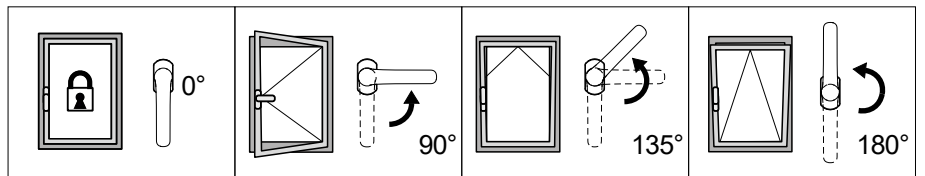
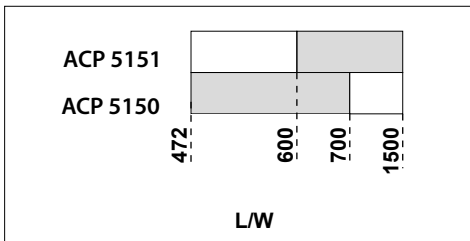
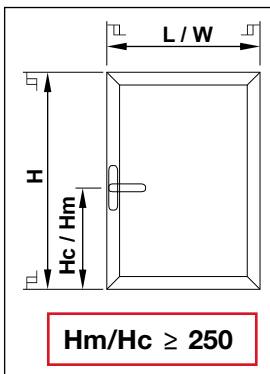
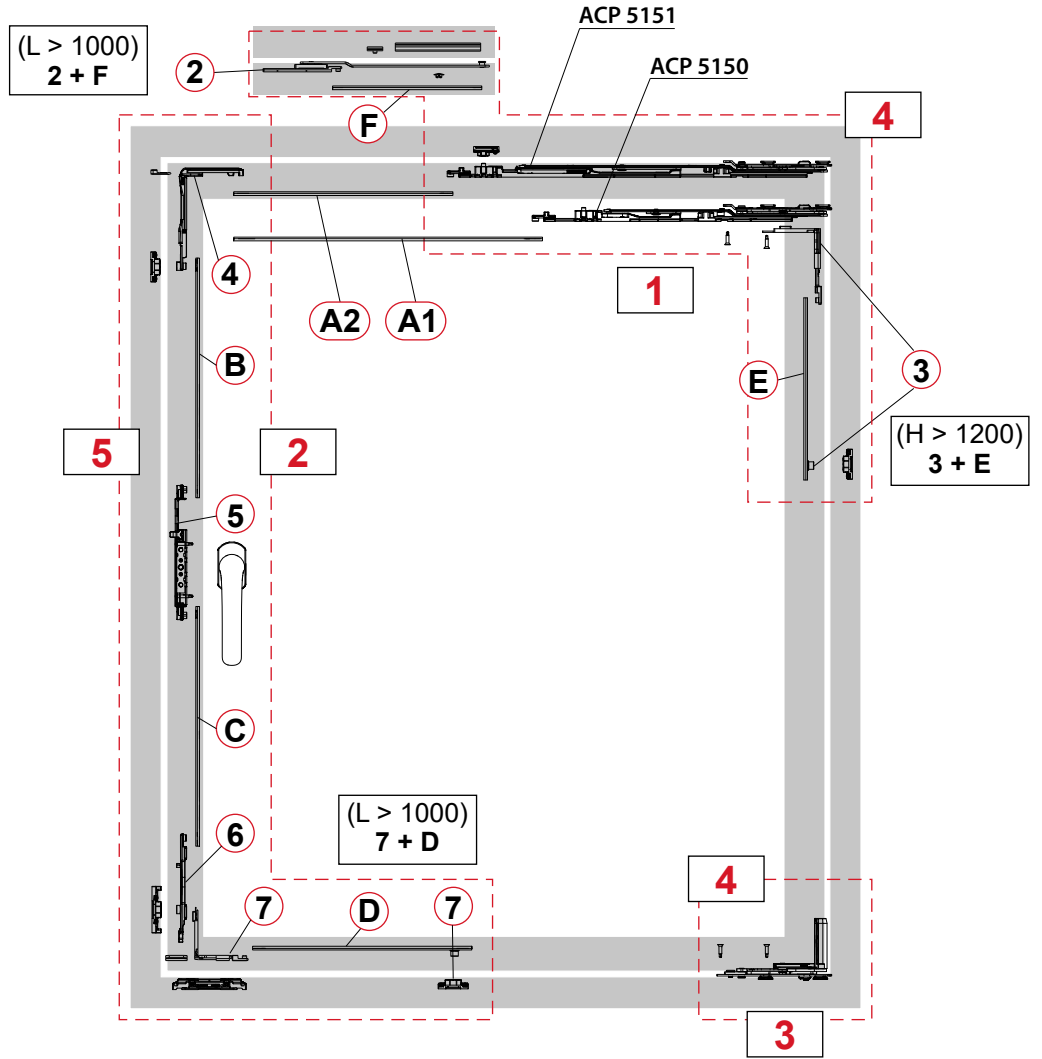
Maximum wing weight (aluminium and glass)

Altezza anta (mm) Wing height (mm)	2500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2400	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2300	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	2000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1900	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	1700	100	100	100	100	100	100	100	100	100	100	100	100	100	98	
	1600	100	100	100	100	100	100	100	100	100	100	100	99	92		
	1500	100	100	100	100	100	100	100	100	100	100	100	93	87		
	1400	100	100	100	100	100	100	100	100	100	100	93	87	81		
	1300	100	100	100	100	100	100	100	100	94	87	80	75			
	1200	100	100	100	100	100	100	100	95	87	80	74	69			
	1100	100	100	100	100	100	100	95	87	79	73	68				
	1000	100	100	100	100	96	87	79	72	67						
900	100	100	100	98	87	78	71	65								
800	100	100	99	87	77	69	63									
700	100	100	87	76	67	61										
600	472	500	600	700	800	900	1000	1100	1200	1300	1400	1500				
	Larghezza anta (mm) Wing width (mm)															

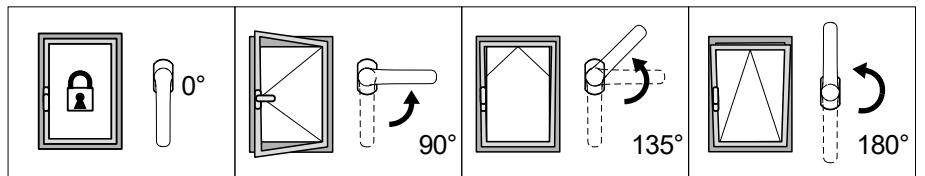
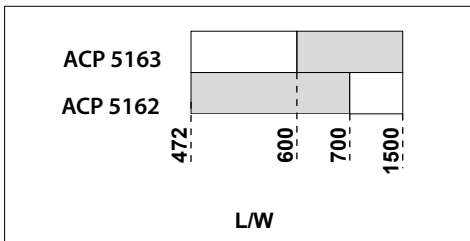
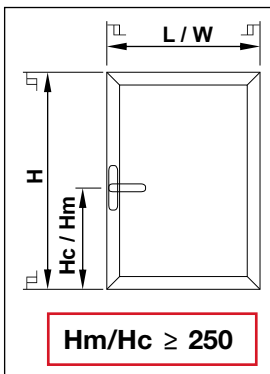
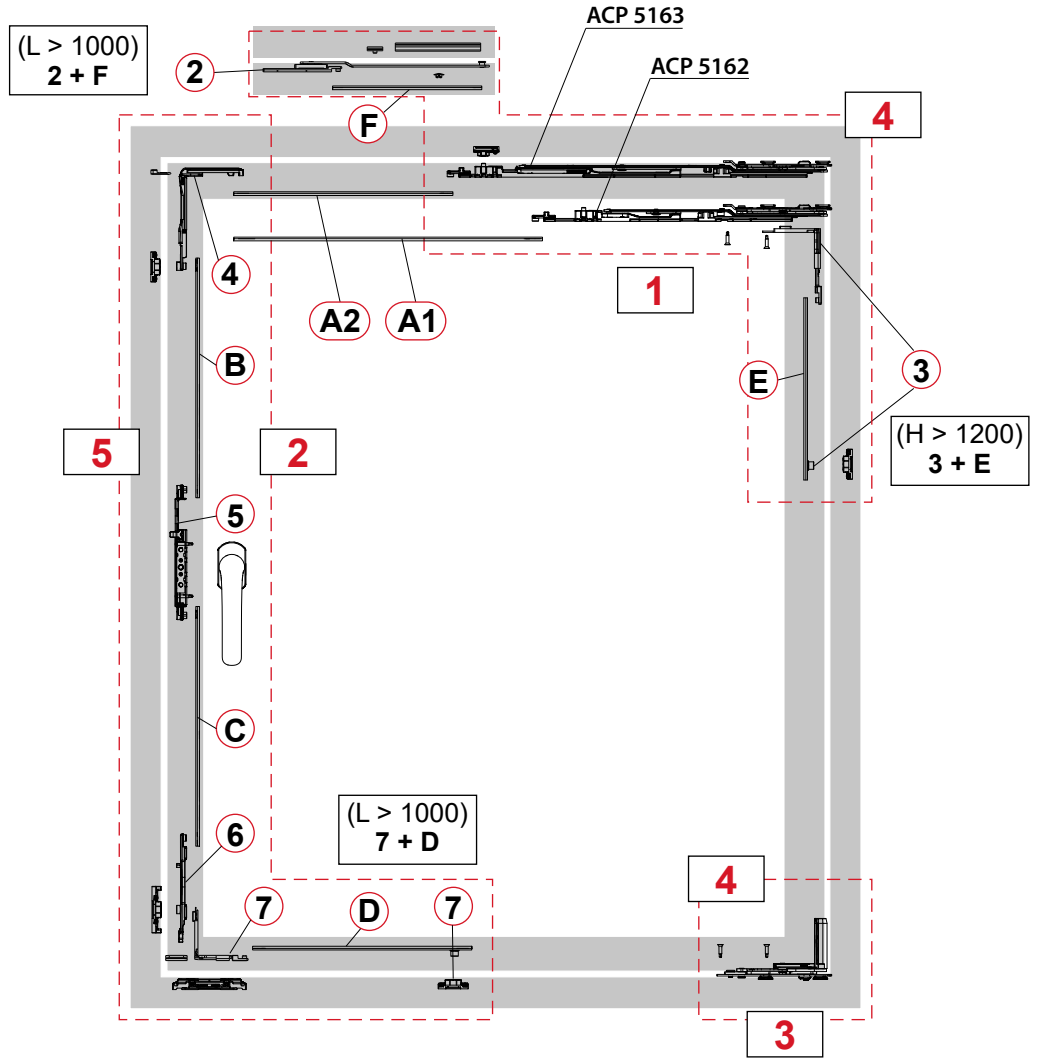
 **Non realizzabile**
Not possible

Le portate e il perfetto funzionamento dell'accessorio vengono garantiti solo se non vi sono impedimenti nella movimentazione dell'anta che forzino in modo anomalo le cerniere (ad esempio spallature, tappi od altri elementi di arresto).

The capacities and correct functioning of the accessory are only guaranteed if there are no obstacles preventing movement of the wing which force the hinges excessively (such as protrusions, stoppers or other stop elements)

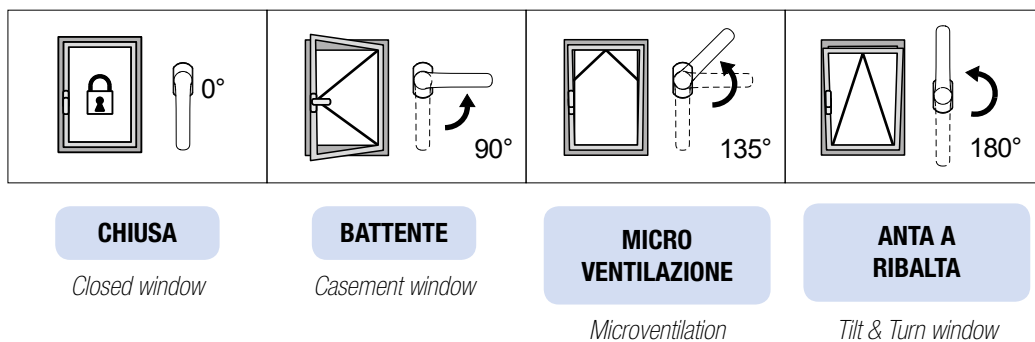


2500		<p>A1=L-415 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69</p>			
1200		<p>A1=L-415 B=H-Hc-207 C=Hc-207</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69</p>			
600	472	ACP 5150	700	600	ACP 5151	1000	1001	ACP 5151	1500



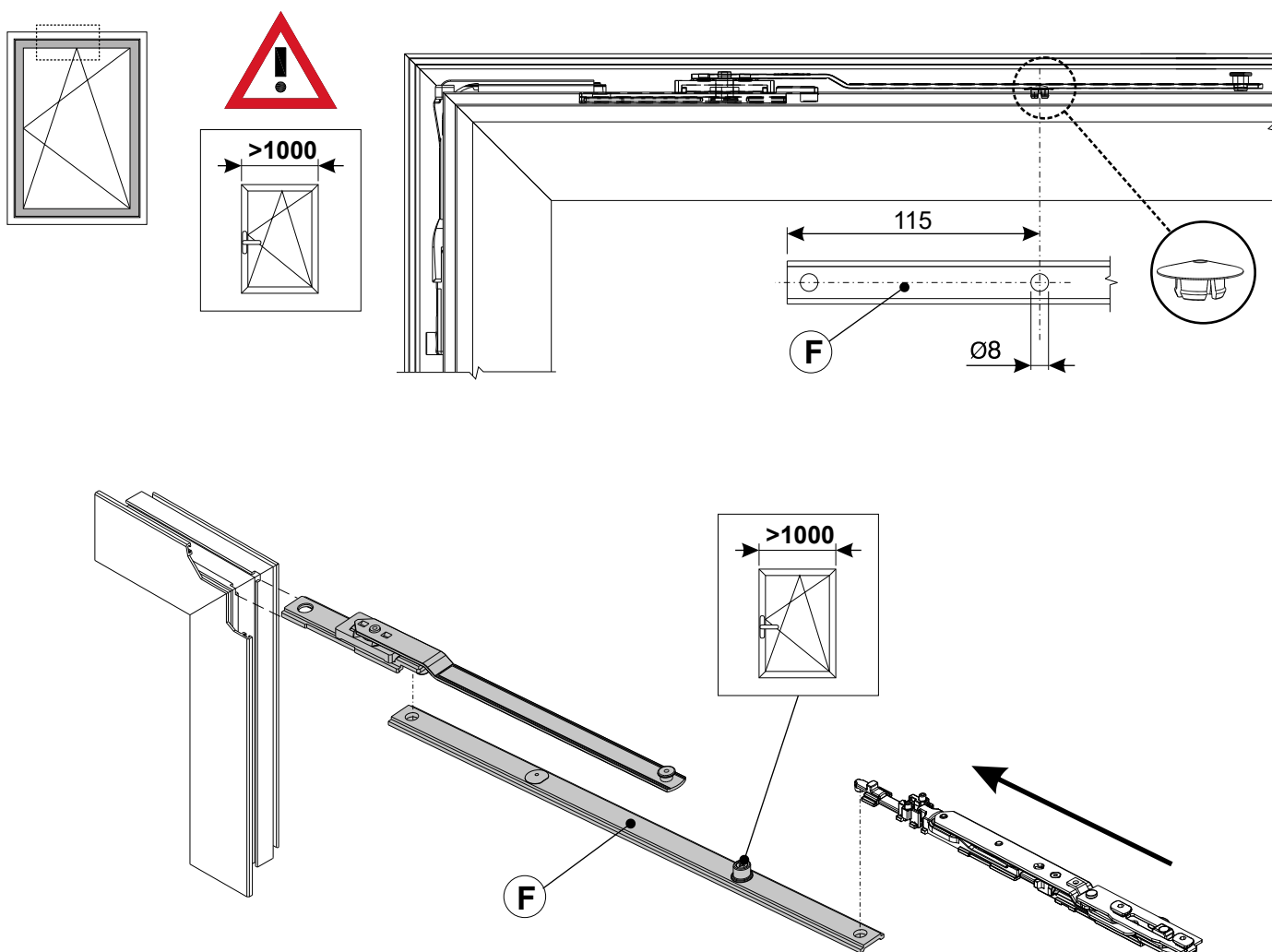
2800		<p>A1=L-415 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207 E=H/2-69</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69</p>			
1200		<p>A1=L-415 B=H-Hc-207 C=Hc-207</p>		<p>A2=L-538 B=H-Hc-207 C=Hc-207</p>		<p>F=L-633 B=H-Hc-207 C=Hc-207 D=L/2-69</p>			
600	472	ACP 5162	700	600	ACP 5163	1000	1001	ACP 5163	1500

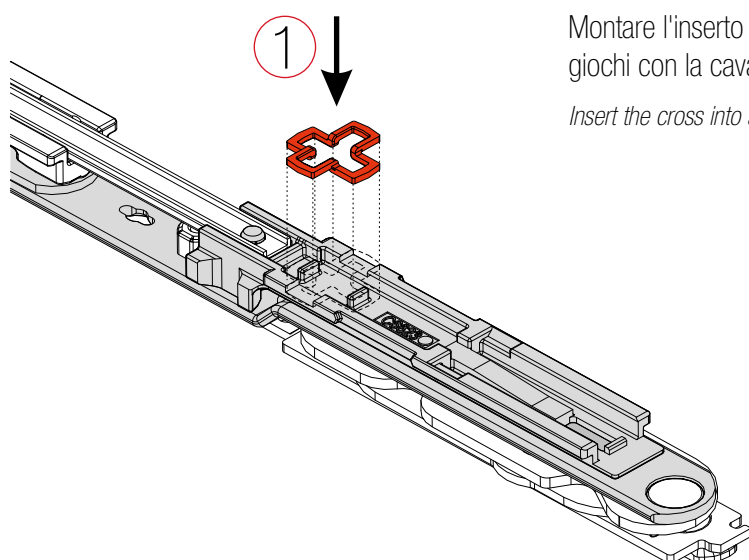
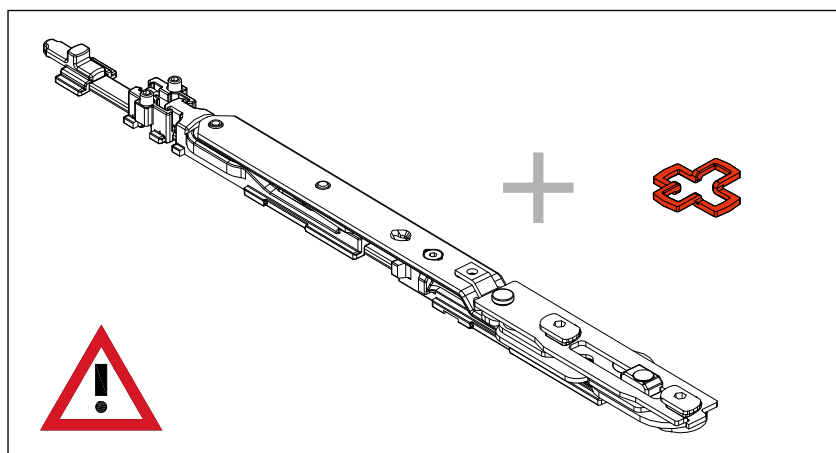
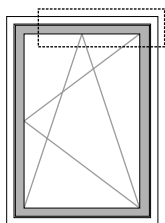
LAVORAZIONI E MONTAGGI
Working and assembly



Montaggio del braccio supplementare ACP 5153 per aperture superiori a 1000mm

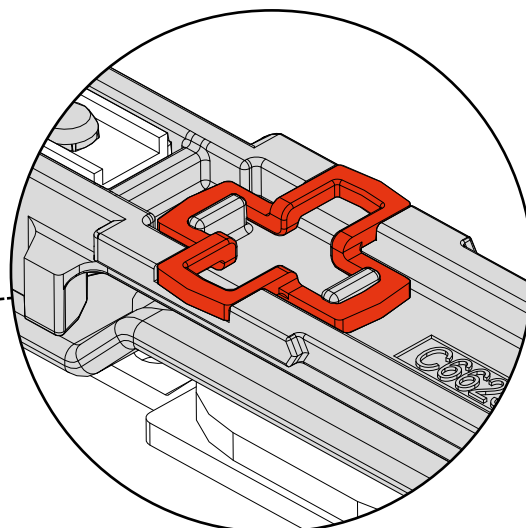
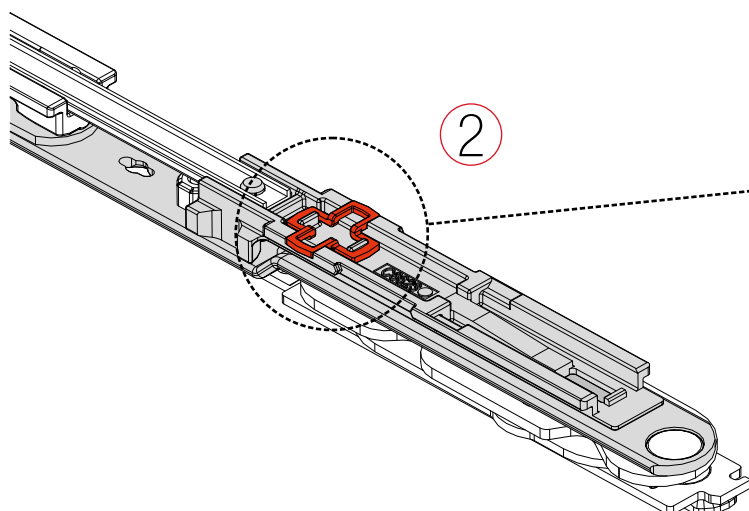
Usage additional arm ACP 5153 for >1000mm

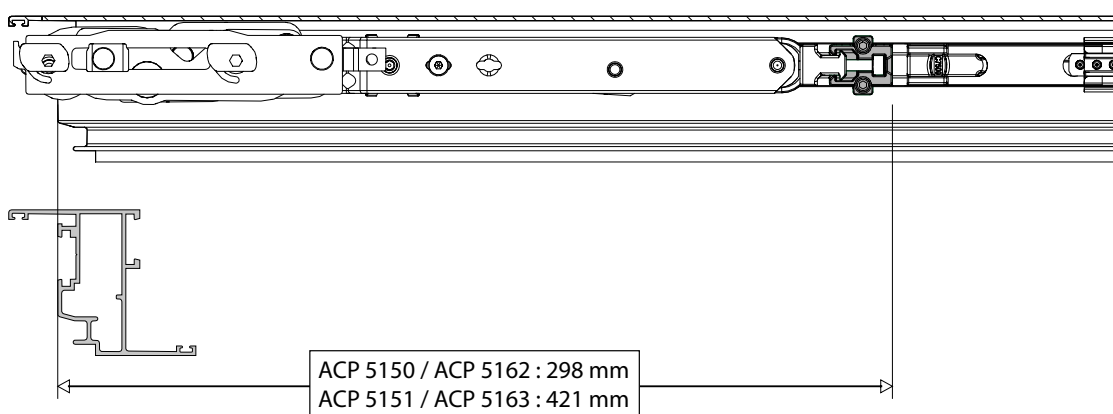
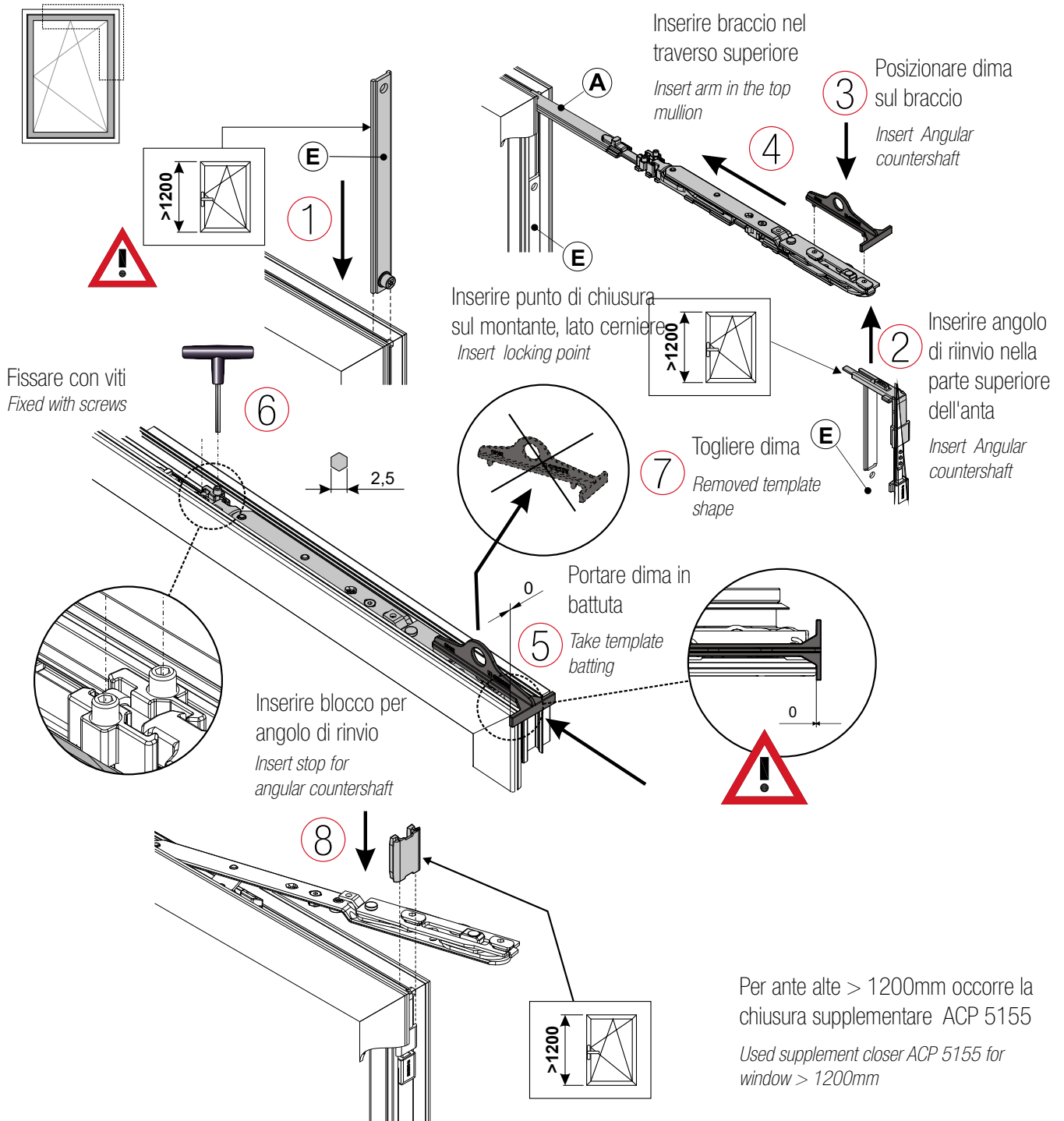




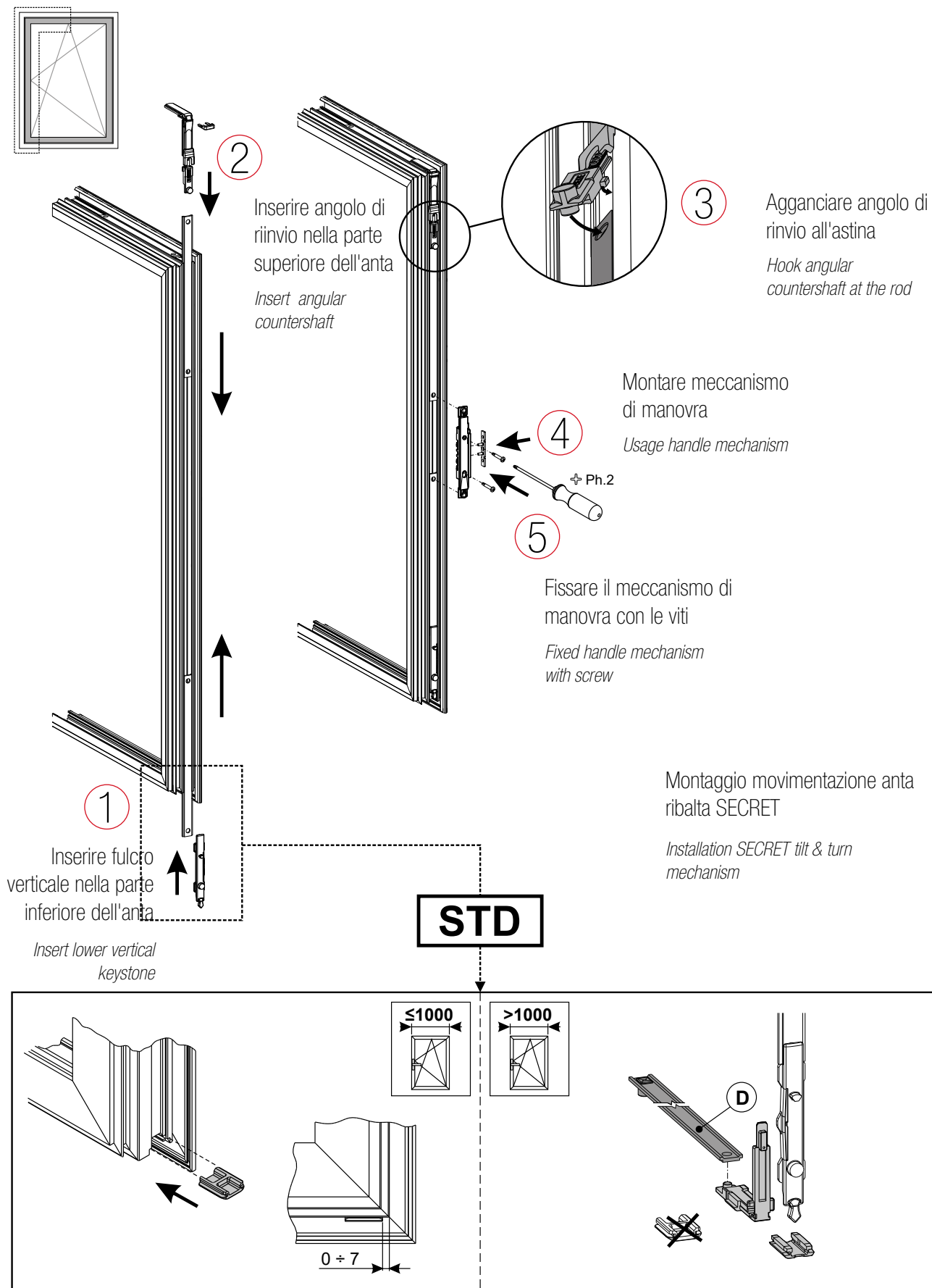
Montare l'inserto a croce prima di inserire il braccio per eliminare i giochi con la cava profilo

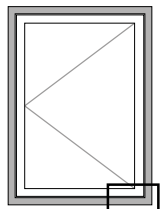
Insert the cross into slot profile



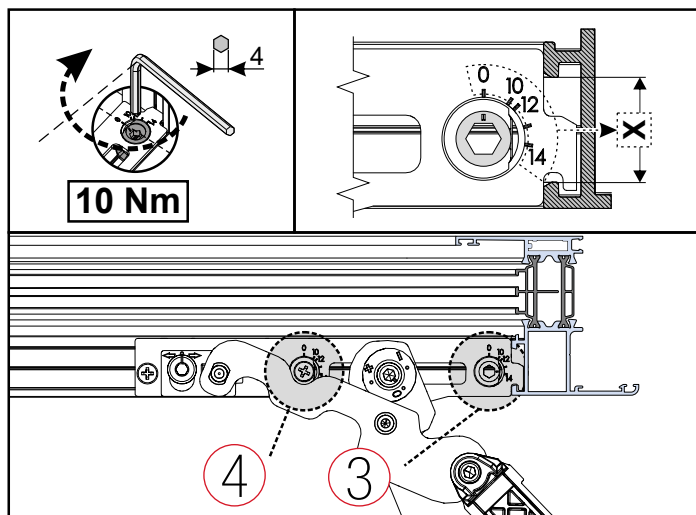
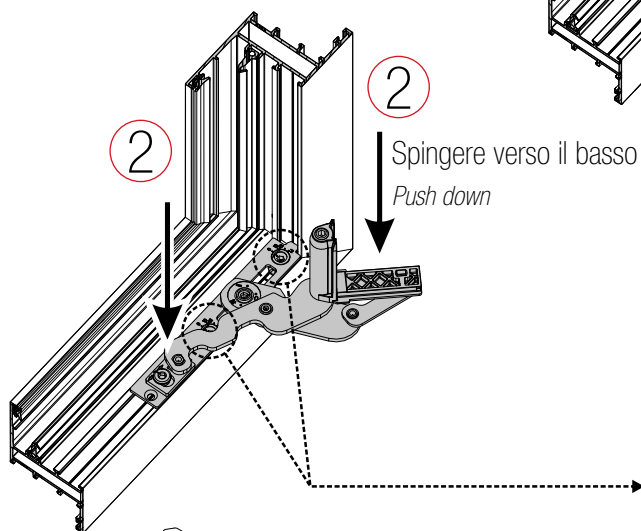
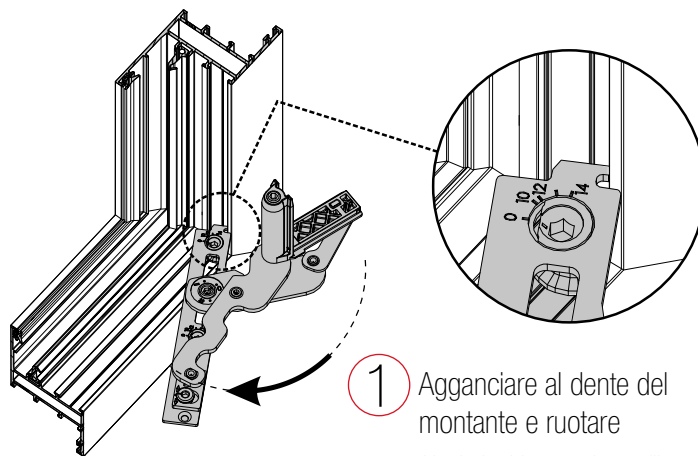


STD = Manovra standard

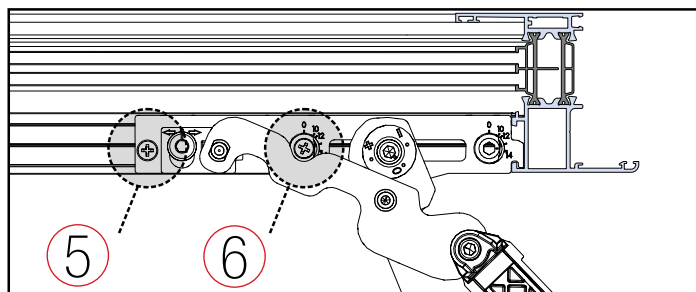
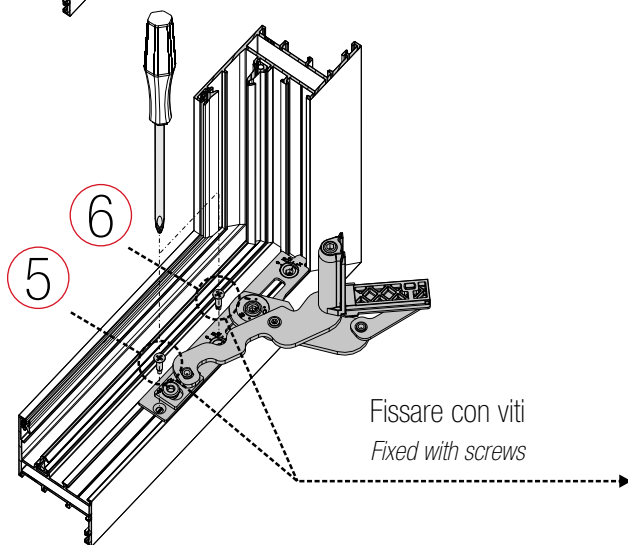




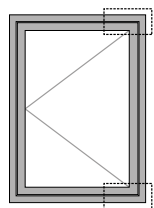
Montaggio cerniera SECRET
Installation SECRET hinge



Girare Cam
Screwed Cam



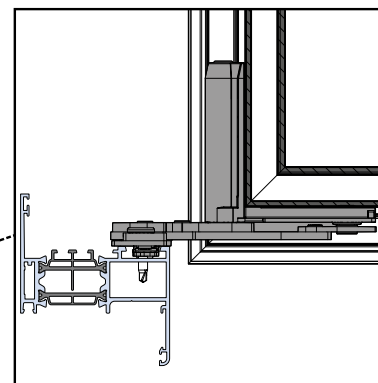
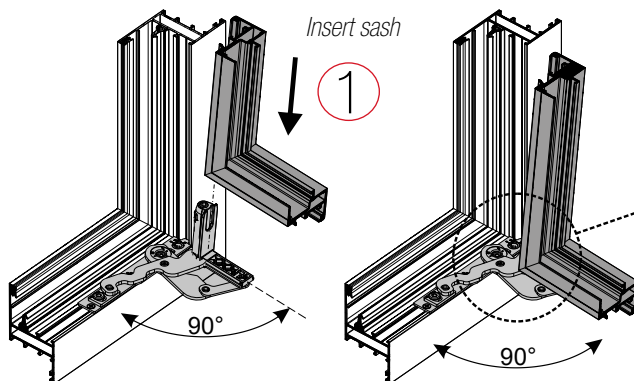
Stringere le viti
Tighten screws



Inserire anta

Insert sash

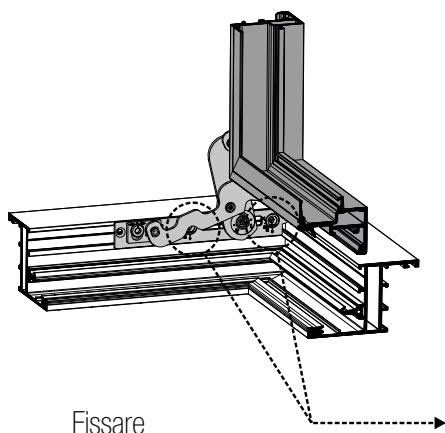
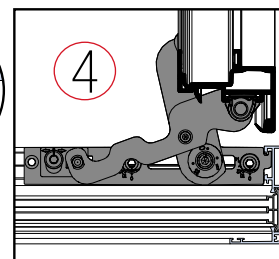
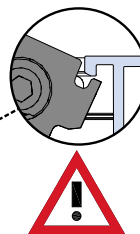
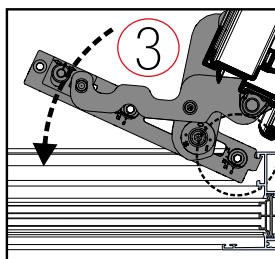
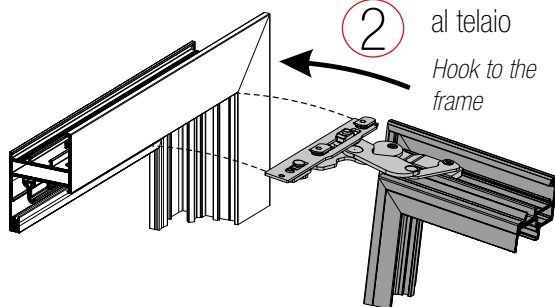
1



Agganciare al telaio

2

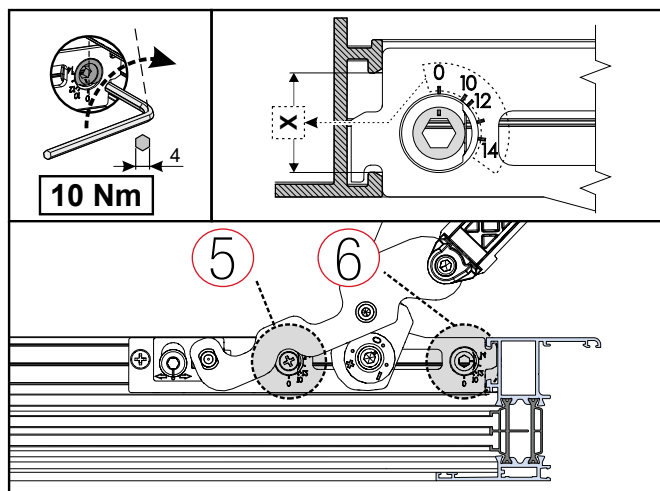
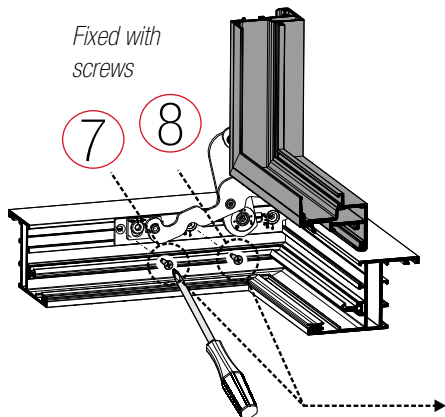
Hook to the frame



Fissare tramite viti

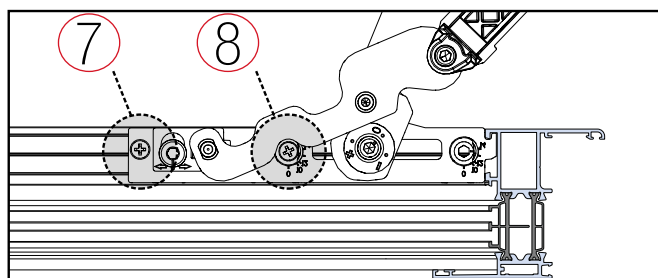
Fixed with screws

7 8



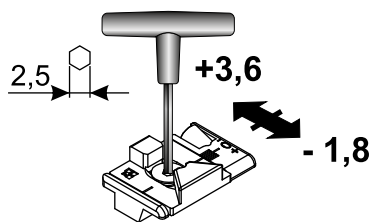
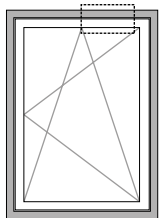
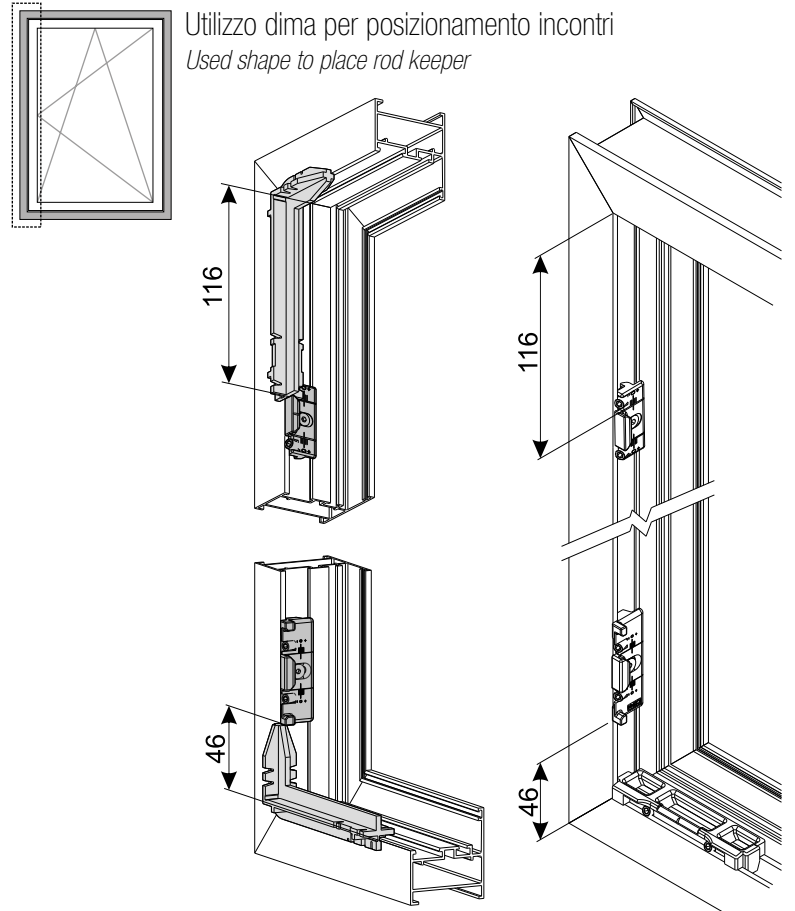
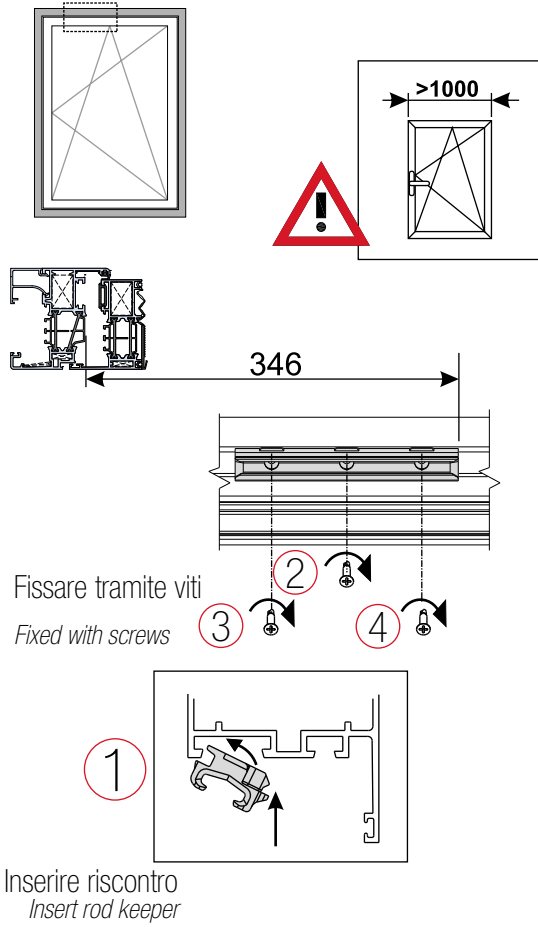
Girare Cam

Screwed Cam

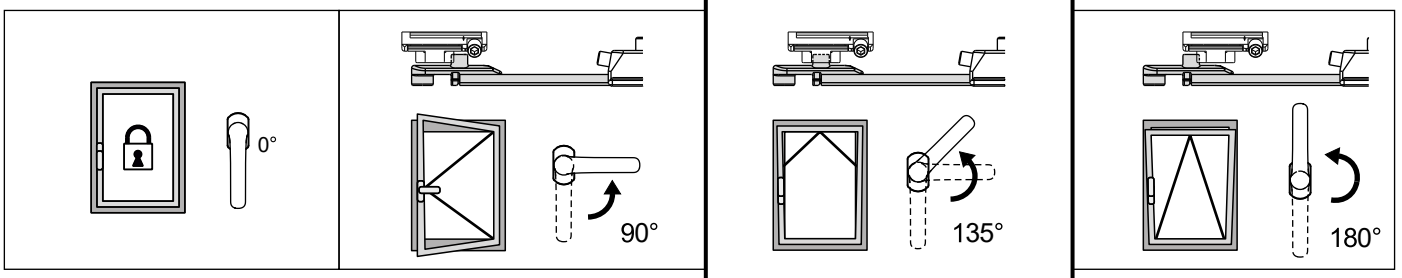
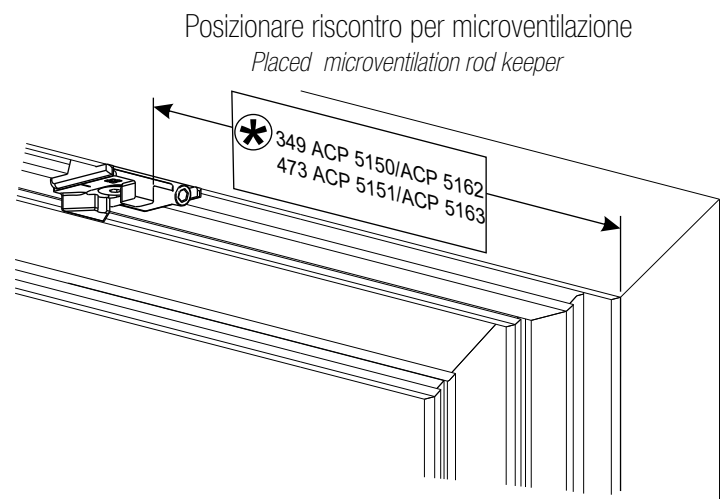


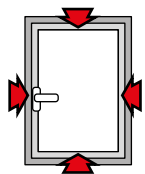
Stringere le viti

Tighten screws

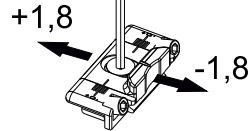
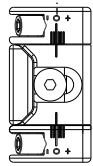


Fissare microventilazione
Fixing microventilation rod keeper

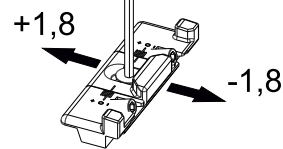
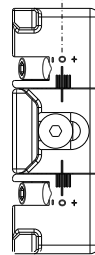




$\pm 1,8$

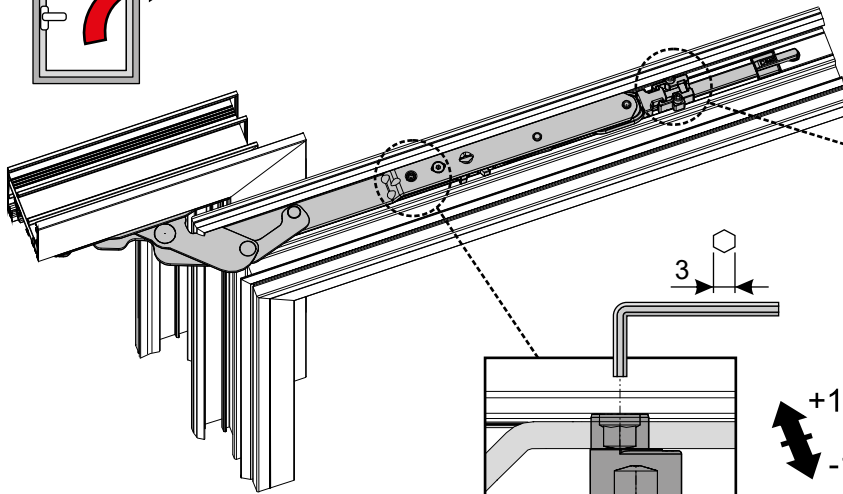
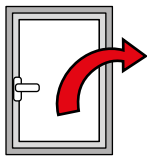


$\pm 1,8$



2,5

2,5

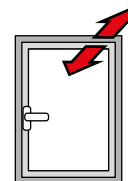


-1,5 \leftrightarrow +3,5

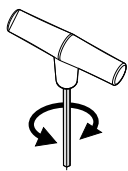
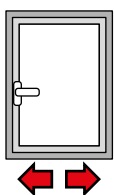
3

3

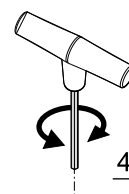
+1,5 \leftrightarrow -1,5



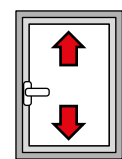
4



4

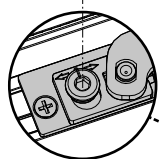


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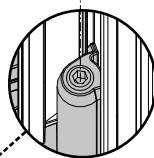


+2,5 \updownarrow -1

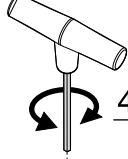
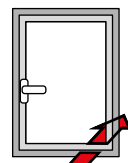
+1,5 \leftrightarrow -1,5



4

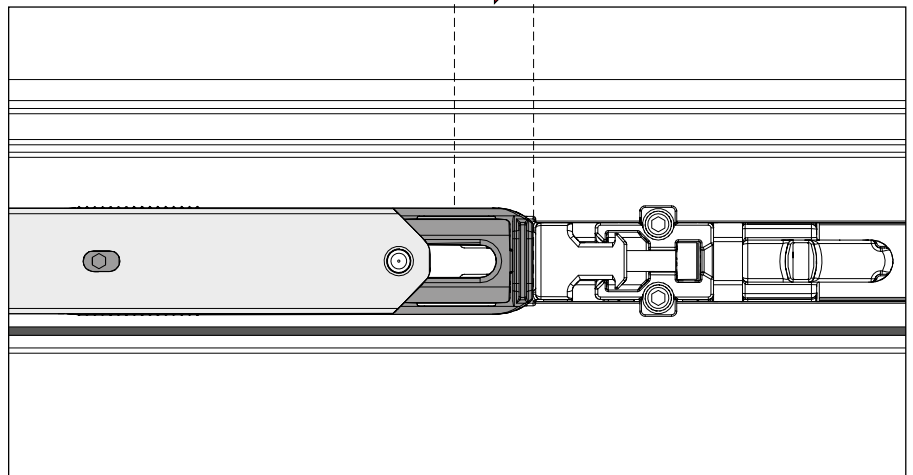
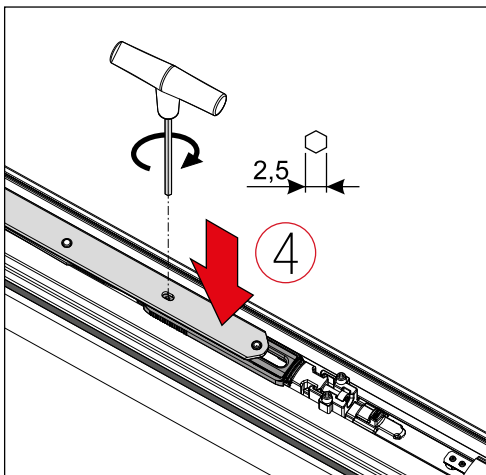
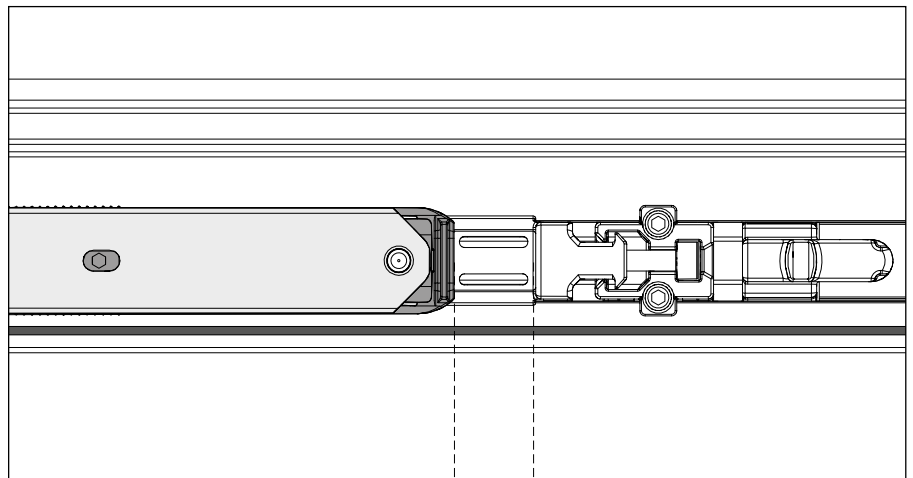
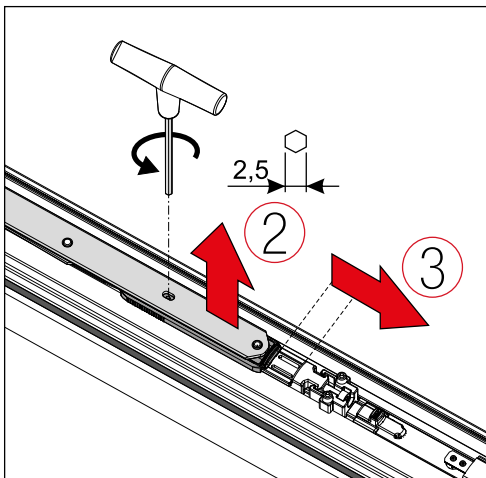
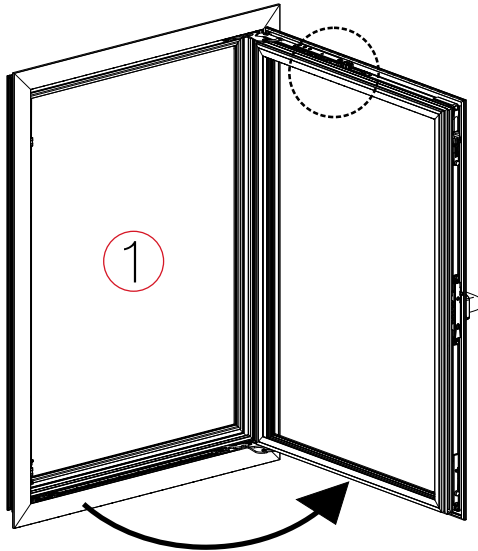
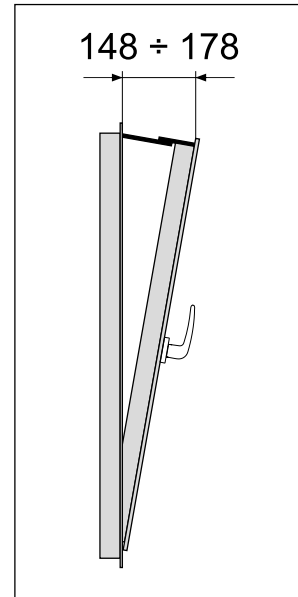
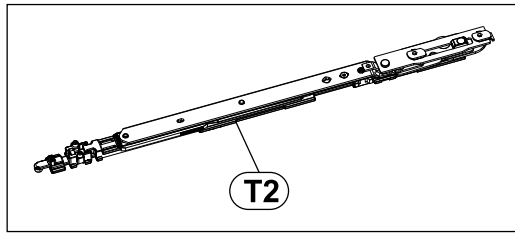
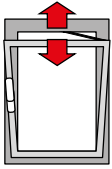


4



4

+1,4 \leftrightarrow -0,6



M16

Montaggio anta ribalta Standard Line

Standard Line tilt and turn mechanism assembly

Dimensioni e portate realizzabili

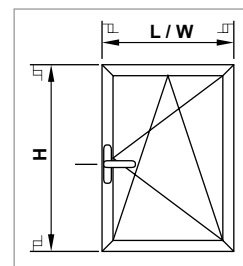
Possible dimensions and capacities

ATTENZIONE: Le portate e il perfetto funzionamento dell'accessorio vengono garantiti solo se non vi sono impedimenti nella movimentazione dell'anta che forzino in modo anomalo le cerniere (ad esempio spallature, tappi od altri elementi di arresto). In questo caso è obbligatorio l'utilizzo di un braccio limitatore ACP 5165.

CAUTION: The capacities and correct functioning of the accessory are only guaranteed if there are no obstacles preventing movement of the wing which force the hinges excessively (such as protrusions, stoppers or other stop elements). In such cases, you MUST use a ACP 5165 limiter arm.

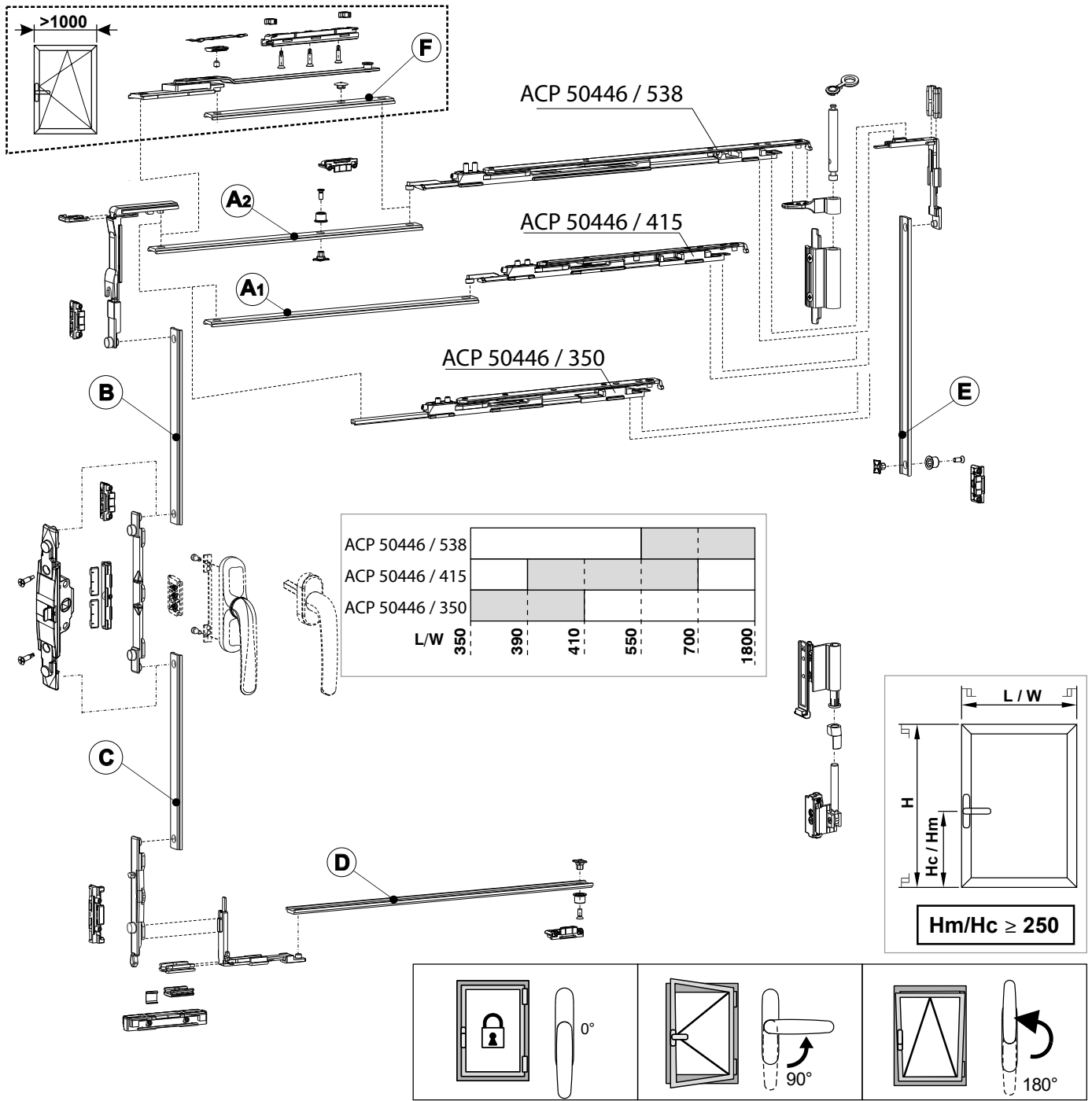
Peso massimo dell'anta (alluminio e vetro)
Maximum wing weight (aluminium and glass)

3000	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2900	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	140	140	139	125
1900	140	140	140	140	140	140	140	140	140	140	140	140	140	140	132	118
1800	140	140	140	140	140	140	140	140	140	140	140	140	140	133	125	112
1700	140	140	140	140	140	140	140	140	140	140	140	140	134	126	118	118
1600	140	140	140	140	140	140	140	140	140	140	135	126	118	111	105	
1500	140	140	140	140	140	140	140	140	137	127	118	111	104	97		
1400	140	140	140	140	140	140	140	138	127	118	110	104	97			
1300	140	140	140	140	140	140	140	128	118	110	103	96				
1200	140	140	140	140	140	140	129	118	109	101	95					
1100	140	140	140	140	140	130	118	108	100	93						
1000	140	140	140	140	131	118	108	99	91							
900	140	140	140	133	118	106	97	89								
800	140	140	135	118	105	95	86									
700	140	140	118	104	92	83										
600	140	138	118	104	92	83										
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	



Non realizzabile
Not possible

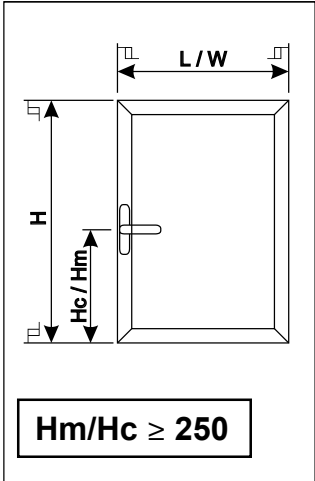
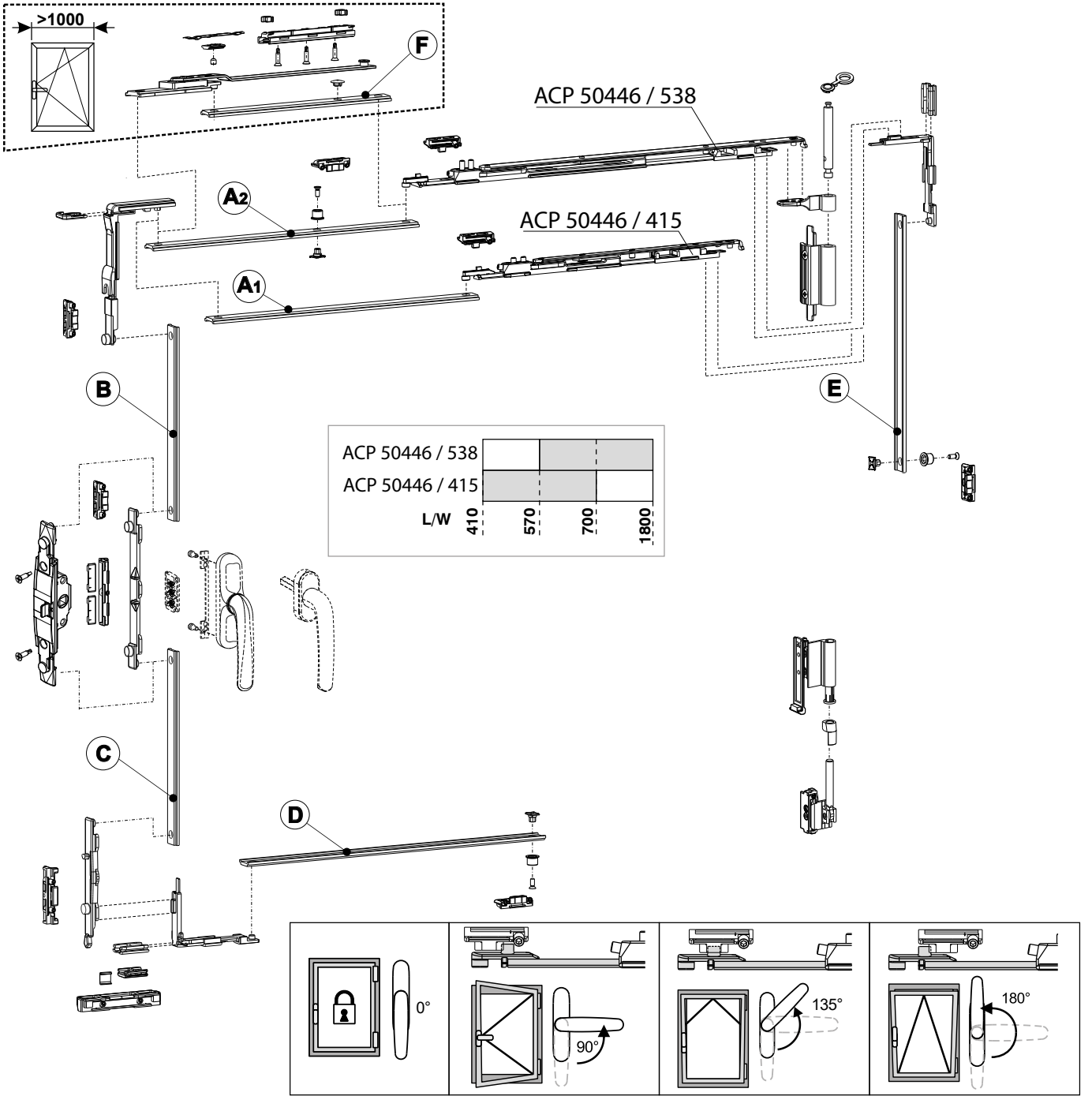
STANDARD



3000	B E C	B=H-Hc-207 C=Hc-207 E=H/2-69	A1 E B C	A1=L-355 B=H-Hc-207 C=Hc-207 E=H/2-69	A2 E B C	A2=L-510 B=H-Hc-207 C=Hc-207 E=H/2-69	F E C D	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69				
	B C	B=H-Hc-207 C=Hc-207	A1 C	A1=L-355 B=H-Hc-207 C=Hc-207	A2 C	A2=L-510 B=H-Hc-207 C=Hc-207	B C D	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69				
600	350	ACP 50446 / 350	410	390	ACP 50446 / 415	700	550	ACP 50446 / 538	1000	1001	ACP 50446 / 538	1800

LAVORAZIONE MONTAGGI
Working and assembly

MICRO



3000	A1	A1=L-355 B=H-Hc-207 C=Hc-207 E=H/2-69	A2	A2=L-510 B=H-Hc-207 C=Hc-207 E=H/2-69	F	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69			
	1200	A1	A1=L-355 B=H-Hc-207 C=Hc-207	A2	A2=L-510 B=H-Hc-207 C=Hc-207	F	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69		
600									
	410	ACP 50446 / 415	700	570	ACP 50446 / 538	1000	1001	ACP 50446 / 538	1800

ATTENZIONE: Lubrificare con prodotti a base di vaselina sia le guide che tutti i meccanismi prima del loro inserimento.

Impiegare astine di collegamento in poliammide o in alternativa in alluminio con trattamento di ossidazione e non di verniciatura.

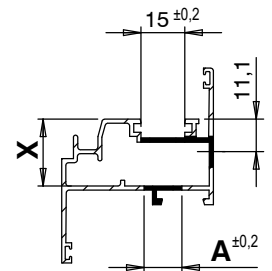
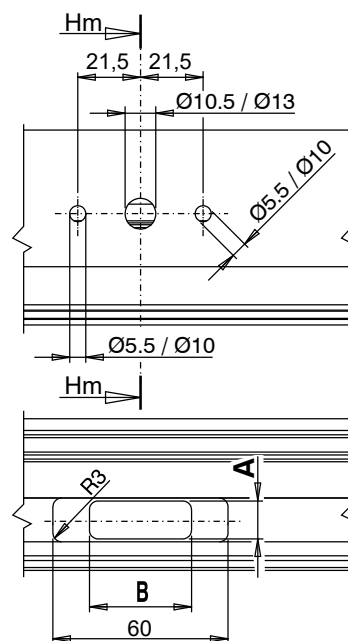
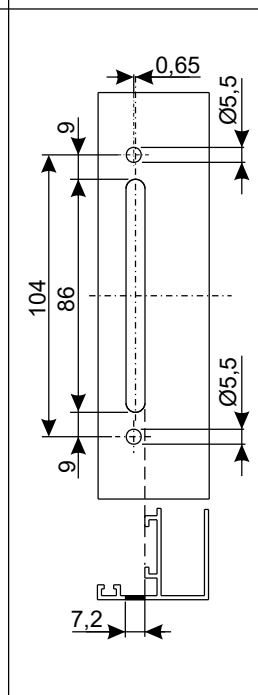
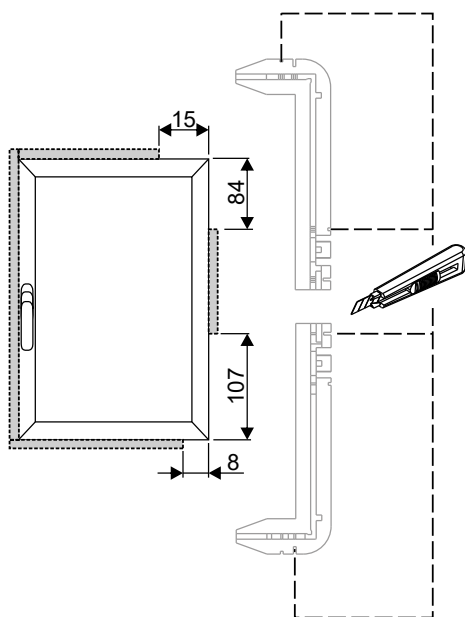
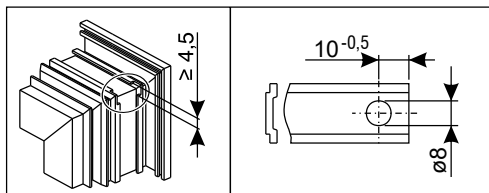
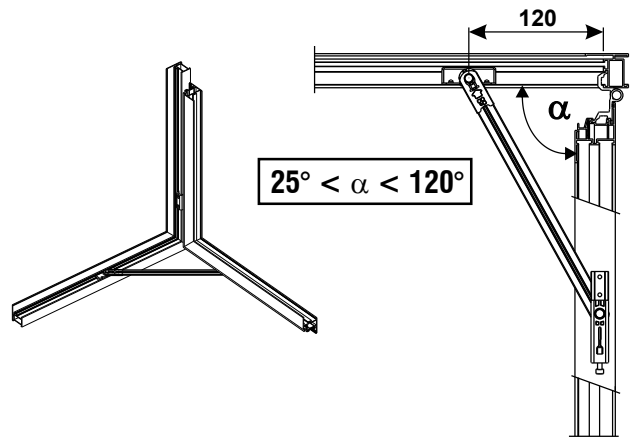
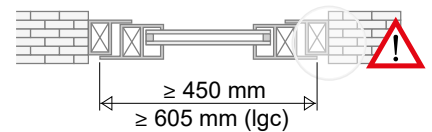
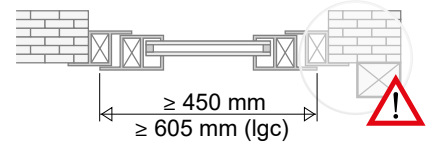
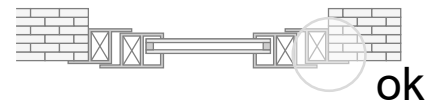
Eseguire sull'anta mobile le lavorazioni indicate su questo documento. Si garantisce il funzionamento dell'accessorio descritto in queste istruzioni solo se l'infisso è stato installato a regola d'arte, quindi in squadra e senza impedimenti nell'apertura totale (a 180°) dell'anta. Qualora questo non sia possibile è d'obbligo l'utilizzo di elementi limitatori d'apertura.

CAUTION: Use vaseline-based products to lubricate both the guides and all the mechanisms before inserting them.

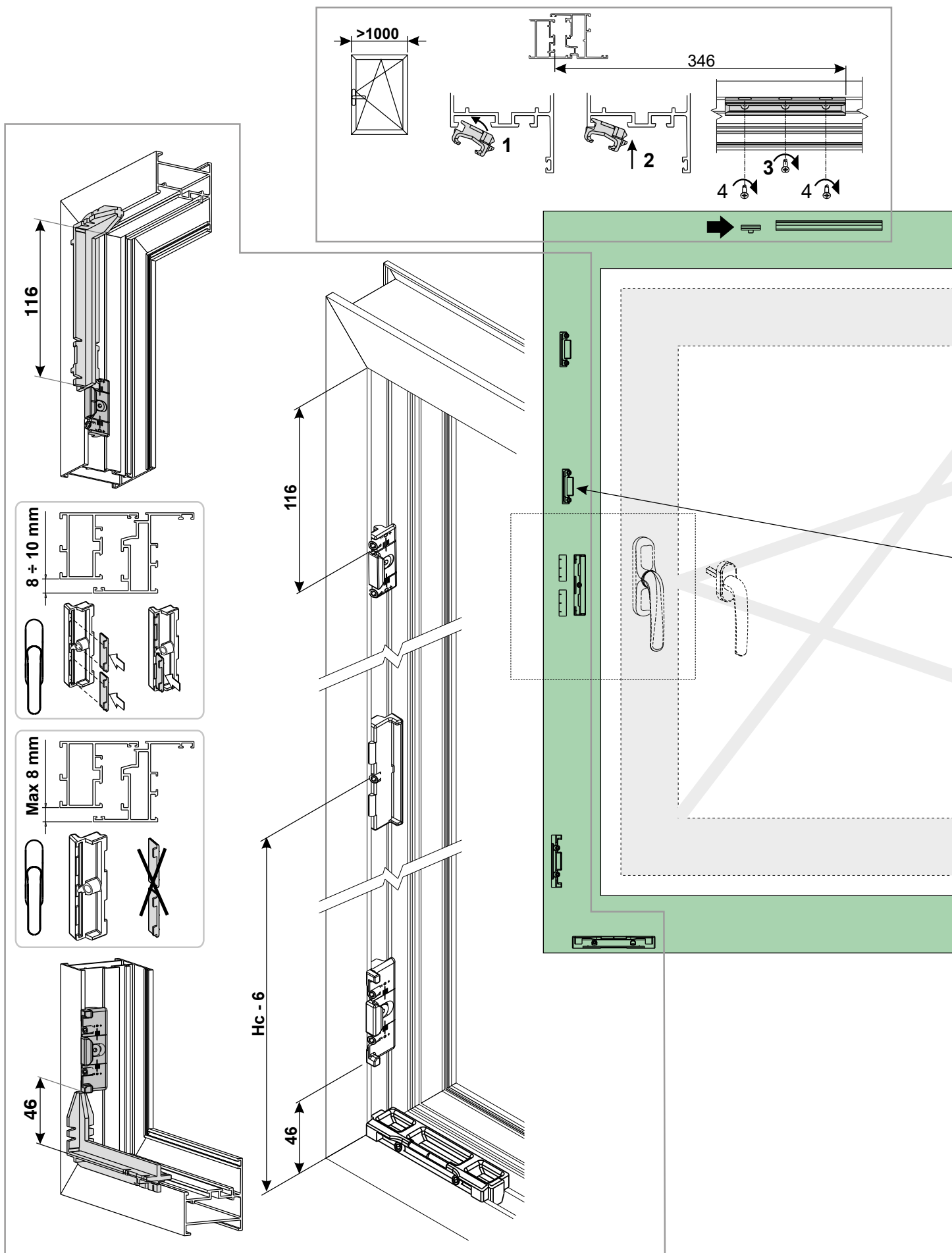
Use polyamide connecting rods or aluminium connecting rods which have been subject to oxidation treatment and not painted.

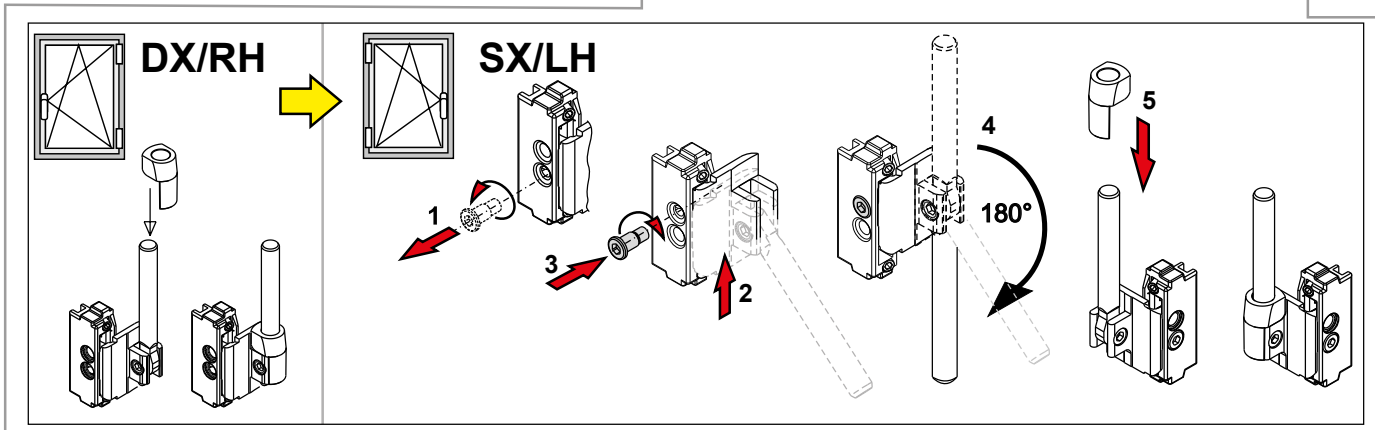
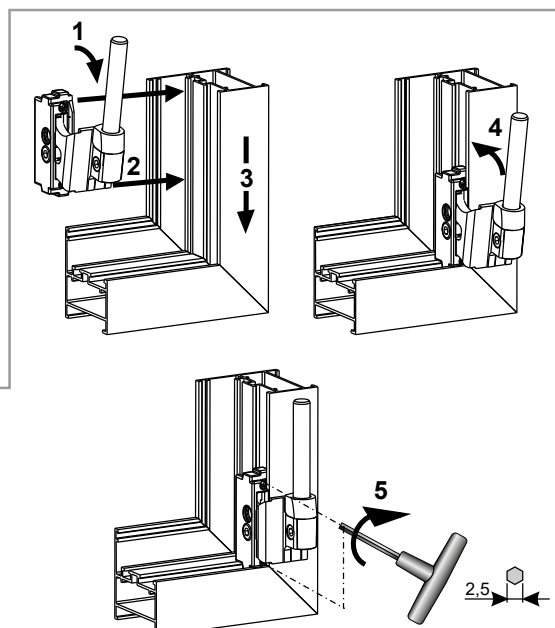
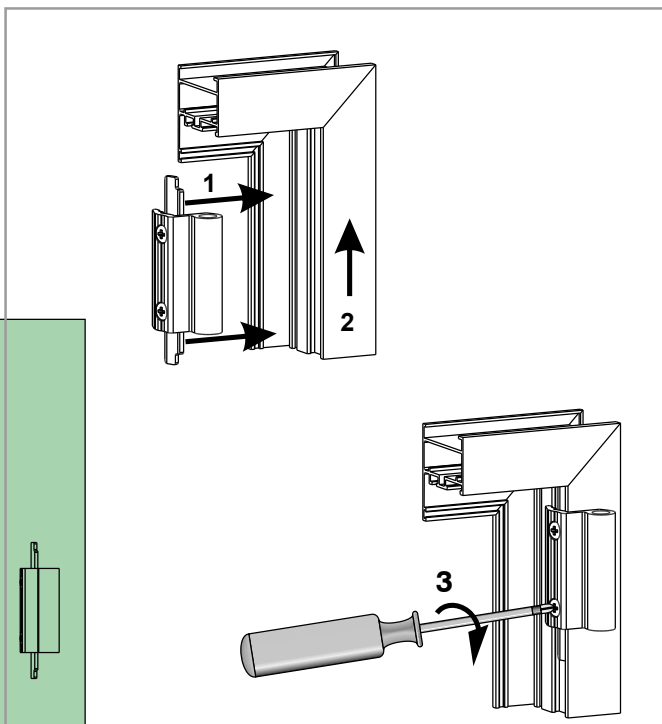
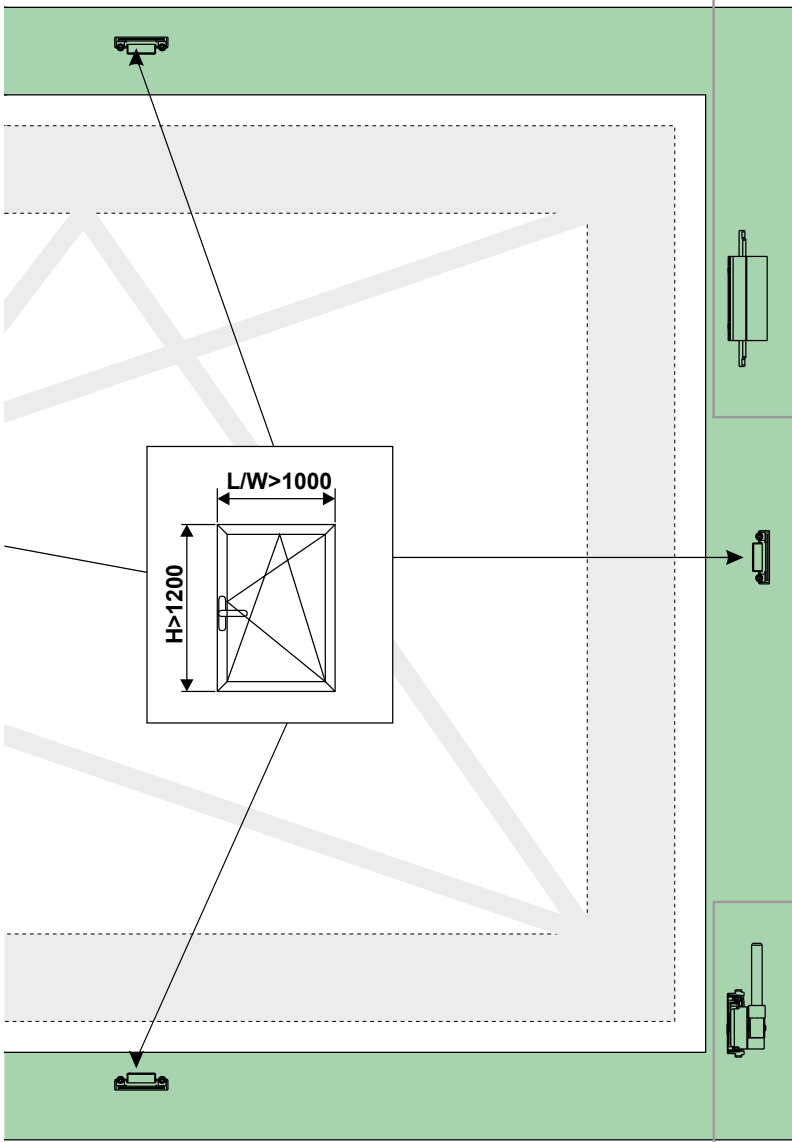
Carry out all the machining operations on the mobile wing indicated in this document. Correct functioning of the accessory described in these instructions is only guaranteed if the window has been installed correctly, that is, flush and without obstacles preventing total wing opening (at 180°).

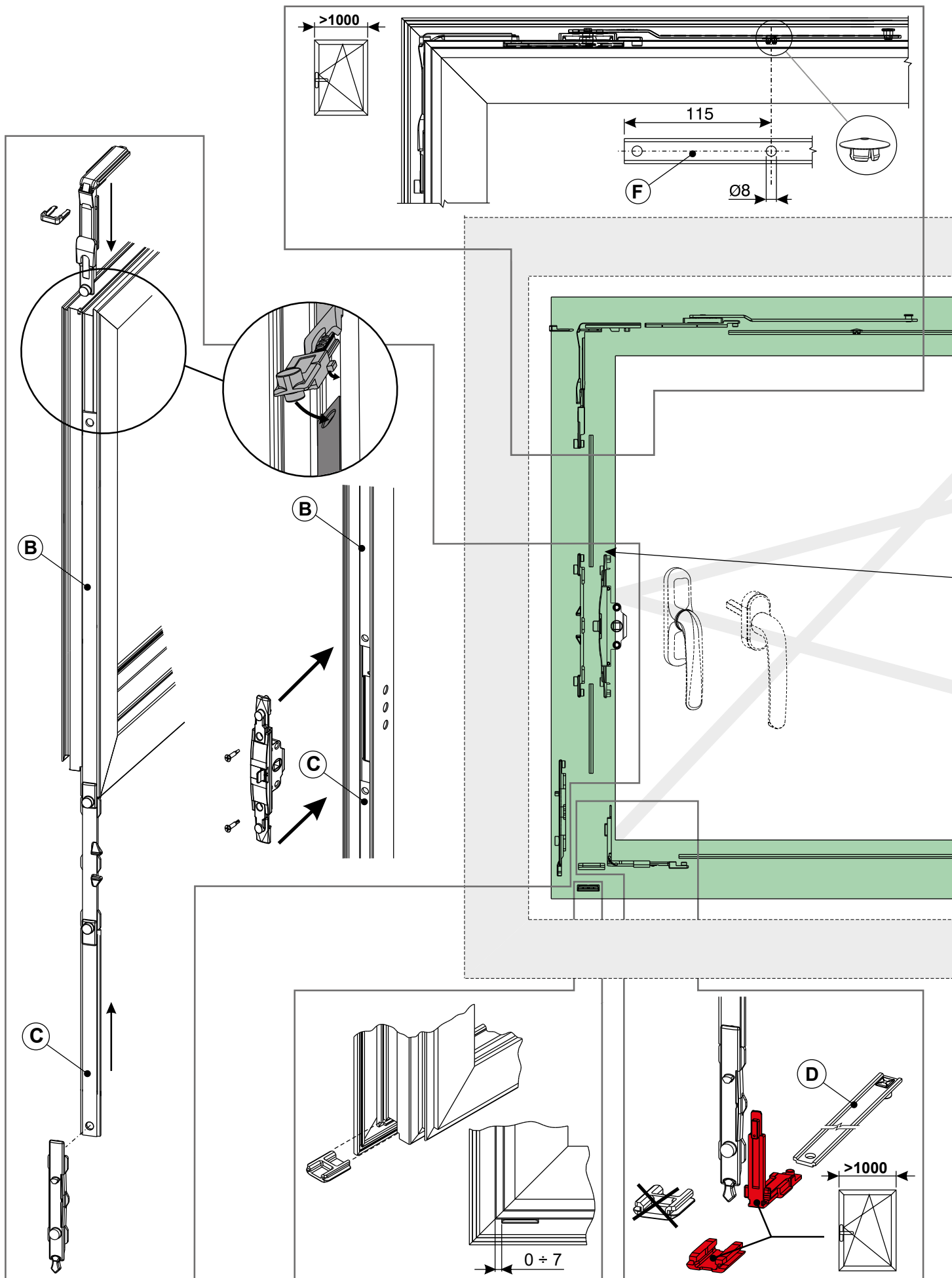
If this is not possible, you MUST use opening limiter elements.

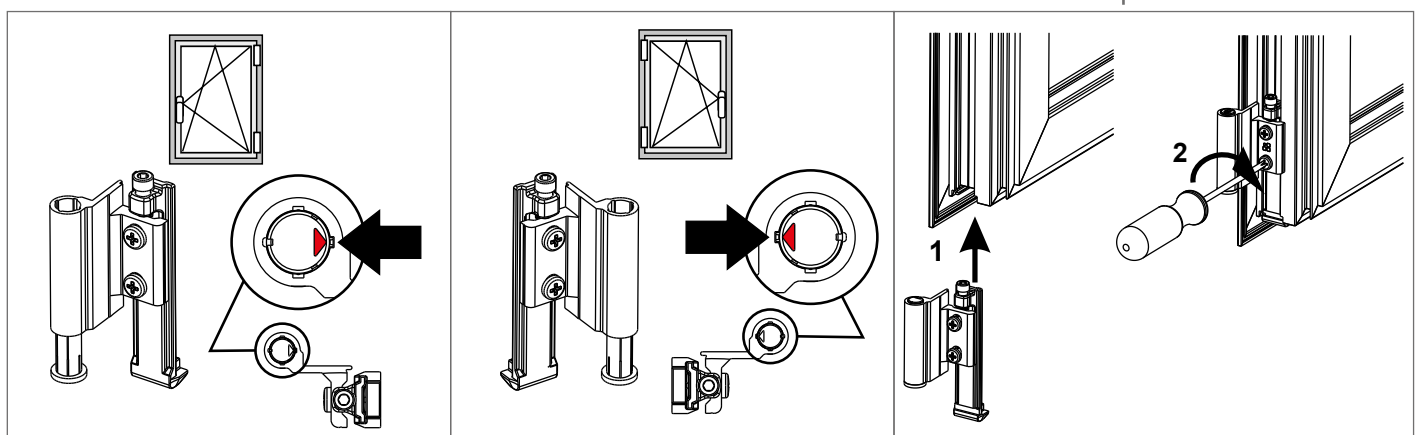
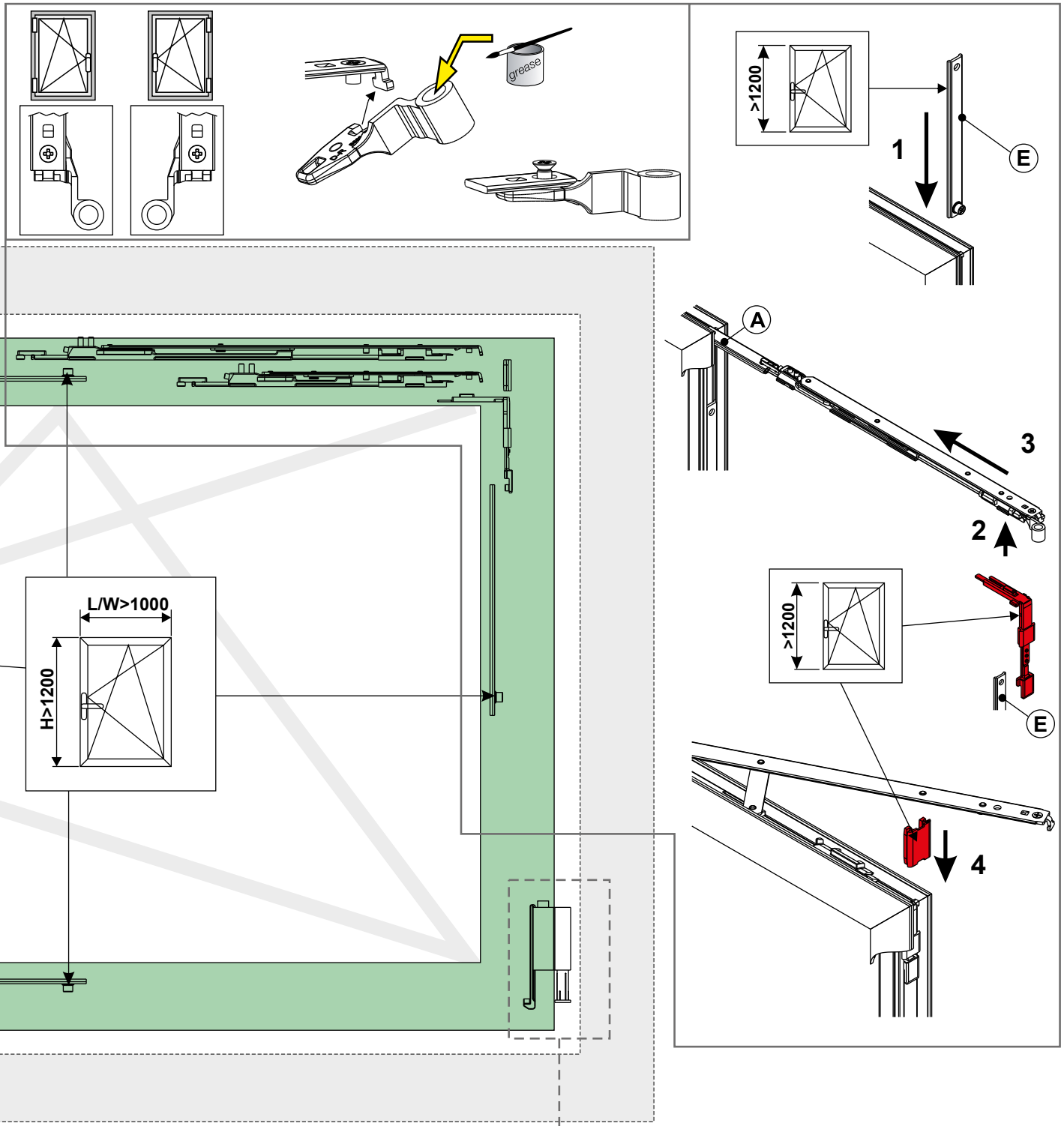


X	A	B
$X \leq 19$	15	60
$19 < X \leq 22.5$	13	35
$X > 22.5$	-	-

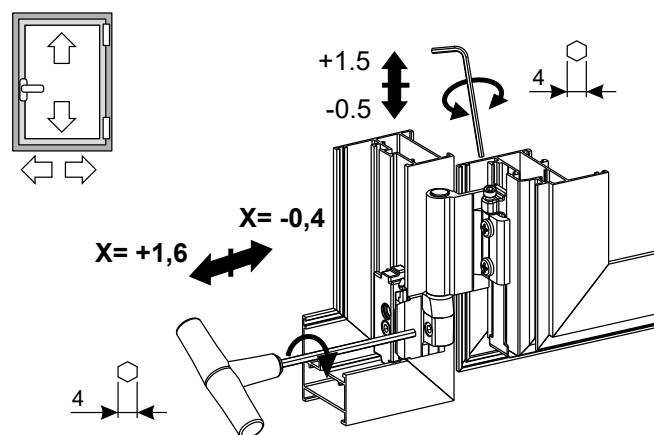
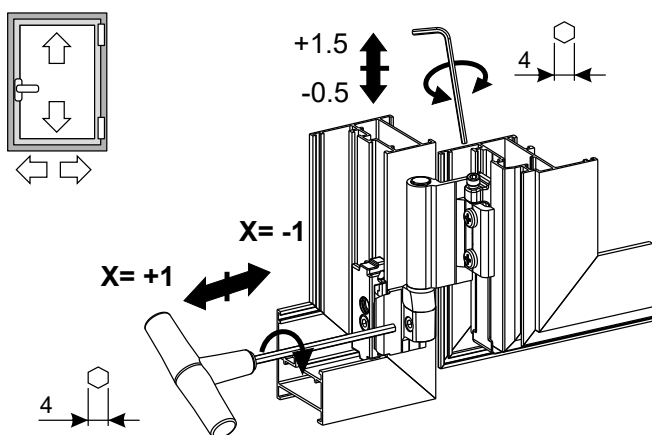
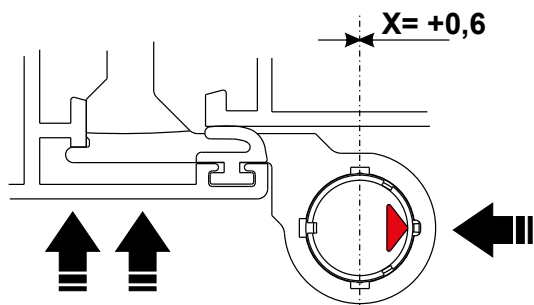
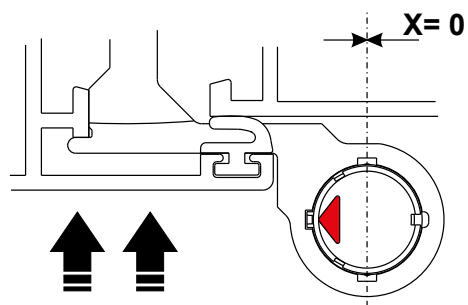
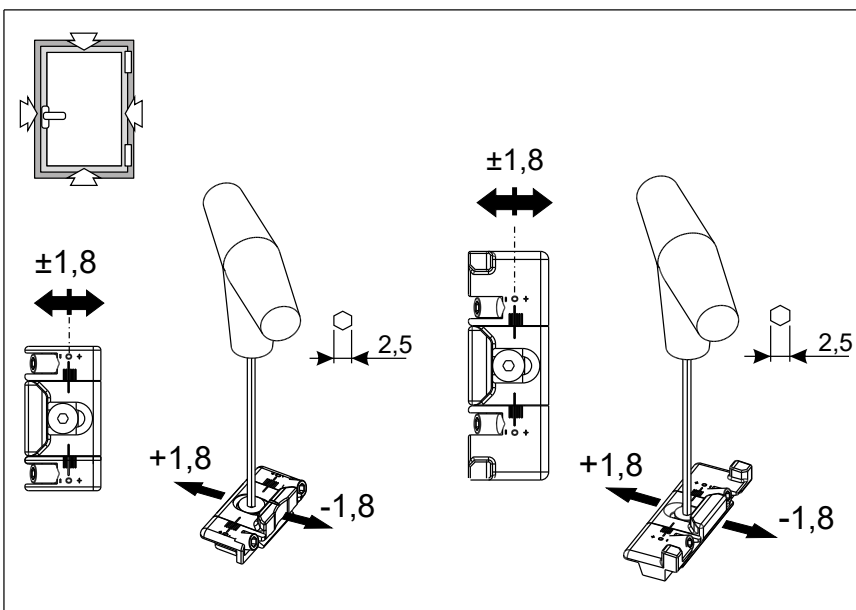
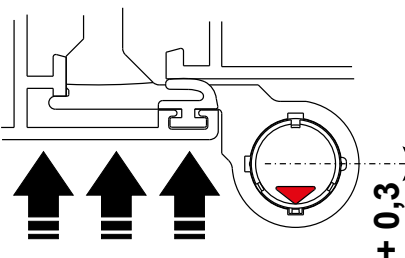
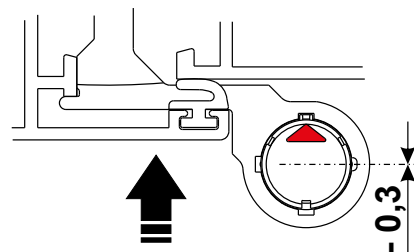
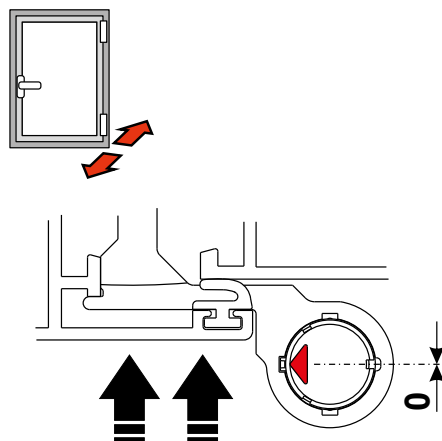
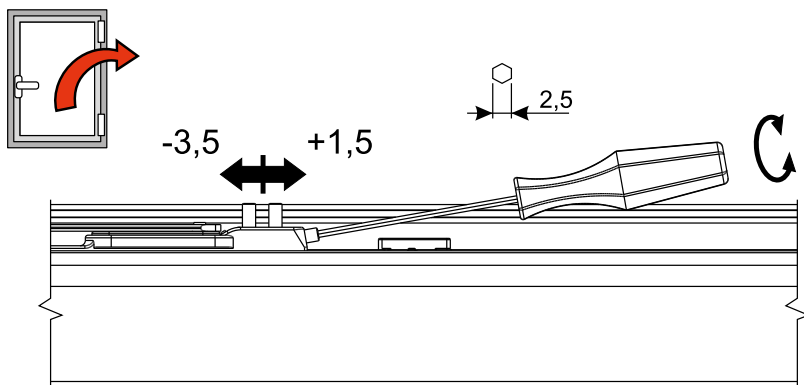


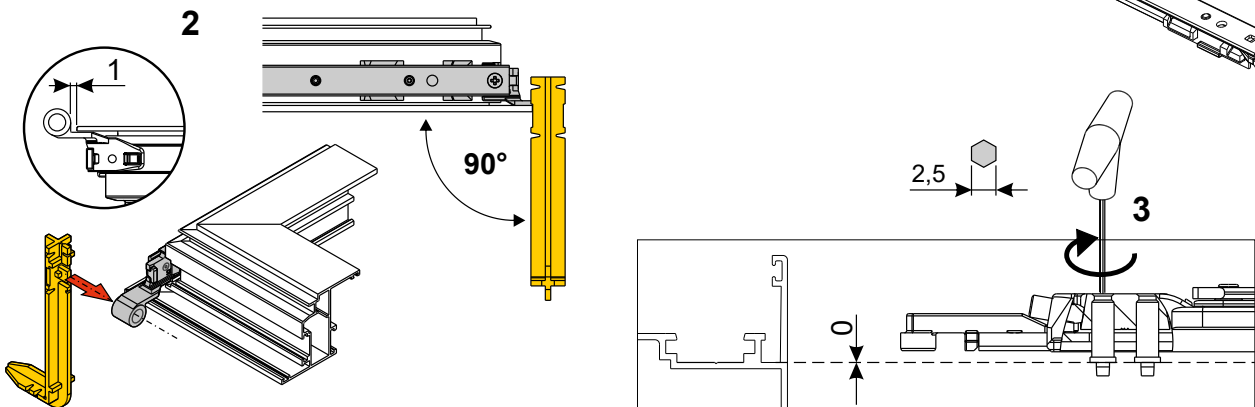
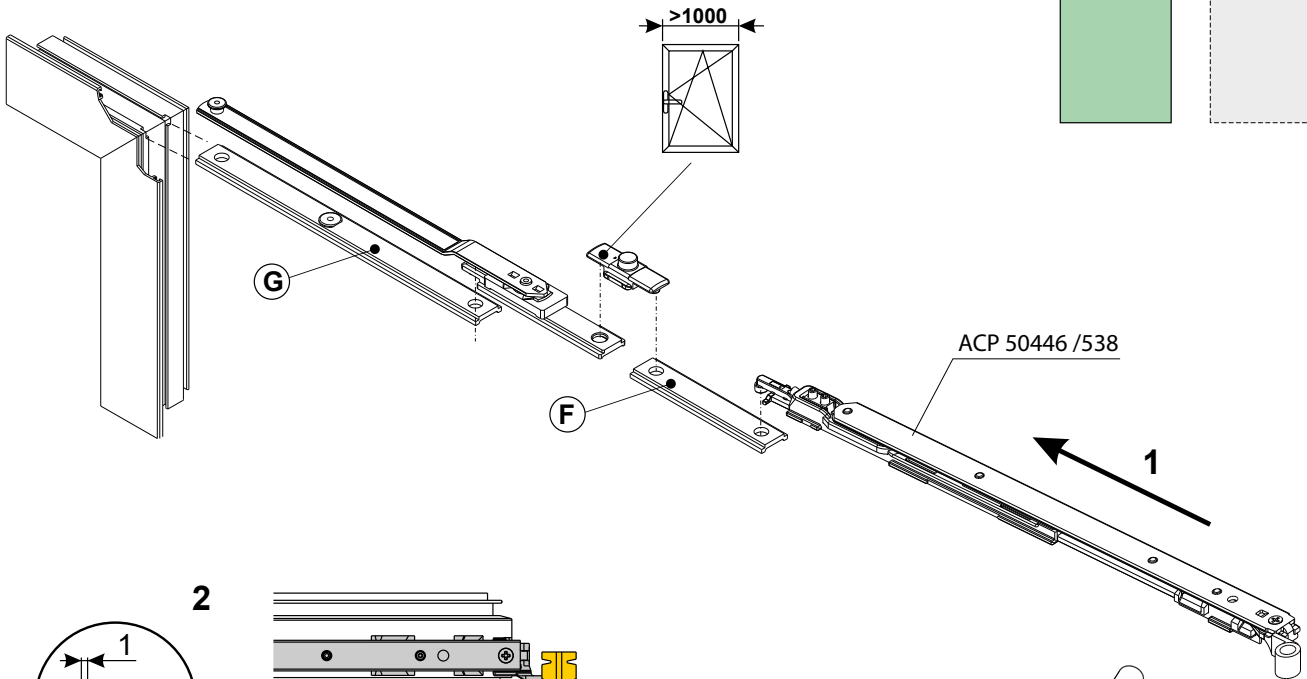
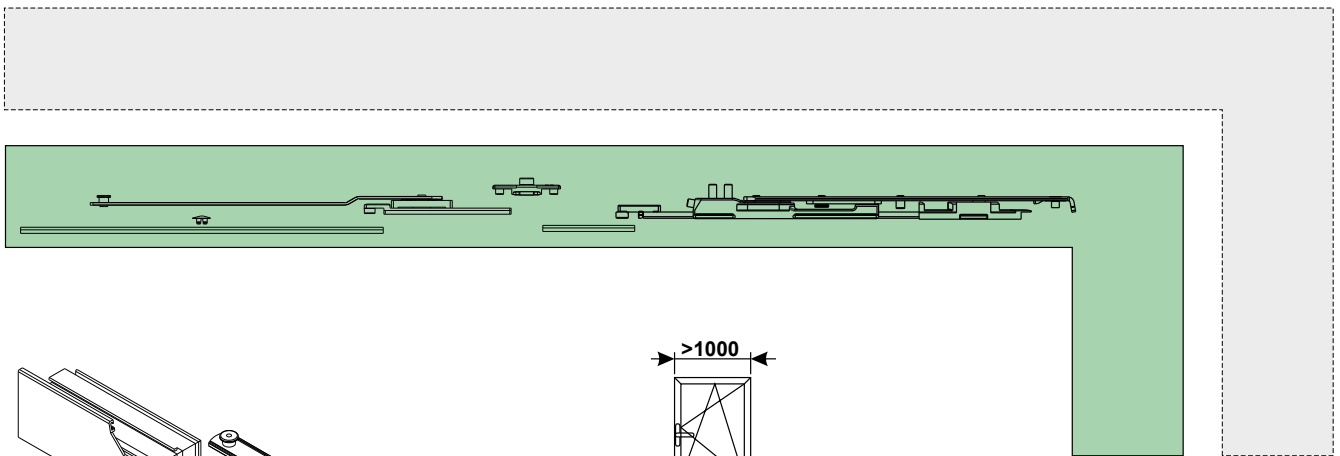
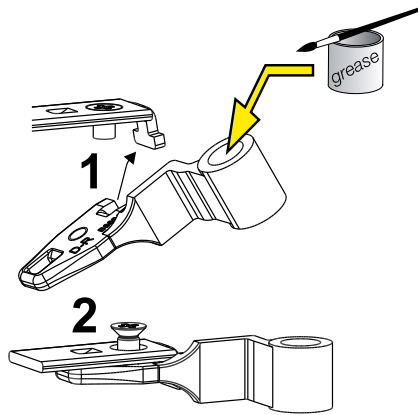
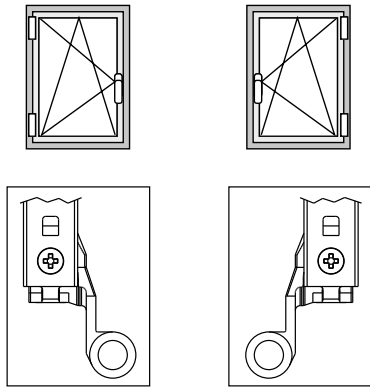


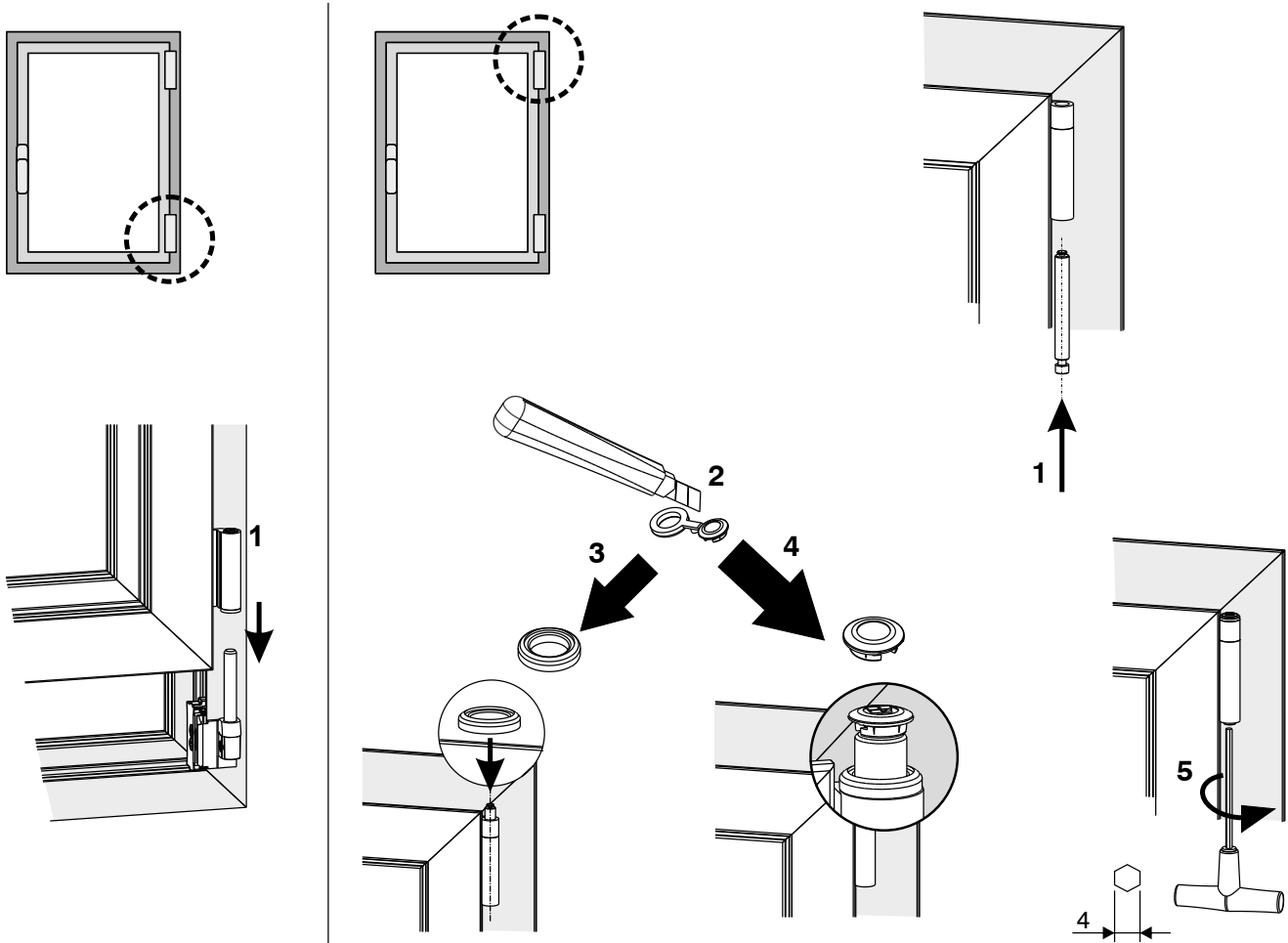




Regolazioni
Adjustments





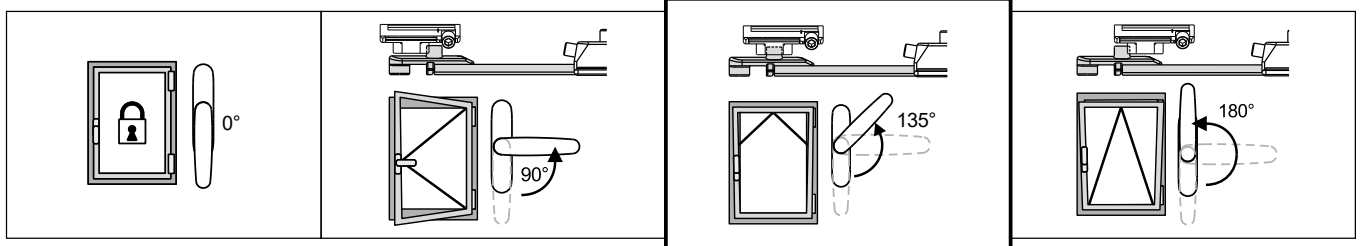
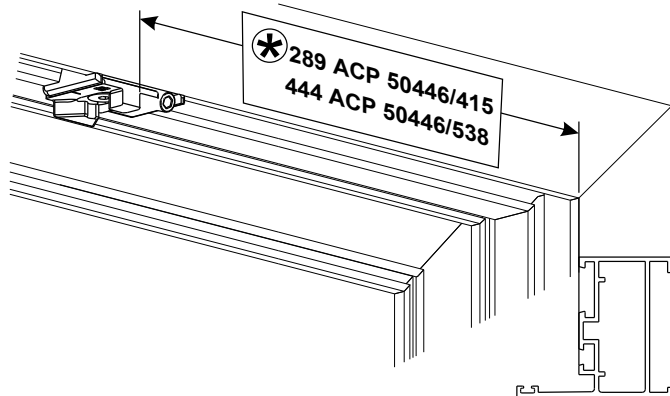
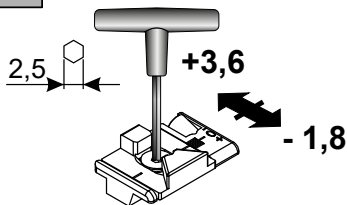
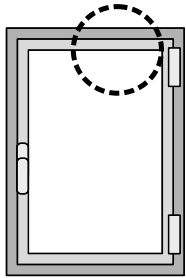


MICRO

⊛ Quote indicative da verificare sull'anta installata e regolata con cremone in posizione microventilazione
 Indicative distance to be checked on the leaf installed and adjusted in position with microventilation cremone

Cotas indicativas para el control de la hoja ensamblada y regulación cremona en posición de microventilación
 Die Maße sind zu überprüfen auf den montierten Flügel, und reguliert mit dem Griff bei der Mikrobelüftung Position

Η απόσταση τοποθέτησης είναι ενδεικτική. Ελέγξτε αφού πρώτα τοποθετήσετε το φύλλο και βάλετε την σπανιολέτα στην θέση μικρό-εξαερισμού.
 Cotes à vérifier sur l'ouvrant installé et réglé avec la crémonne en position micro-ventilation



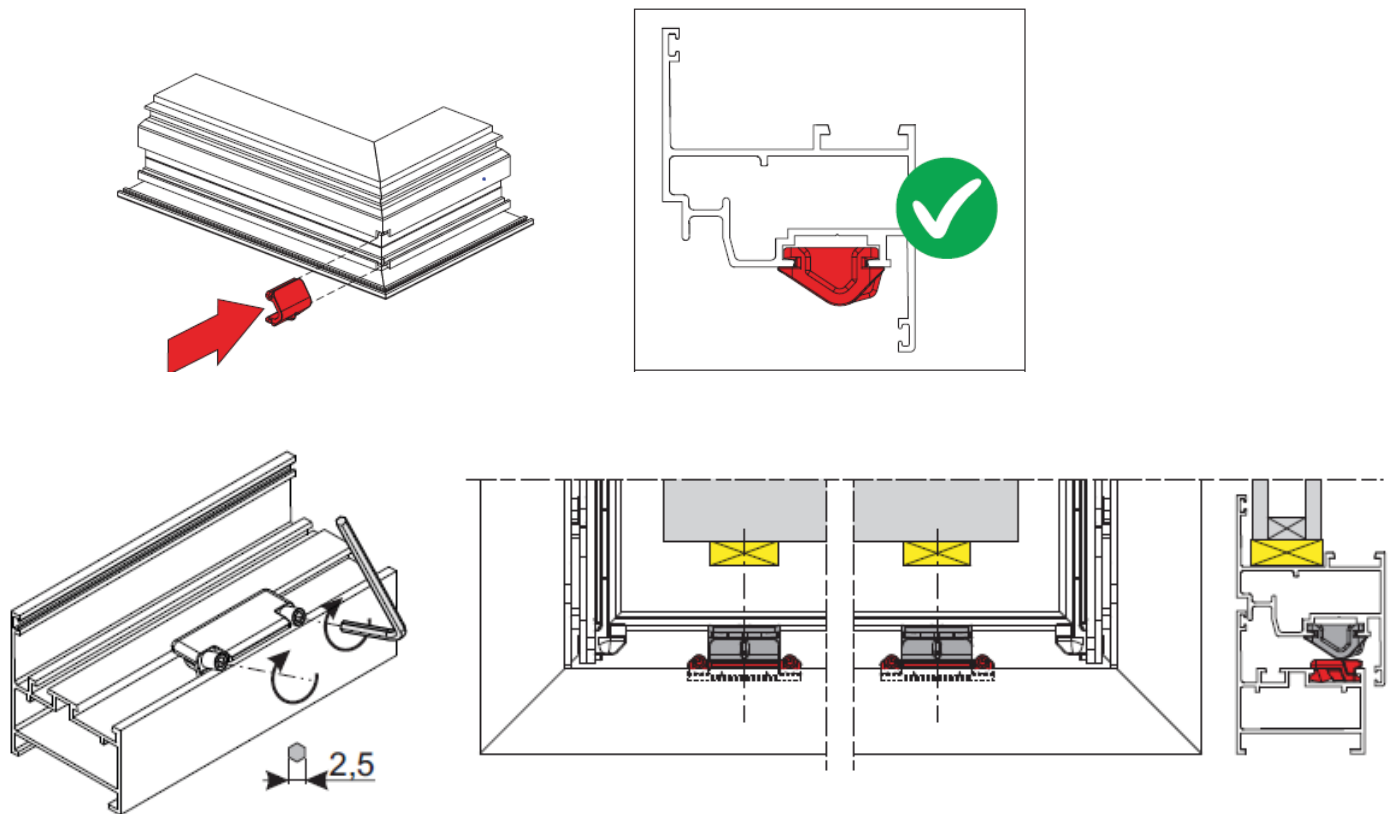
M17

Montaggio cerniere vasistas SECRET

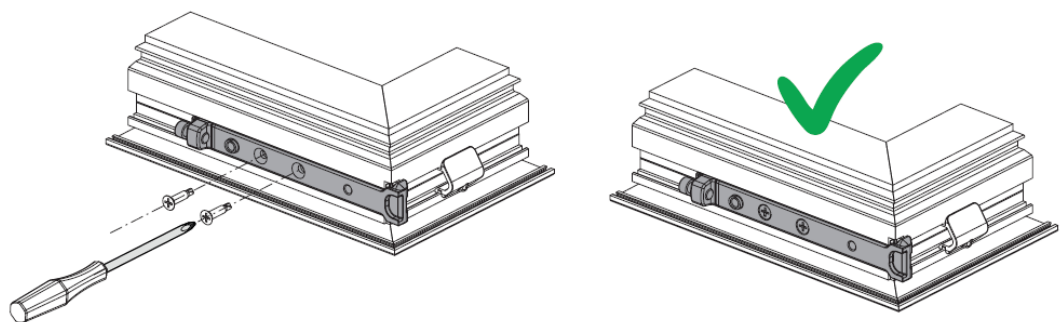
Assembly of SECRET bottom hinges

Sequenza di installazione

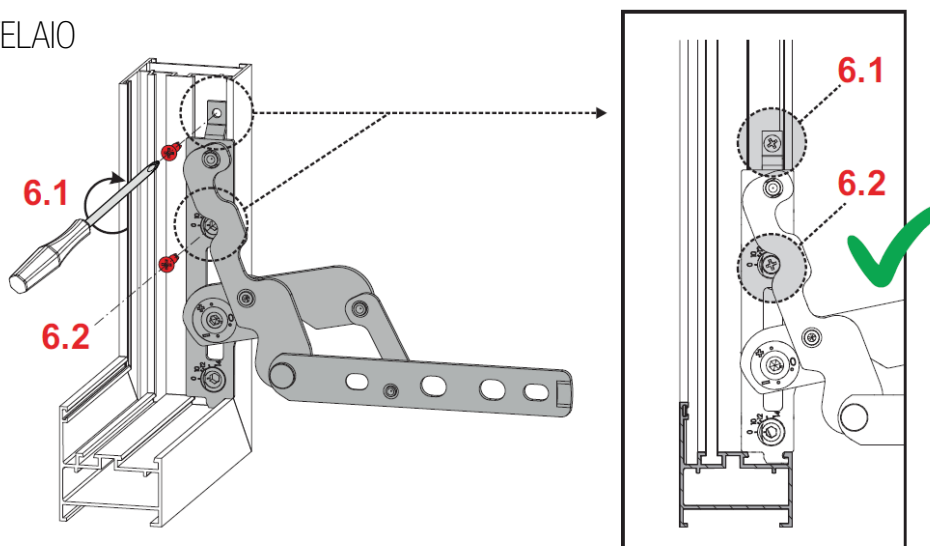
1 Sostegno anta



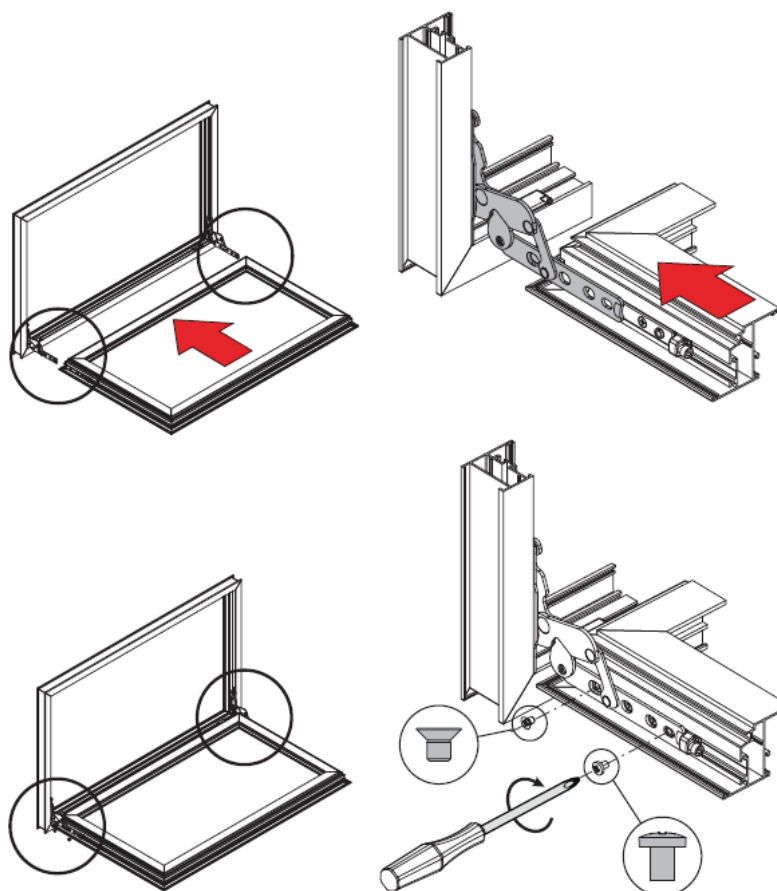
2 Componente ANTA



3 Componente TELAIO

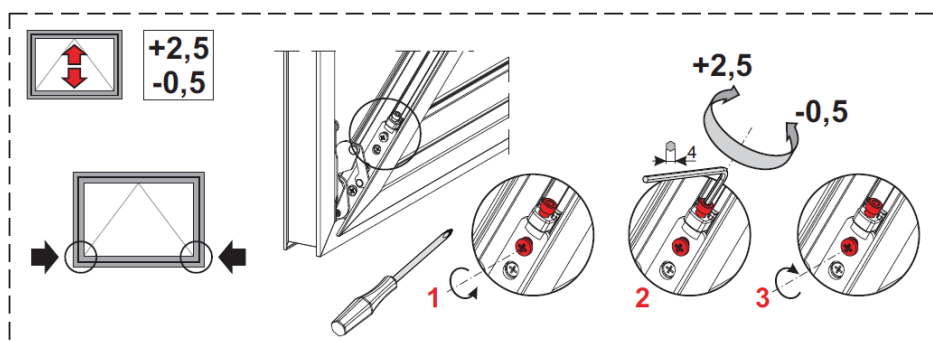


4 Unione anta a telaio

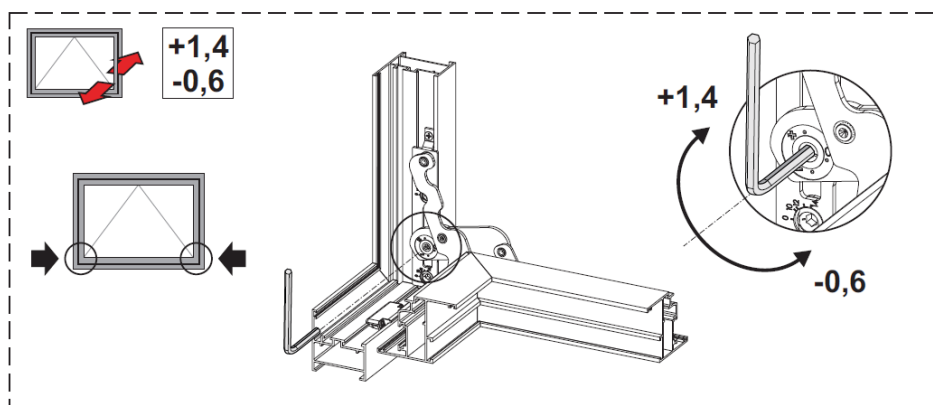


Regolazioni

Regolazione in **altezza**:
+ 2,5 ÷ - 0,5 mm



Regolazione in **compressione**:
+ 1,4 ÷ - 0,6 mm





ECO-SLIM 72 UP

Linea IRON

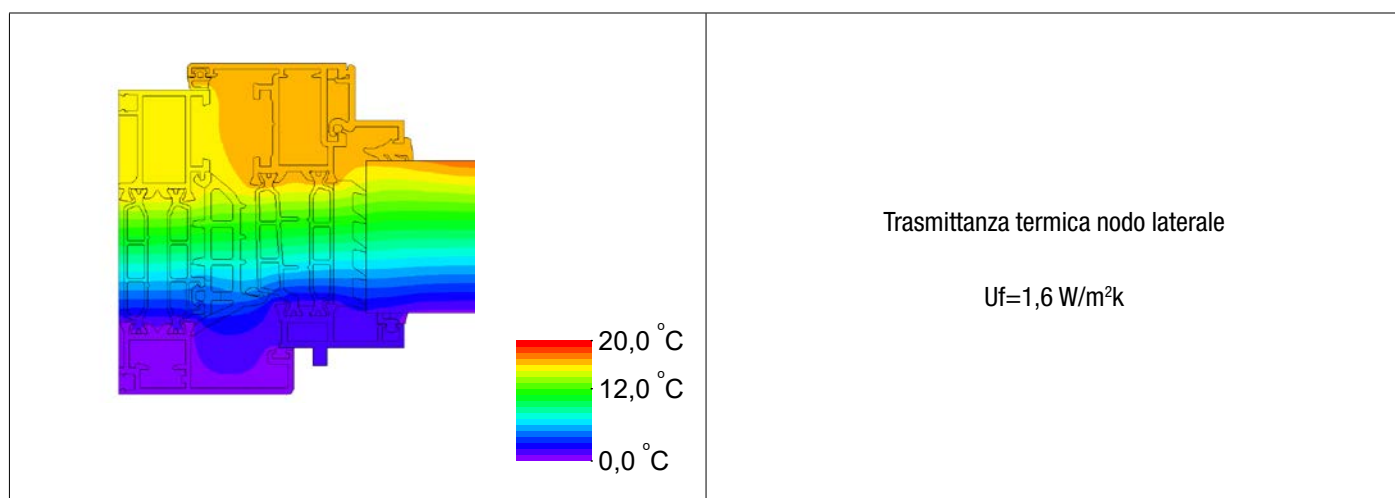
Determinazione della trasmittanza termica dei nodi del sistema per serramenti Ecoslim 72 UP linea IRON

Per la determinazione della trasmittanza termica dei profilati, sono stati certificati i nodi elencati sotto dal laboratorio notificato IRCCOS, secondo la normativa di prodotto UNI EN ISO 10077-2:2017, seguendo il metodo di calcolo tramite "Flixo 8.1". Il codice di riferimento del documento rilasciato dal laboratorio corrisponde al n° 1994-CPR-RP2658.

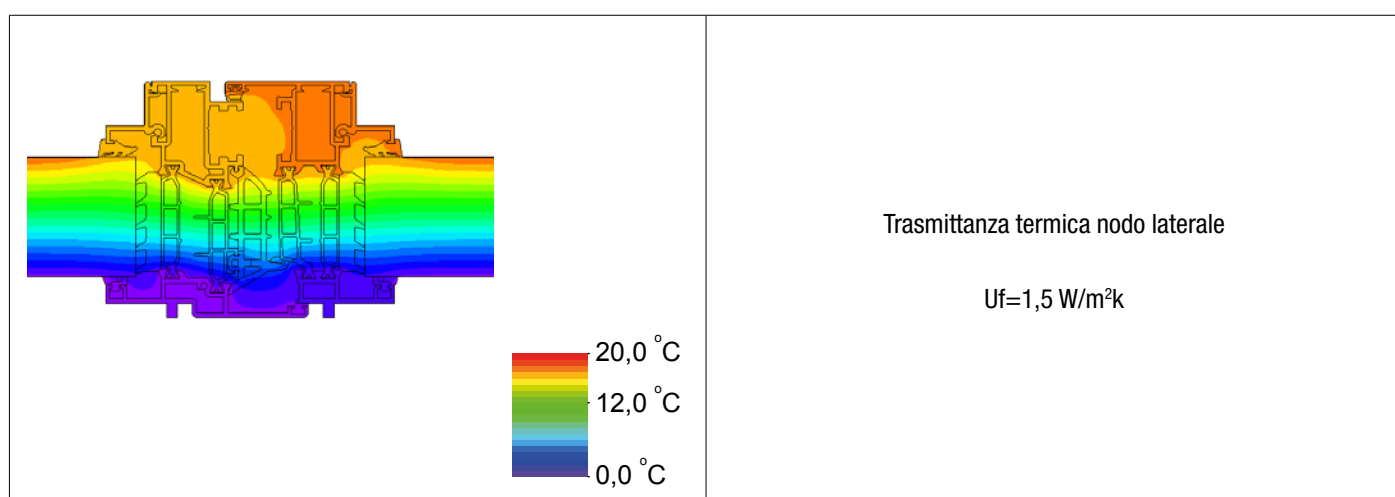
Metodologia di analisi utilizzata

Il calcolo della trasmittanza termica è stato eseguito in accordo con la norma UNI EN ISO 10077-2:2017. Per i calcoli è stato utilizzato il software "Flixo 8.1".

Andamento delle temperature e dei flussi del nodo laterale UP 12703 + UP 12727.



Andamento delle temperature e dei flussi del nodo centrale UP 12714 + UP 12727.



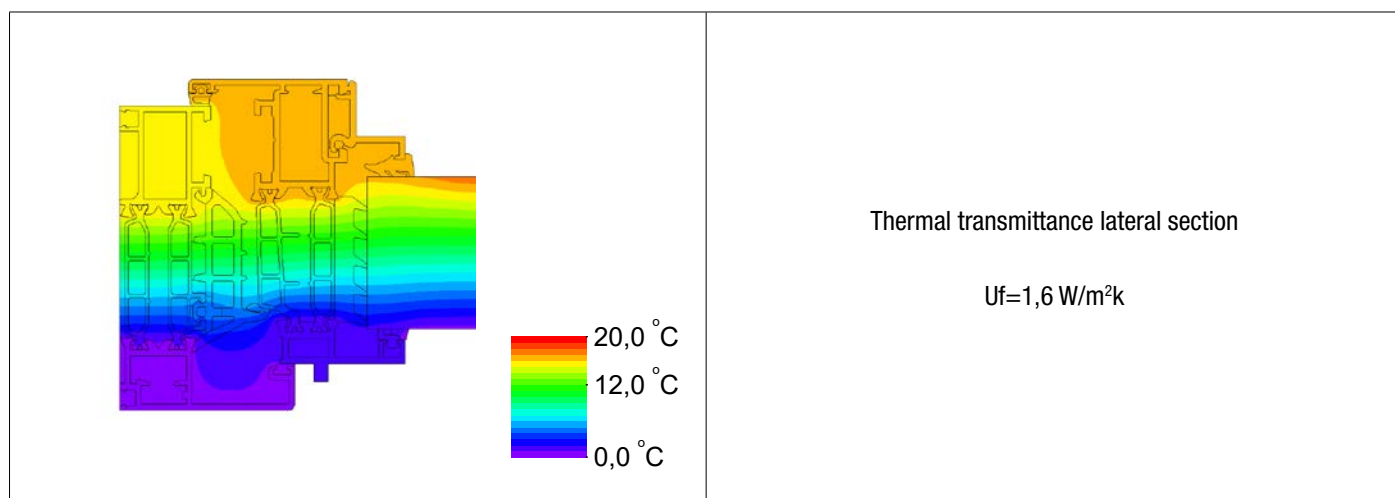
Determination of thermal transmittance of the sections of the Ecoslim 72 UP IRON line system for windows

For the determination of the thermal transmittance of the profiles, the sections listed below were certified by the IRcCOS notified laboratory, according to the UNI EN ISO 10077-2:2017 product standard, following the calculation method using "Flixo 8.1". The reference code of the document issued by the laboratory corresponds to n° 1994-CPR-RP2658.

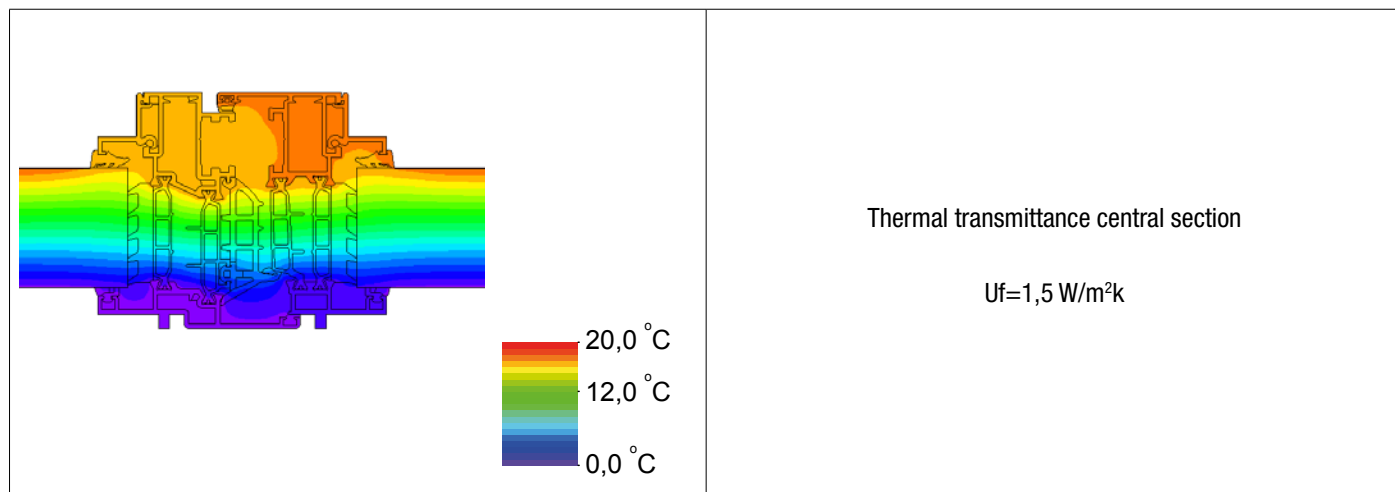
Methodology analysis used


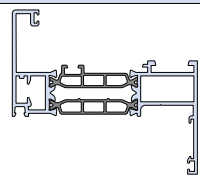

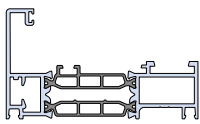

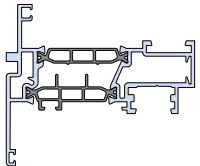

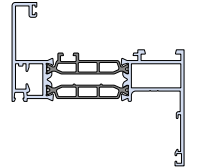

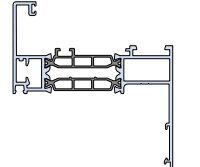

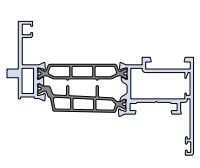

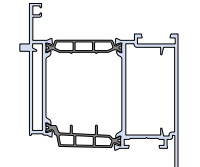
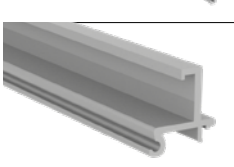

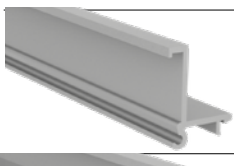
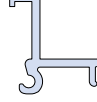
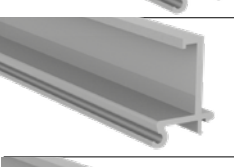
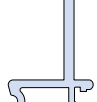
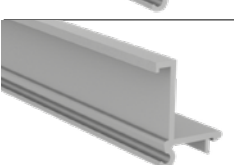

The calculation of the thermal transmittance was performed in accordance with the UNI EN ISO 10077-2:2017 standard. The "Flixo 8.1" software was used for the calculations.

Trend of temperatures and heat flows in the lateral section UP 12703 + UP 12727.

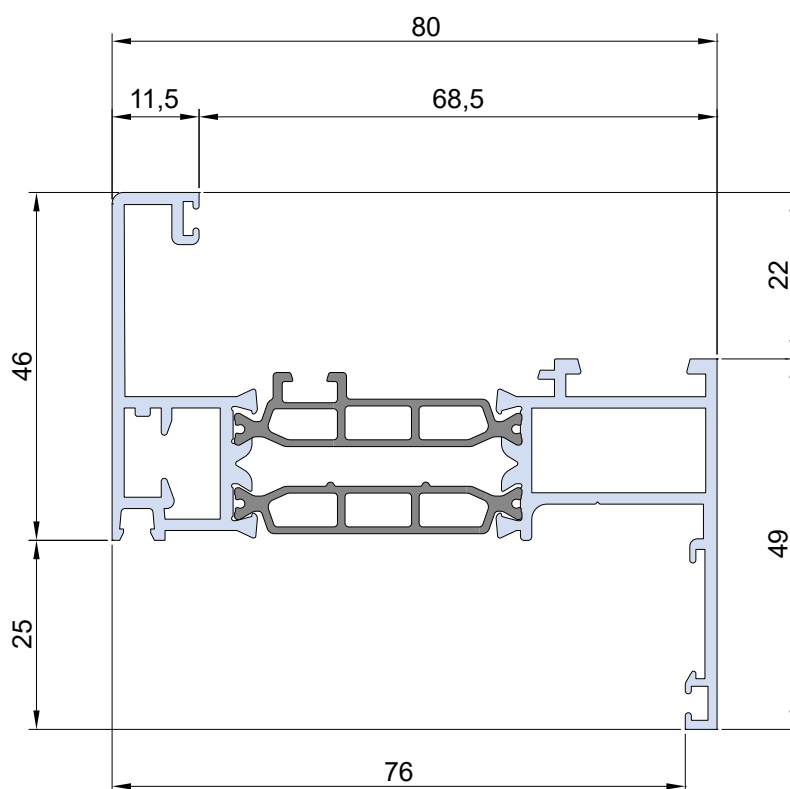


Trend of temperatures and heat flows in the central section UP 12714 + UP 12727.

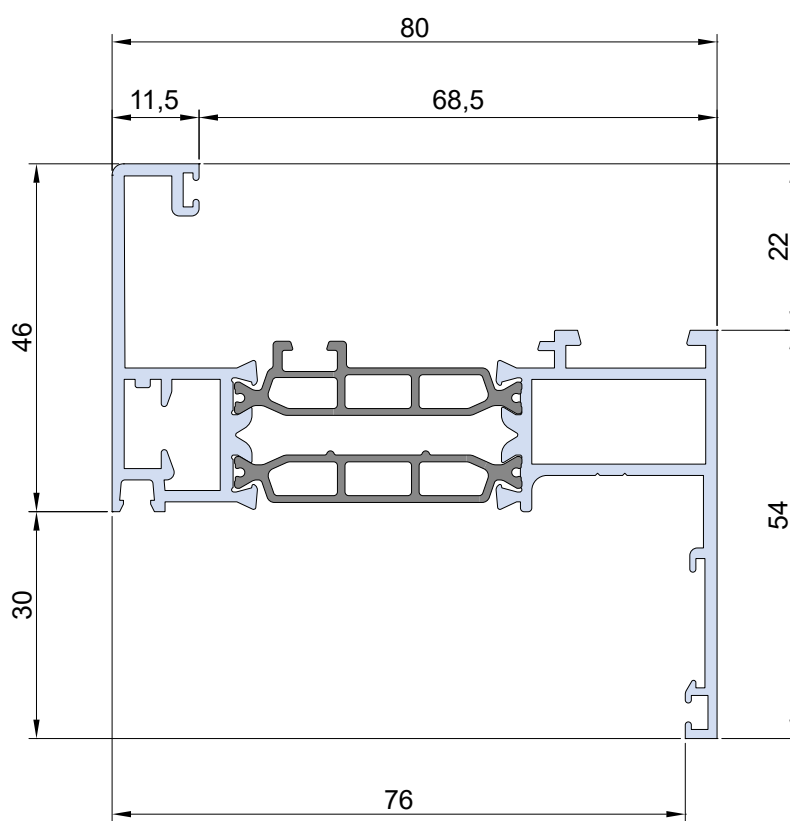


	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		UP 12702	Telaio a Z IRON spalla 76mm, battuta 25mm <i>IRON Z frame for shoulder 76mm, beat 25mm</i>	-	10,32 46,31
		UP 12703	Telaio a L IRON <i>IRON L frame</i>	-	6,71 37,53
		UP 12714	Profilo T all'italiana IRON <i>IRON T italian sash</i>	-	9,78 44,21
		UP 12721	Telaio a Z IRON spalla 76mm battuta 30mm <i>IRON Z frame for shoulder 76mm beat 30 mm</i>	-	11,87 47,92
		UP 12722	Telaio a Z IRON spalla 76mm battuta 40mm <i>IRON Z frame for shoulder 76mm beat 40 mm</i>	-	16,11 50,88
		UP 12727	Anta normale IRON <i>IRON flat sash</i>	-	5,75 37,41
		UP 12728	Anta maggiorata IRON <i>IRON oversized sash</i>	-	40,85 60,13
		PL 11411 *	Fermavetro IRON per ante da 10mm <i>IRON for 10mm sashes smooth glazing bead</i>	218	- -
		PL 11421 *	Fermavetro IRON per ante da 21mm <i>IRON for 21mm sashes smooth glazing bead</i>	201	- -
		PL 14411 *	Fermavetro IRON per fissi da 10mm <i>IRON for 10mm fixed smooth glazing bead</i>	257	- -
		PL 14421 *	Fermavetro IRON per fissi da 21mm <i>IRON for 21mm fixed smooth glazing bead</i>	231	- -

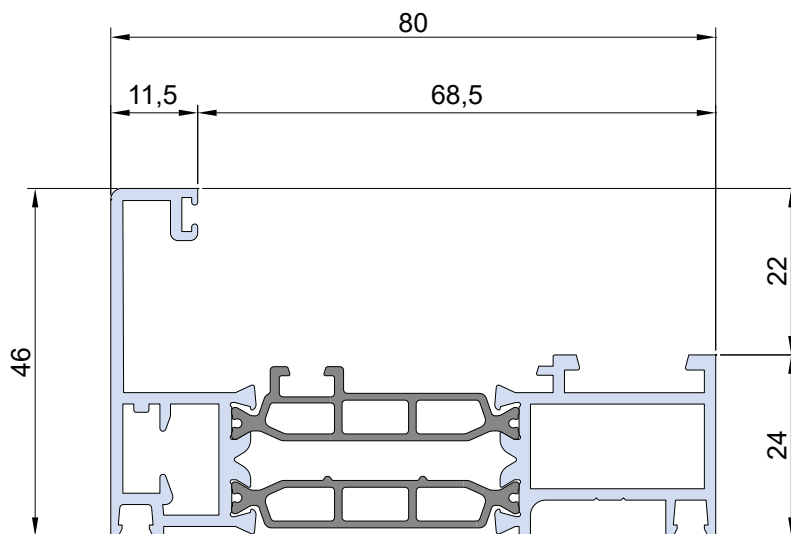
* Utilizzare sempre ACP 5027 Use ACP 5027 always



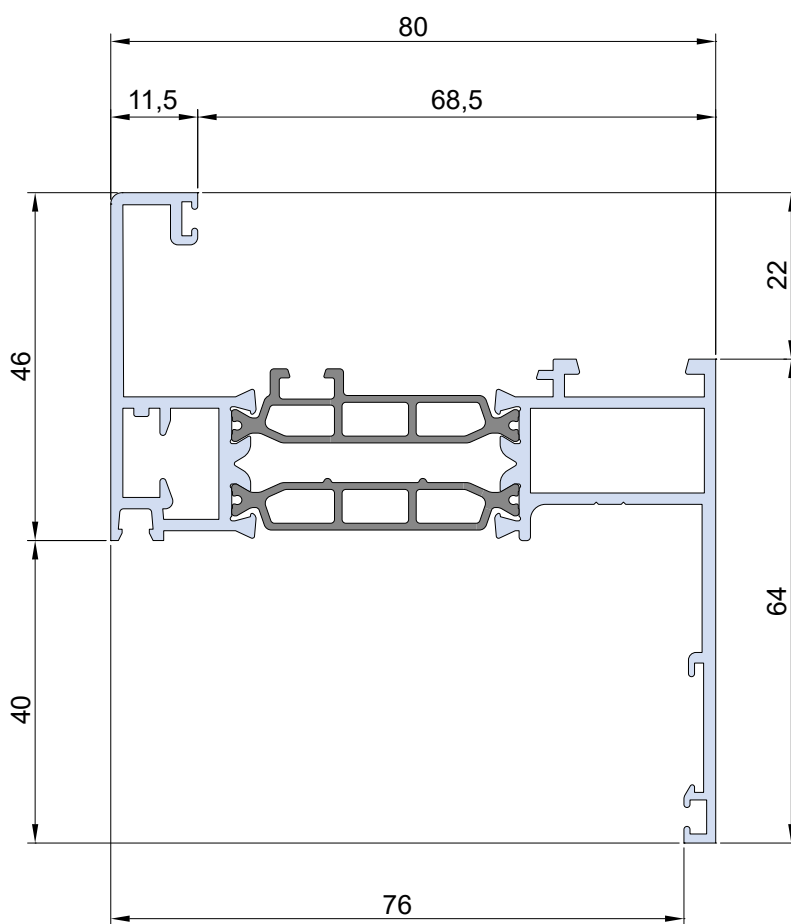
UP 12702



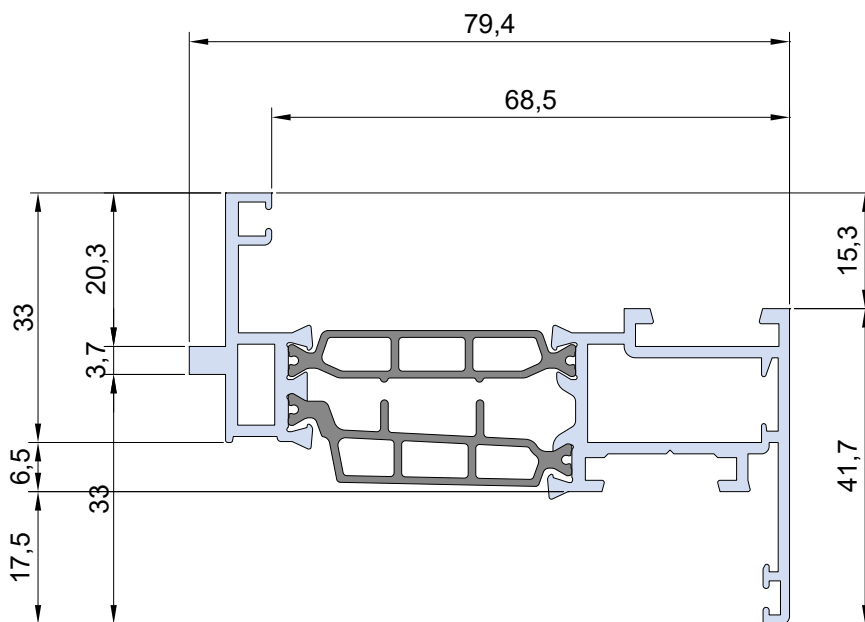
UP 12721



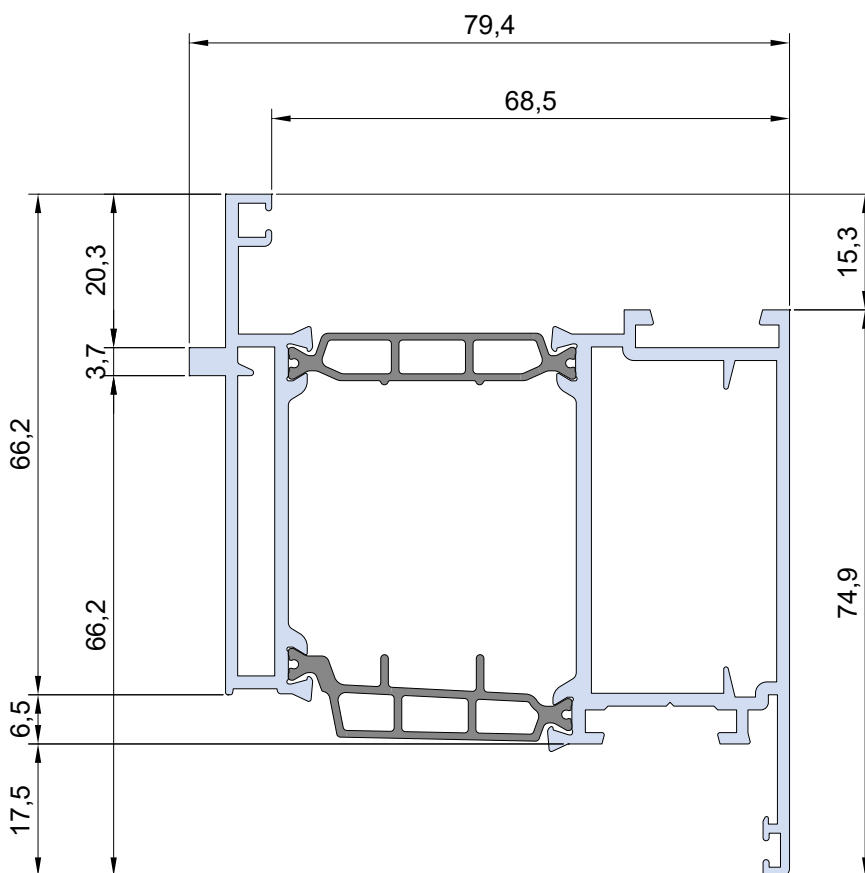
UP 12703



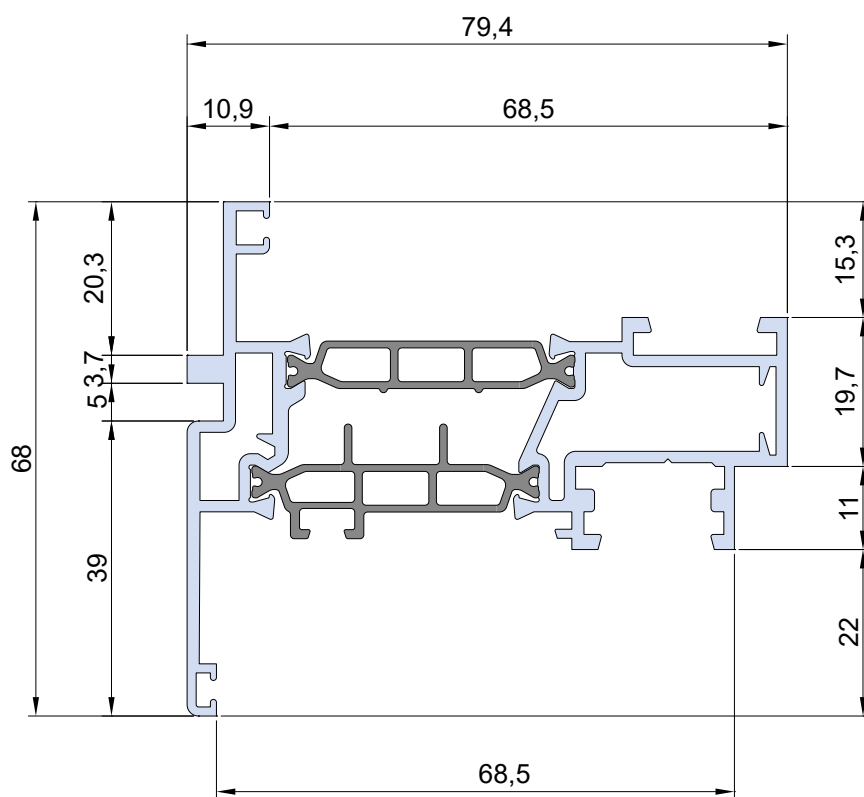
UP 12722



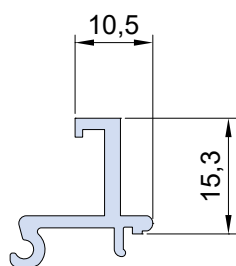
UP 12727



UP 12728



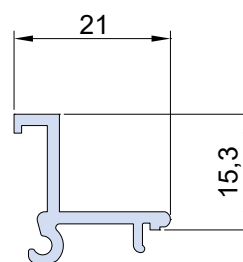
UP 12714



PL 11411

218 gr/m

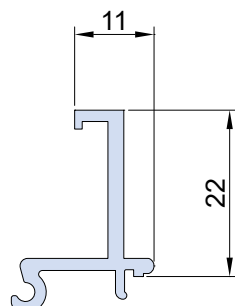
*



PL 11421

201 gr/m

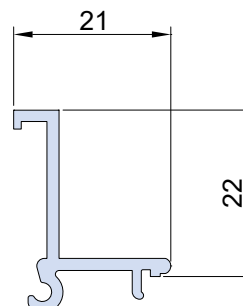
*



PL 14411

257 gr/m

*

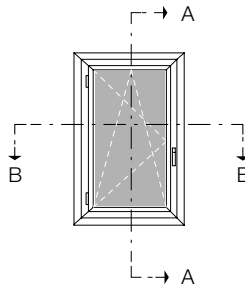


PL 14421

231 gr/m

*

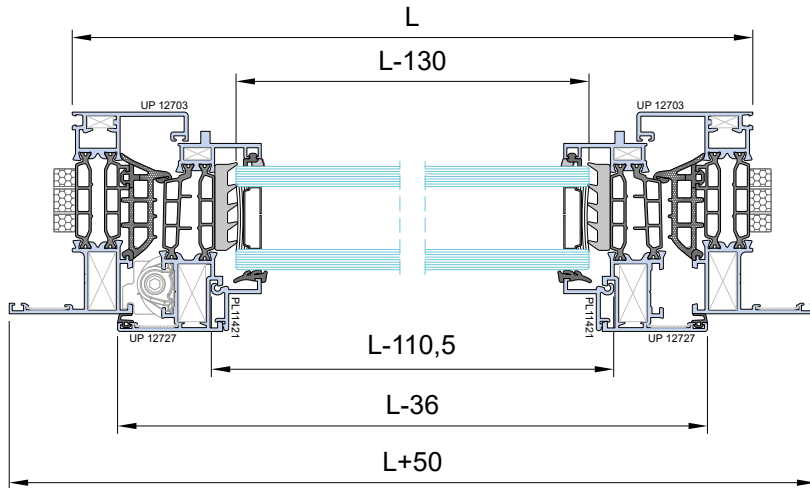
* UTILIZZARE SEMPRE GOMMINO ACP5027



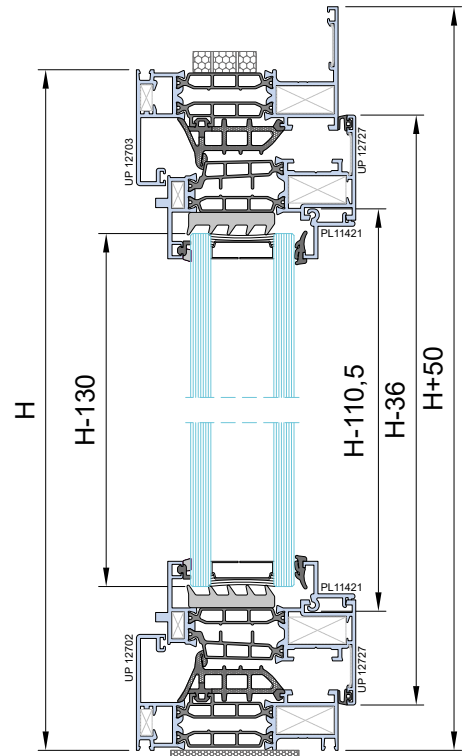
Distinta vetri
Glass list

Finestra 1 anta ribalta IRON
Window 1 sash lift & turn IRON

Pezzi	L	H
1	L-130	H-130



Sez. B-B



Sez. A-A

Art.	Descrizione	Pezzi	Misura	Taglio
UP 12602	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 12603	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 12627	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-36	
PL 11421	Traverso fermavetro <i>transom glazing bead</i>	2	L-110,5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-110,5	

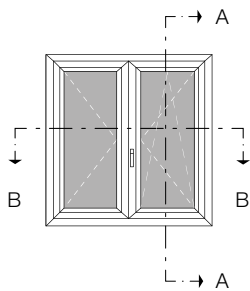
Profiles' list
Distinta profili

Accessories' list
Distinta accessori

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	8 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	16 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5150	Kit a/r cerniera a scomparsa <i>a/r set concealed hinge</i>	1 kit
ACP 50314	EXENS linea Aurora <i>EXENS Aurora serie</i>	1pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
ACP 5027	Gommino bloccaggio fermavetri <i>glazing bead locking rubber strip</i>	8 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz
ACP5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L-36
		2	H-36
AGP 6231N	Sottovetro <i>glazing strip</i>	2	L-112 H-112
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		2	H-116
AGP 7007	Vetro esterno <i>external glass gasket</i>	2	L-136
		2	H-136
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	2	L-136
		2	H-136
AGP 5034/25	Isolamento spalla <i>side insulation</i>	1	L
		2	H
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

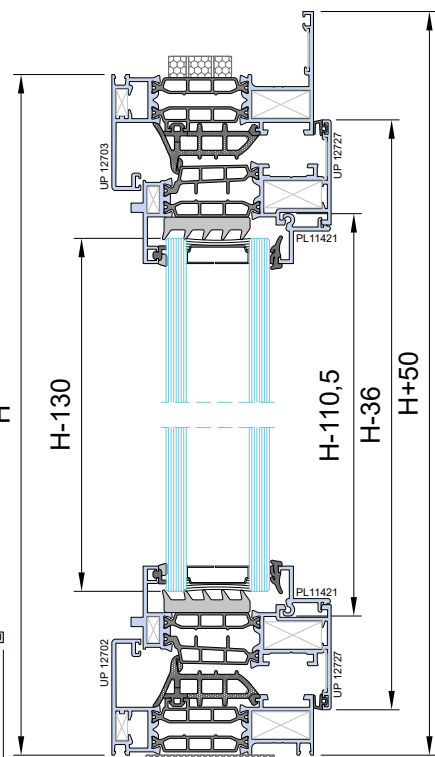
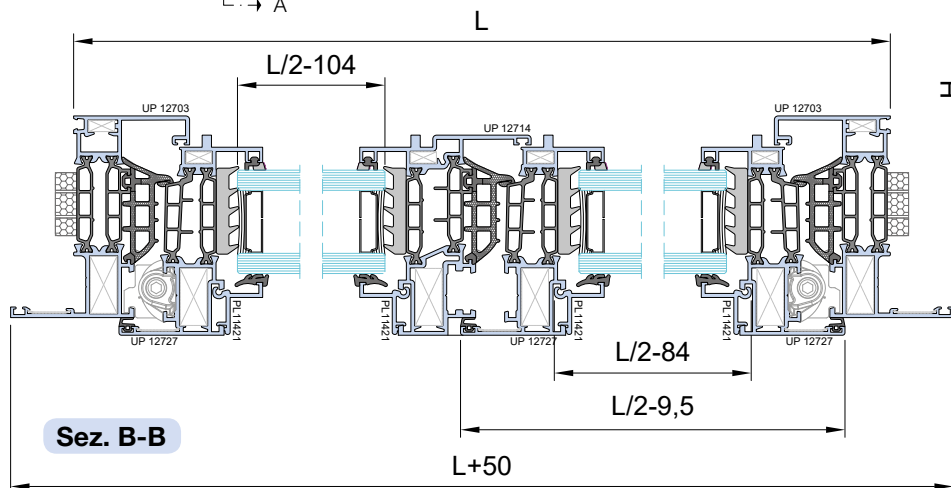
Gaskets' list
Distinta guarnizioni



Distinta vetri
Glass list

Finestra 2 ante ribalta IRON
Window 2 sash lift & turn IRON

Pezzi	L	H
2	L/2-104	H-130



Sez. A-A

Distinta profili
Profiles' list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 12702	Traverso telaio superiore head transom frame	1	L+50	
	Montante telaio mullion frame	2	H+50	
UP 12703	Traverso telaio inferiore bottom transom frame	1	L	
UP 12727	Traverso anta transom sash	4	L/2-9,5	
	Montante anta mullion sash	3	H-36	
PL 11421	Traverso fermavetro transom glazing bead	4	L/2-84	
	Montante fermavetro mullion glazing bead	4	H-110,5	
UP 12714	Montante T all'italiana transom italian T	1	H-14	

Distinta guarnizioni
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta wall seal	4 L/2-9,5 3 H-36
		Sottovetro glazing strip	4 L/2-86 4 H-112
AGP 72172		Pinna giunto aperto central rabbet	2 L-116 3 H-116
		Vetro esterno external glass gasket	4 L/2-107 4 H-136
Dipende dal vetro		Vetro interno internal glass gasket	4 L/2-107 4 H-136
		Isolamento spalla side insulation	1 L 2 H
AGP 5037		1	L

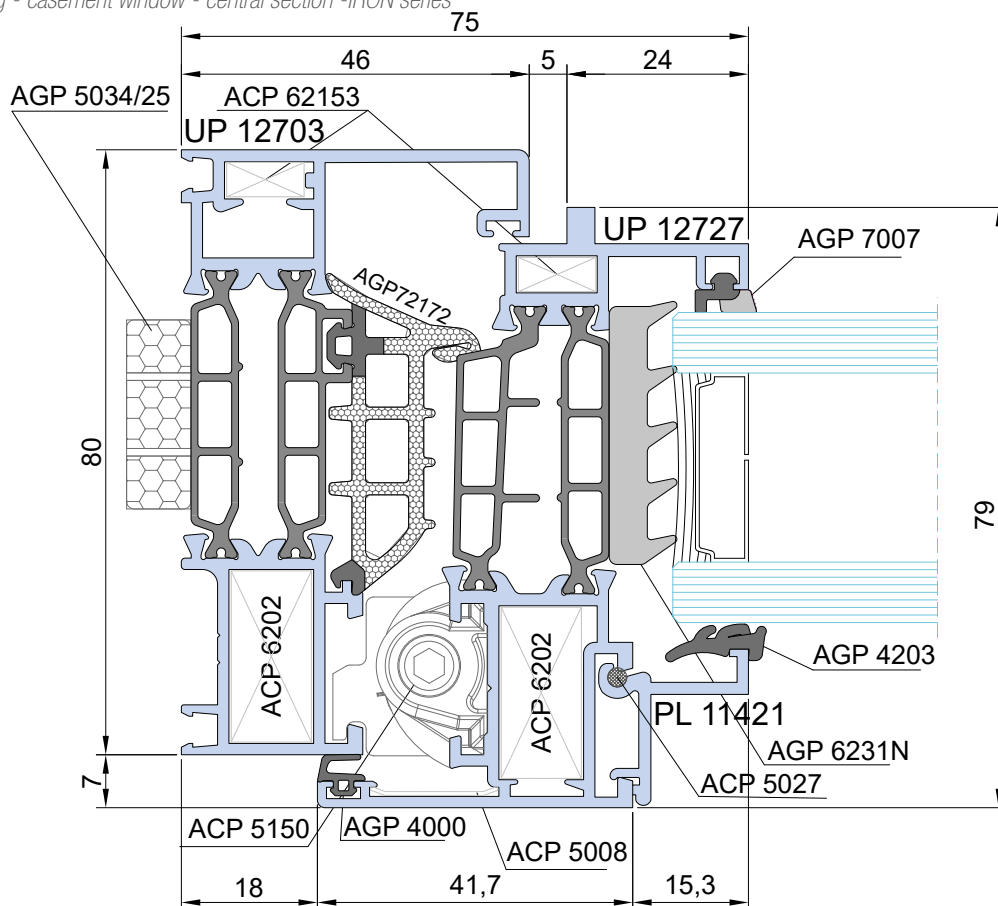
Distinta accessori
Accessories' list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone press-type corner joint	12pz
ACP 62153	Squadretta multifunzione multifunctional corner joint	12 pz
ACP 5027	Gommino bloccaggio fermavetri glazing bead locking rubber strip	16 pz
ACP 5008	Squadretta all. inox alignment corner joint	8 pz
ACP 50478	Kit manovra handle set	1 kit
ACP 50314	EXENS linea Aurora Aurora martellina handle mechanism	1pz
ACP 5157	Kit catenacci bidirezionali handle bidirection set	1 kit
ACP 5030	Spina per ACP 62153 pin for ACP 62153	24 pz
ACP 5150	Kit a/r cerniera a scomparsa a/r set concealed hinge	1 kit
ACP 5161	Kit cerniera anta passiva hinge passive sash set	1 kit
ACP 5036	Regolo muro in metallo metal wall spacer	6/8 pz
ACP 72686	Tappo T all'italiana T Italian plug	1 cp
AGP 72185	Angolo vulcanizzato vulcanized corner	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 vulcanized corner gasket for AGP 4000	6 pz

Nodo 1

Apertura interna - finestra a battente - nodo laterale - linea IRON

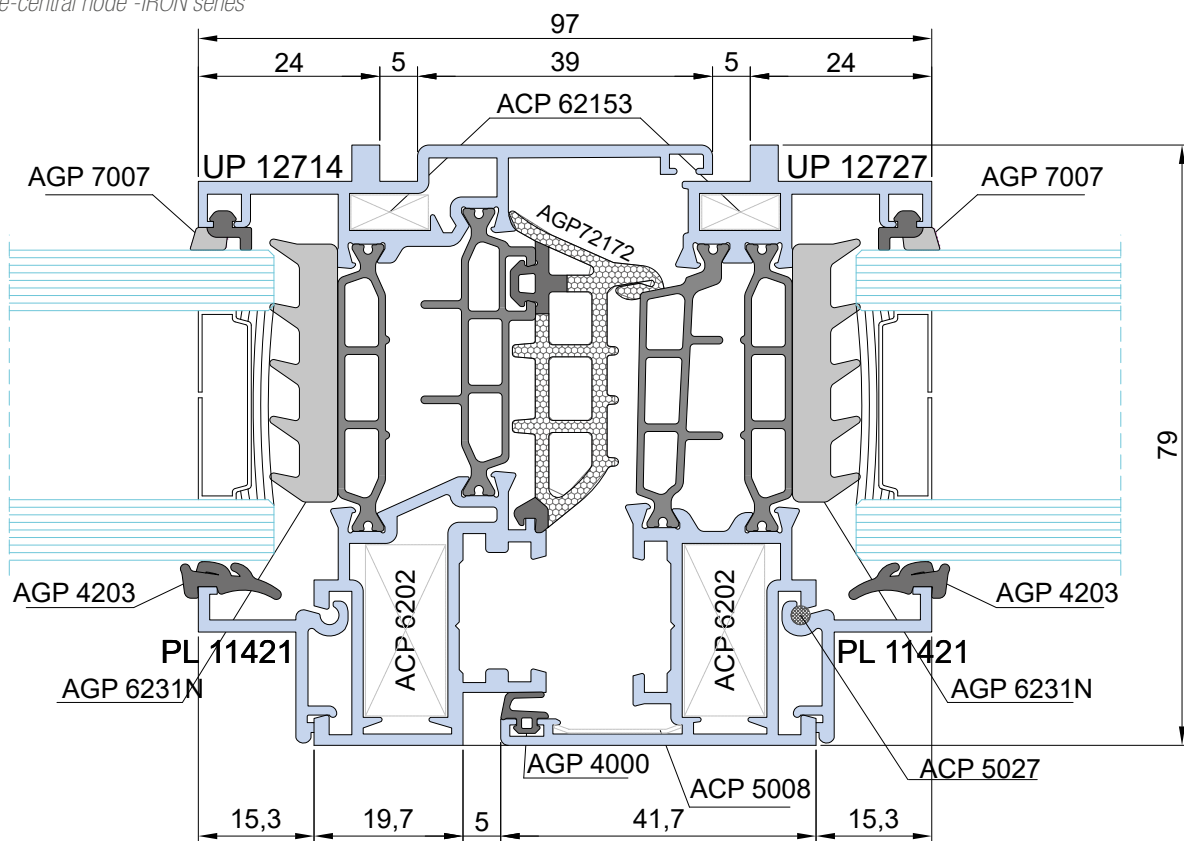
Inward opening - casement window - central section - IRON series



Nodo 2

Nodo T all'italiana-nodo centrale -linea IRON

Italian T node-central node -IRON series

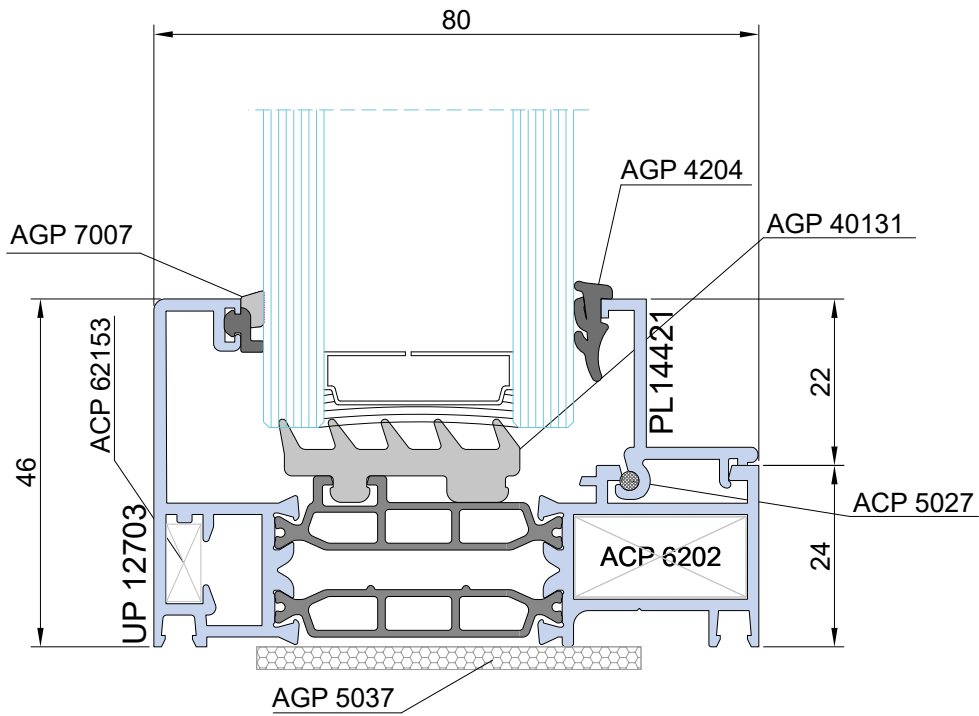


Nodo 3

Nodo perimetrale - fisso

Perimeter section - Fixed

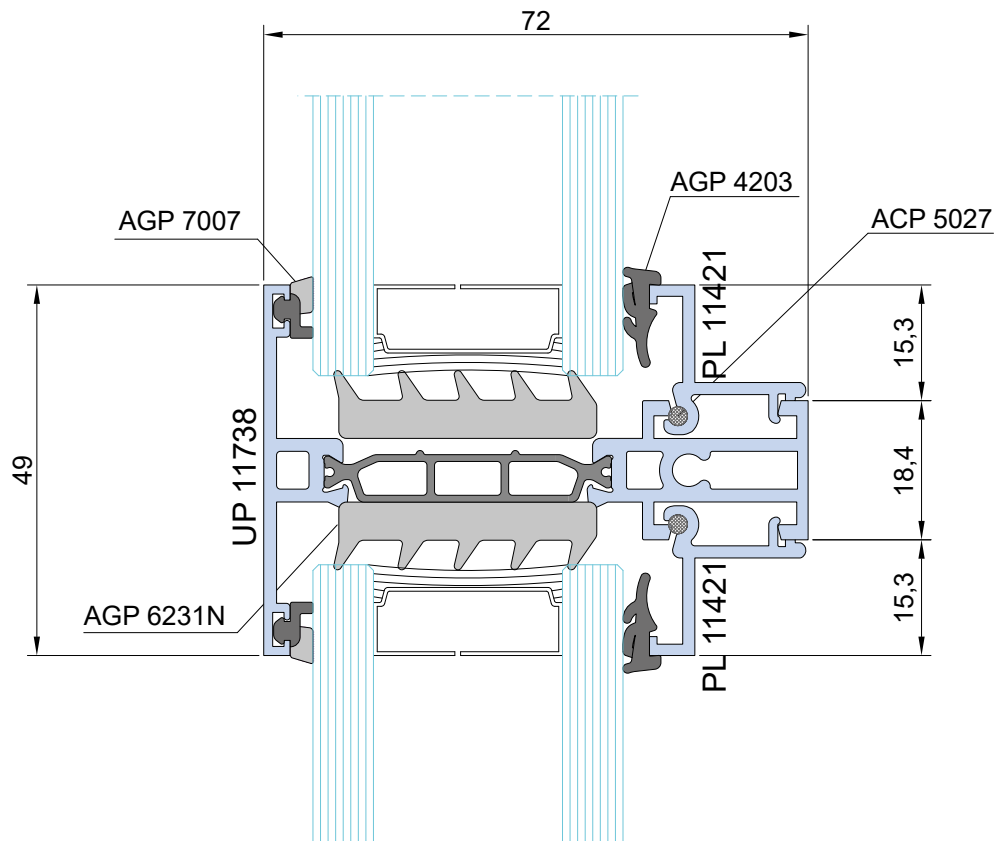
IRON



Nodo 4

Traverso per inglesina

Traverse for muntin bar

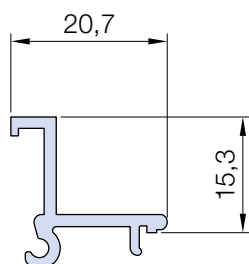


M1

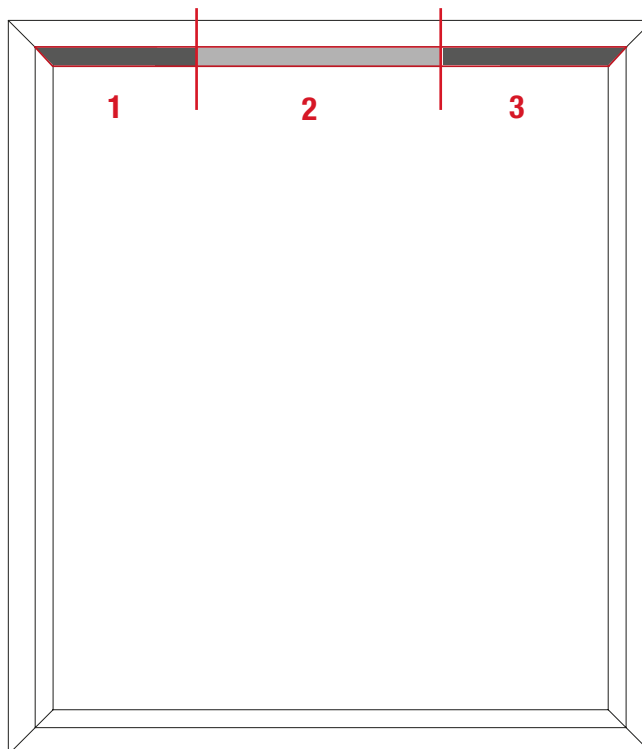
Istruzioni montaggio per linea IRON

Assembly instructions for the IRON line

IRON



PL 11421



⚠ ATTENZIONE

Montanti e trasversi del fermavetro PL 11421 devono essere tagliati a 45°.

Uprights and transoms of the PL 11421 glazing bead must be cut at 45°.

Dopo aver montato il traverso inferiore e i due montanti, è necessario tagliare il traverso superiore in 3 pezzi come indicato in figura, e montarli con la sequenza che segue: 1; 3; 2.

After assembling the lower crosspiece and the two uprights, it is necessary to cut the upper crosspiece into 3 pieces as shown in the figure, and assemble them in the following sequence: 1; 3; 2.



MATIC 72 UP

Traccia per capitolato

Infissi in alluminio realizzati con la serie taglio termico Ecoslim 72 UP MATIC con sistema di tenuta a giunto aperto con pinna centrale di forma tubolare e materiale coestruso, espanso/compatto. I profilati sono estrusi in lega di alluminio EN AW-6060 (UNI EN 573-3), stato di fornitura T5 e T6 conformi alla norma UNI EN 515 con tolleranze dimensionali e spessori conformi alla norma UNI EN 12020-2. L'isolamento termico sarà costituito da barrette esclusivamente tubolari a tripla camera da 38 mm in poliammide a bassa densità ed agli inserti isolanti in PUR, l'assemblaggio delle barrette avverrà a mezzo di rullatura meccanica computerizzata, e le caratteristiche meccaniche delle barrette dovranno rimanere inalterate sino ad una temperatura massima di trattamento di 245°C.

Il processo di produzione è controllato secondo le norme UAETC, i valori di scorrimento dovranno essere superiori ai 24 daN/mm. Il telaio fisso avrà profondità 72mm mentre le parti apribili avranno una profondità di 79mm. Il sistema di tenuta sarà a giunto aperto con guarnizione centrale, in EPDM, avente un'aletta di tenuta che sormonta di 4,5mm il piano inclinato della parte apribile, la guarnizione centrale dovrà essere raccordata nei giunti con gli opportuni angoli vulcanizzati. I profili avranno linee dritte internamente ed esternamente con la possibilità di accogliere soluzioni di fermavetri con taglio a 45° oppure 90°. La sigillatura dei vetri dovrà avvenire secondo le indicazioni riportate nel catalogo e solo ed esclusivamente con guarnizioni fermavetro originali. Appositi fori di drenaggio dovranno essere previsti sul telaio fisso e su quello mobile al fine di permettere il corretto drenaggio del serramento. La scelta dei profili sarà in funzione delle caratteristiche geometriche e dimensionali dell'infisso, della portata degli accessori e dei carichi di esercizio. Gli accessori utilizzati nella fabbricazione delle diverse tipologie dovranno essere solo ed esclusivamente quelli originali studiati appositamente per il sistema, riportati a catalogo e distribuiti dai licenziatari ALSistem, l'utilizzo di prodotti diversi da quelli indicati oppure il montaggio parziale o scorretto degli stessi comporterà la nullità dei certificati di prova e garanzia. La fabbricazione e la posa dovranno avvenire secondo i criteri di lavoro indicati da ALSistem. L'assemblaggio dei profili avverrà con squadrette in alluminio pressofuso multifunzione, i tagli dovranno essere protetti a mezzo sigillanti neutri.

La protezione e finitura dei profilati avverrà a mezzo dei normali trattamenti di superficie, ossidazione anodica conforme al marchio di qualità "Qualanod" oppure a mezzo di verniciatura con polveri poliesteri termoindurenti e polimerizzate in forno a temperature comprese tra 185°C e 195°C, in conformità del marchio di qualità "Qualicoat".

Materiali

L'esecuzione dei serramenti è in lega d'alluminio EN AW-6060 sotto forma di profilati estrusi come indicato dalla disposizione normativa UNI EN 573-3. Lo stato di fornitura è in classe T5 e T6 secondo norma UNI EN 515. Le tolleranze dimensionali sono conformi alla UNI EN 12020-2. Lega secondo la formula ALSistem.

Caratteristiche tecniche e dimensionali

Aspetto visivo esterno: complanare

Aspetto visivo interno: sormonto di 7mm

Profilati: estrusi in lega leggera EN AW-6060 (UNI EN 573-3) anodizzabili e verniciabili. Lega secondo la formula ALSistem

Sistema di tenuta: giunto aperto con precamera, con guarnizioni in EPDM coestruso

Sistema di isolamento termico: realizzato con distanziali in poliammide a bassa densità da 38mm a triplo tubolare e inserti isolanti in PUR

Sistema di accessori: originali ALSistem

Distanza telaio anta: 12mm

Sovrapposizione battuta anta su telaio: 6mm

Altezza battuta vetro: 15mm

Fuga tra i profili: 5mm

Profondità telaio: 72mm

Profondità anta: 79mm

Tubolarità profili finestra: 11,2mm

Tubolarità profili porta: 44mm

Fissaggio vetri: con fermavetri lisci

Spazio vetro o pannello nei telai fissi: da 27mm a 65mm

Spazio vetro o pannello nelle ante: da 37mm a 58mm

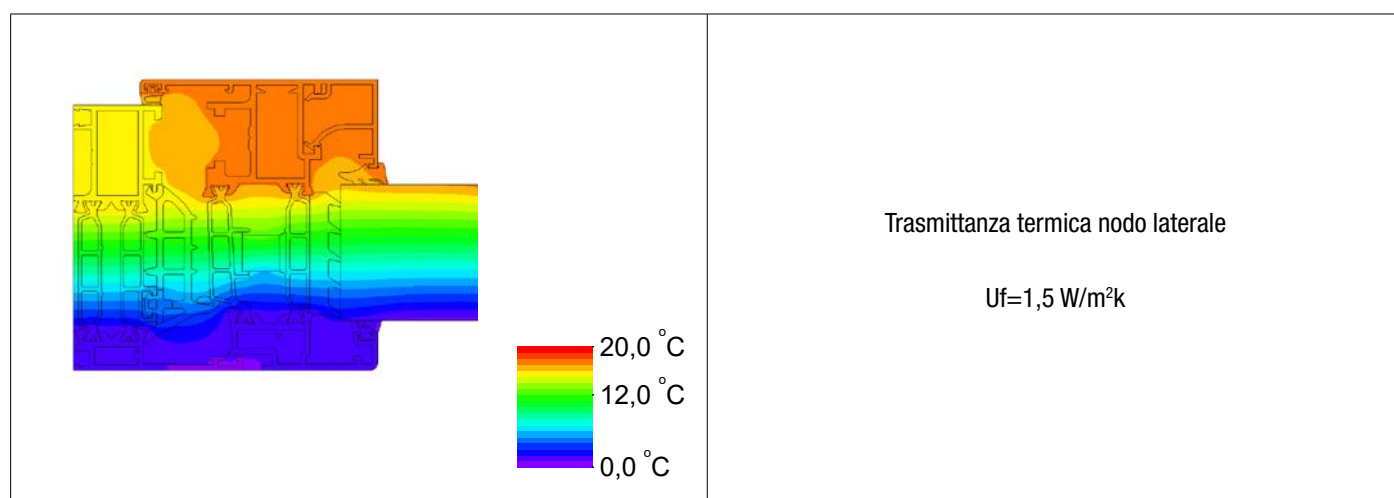
Determinazione della trasmittanza termica dei nodi del sistema per serramenti MATIC 72 UP

Per la determinazione della trasmittanza termica dei profilati, sono stati certificati i nodi elencati sotto dal laboratorio notificato IRcCOS, secondo la normativa di prodotto UNI EN ISO 10077-2:2017, seguendo il metodo di calcolo tramite "Flixo 8.1". Il codice di riferimento del documento rilasciato dal laboratorio corrisponde al n° 1994-CPR-RP2658.

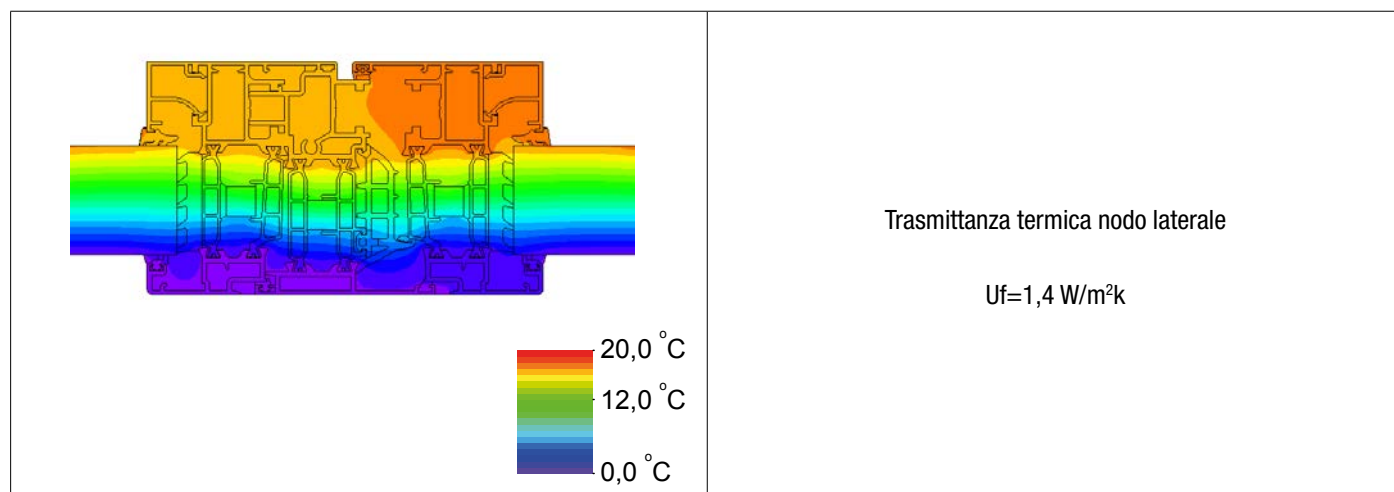
Metodologia di analisi utilizzata

Il calcolo della trasmittanza termica è stato eseguito in accordo con la norma UNI EN ISO 10077-2:2017. Per i calcoli è stato utilizzato il software "Flixo 8.1".

Andamento delle temperature e dei flussi del nodo laterale UP 11703 + UP 12777.



Andamento delle temperature e dei flussi del nodo centrale UP 12777 + UP 12713 + UP12777.



General specifications

Aluminum frames made with the Ecoslim 72 UP MATIC thermal break series with open joint sealing system with central tubular fin and coextruded, expanded/compact material. The profiles are extruded in aluminum alloy EN AW-6060 (UNI EN 573-3), supplied condition T5 and T6 compliant with the UNI EN 515 standard with dimensional tolerances and thicknesses compliant with the UNI EN 12020-2 standard. The thermal insulation will consist of 38mm polyamide 6.6 strips reinforced 25% with fibreglass in low density polyamide and any PUR insulating inserts. The assembly of the bars will take place by means of computerized mechanical rolling, and the mechanical characteristics of the bars must remain unchanged, up to a maximum treatment temperature of 245 ° C.

The production process is controlled according to UAETC standards, the sliding values must be greater than 24 daN / mm. The fixed frame will have a depth of 72mm while the opening parts will have a depth of 79mm. The sealing system will be open joint with central gasket, in EPDM, having a sealing fin that surmounts the inclined plane of the opening part by 4.5mm, the central gasket must be connected in the joints with the appropriate vulcanized corners. The profiles will have straight lines internally and externally with the possibility of accommodating glazing bead solutions with a 45 ° or 90 ° cut. The glass must be sealed according to the instructions given in the catalog and only and exclusively with original glass retaining gaskets. Appropriate drainage holes must be provided on the fixed and mobile frame in order to allow the correct drainage of the window or door. The choice of profiles will depend on the geometric and dimensional characteristics of the frame, the capacity of the accessories and the operating loads. The accessories used in the manufacture of the different types must be exclusively the original ones designed specifically for the system, listed in the catalog and distributed by the ALSistem licensees, the use of products other than those indicated or the partial or incorrect assembly of the same will result in nullity test and warranty certificates. Manufacturing and installation must take place according to the working criteria indicated by ALSistem. The assembly of the profiles will take place with multifunctional die-cast aluminum brackets, the cuts must be protected with neutral sealants.

The protection and finishing of the profiles will take place by means of normal surface treatments, anodic oxidation in compliance with the "Qualanod" quality mark, or by means of painting with thermosetting polyester powders and polymerized in the oven at temperatures between 185 ° C and 195 ° C, in accordance with the "Qualicoat" quality mark.

Materials

The execution of the doors and windows is in aluminum alloy EN AW-6060 in the form of extruded profiles as indicated by the regulatory provision UNI EN 573-3. The state of supply is in class T5 and T6 according to the UNI EN 515 standard. The dimensional tolerances comply with UNI EN 12020-2. Alloy according to the ALSistem formula.

Technical and dimensional characteristics

External visual aspect: coplanar

Internal visual aspect: 7mm overlap

Profiles: extruded in light alloy EN AW-6060 (UNI EN 573-3) which can be anodized and painted. Alloy according to the ALSistem formula

Sealing system: open joint with pre-chamber, with coextruded EPDM gaskets

Thermal insulation system: made with 38mm low density polyamide triple-tubular spacers and PUR insulating inserts

Accessory system: original ALSistem

Sash frame distance: 12mm

Door overlap on frame: 6mm

Glass stop height: 15mm

Gap between the profiles: 5mm

Frame depth: 72mm

Door depth: 79mm

Window profiles tubularity: 11.2mm

Door profiles tubularity: 44mm

Glass fixing: with smooth glazing beads

Glass or panel space in fixed frames: from 27mm to 65mm

Space for glass or panel in the doors: from 37mm to 58mm

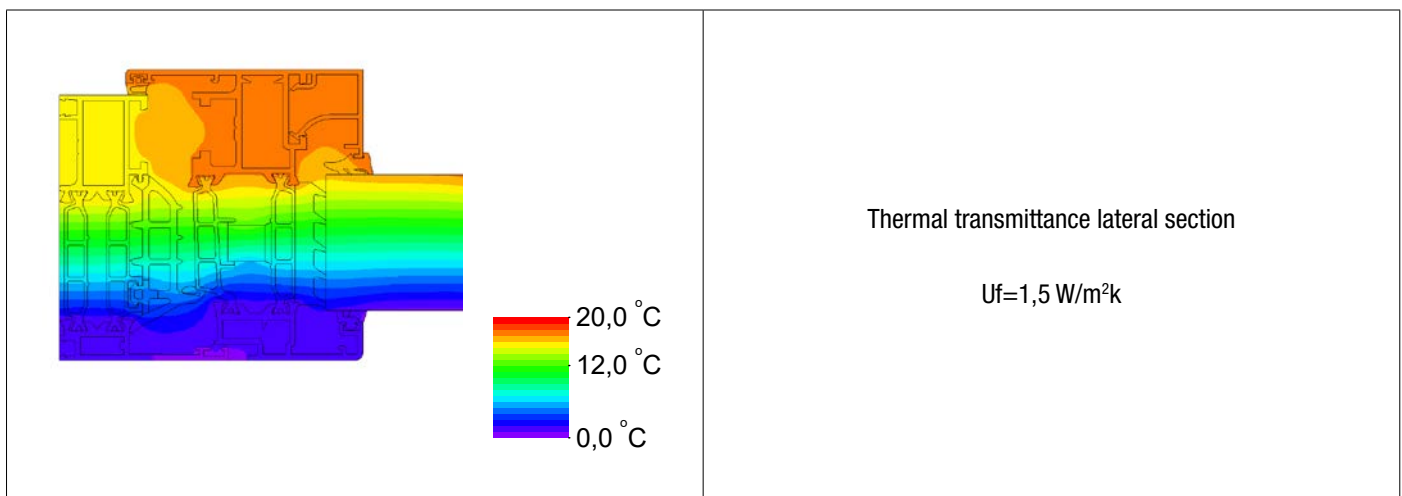
Determination of thermal transmittance of the sections of the MATIC 72 UP system for windows

For the determination of the thermal transmittance of the profiles, the sections listed below were certified by the IRcCOS notified laboratory, according to the UNI EN ISO 10077-2:2017 product standard, following the calculation method using "Flixo 8.1". The reference code of the document issued by the laboratory corresponds to n° 1994-CPR-RP2658.

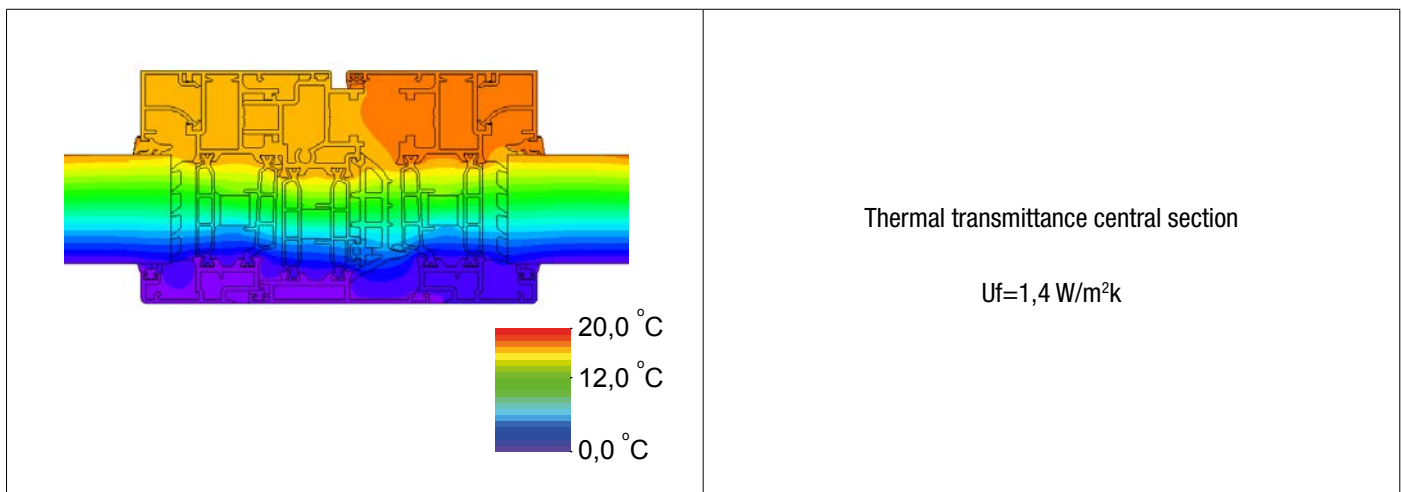
Methodology analysis used

The calculation of the thermal transmittance was performed in accordance with the UNI EN ISO 10077-2:2017 standard. The "Flixo 8.1" software was used for the calculations.

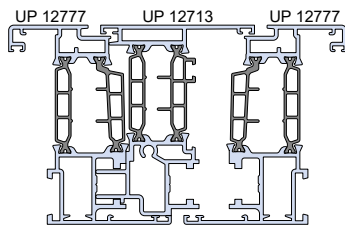
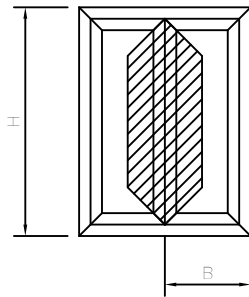
Trend of temperatures and heat flows in the lateral section UP 11703 + UP 12777.



Trend of temperatures and heat flows in the central section UP 12777 + UP 12713 + UP 12777.



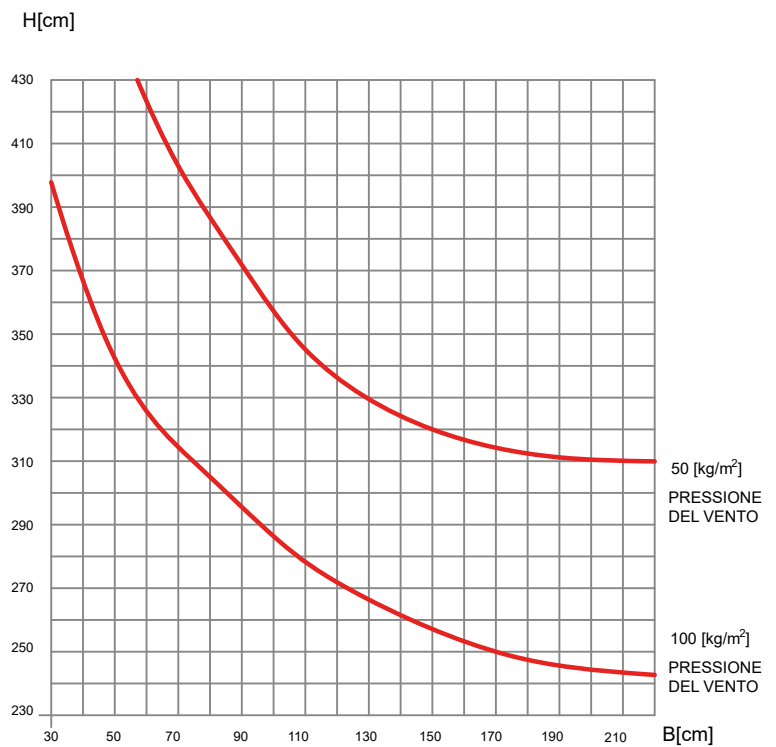
curve limite di utilizzo



$J_t = 136,73 \text{ cm}^4$

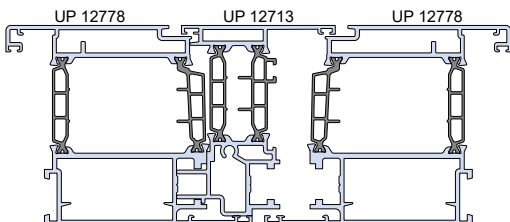
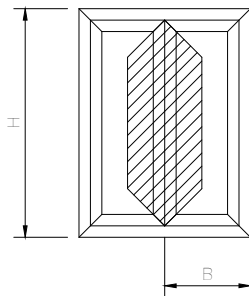
freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



MATIC 72 UP

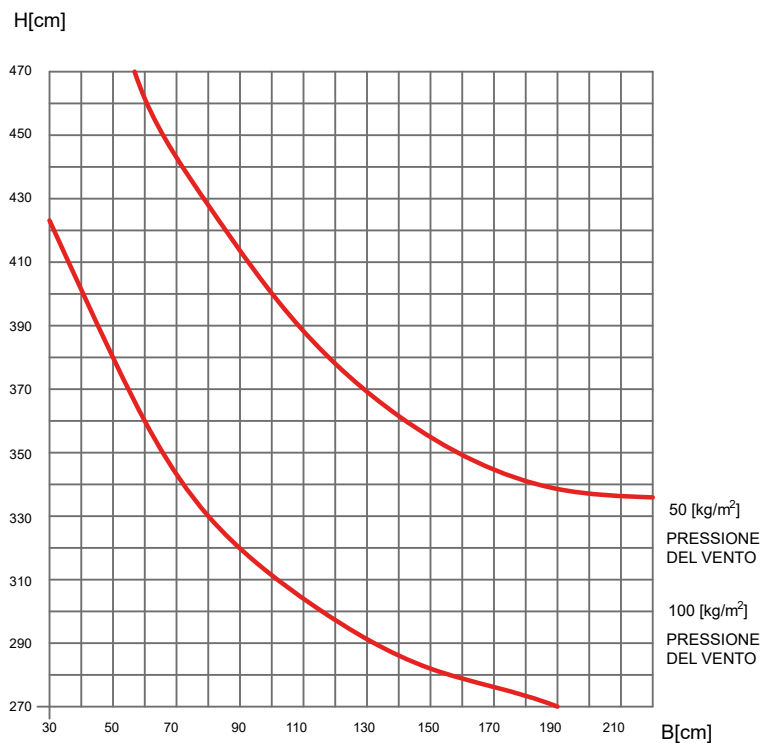
curve limite di utilizzo



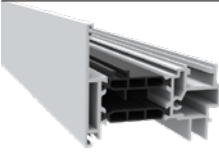
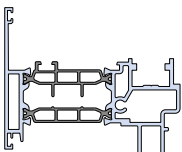

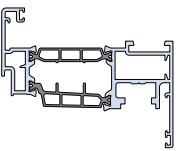

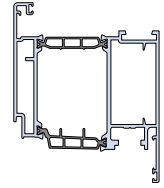

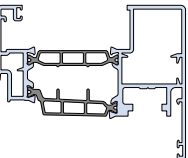
$J_t = 185,45 \text{ cm}^4$

freccia max 1/300

VERIFICARE CHE LA FRECCIA DEL PROFILO SIA COMPATIBILE COL VETRO IMPIEGATO



I DIAGRAMMI DI PORTATA SONO CALCOLATI SU BASE TEORICA IN FUNZIONE DELLE CARATTERISTICHE INERZIALI DEI PROFILI

	Sagoma	Art.	Descrizione	Jxx cm ⁴ Jyy cm ⁴
		UP 12713	Riporto centrale MATIC <i>MATIC astragal</i>	9,68 41,79
		UP 12777	Anta MATIC normale <i>MATIC flat sash</i>	10,89 47,47
		UP 12778	Anta MATIC maggiorata <i>MATIC oversized sash</i>	57,11 71,83
		UP 13777	Anta vetro infilare MATIC spazio vetro 44mm <i>Sash base MATIC for beadless glass gap 44mm</i>	15,54 51,74

I profili sopra sono abbinabili solo ai telai piani disponibili tra la gamma Ecoslim 72 UP

UP 11700
UP 11702
UP 11703
UP 11721
UP 11722
UP 11724

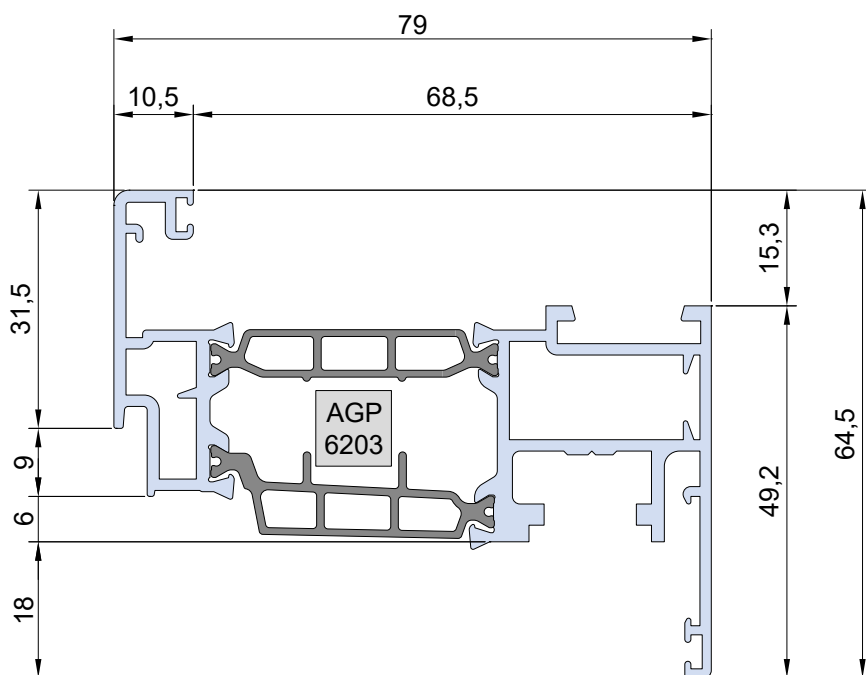
	ACP 72180M
	Tappo per riporto centrale versione Matic Cfz: 20 cp <i>Matic version astragal plug Pkg: 20 pairs</i>

NOTA BENE

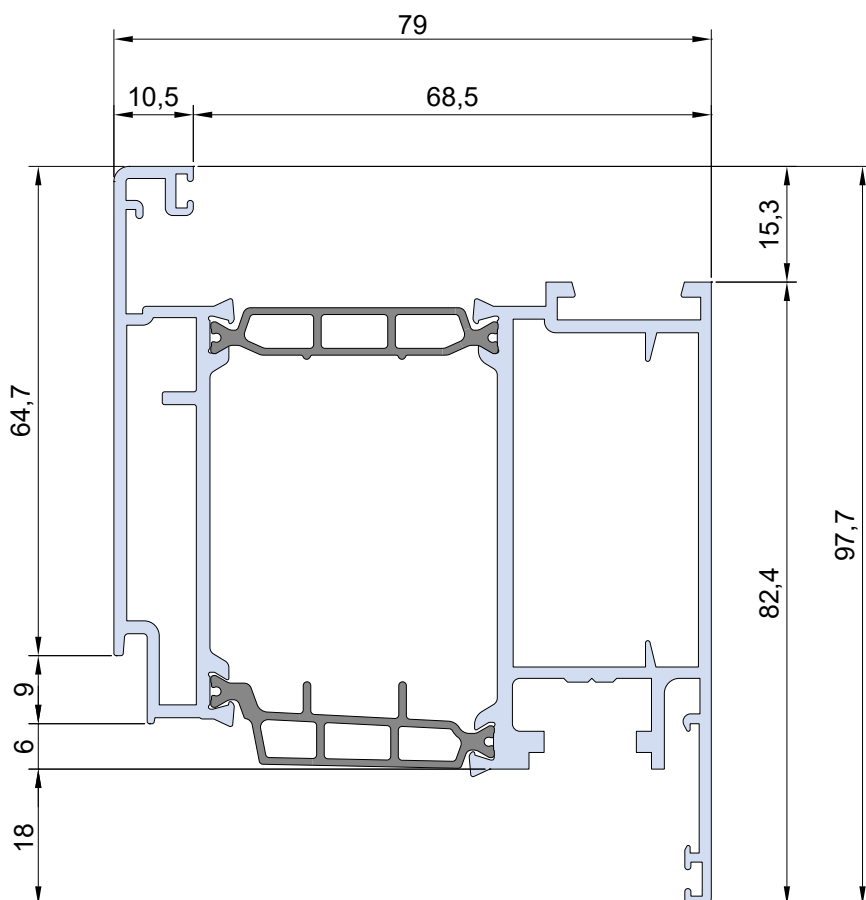
GUARNIZIONI: Si possono utilizzare le stesse del Ecoslim 72 UP

ACCESSORI GENERICI: si possono utilizzare gli stessi del Ecoslim 72 UP

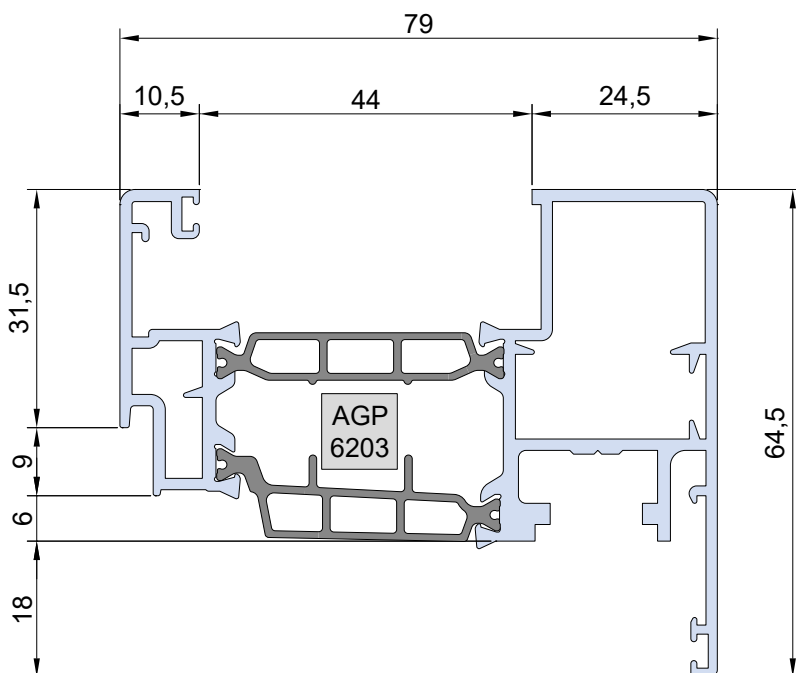
ACCESSORI DI GIUNZIONE: Si possono utilizzare gli stessi del Ecoslim 72 UP



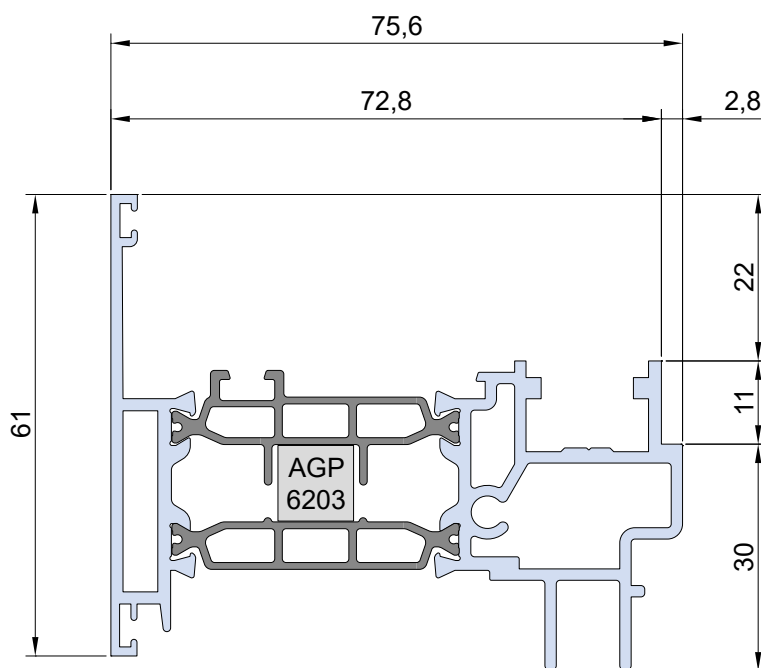
UP 12777



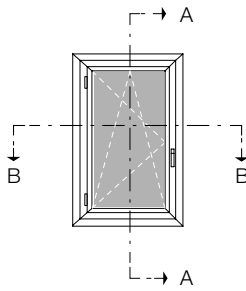
UP 12778



UP 13777



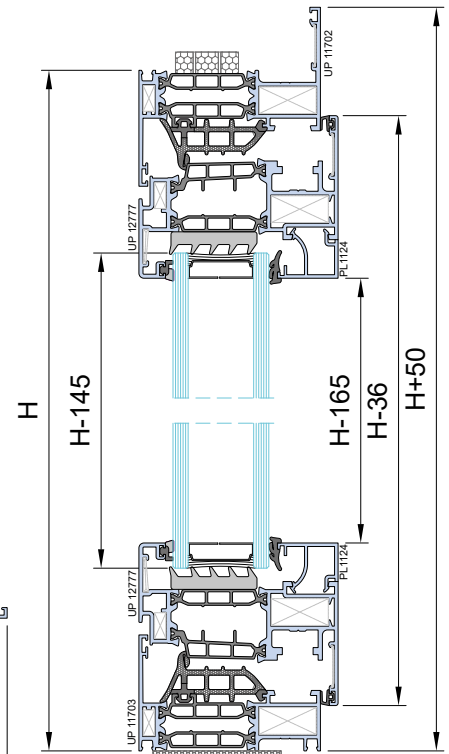
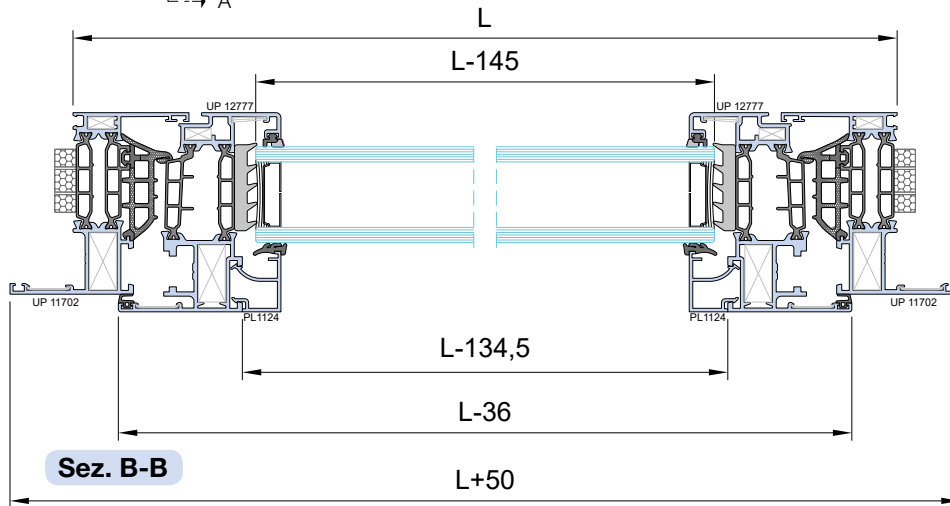
UP 12713



Finestra 1 anta MATIC
Window 1 sash MATIC

Distinta vetri
Glass list

Pezzi	L	H
1	L-145	H-145



MATIC 72 UP

Sez. A-A

Distinta profili
Profiles list

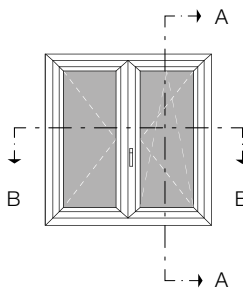
Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 12777	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	2	L-134.5	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-165	

Distinta accessori
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	8pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 62110	Squadretta allineamento <i>multifunctional corner joint</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	16 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz

Distinta guarnizioni
Gaskets list

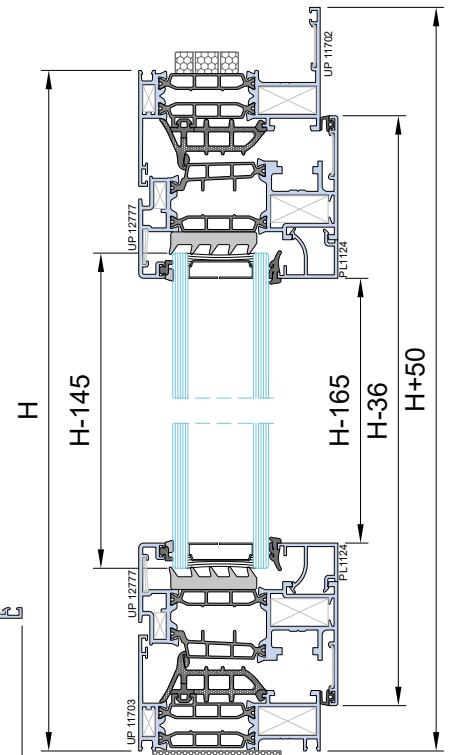
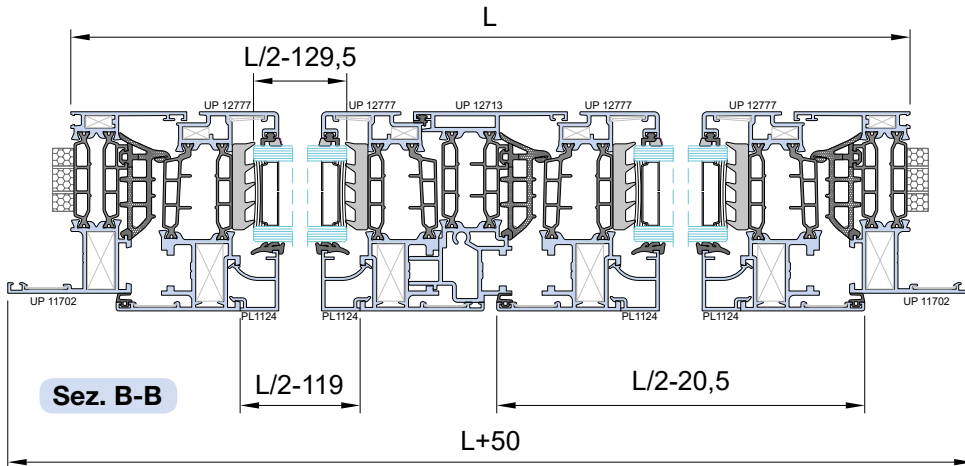
Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L-36
		3	H-36
AGP 6231N	Sottovetro <i>glazing strip</i>	4	L-128
		4	H-128
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		2	H-116
AGP 7007	Vetro esterno <i>external glass gasket</i>	4	L-151
		4	H-151
Dipende dal vetro	Vetro interno <i>internal glass gasket</i>	4	L-151
		4	H-151
AGP 5034/25	Isolamento spalla <i>side insulation</i>	1	L
		2	H
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L



Finestra 2 ante MATIC
Window 2 sash MATIC

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-129,5	H-145



Distinta profili
Profiles list

Art.	Descrizione	Pezzi	Misura	Taglio
UP 11702	Traverso telaio superiore <i>head transom frame</i>	1	L+50	
	Montante telaio <i>mullion frame</i>	2	H+50	
UP 11703	Traverso telaio inferiore <i>bottom transom frame</i>	1	L	
UP 12777	Traverso anta <i>transom sash</i>	4	L/2-20,5	
	Montante anta <i>mullion sash</i>	4	H-36	
PL 1124	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-119	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-165	
UP 12713	Riporto centrale <i>MATIC astragal</i>	1	H-106	

Distinta guarnizioni
Gaskets list

Art.	Descrizione	Pezzi	Misura
AGP 4000		Battuta <i>wall seal</i>	4 L/2-20,5 H-36
		Sottovetro <i>glazing strip</i>	4 L/2-112,5 H-128
AGP 72172		Pinna giunto aperto <i>central rabbet</i>	2 L-116 H-116
		Vetro esterno <i>external glass gasket</i>	4 L/2-135,5 H-151
Dipende dal vetro		Vetro interno <i>internal glass gasket</i>	4 L/2-135,5 H-151
		Battuta riporto centrale <i>rabbet central gasket</i>	1 H-106
AGP 5034/25		Isolamento spalla <i>side insulation</i>	1 L
		Isolamento soglia <i>threshold insulation</i>	2 H
AGP 5037		1	L

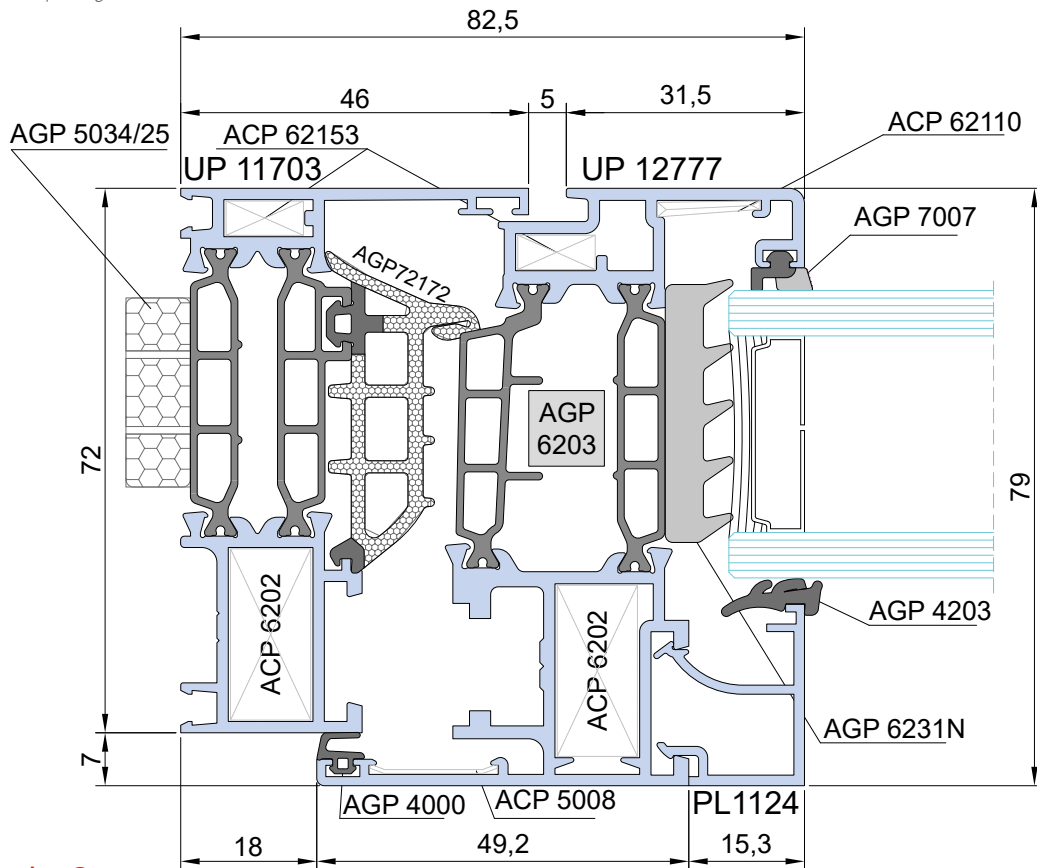
Distinta accessori
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	12 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	12 pz
ACP 62110	Squadretta allineamento <i>multifunctional corner joint</i>	8 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	10 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	24 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
ACP 72180M	Tappo per riporto centrale <i>central plug</i>	1 cp
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz

Nodo 1

Nodo apertura interna - finestra a battente - nodo laterale

Inward opening section - casement window - lateral section



ATTENZIONE

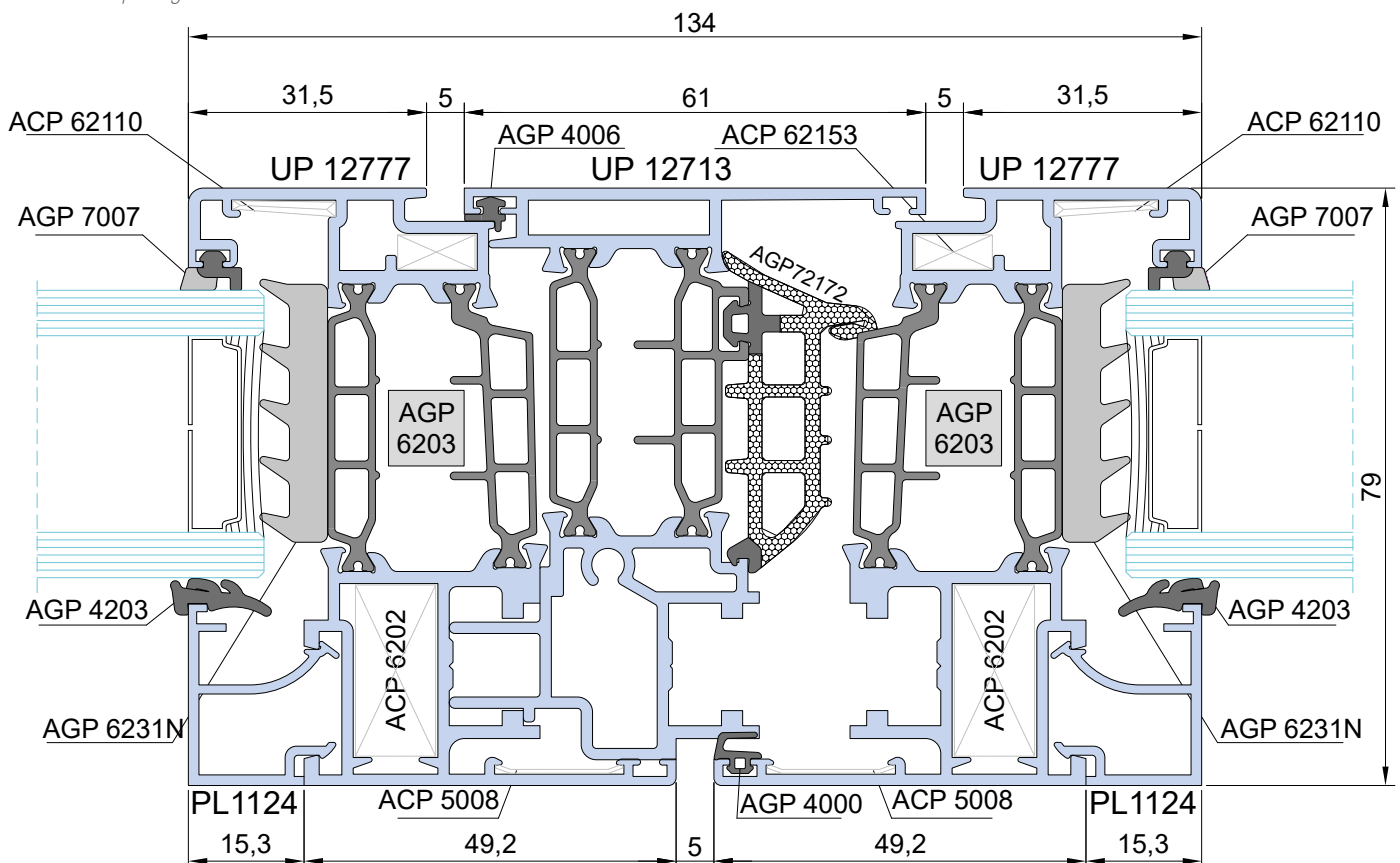
Con i telai di questo sistema usare solo ferramenta con cerniera a scomparsa.

Use only concealed hinge hardware with frames of this system.

Nodo 2

Nodo apertura interna - finestra a battente - nodo centrale

Inward opening section - casement window - central section

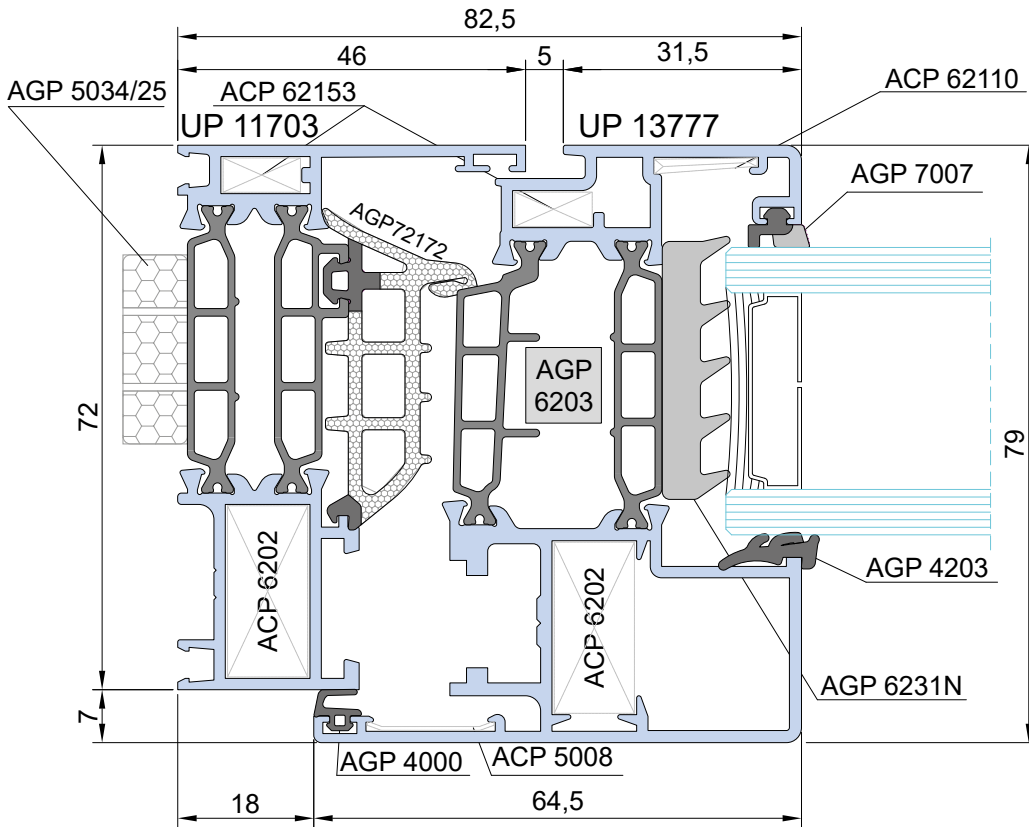


Nodo 3

Nodo apertura interna - finestra a battente - nodo laterale anta vetro infilare

Inward opening section - casement window - lateral section sash base for beadless glass

MATIC 72 UP

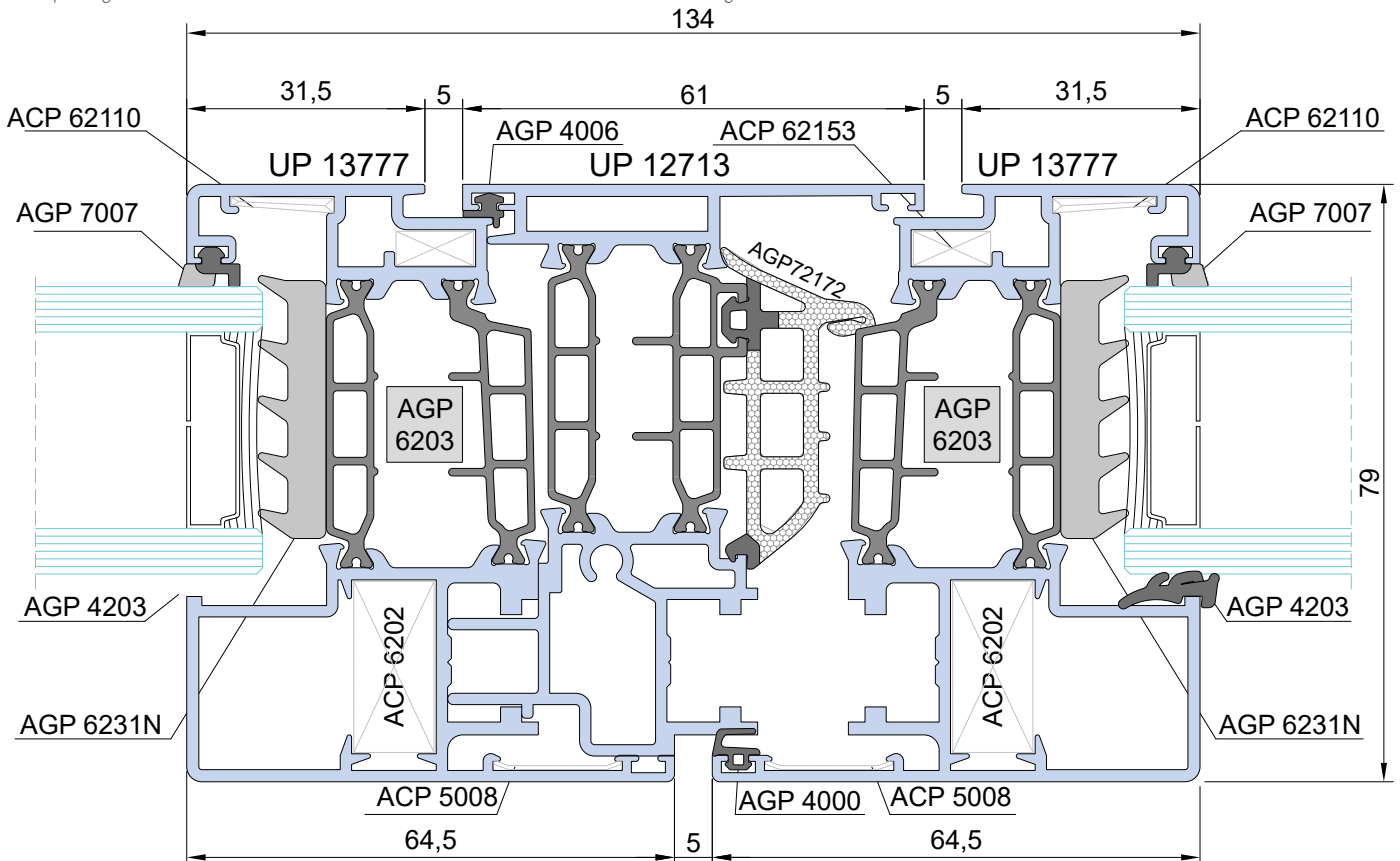


ATTENZIONE
 Con i telai di questo sistema usare solo ferramenta con cerniera a scomparsa.
 Use only concealed hinge hardware with frames of this system.

Nodo 4

Nodo apertura interna - finestra a battente - nodo centrale anta vetro infilare

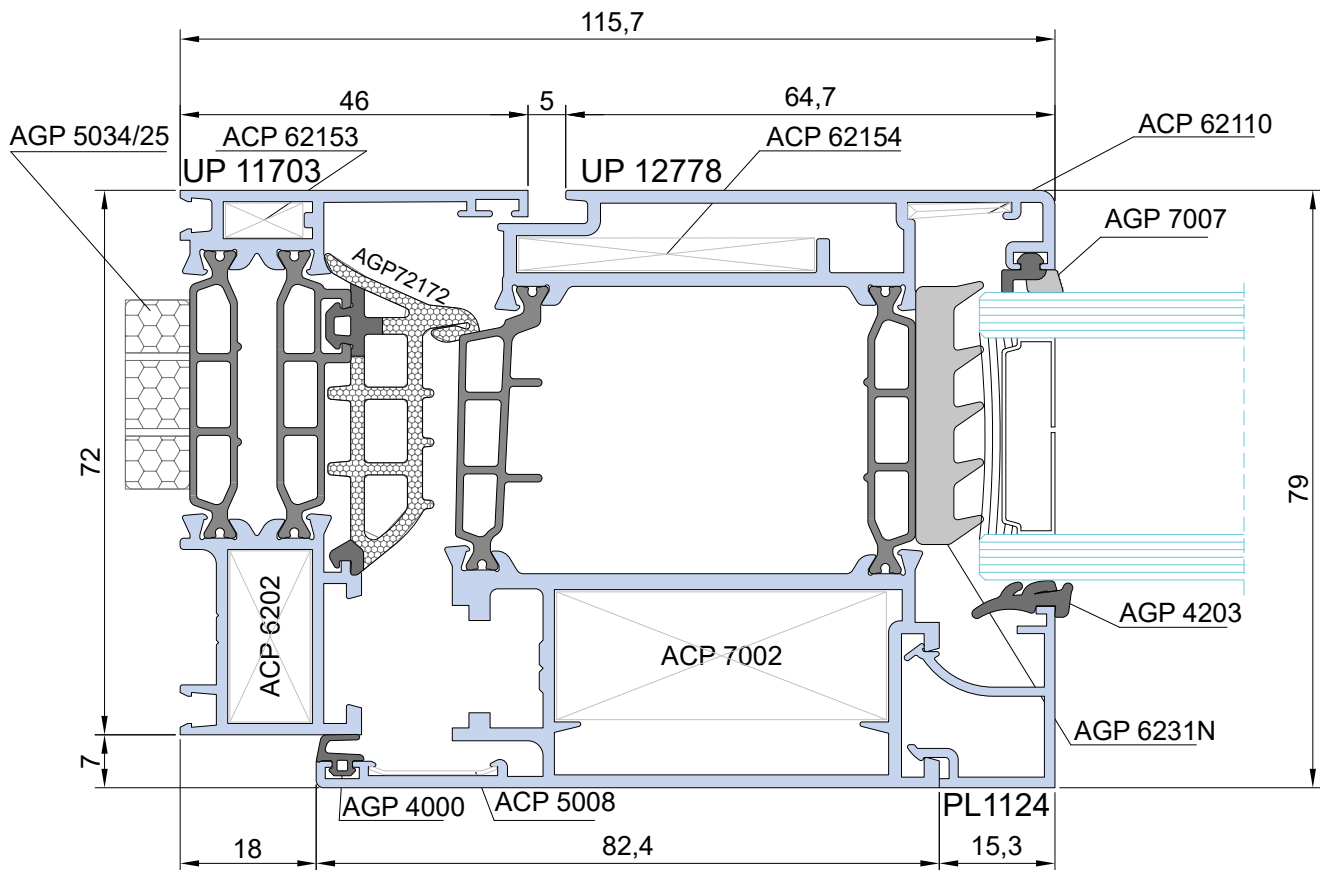
Inward opening section - casement window - central section sash base for beadless glass



Nodo 5

Nodo apertura interna - finestra a battente - nodo laterale

Inward opening section - casement window - lateral section



⚠ ATTENZIONE

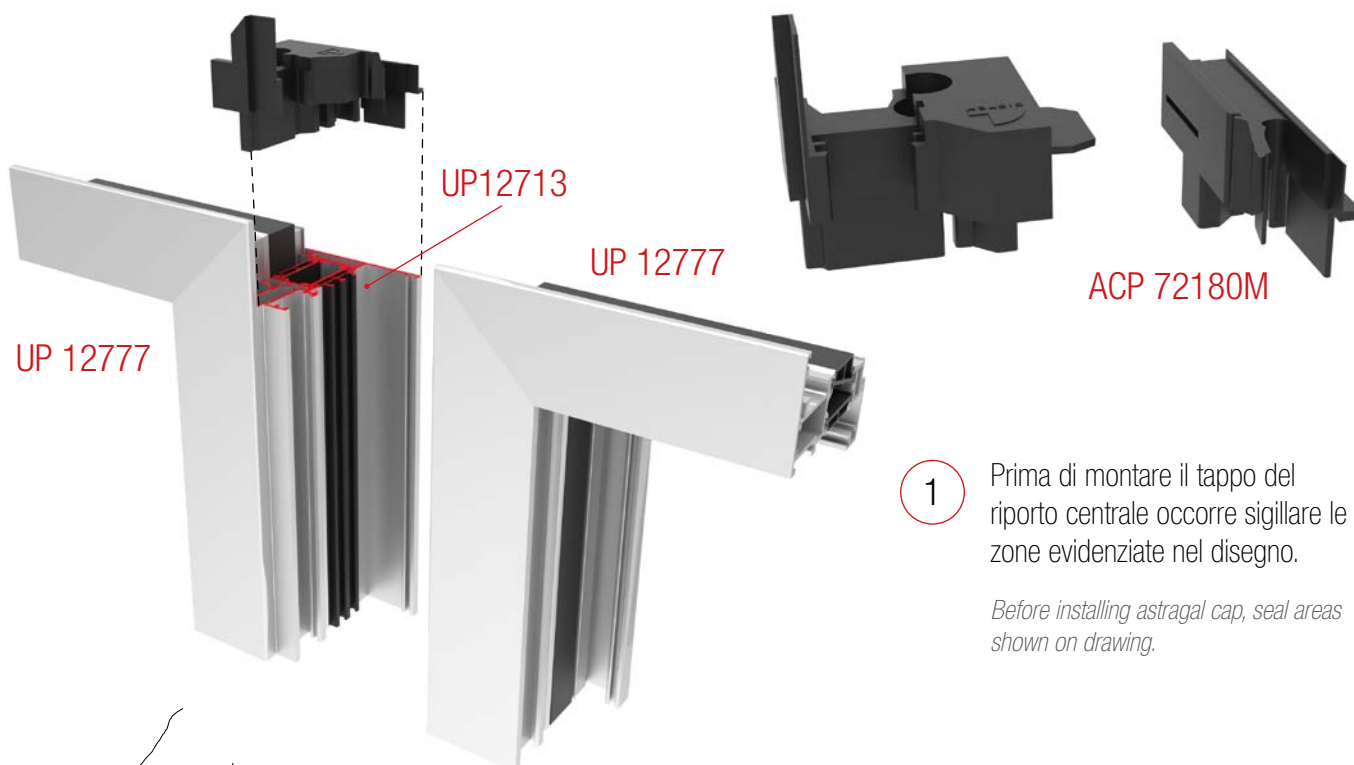
Con i telai di questo sistema usare solo ferramenta con cerniera a scomparsa.

Use only concealed hinge hardware with frames of this system.

M1

Applicazione tappo riporto centrale ACP 72180M

ACP 72180M central cap assembly



- 1 Prima di montare il tappo del riporto centrale occorre sigillare le zone evidenziate nel disegno.

Before installing astragal cap, seal areas shown on drawing.



- 2 Dopo aver installato il tappo, avitarlo al profilo.

After fitting the cap, screw down to profile.



ECO-SLIM *72 UP Hi*

Traccia per capitolato

Infissi in alluminio realizzati con la serie taglio termico Ecoslim 72 UP Hi, con anta a scomparsa, con sistema di tenuta a giunto aperto con guarnizione centrale di forma tubolare e materiale coestruso, espanso/compatto. I profilati sono estrusi in lega di alluminio EN AW-6060 (UNI EN 573-3), stato di fornitura T5 e T6 conformi alla norma UNI EN 515 con tolleranze dimensionali e spessori conformi alla norma UNI EN 12020-2. L'isolamento termico sarà costituito da barrette esclusivamente tubolari a tripla camera da 38 mm in poliammide a bassa densità, l'assemblaggio delle barrette avverrà a mezzo di rullatura meccanica computerizzata, e le caratteristiche meccaniche delle barrette dovranno rimanere inalterate sino ad una temperatura massima di trattamento di 245°C. Il processo di produzione è controllato secondo le norme UAETC, i valori di scorrimento dovranno essere superiori ai 24 daN/mm. Il telaio fisso avrà profondità 77mm mentre le parti apribili avranno una profondità di 80mm. La parte apribile dovrà celarsi dietro l'aletta del telaio che dovrà completamente coprirlo in vista esterna. Il sistema di tenuta sarà a giunto aperto con guarnizione centrale, in EPDM, avente un'aletta di tenuta che sormonta di 4,5mm il piano inclinato della parte apribile, la guarnizione centrale dovrà essere raccordata nei giunti con gli opportuni angoli vulcanizzati. I profili avranno linee dritte o arrotondate. La sigillatura dei vetri dovrà avvenire secondo le indicazioni riportate nel catalogo e solo ed esclusivamente con guarnizioni fermavetro originali. Appositi fori di drenaggio dovranno essere previsti sul telaio fisso e su quello mobile al fine di permettere il corretto drenaggio del serramento. La scelta dei profili sarà in funzione delle caratteristiche geometriche e dimensionali dell'infisso, della portata degli accessori e dei carichi di esercizio. Gli accessori utilizzati nella fabbricazione delle diverse tipologie dovranno essere solo ed esclusivamente quelli originali studiati appositamente per il sistema, riportati a catalogo e distribuiti dai licenziatari ALSistem, l'utilizzo di prodotti diversi da quelli indicati oppure il montaggio parziale o scorretto degli stessi comporterà la nullità dei certificati di prova e garanzia. La fabbricazione e la posa dovranno avvenire secondo i criteri di lavoro indicati da ALSistem. L'assemblaggio dei profili avverrà con squadrette in alluminio pressofuso multifunzione, i tagli dovranno essere protetti a mezzo sigillanti neutri.

La protezione e finitura dei profilati avverrà a mezzo dei normali trattamenti di superficie, ossidazione anodica conforme al marchio di qualità "Qualanod" oppure a mezzo di verniciatura con polveri poliesteri termoindurenti e polimerizzate in forno a temperature comprese tra 185°C e 195°C, in conformità del marchio di qualità "Qualicoat".

Materiali

L'esecuzione dei serramenti è in lega d'alluminio EN AW 6060 sotto forma di profilati estrusi come indicato dalla disposizione normativa UNI EN 573-3. Lo stato di fornitura è in classe T5 e T6 secondo norma UNI EN 515. Le tolleranze dimensionali sono conformi alla UNI EN 12020-2. Lega secondo la formula ALSistem.

Caratteristiche tecniche e dimensionali

Aspetto visivo esterno: anta a scomparsa

Aspetto visivo interno: sormonto di 7,5mm

Profilati: estrusi in lega leggera EN AW-6060 (UNI EN 573-3) anodizzabili e verniciabili. Lega secondo la formula ALSistem.

Sistema di tenuta: giunto aperto con precamera, con guarnizioni in EPDM

Sistema di isolamento termico: realizzato con distanziali in poliammide a bassa densità da 38mm a triplo tubolare

Sistema di accessori: originali ALSistem

Distanza telaio anta: 11,5mm

Sovrapposizione battuta anta su telaio: 6mm

Altezza battuta vetro: 15mm

Fuga tra i profili: 5mm

Profondità telaio: 77mm

Profondità anta: 80mm

Tubolarità profili finestra: 11,2mm




Fissaggio vetri: con fermavetro esterno nascosto da guarnizione cingivetro

Spazio vetro o pannello nei telai fissi: da 46mm a 63mm

Spazio vetro o pannello nelle ante: 57mm

Certificazioni serie Ecoslim 72 UP Hi

Per il principio di estendibilità i certificati sotto riportati sono validi per la serie Ecoslim 72 UP Hi per le diverse tipologie di serramenti indicati in tabella.

	TIPOLOGIA SERRAMENTO	MISURE SERRAMENTO	CERTIFICATO N°	RISULTATO OTTENUTO
 PERMEABILITA' DELL'ARIA	Portafinestra 2 ante ribalta	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Classe 4
 TENUTA ALL'ACQUA	Portafinestra 2 ante ribalta	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Classe E750
 RESISTENZA AL VENTO	Portafinestra 2 ante ribalta	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Classe C2

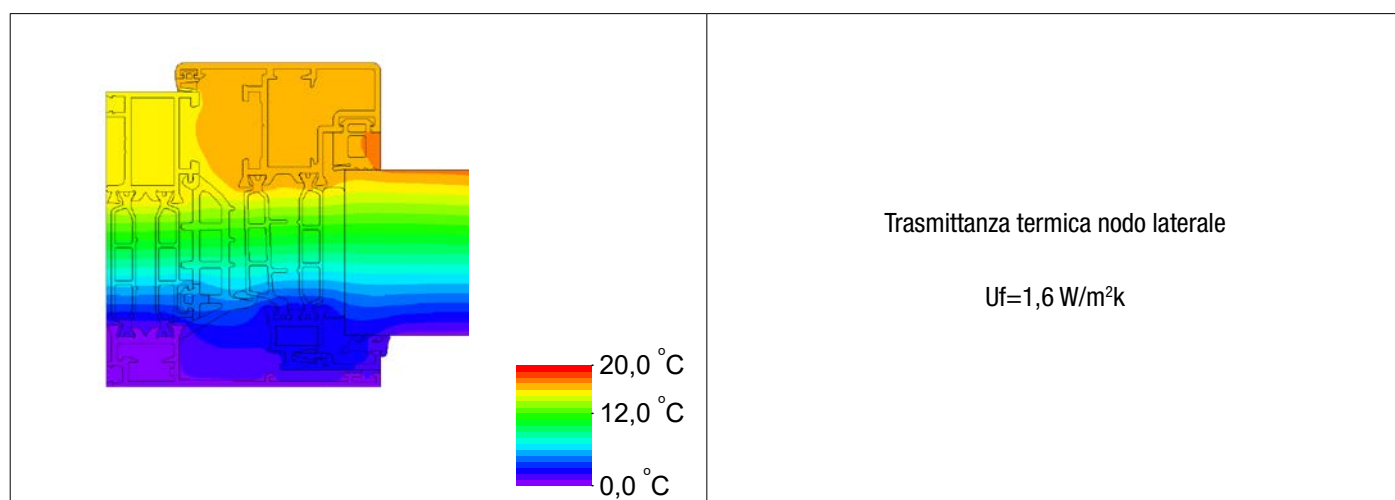
Determinazione della trasmittanza termica dei nodi del sistema per serramenti Ecoslim 72 UP Hi

Per la determinazione della trasmittanza termica dei profilati, sono stati certificati i nodi elencati sotto dal laboratorio notificato IRcCOS, secondo la normativa di prodotto UNI EN ISO 10077-2:2017, seguendo il metodo di calcolo tramite "Flixo 8.1". Il codice di riferimento del documento rilasciato dal laboratorio corrisponde al n° 1994-CPR-RP2658.

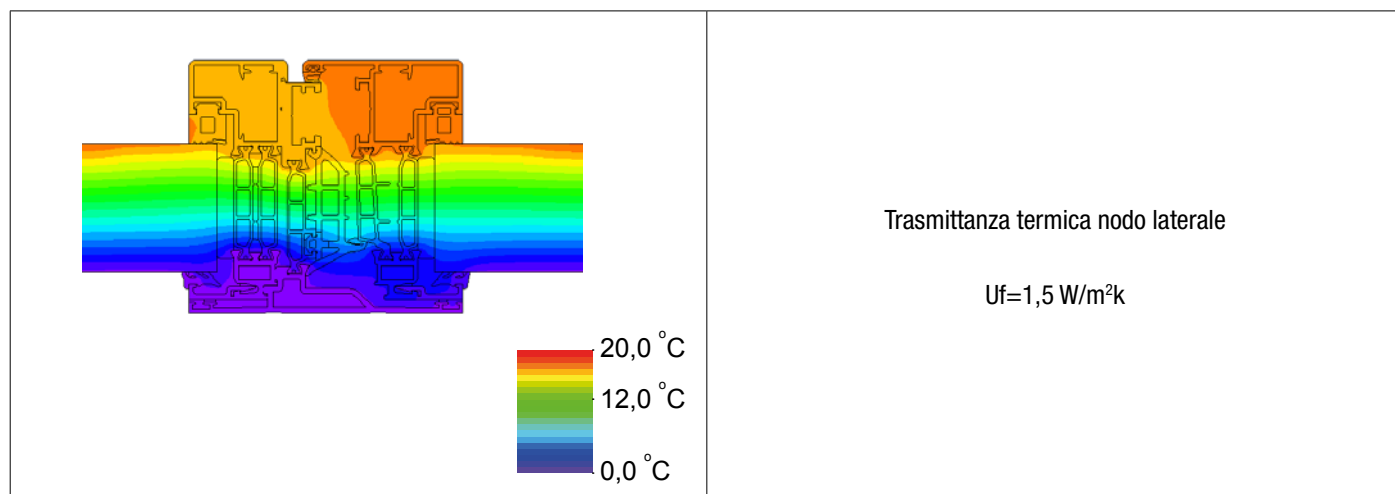
Metodologia di analisi utilizzata

Il calcolo della trasmittanza termica è stato eseguito in accordo con la norma UNI EN ISO 10077-2:2017. Per i calcoli è stato utilizzato il software "Flixo 8.1".

Andamento delle temperature e dei flussi del nodo laterale UP 14703 + UP 14777.



Andamento delle temperature e dei flussi del nodo centrale UP 14714 + UP 14713 + UP 14777.



General specifications

Aluminum frames made with the Ecoslim 72 UP Hi thermal break series, with retractable door, with open joint sealing system with central tubular gasket and coextruded, expanded / compact material. The profiles are extruded in aluminum alloy EN AW-6060 (UNI EN 573-3), supplied condition T5 and T6 compliant with the UNI EN 515 standard with dimensional tolerances and thicknesses compliant with the UNI EN 12020-2 standard. The thermal insulation will consist of exclusively tubular bars with double chamber of 38 mm in low density polyamide, the assembly of the bars will take place by means of computerized mechanical rolling, and the mechanical characteristics of the bars must remain unchanged up to a maximum temperature of treatment of 245 ° C.

The production process is controlled according to UAETC standards, the sliding values must be greater than 24 daN / mm. The fixed frame will have a depth of 77mm while the opening parts will have a depth of 80mm. The part that can be opened must be hidden behind the flap of the frame which must completely cover it in external view. The sealing system will be an open joint with a central gasket, in EPDM, having a sealing fin that surmounts the inclined plane of the opening part by 4.5mm, the central gasket must be connected in the joints with the appropriate vulcanized corners. Profiles will have straight lines internally and externally. The glass must be sealed according to the instructions given in the catalog and only and exclusively with original glass retaining gaskets. Appropriate drainage holes must be provided on the fixed and mobile frame in order to allow the correct drainage of the window or door. The choice of profiles will depend on the geometric and dimensional characteristics of the frame, the capacity of the accessories and the operating loads. The accessories used in the manufacture of the different types must be exclusively the original ones designed specifically for the system, listed in the catalog and distributed by the ALSistem licensees, the use of products other than those indicated, or the partial or incorrect assembly of the same will result in nullity test and warranty certificates. Manufacturing and installation must take place according to the working criteria indicated by ALSistem. The assembly of the profiles will take place with multifunctional die-cast aluminum brackets, the cuts must be protected with neutral sealants. The protection and finishing of the profiles will take place by means of normal surface treatments, anodic oxidation in compliance with the "Qualanod" quality mark or by means of painting with thermosetting polyester powders and polymerized in the oven at temperatures between 185 ° C and 195 ° C, in accordance with the "Qualicoat" quality mark.

Materials

The execution of the doors and windows is in aluminum alloy EN AW 6060 in the form of extruded profiles as indicated by the UNI EN 573-3 standard. The state of supply is in class T5 and T6 according to the UNI EN 515 standard. The dimensional tolerances comply with UNI EN 12020-2. Alloy according to the ALSistem formula.

Technical and dimensional characteristics

External visual aspect: retractable door

Internal visual aspect: 7.5mm overlap

Profiles: extruded in light alloy EN AW-6060 (UNI EN 573-3) which can be anodized and painted. Alloy according to the ALSistem formula.

Sealing system: open joint with pre-chamber, with EPDM gaskets

Thermal insulation system: made with 38mm low density polyamide triple-tubular spacers

Accessory system: original ALSistem

Sash frame distance: 11.5mm

Door overlap on frame: 6mm

Glass stop height: 15mm

Gap between the profiles: 5mm

Frame depth: 77mm

Door depth: 80mm

Window profiles tubularity: 11.2mm

Glass fixing: with external glazing bead hidden by a glass-ring gasket

Space for glass or panel in fixed frames: from 46mm to 63mm

Space for glass or panel in the doors: 57mm

ECOSLIM 72 UP Hi range certifications

For the extensibility principle, the certificates below are valid for the Ecoslim 72 UP Hi series for the different types of windows indicated in the table.

	WINDOW TYPE	WINDOW DIMENSION	CERTIFICATE N°	RESULT OBTAINED
 AIR PERMEABILITY	2 tilt and turn door window	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Class 4
 WATER THIGHTNESS	2 tilt and turn door window	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Class E750
 WIND RESISTANCE	2 tilt and turn door window	H = 2.400mm L = 1.500mm	1994-CPR-RP2564	Class C2

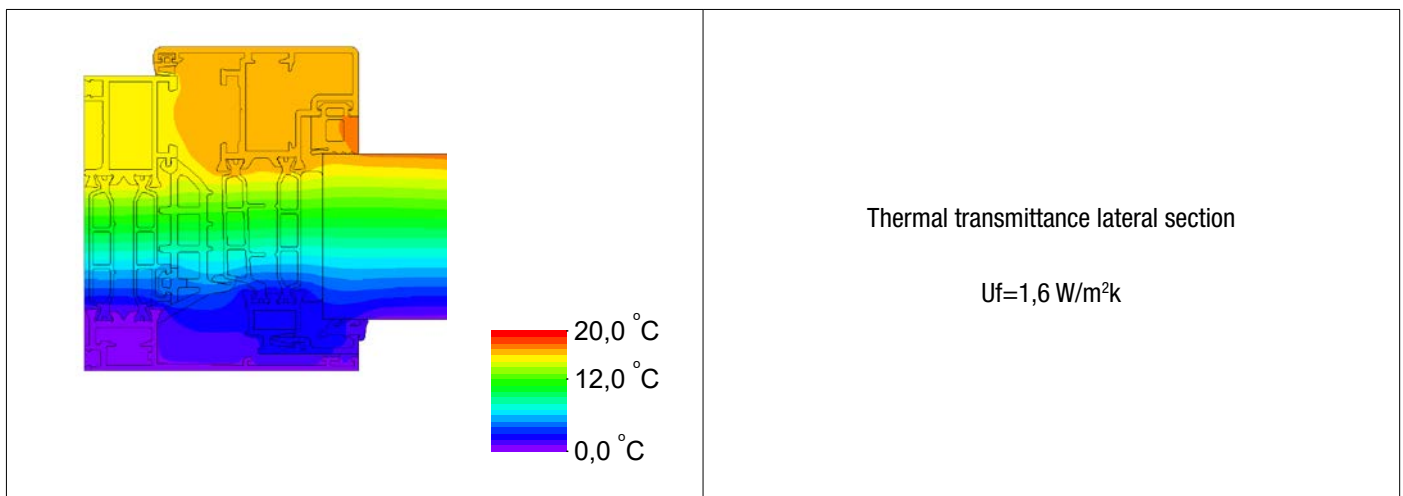
Determination of thermal transmittance of the sections of the Ecoslim 72 UP Hi system for windows

For the determination of the thermal transmittance of the profiles, the sections listed below were certified by the IRcCOS notified laboratory, according to the UNI EN ISO 10077-2:2017 product standard, following the calculation method using "Flixo 8.1". The reference code of the document issued by the laboratory corresponds to n° 1994-CPR-RP2658.

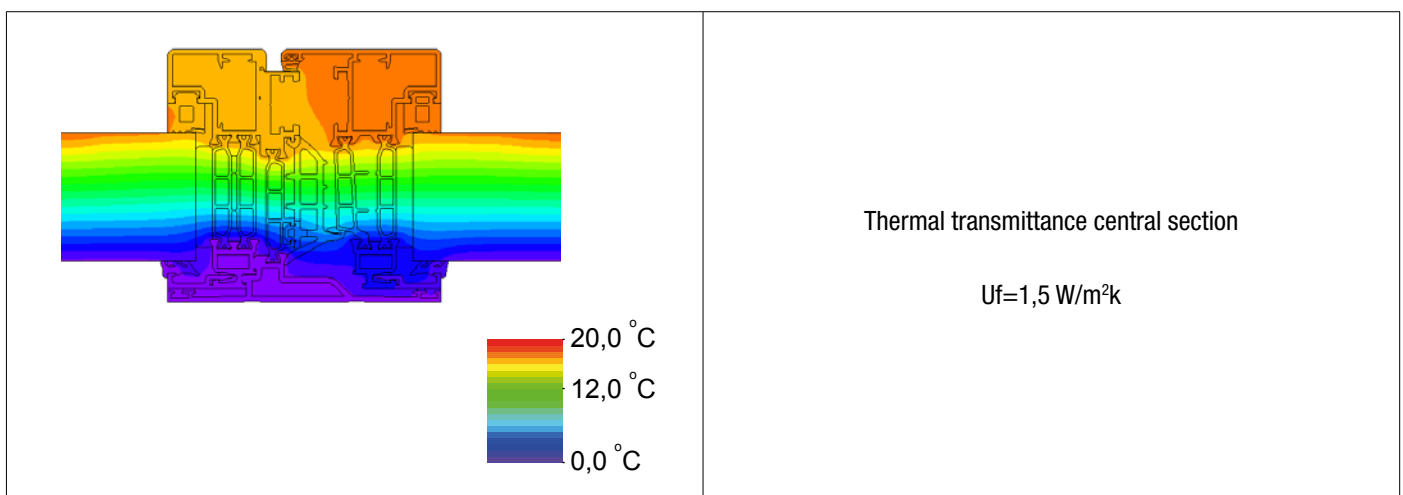
Methodology analysis used

The calculation of the thermal transmittance was performed in accordance with the UNI EN ISO 10077-2:2017 standard. The "Flixo 8.1" software was used for the calculations.

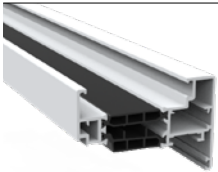
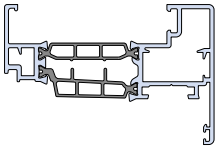
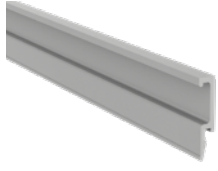
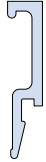
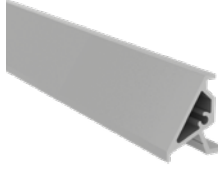
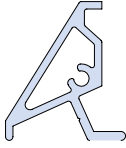
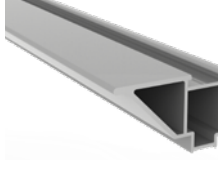
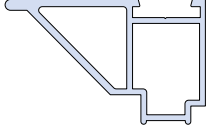
Trend of temperatures and heat flows in the lateral section UP 14703 + UP 14777.



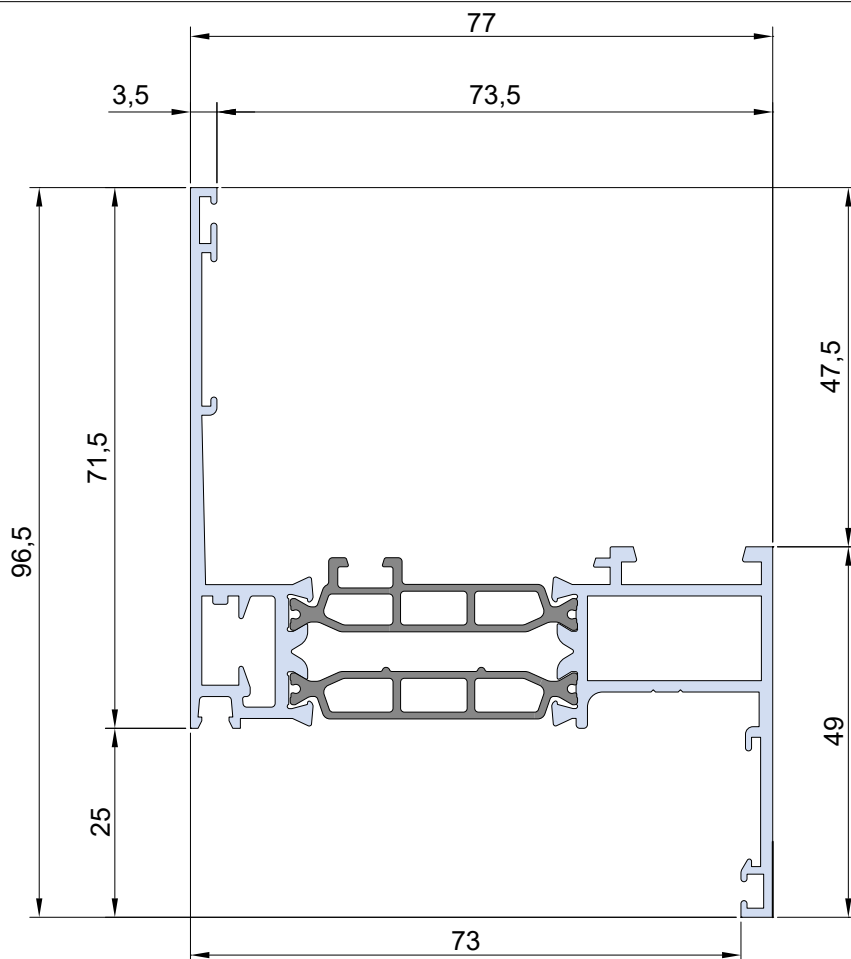
Trend of temperatures and heat flows in the central section UP 14714 + UP 14713 + UP 14777.



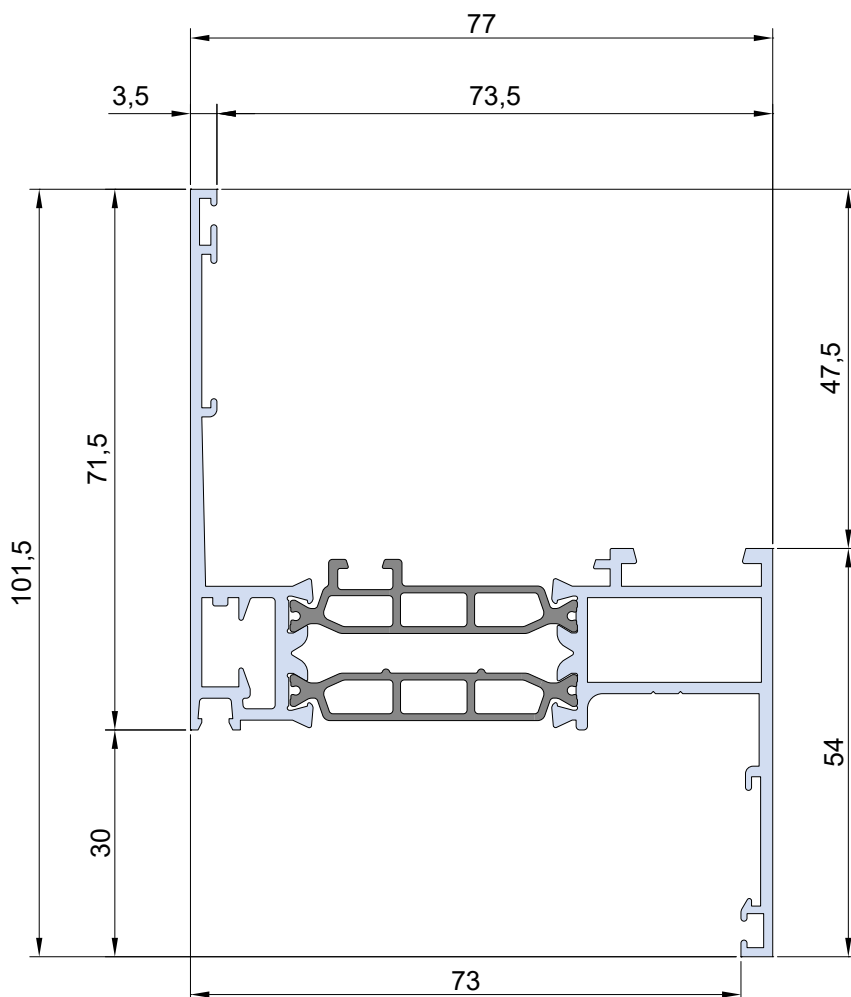
	Sagoma	Art.	Descrizione	Jxx cm ⁴ Jyy cm ⁴
		UP 14702	Telaio a Z Hi spalla 73mm battuta 25mm <i>Z Frame on wall 73 beat 25mm</i>	18,06 46,36
		UP 14703	Telaio a L Hi <i>L frame</i>	18,83 37,44
		UP 14713	Riporto centrale Hi <i>Astragal</i>	14,63 38,16
		UP 14714	Anta per riporto centrale Hi <i>Hi sash for astragal</i>	3,33 33,22
		UP 14721	Telaio a Z Hi spalla 73mm battuta 30mm <i>Z Frame on wall 73 beat 30mm</i>	19,81 47,99
		UP 14722	Telaio a Z Hi spalla 73mm battuta 40mm <i>Z Frame on wall 73 beat 40mm</i>	24,35 50,96
		UP 14738	Traverso fisso/apribile Hi <i>Transom fixed/opening</i>	17,11 45,34
		UP 14777	Anta Hi <i>Hi sash</i>	6,65 38,94
		UP 15738	Traverso apribile/apribile Hi <i>Transom opening/opening</i>	28,43 49,74
		UP 16714	Anta per riporto centrale Hi vetro infilare spazio vetro 57mm <i>Hi sash for astragal for beadless glass gap 57mm</i>	3,96 37,25

	Sagoma	Art.	Descrizione	Peso gr/m	Jxx cm ⁴ Jyy cm ⁴
		UP 16751	Anta Hi vetro infilare spazio vetro 57mm <i>Sash base Hi for beadless glass gap 57mm</i>		7,51 43,33
		PL 15005	Fermavetro ante Hi <i>Glazing bead for Hi sash</i>	117	- -
		PL 15006	Gocciolatoio per ante Hi con soglia ribassata <i>Drip in for Hi sash with low threshold</i>	420	- -
		TT 6505	Profilo compensatore per fissi telai Hi <i>Adjustment profile for fixed Hi sash</i>	867	8,05 3,80

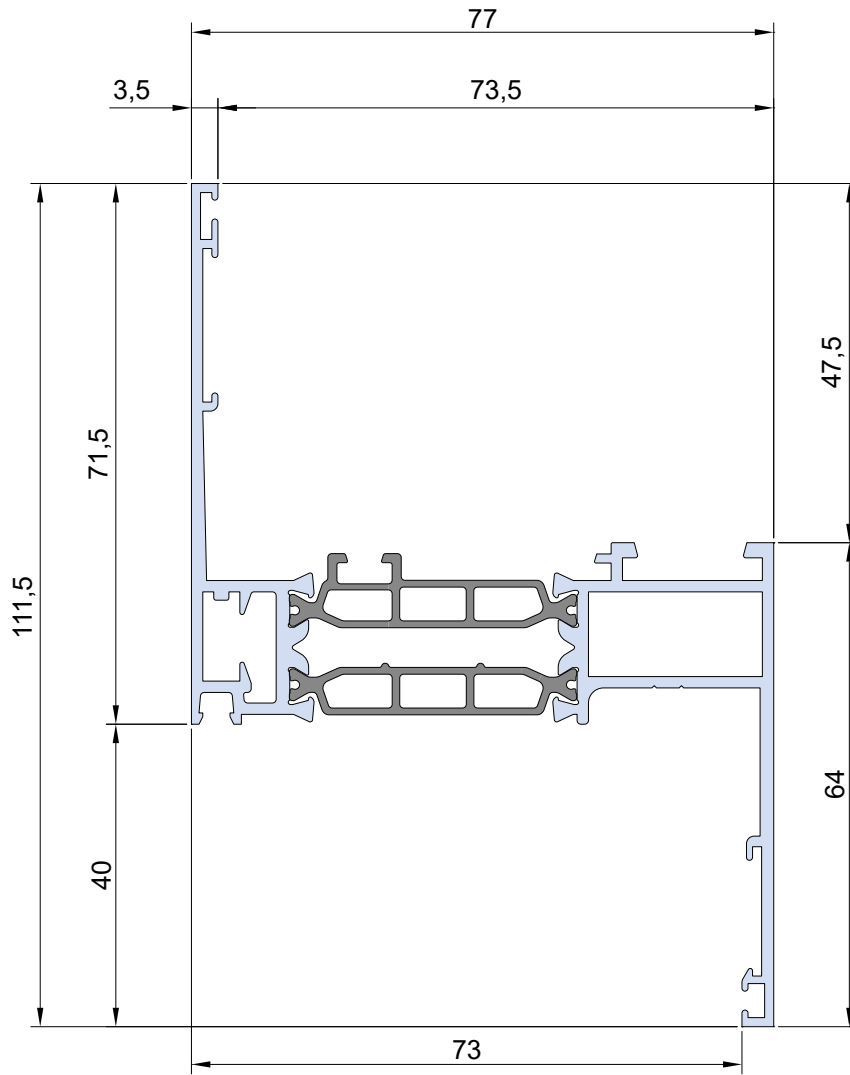
UP 14702



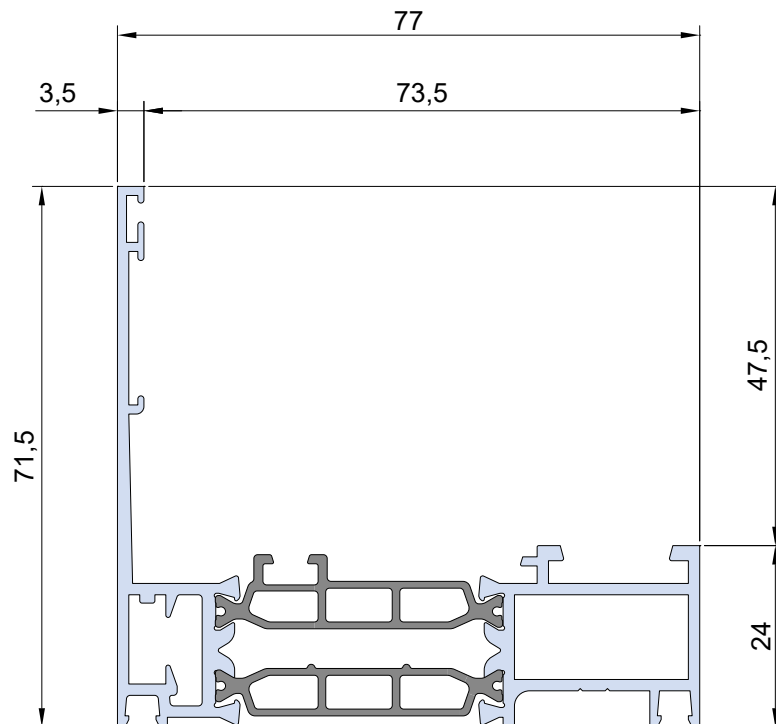
UP 14721



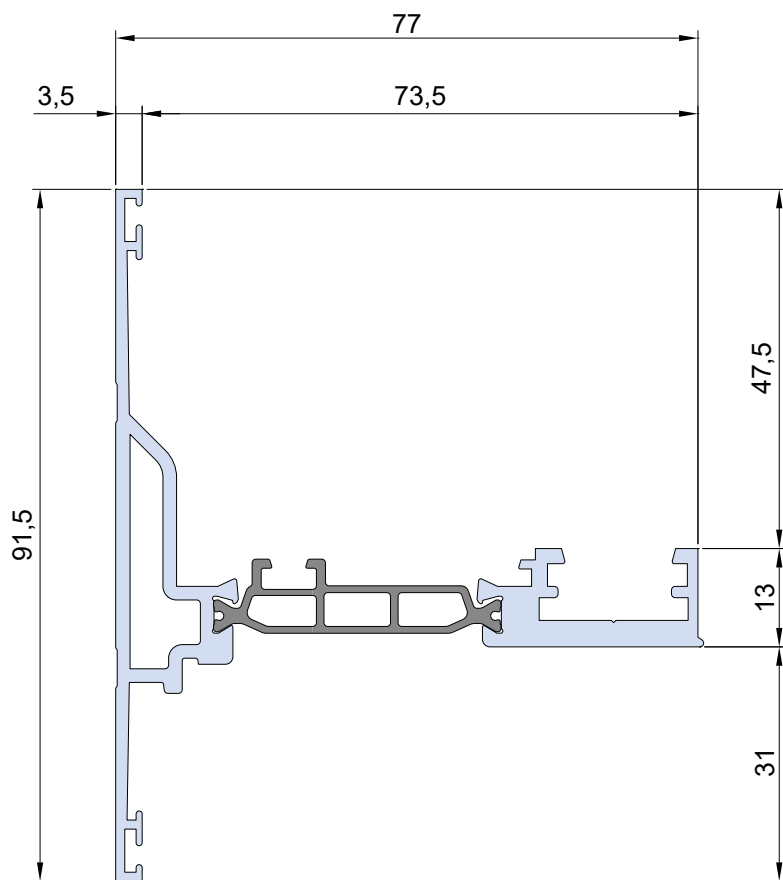
UP 14722



UP 14703

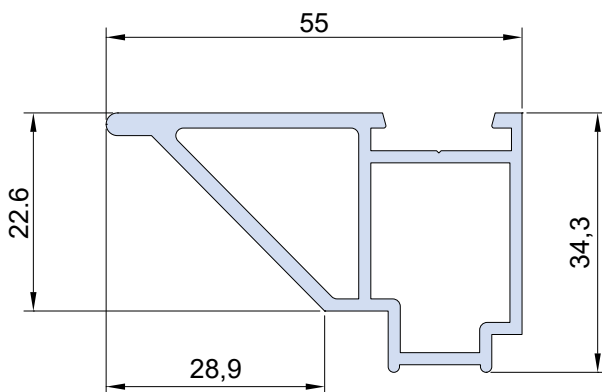


UP 14713

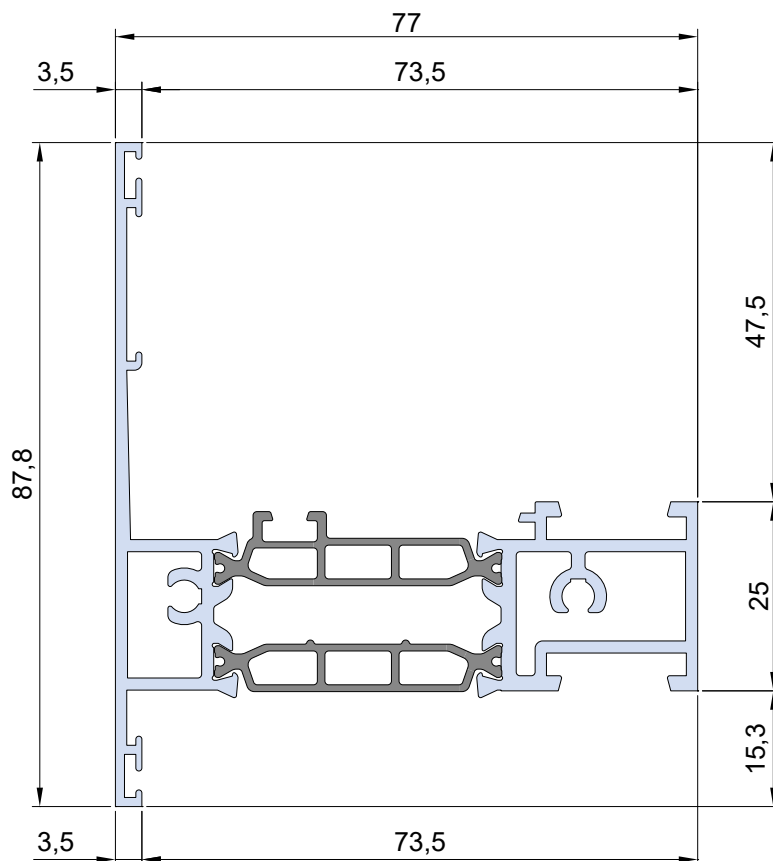


TT 6505

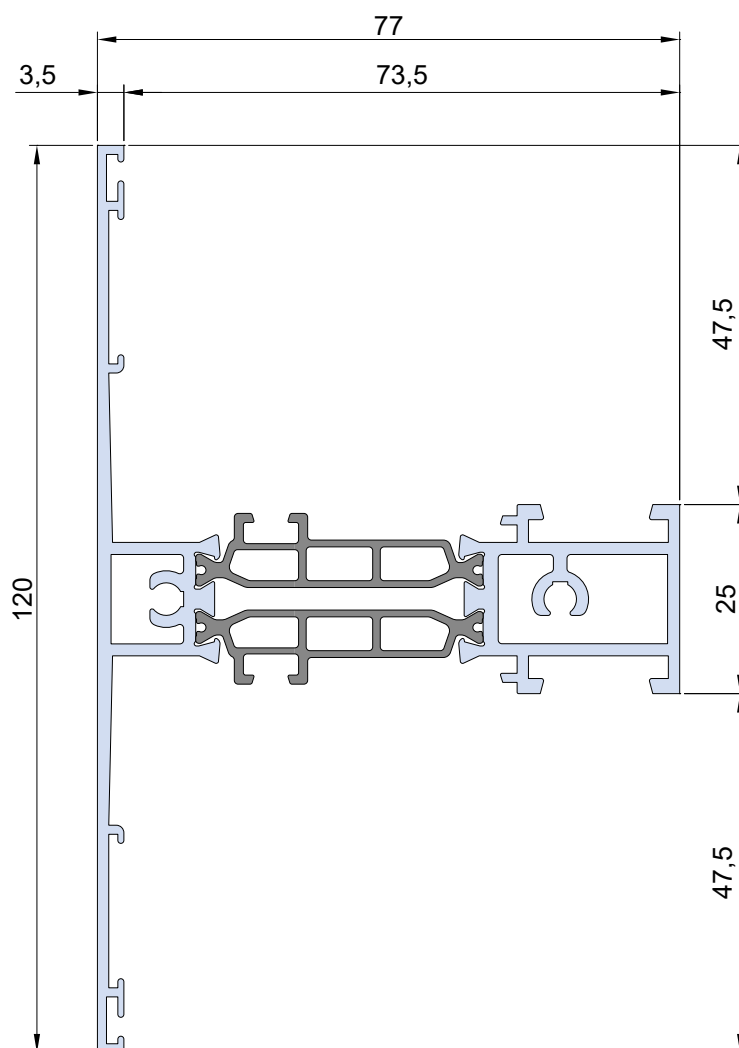
867 gr/m

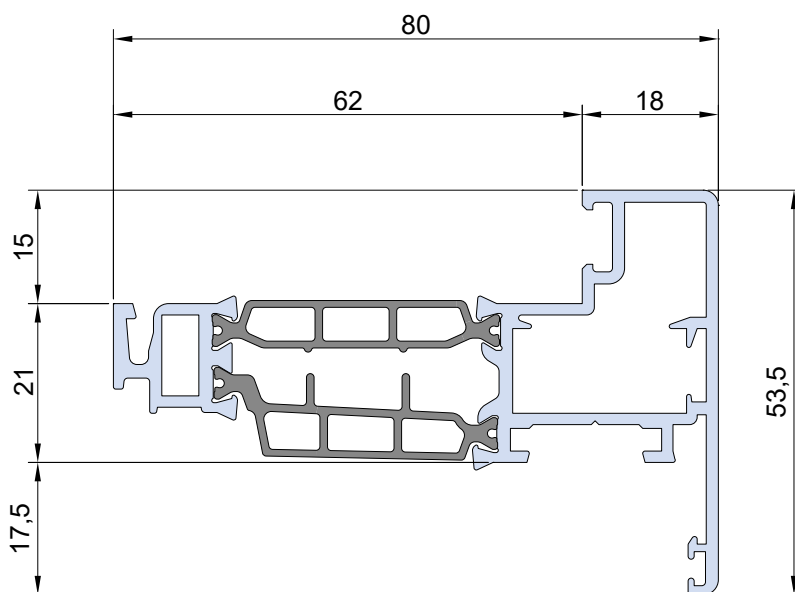


UP 14738

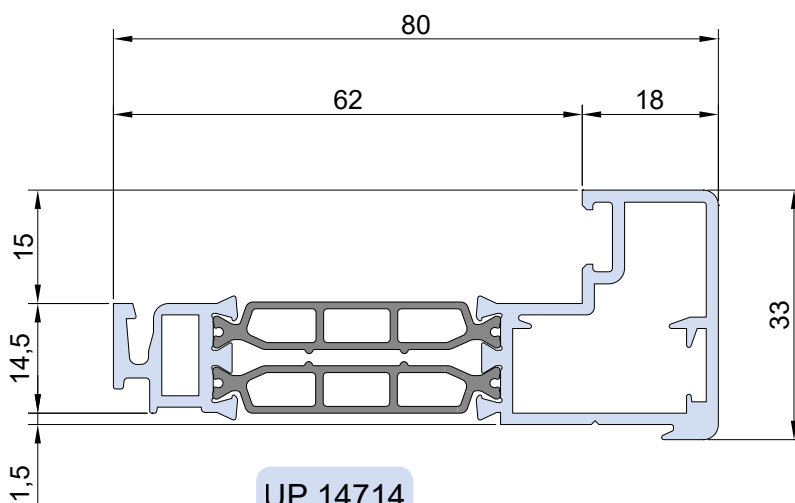


UP 15738

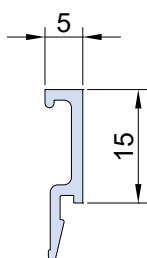




UP 14777

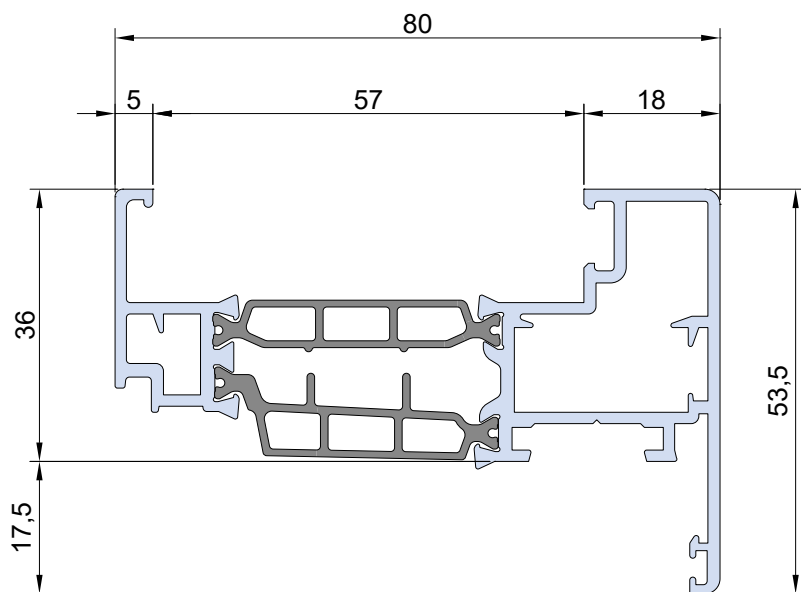


UP 14714

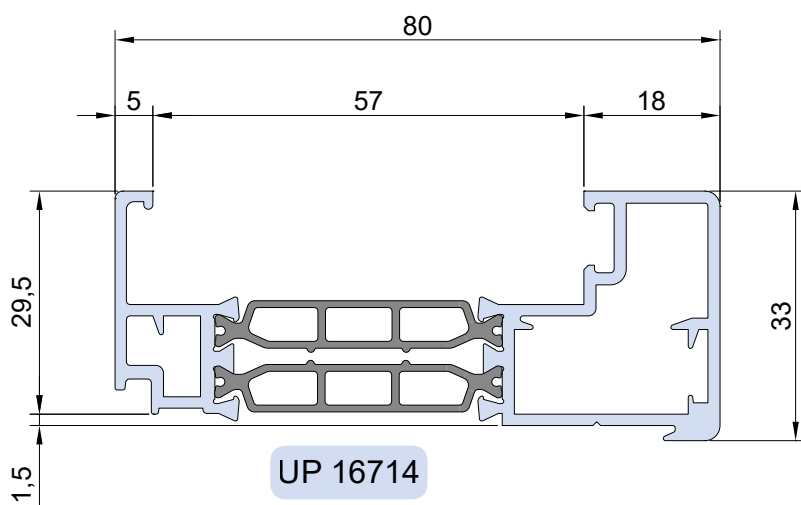


PL 15005

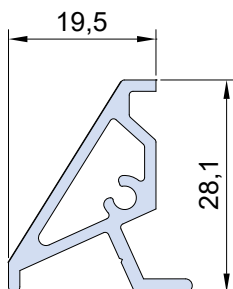
117 gr/m



UP 16751

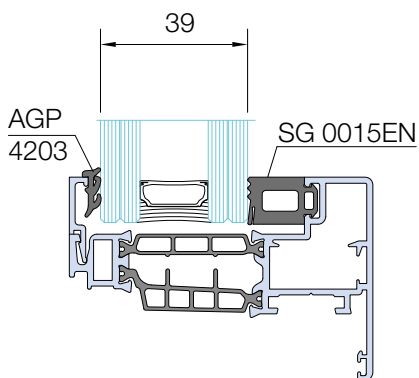
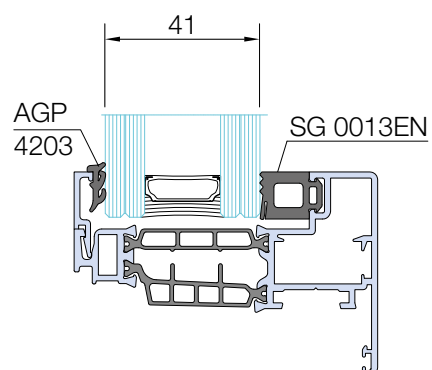
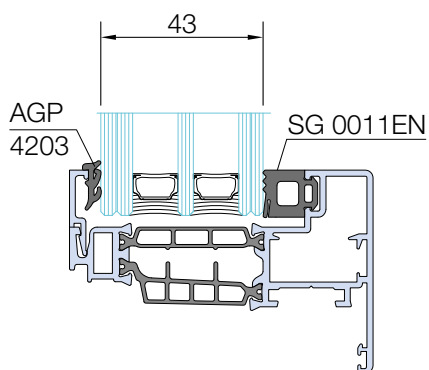
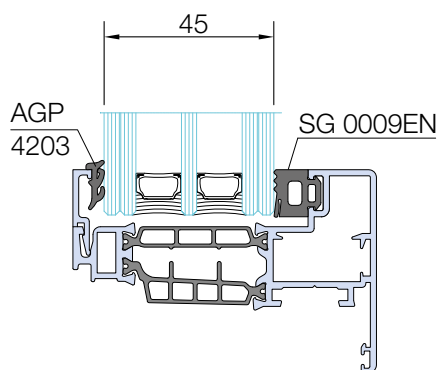
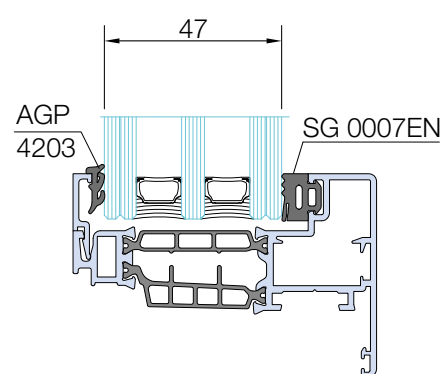
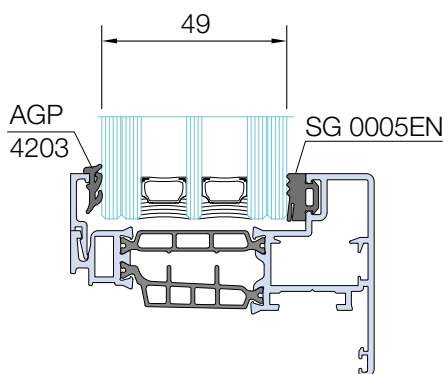
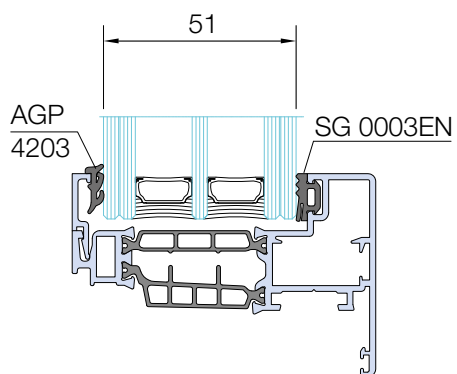


UP 16714



PL 15006

420 gr/m



ELENCO GUARNIZIONI / ACCESSORI

	SG0003EN
	<p>Guarnizione vetro interna spessore vetro 41mm Cfz: 150m</p> <p><i>Inner glazing bead seal glass thickness 41mm Pkg: 150m</i></p>

	SG00013EN
	<p>Guarnizione interna spessore vetro 31mm Cfz: 75m</p> <p><i>Inner glazing bead seal glass thickness 31mm Pkg: 75m</i></p>

	SG0005EN
	<p>Guarnizione interna spessore vetro 39mm Cfz: 100m</p> <p><i>Inner glazing bead seal glass thickness 39mm Pkg: 100m</i></p>

	SG00015EN
	<p>Guarnizione interna spessore vetro 29mm Cfz: 75m</p> <p><i>Inner glazing bead seal glass thickness 29mm Pkg: 75m</i></p>

	SG0007EN
	<p>Guarnizione interna spessore vetro 37mm Cfz: 100m</p> <p><i>Inner glazing bead seal glass thickness 37mm Pkg: 100m</i></p>

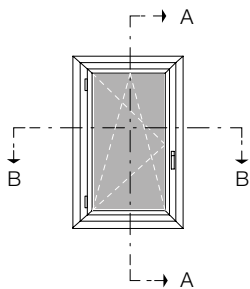
	ACP 6251
	<p>Squadretta di allineamento per telaio Cfz: 250 pz</p> <p><i>Alignment corner bracket frame Pkg: 250 pcs</i></p>

	SG0009EN
	<p>Guarnizione interna spessore vetro 35mm Cfz: 100m</p> <p><i>Inner glazing bead seal glass thickness 35mm Pkg: 100m</i></p>

	ACP 6282
	<p>Tappo gocciolatoio per PL 15006 Cfz:</p> <p><i>Central plug for Hi version Pkg:</i></p>

	SG00011EN
	<p>Guarnizione interna spessore vetro 33mm Cfz: 100m</p> <p><i>Inner glazing bead seal glass thickness 33mm Pkg: 100m</i></p>

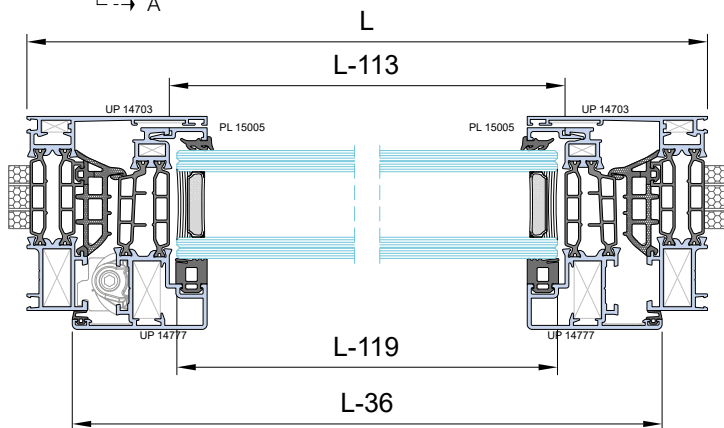
	ACP 72690
	<p>Tappo di riporto centrale versione Hi Cfz: 20 cp</p> <p><i>Central plug for Hi version Pkg: 20 pair</i></p>



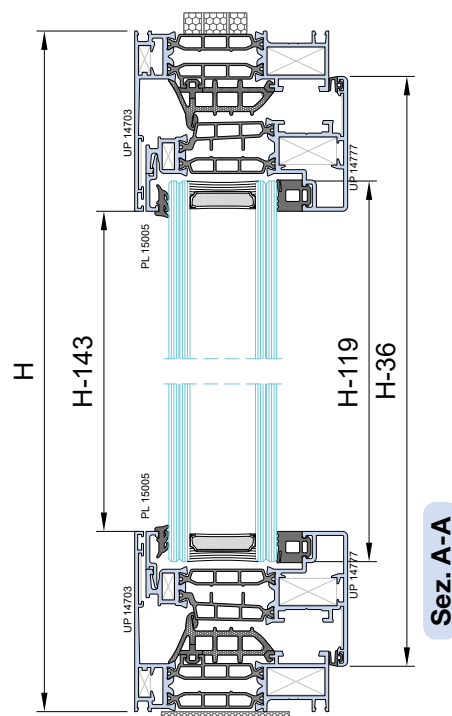
Finestra 1 anta ribalta Hi
Window 1 sash tilt & turn Hi

Distinta vetri
Glass list

Pezzi	L	H
1	L-119	H-119



Sez. B-B



Sez. A-A

Distinta profili
Profiles' list

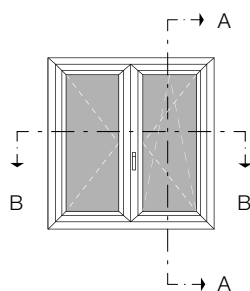
Art.	Descrizione	Pezzi	Misura	Taglio
UP 14703	Traverso telaio superiore <i>head transom frame</i>	2	L	
	Montante telaio <i>mullion frame</i>	2	H	
UP 14777	Traverso anta <i>transom sash</i>	2	L-36	
	Montante anta <i>mullion sash</i>	2	H-36	
PL 15005	Traverso fermavetro <i>transom glazing bead</i>	2	L-113	
	Montante fermavetro <i>mullion glazing bead</i>	2	H-143	

Distinta guarnizioni
Gaskets' list

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	2	L-36 H-36
Dipende dal vetro	Vetro interna <i>internal glass</i>	2	L-118 H-118
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116 H-116
AGP 4204	Vetro esterno <i>external glass gasket</i>	2	L-118 H-118
AGP 5034/25	Isolamento spalla <i>side insulation</i>	1 2	L H
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori
Accessories' list

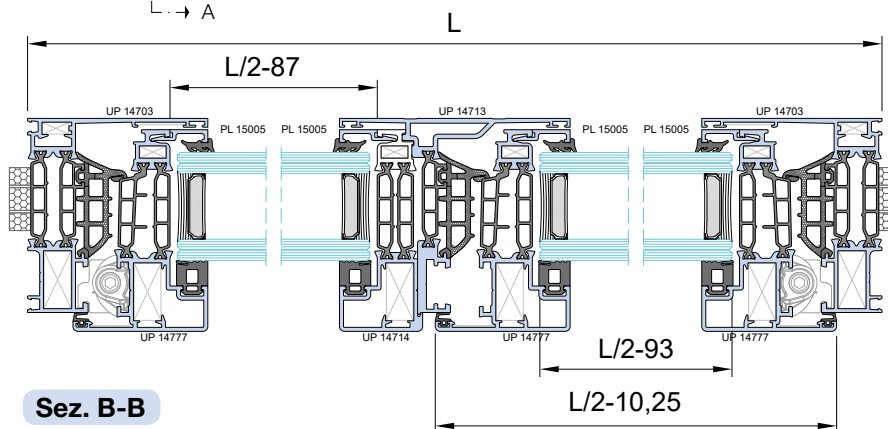
Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	8 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	8 pz
ACP 6251	Squadretta allineamento <i>multifunctional corner joint</i>	4 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	4 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	16 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5150	Kit a/r cerniera a scomparsa <i>tilt & turn window kit</i>	1 kit
ACP 50314	EXENS linea aurora <i>aurora EXENS handle</i>	1 pz
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	4 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit



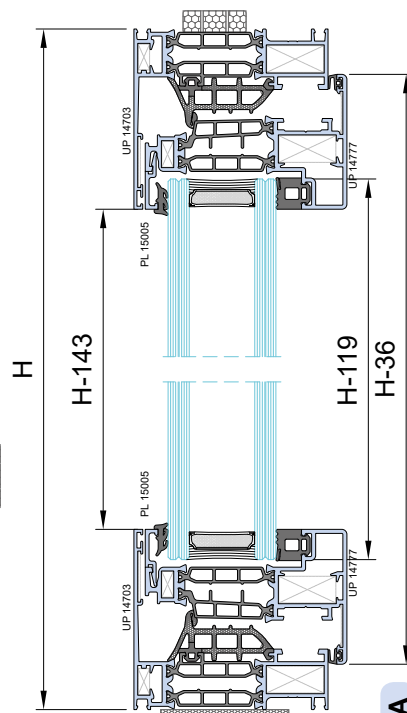
Finestra 2 ante ribalta Hi
Window 2 sash tilt & turn Hi

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-93	H-119



Sez. B-B



Sez. A-A

ECO-SLIM 72 UP Hi

Distinta profili
Profiles list

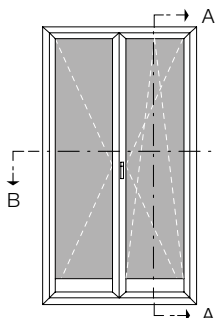
Art.	Descrizione	Pezzi	Misura	Taglio
UP 14703	Traverso telaio superiore head transom frame	2	L	
	Montante telaio mullion frame	2	H	
UP 14777	Traverso anta transom sash	4	L/2-10,25	
	Montante anta mullion sash	3	H-36	
PL 15005	Traverso fermavetro transom glazing bead	4	L/2-87	
	Montante fermavetro mullion glazing bead	4	H-143	
UP 14714	Montante anta mullion sash	1	H-77	
UP 14713	Riporto centrale central cap	1	H-81	

Distinta accessori
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone press-type corner joint	12 pz
ACP 62153	Squadretta multifunzione multifunctional corner joint	12 pz
ACP 6251	Squadretta allineamento multifunctional corner joint	4 pz
ACP 5008	Squadretta all. inox alignment corner joint	6 pz
ACP 5030	Spina per ACP 62153 pin for ACP 62153	24 pz
ACP 5036	Regolo muro in metallo metal wall spacer	6/8 pz
AGP 72185	Angolo vulcanizzato vulcanized corner	4 pz
ACP 50478	Kit manovra handle set	1 kit
ACP 5150	Kit a/r cerniera a scomparsa tilt & turn window kit	1 kit
ACP 50314	EXENS linea aurora aurora EXENS handle	1 pz
ACP 5157	Kit catenacci bidirezionali handle bidirection set	1 kit
ACP 5161	Kit cerniera anta passiva hinge passive sash set	1 kit
ACP 72690	tappo per riporto centrale central plug	1 cp
AGP 4085	Angolo vulcanizzato per AGP 4000 vulcanized corner gasket for AGP 4000	6 pz

Distinta guarnizioni
Gaskets list

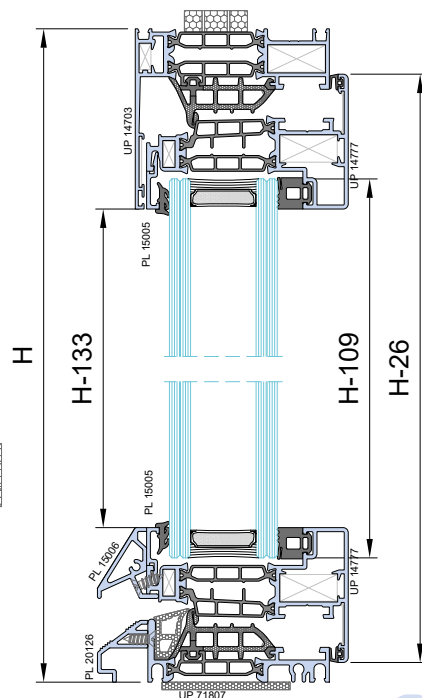
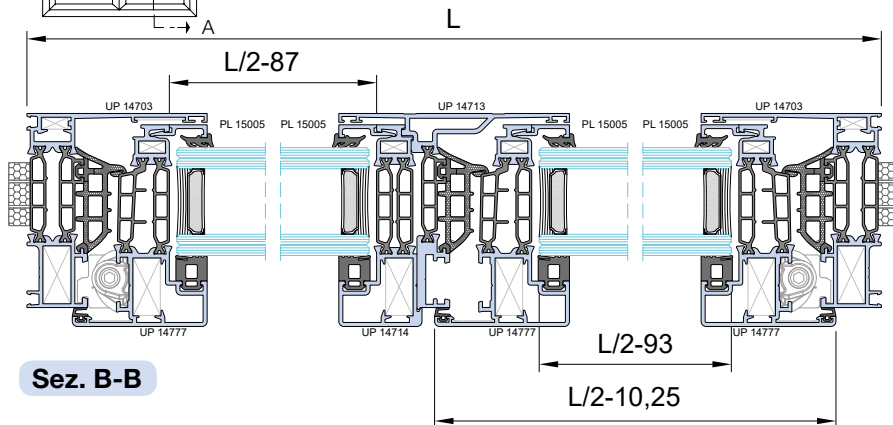
Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta wall seal	4 3	L/2-10,25 H-36
Dipende dal vetro	Vetro interna internal glass	4 4	L/2-92 H-118
AGP 72172	Pinna giunto aperto central rabbet	2 3	L-116 H-116
AGP 4204	Vetro esterno external glass gasket	4 4	L/2-96 H-122
AGP 5034/25	Isolamento spalla side insulation	1 2	L H
AGP 5037	Isolamento soglia threshold insulation	1	L



Portafinestra 2 ante Hi
Door window 2 sash Hi

Distinta vetri
Glass list

Pezzi	L	H
2	L/2-93	H-109



Sez. B-B

Sez. A-A

Distinta profili

Art.	Descrizione	Pezzi	Misura	Taglio
UP 14703	Traverso telaio superiore <i>head transom frame</i>	1	L	
	Montante telaio <i>mullion frame</i>	2	H	
UP 14777	Traverso anta <i>transom sash</i>	4	L/2-10,25	
	Montante anta <i>mullion sash</i>	3	H-26	
PL 15005	Traverso fermavetro <i>transom glazing bead</i>	4	L/2-87	
	Montante fermavetro <i>mullion glazing bead</i>	4	H-133	
UP 14714	Montante anta <i>mullion sash</i>	1	H-67	
UP 14713	Riporto centrale <i>central cap</i>	1	H-71	
PL 15006	Gocciolatoio <i>drip</i>	1	L-202	
		1	L-26	
UP 71807	Soglia <i>threshold</i>	1	L-39	
PL 20126	Rinforzo soglia <i>threshold reinforcement</i>	1	L-48	

Distinta guarnizioni

Art.	Descrizione	Pezzi	Misura
AGP 4000	Battuta <i>wall seal</i>	4	L/2-10,25
		3	H-36
Dipende dal vetro	Vetro interna <i>internal glass</i>	4	L/2-92
		4	H-118
AGP 72172	Pinna giunto aperto <i>central rabbet</i>	2	L-116
		3	H-116
AGP 4204	Vetro esterno <i>external glass gasket</i>	4	L/2-96
		4	H-122
AGP 6502	Guarnizione supplementare <i>additional gasket</i>	1	L-37
AGP 5034/25	Isolamento spalla <i>side insulation</i>	1	L
		2	H
AGP 5037	Isolamento soglia <i>threshold insulation</i>	1	L

Distinta accessori

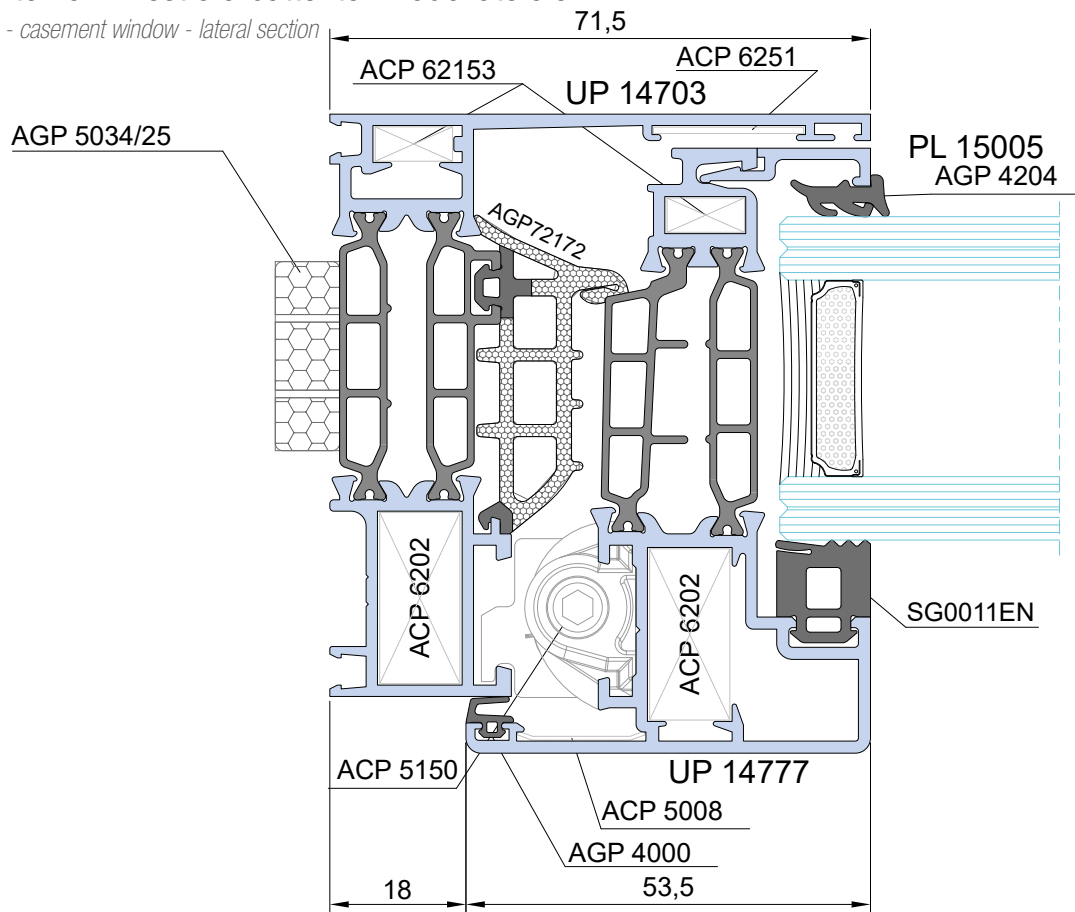
Accessories list

Art.	Descrizione	Q.tà
ACP 6202	Squadretta a bottone <i>press-type corner joint</i>	10 pz
ACP 62153	Squadretta multifunzione <i>multifunctional corner joint</i>	10 pz
ACP 6251	Squadretta allineamento <i>multifunctional corner joint</i>	2 pz
ACP 5008	Squadretta all. inox <i>alignment corner joint</i>	6 pz
ACP 5030	Spina per ACP 62153 <i>pin for ACP 62153</i>	20 pz
ACP 5036	Regolo muro in metallo <i>metal wall spacer</i>	6/8 pz
AGP 72185	Angolo vulcanizzato <i>vulcanized corner</i>	4 pz
ACP 50478	Kit manovra <i>handle set</i>	1 kit
ACP 5150	Kit a/r cerniera a scomparsa <i>tilt & turn window kit</i>	1 kit
ACP 50314	EXENS linea aurora <i>aurora EXENS handle</i>	1 pz
ACP 5157	Kit catenacci bidirezionali <i>handle bidirection set</i>	1 kit
ACP 5161	Kit cerniera anta passiva <i>hinge passive sash set</i>	1 kit
ACP 72690	tappo per riporto centrale <i>central plug</i>	1 cp
ACP 6282	Tappo per gocciolatoio <i>drip plug</i>	2 cp
AGP 4085	Angolo vulcanizzato per AGP 4000 <i>vulcanized corner gasket for AGP 4000</i>	6 pz
ACP 5155	Chiusura supplementare per L>1000mm e H>1200mm <i>additional locking piece for L>1000mm and H>1200mm</i>	1 kit

Nodo 1

Apertura interna - finestra a battente - nodo laterale

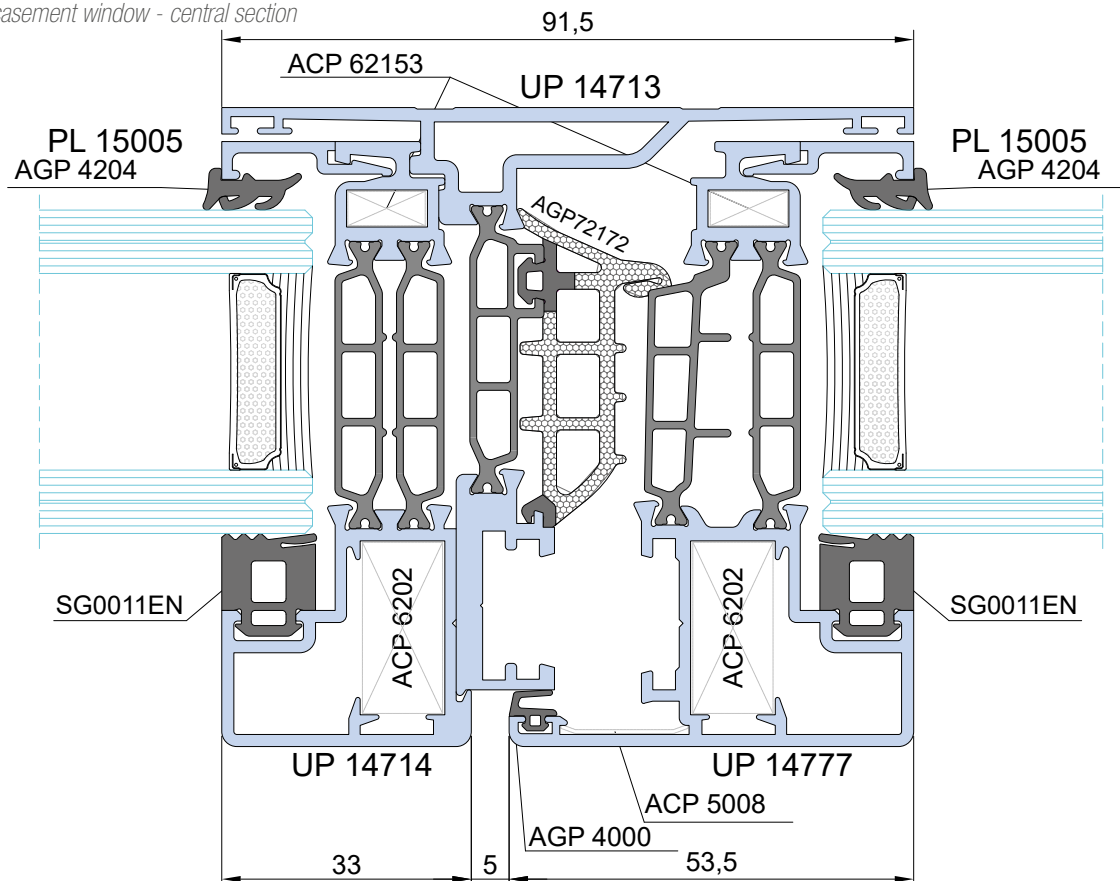
Inward opening - casement window - lateral section



Nodo 2

Apertura interna - finestra a battente - nodo centrale

Inward opening - casement window - central section

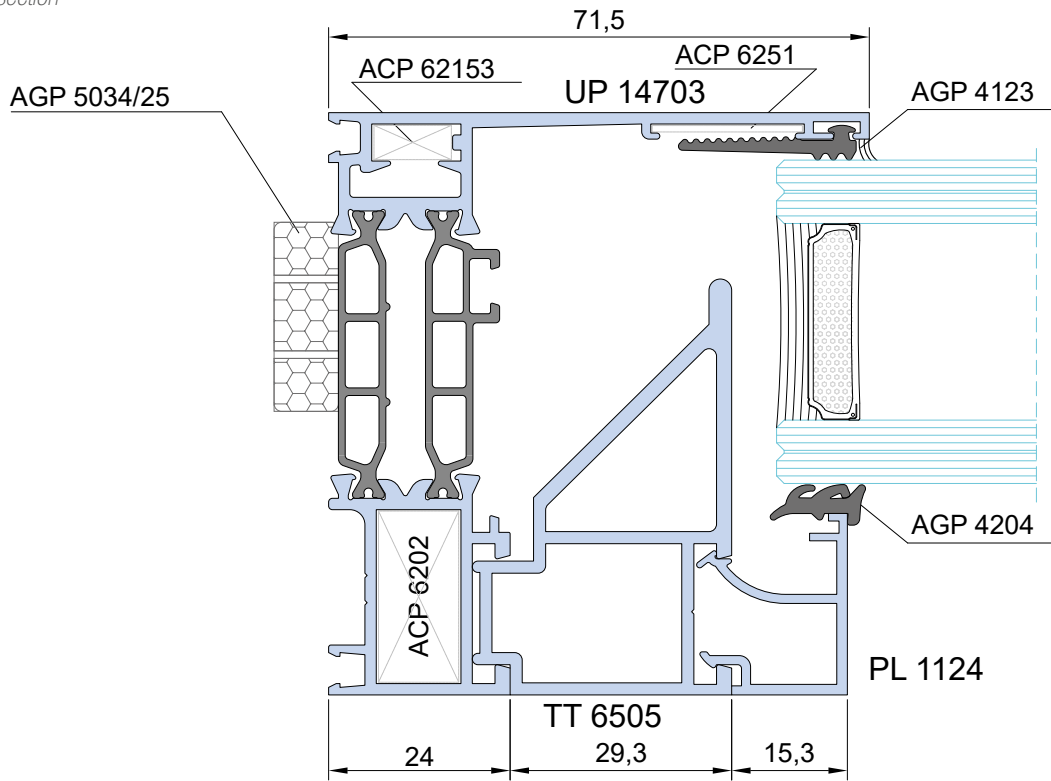


Nodo 3

Fisso- nodo laterale

Fixed - lateral section

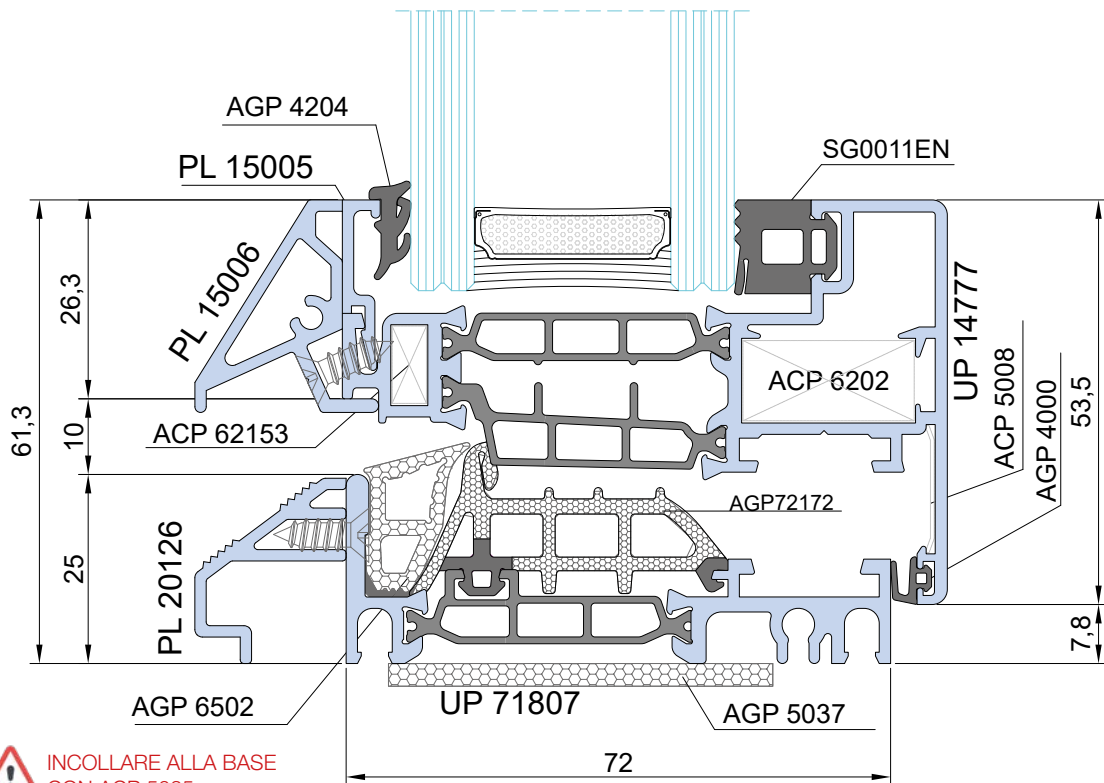
ECOSLIM 72 UP-HI



Nodo 4

Apertura interna - finestra a battente - nodo soglia

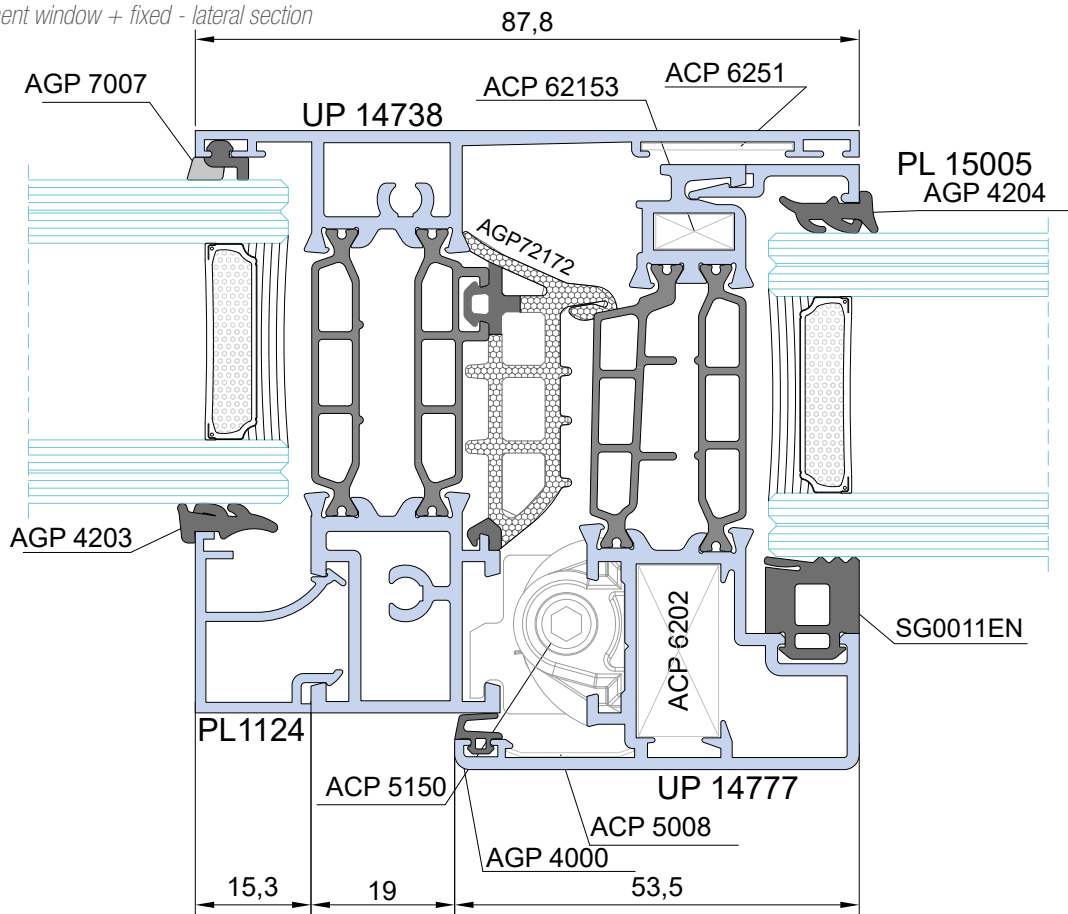
Inward opening - casement window - threshold section



Nodo 5

Apertura interna - finestra a battente + fisso - nodo laterale

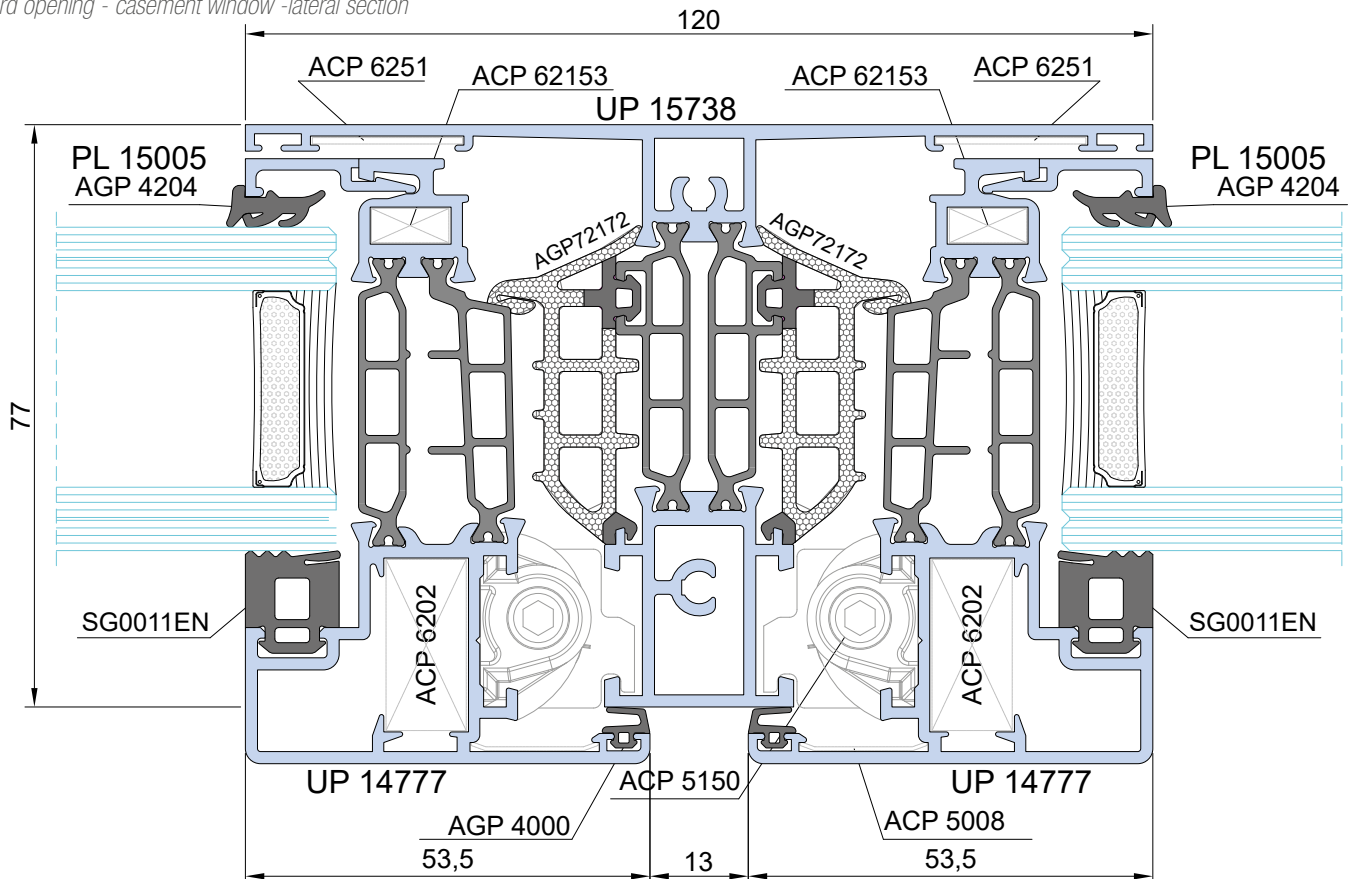
Inward opening - casement window + fixed - lateral section



Nodo 6

Apertura interna - finestra a battente - nodo laterale

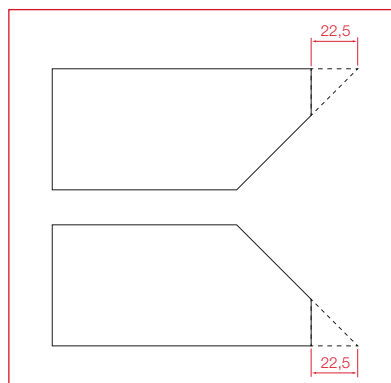
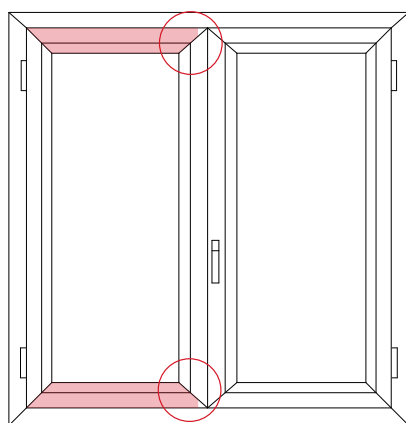
Inward opening - casement window - lateral section



L1

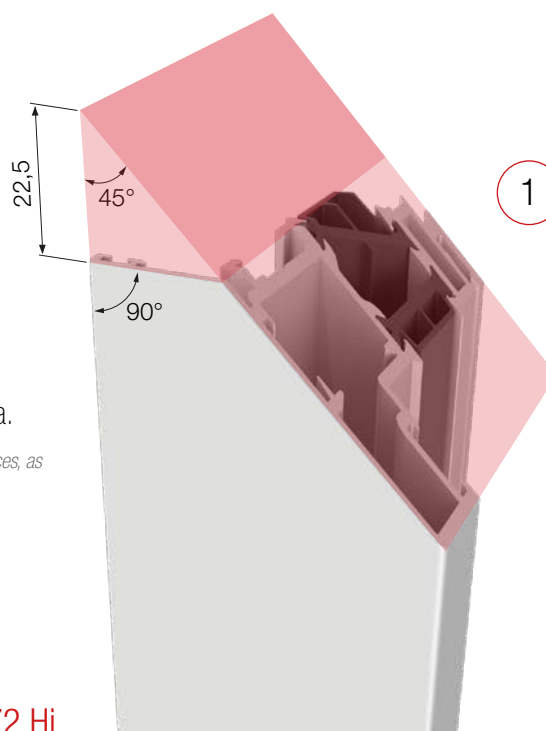
Lavorazioni trasversi orizzontali anta Hi per applicazione tappi ACP 72690

Processing of horizontal transoms for Hi sash for application of caps ACP 72690



- 2 Spuntare i trasversi, come indicato in figura.

Check off the crosspieces, as shown in the figure.



- 1 Tagliare a 45° i trasversi dell'anta semifissa

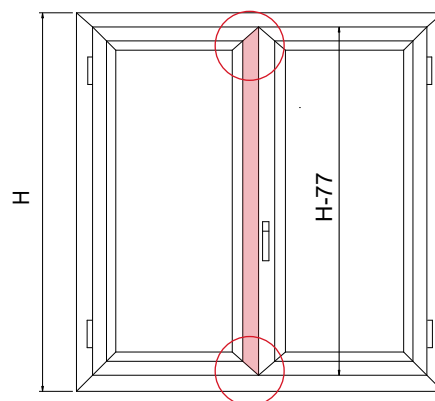
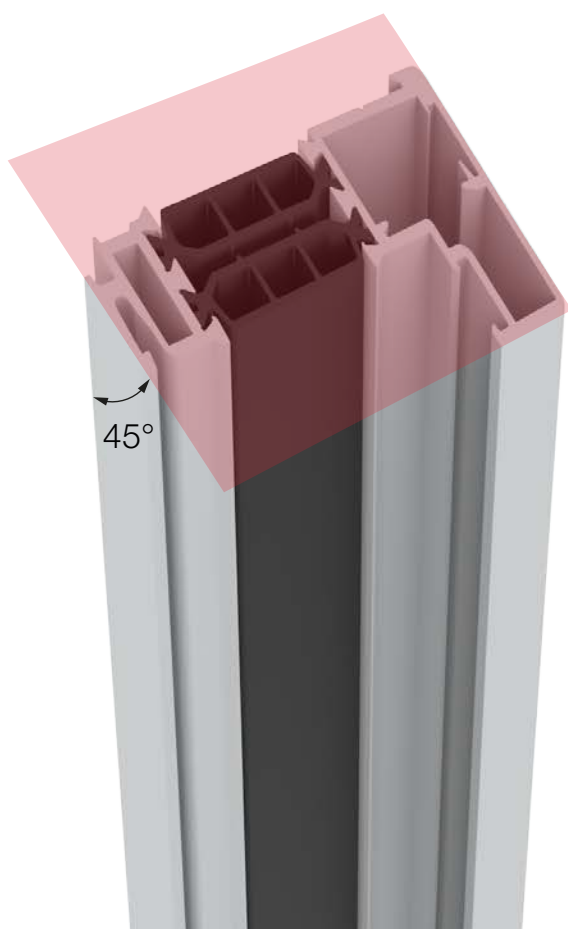
Cut at 45° the transoms of the semi-fixed sash

UP 14777 ECOSLIM 72 Hi

L2

Lavorazioni montante anta per riporto centrale Hi per applicazione tappi ACP 72690

Processing of the sash upright for Hi central insert for the application of caps ACP 72690



Tagliare a 45°
il montante dell'anta semifissa

*Cut at 45°
the upright of the semi-fixed sash*

UP 14714 ECOSLIM 72 Hi

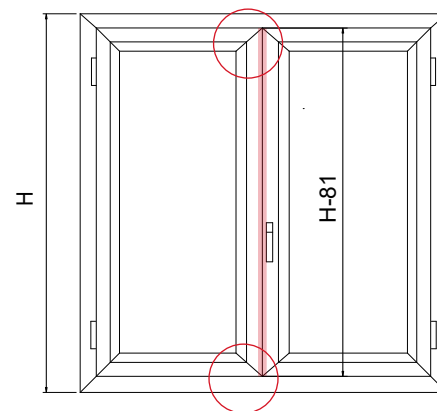
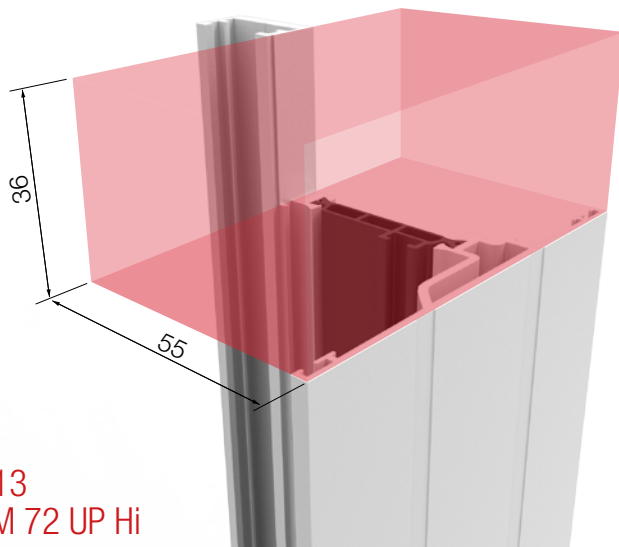
L3

Lavorazioni riporto centrale montante ante Hi per applicazione Tappi ACP 72690

Processing of the central upright for Hi sashes for the application of caps ACP 72690

Dopo aver tagliato a misura il montante del riporto centrale, intestare con il gruppo frese MCT PL 53 PT come da disegno.

After cutting the upright of the central insert to size, end with the MCT PL 53 PT cutting machine as per the drawing.

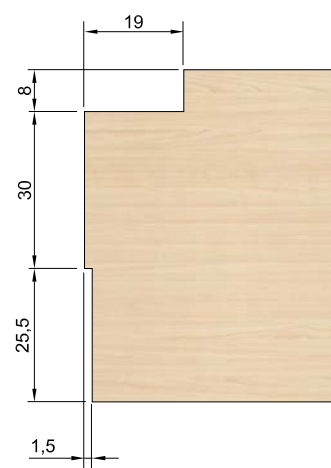
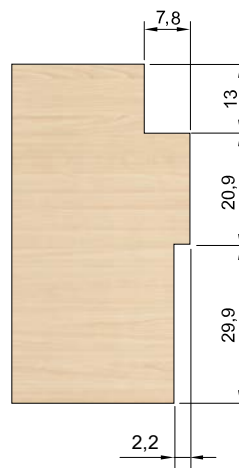
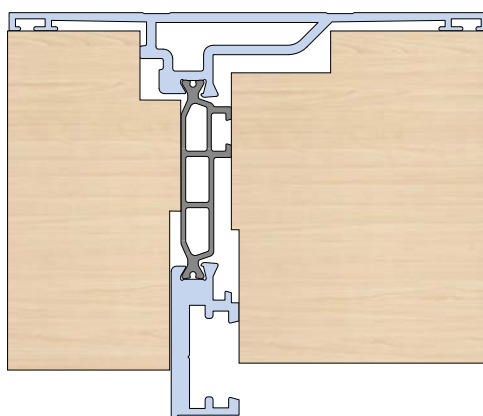


UP 14713
ECOSLIM 72 UP Hi

Controsagome per gruppo frese MCT PL 53 PT

Counterprofiles for MCT PL 53 PT cutter unit

ECOSLIM 72 UP Hi

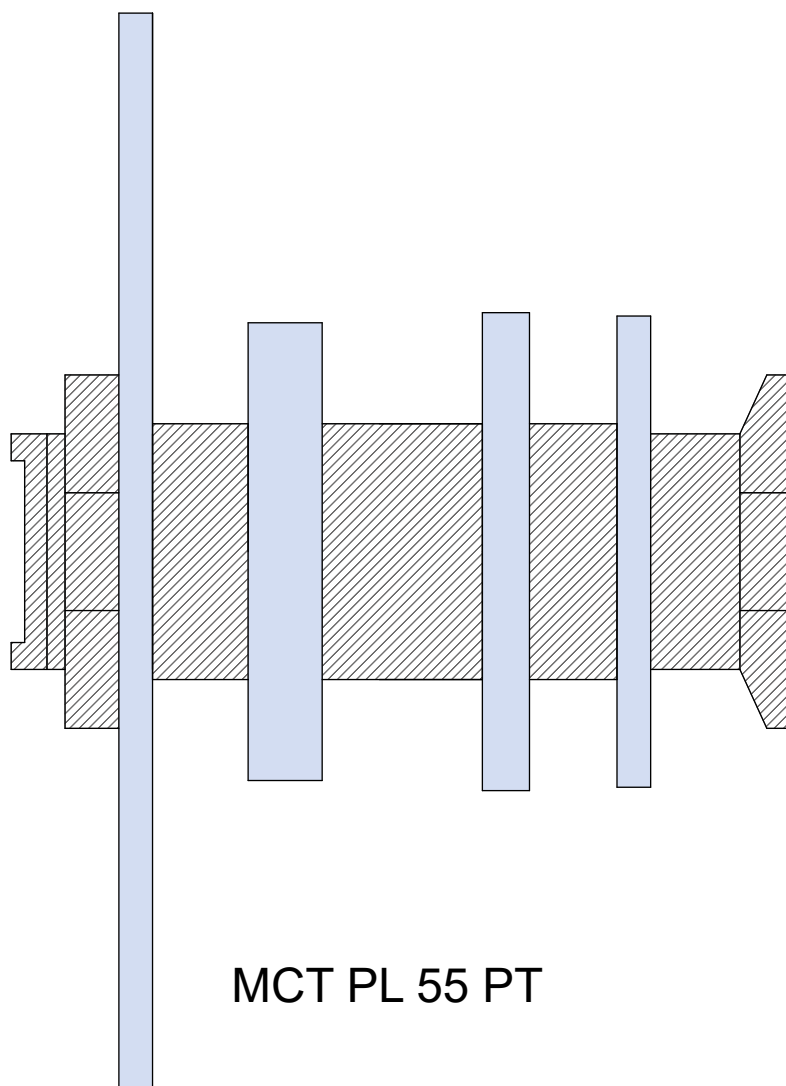
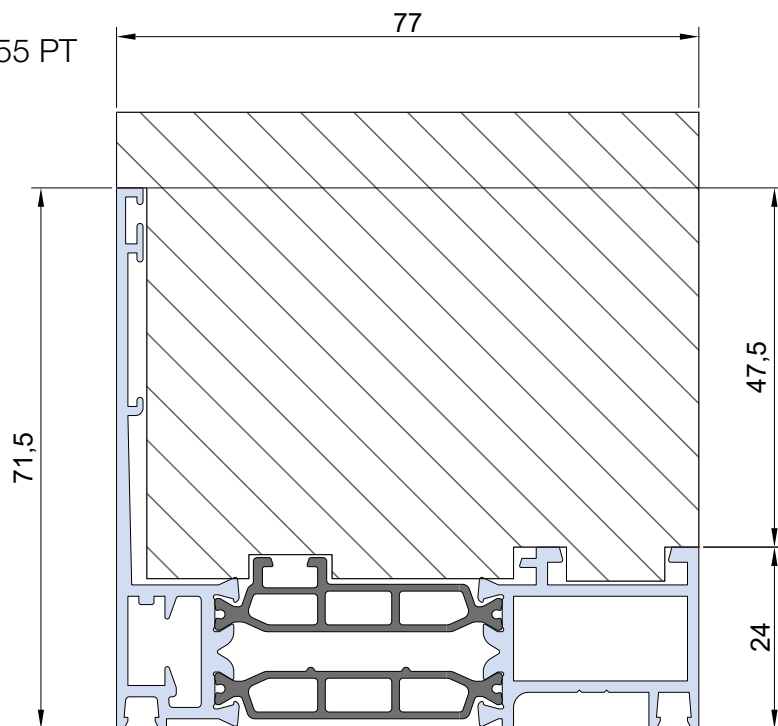


ALSISTEM consiglia...

di utilizzare una controsagoma in legno/PVC durante la lavorazione con il gruppo frese
to use a wooden / PVC template when working with the router group

L4

Gruppo frese MCT PL 55 PT
MCT PL 55 PT cutter unit

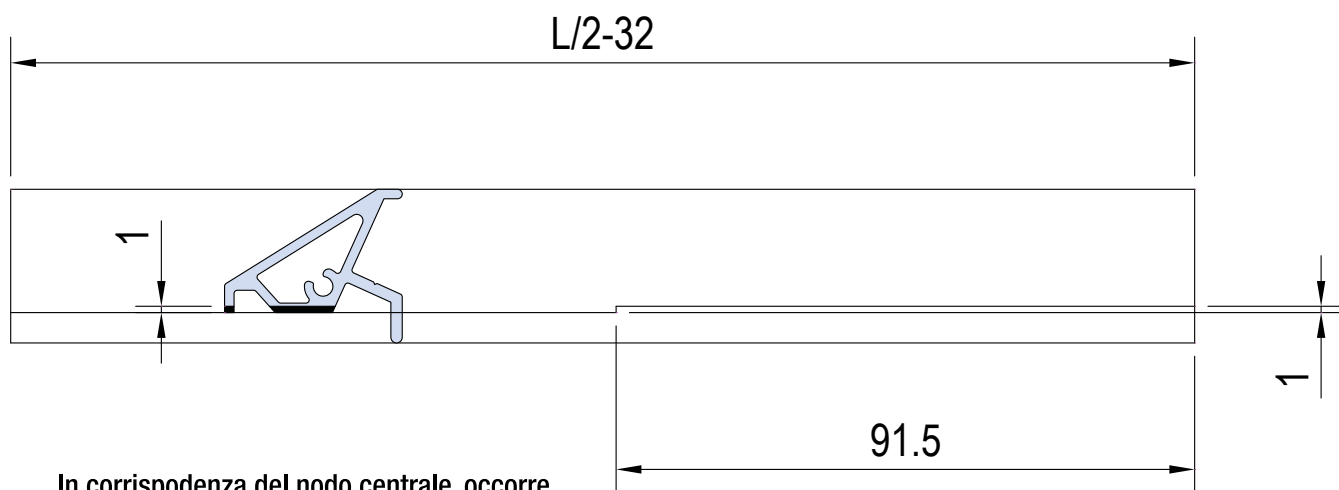
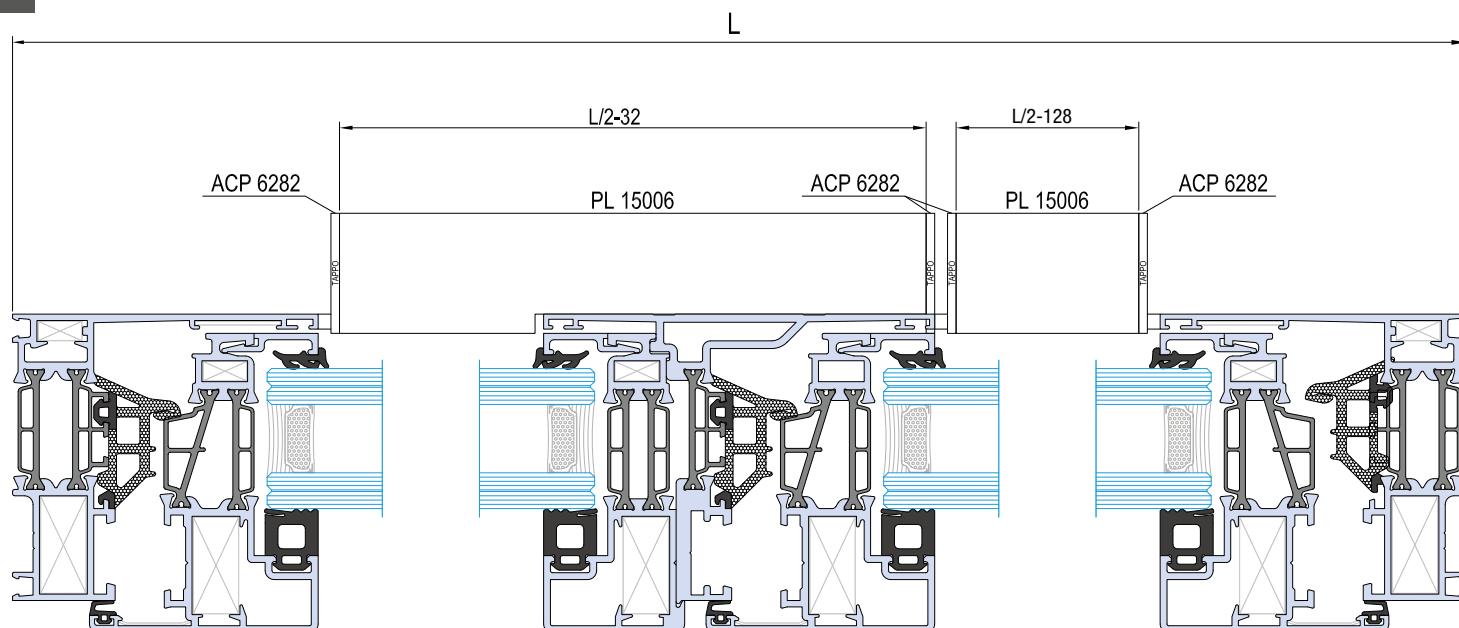


L5

Lavorazioni gocciolatoio PL 15006

PL 15006 drip tray machining

ECOSLIM 72 UP HI



In corrispondenza del nodo centrale, occorre fresare il profilo come indicato nel disegno sopra.

In questa posizione il tappo dovrà essere tagliato lungo il pretaglio

In correspondence with the central section, the profile must be milled as indicated in the drawing above. in this position the cap will have to be cut along the pre-cut.

Lavorazione profilo PL 15006

M1

Montaggio tappi riporto centrale ACP 72690

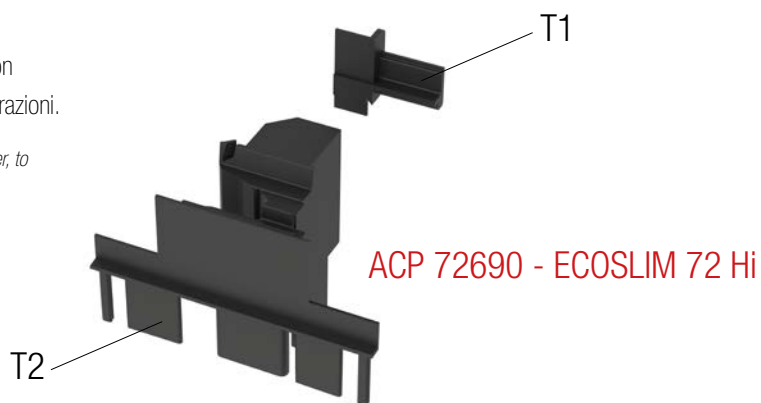
Assembling central carry caps ACP 72690



ALSISTEM consiglia...

di sigillare entrambe le parti del tappo (T1, T2) con silicone MS polimero, per eliminare eventuali infiltrazioni.

to seal both parts of the cap (T1, T2) with silicone MS polymer, to eliminate any infiltrations.

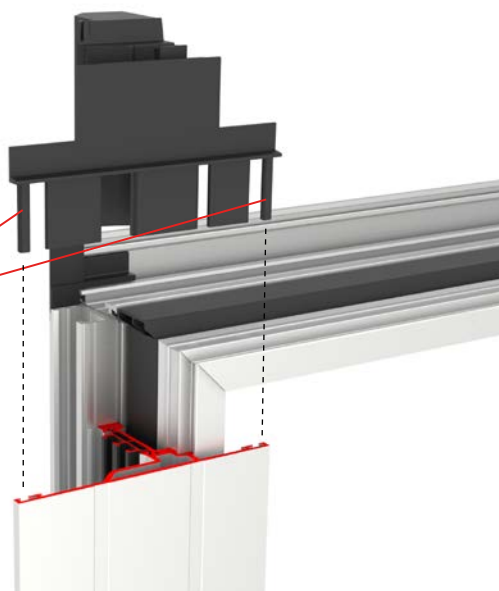


1 Inserire la parte T1 prima di assemblare l'anta.

2 Inserire la parte T2 nel profilo di riporto, sigillando tutta la parte di contatto tra tappo e profilo



N.B.: Queste due alette si inseriscono a pressione frontalmente dopo aver infilato il tappo fino in fondo.

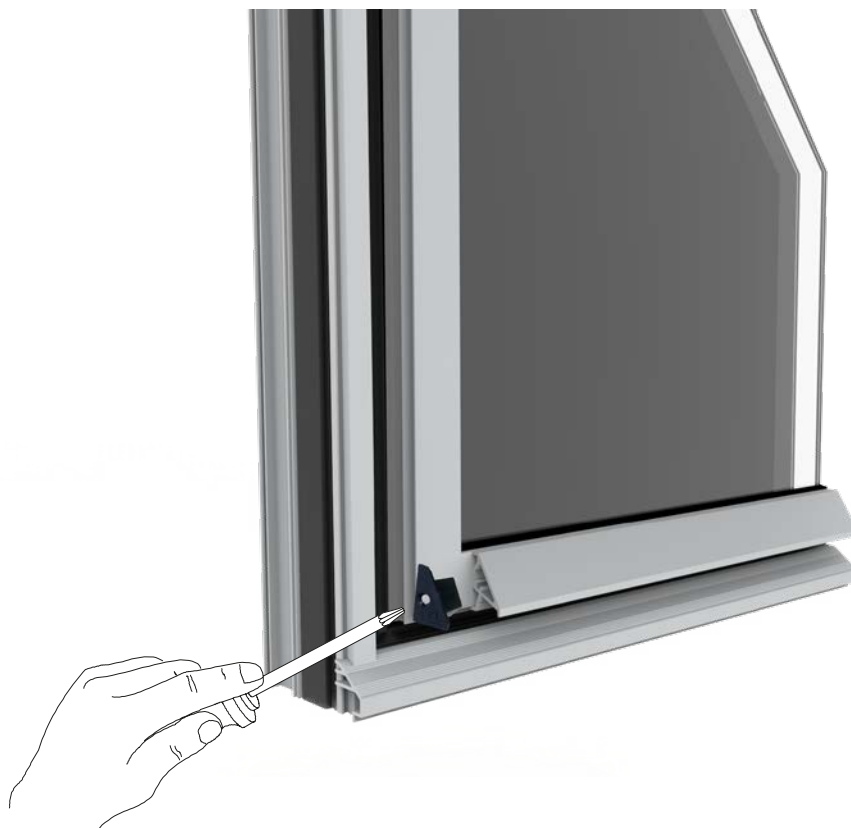


M2

Montaggio gocciolatoio PL15006

PL15006 drip tray assembly

ECOSLIM 72 UP HI



Sistemi a battente alluminio-legno



NATHURA 59

Sistema alluminio/legno per serramenti non isolati ad elevata ermeticità

Aluminum/wood system for weatherproof, non-insulated window and door frames



NATHURA 70 PLUS 82 - 92 UP

Sistemi alluminio/legno a taglio termico con ferramenta perimetrale ed elevatissime prestazioni di isolamento termico

Aluminum/wood thermal break systems with perimeter hardware and extra high-performance thermal insulation

Sistemi scorrevoli e alzanti alluminio-legno



SLIDE WOOD 160

Sistema scorrevole alzante a taglio termico alluminio-legno con valori eccellenti di trasmittanza termica, tenuta all'acqua, di portata e sicurezza all'effrazione

Sliding thermal break system, aluminum-wood, with excellent ratings of thermal transmittance, water sealing, load-bearing and anti-intrusion



TOP SLIDE WOOD 214 PLUS 214 UP

Sistema a taglio termico alluminio-legno per serramenti alzanti di elevate dimensioni e peso

Thermal break system, aluminum-wood, for large-size and heavyweight lift-and-slide window and door frames

Sistemi per porte



PLANET DOOR 62 DOOR 72

Sistema per la costruzione di porte interne di alto design ad ante o porte scorrevoli di ogni tipologia, finitura estetica e colore

Top-of-the-range internal doors, sash or sliding, all types, finish and color



EASY DOOR

Sistema per la costruzione di porte interne di alto design ad ante o porte scorrevoli di ogni tipologia, finitura estetica e colore

Top-of-the-range internal doors, sash or sliding, all types, finish and color



PLANET 45 PORTE COMPLANARI

Sistema termicamente non isolato per porte complanari

Flush door system



PLANET 45 persiana VENERE PRO

Persiane in alluminio con sistema orientabile Venere Pro

European chamber aluminum shutters with double rebated sealing and unique Venere Pro pivot system

Sistemi per facciate



SIRIO 50

Sistema per facciate continue montanti e traversi

Stick-built curtain wall systems



SIRIO 50 SG

Sistema per facciate continue montanti e traversi con vetro strutturale

Structural curtain wall with transom/mullion



SIRIO 50 N

Sistema per facciate continue a nastro

Ribbon windows system

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