

DESCRIZIONE TECNICA DEL SISTEMA "PE 50 GLASS" PER LA COSTRUZIONE DI FACCIATE CONTINUE

Profilati estrusi in lega di alluminio EN AW-6060 (UNI EN 573-3)

Stato di fornitura: T5

Tolleranza dimensionali e spessori: UNI EN 12020-2

Lunghezza commerciale barre profilati in alluminio: mm. 6500

La finitura superficiale dei profili deve essere eseguita osservando i criteri previsti dalle direttive per l'ottenimento del Marchio Qualanod, per l'anodizzazione e Qualicoat, per la verniciatura; per i profili a taglio termico non dovrà essere superata la temperatura max. di 190° per oltre 15 minuti, al fine di non pregiudicare le caratteristiche meccaniche e dimensionali della barretta in poliammide.

Caratteristiche principali del Sistema:

La struttura della facciata "PE 50 Glass" è costituita da un reticolo a montanti e traversi: questi ultimi, disponibili nelle dimensioni da mm. 61, 100, 130, vengono fissati mediante specifici cavallotti ai montanti, collegandoli tra loro in senso orizzontale e collaborando con essi al contenimento degli elementi di tamponamento; inoltre hanno la funzione di raccogliere e scaricare l'eventuale acqua di infiltrazione attraverso opportune asole di drenaggio.

Aperture ad anta e/o anta ribalta realizzabili con profili a taglio termico delle seguenti sezioni:

abbinamento al Sistema "Eku 64 T.T.": mm. 64

abbinamento al Sistema "Eku 72 T.T.": mm. 72

aperture a sporgere con profili normali e/o a taglio termico di sezione anta: mm. 84

ingombro complessivo dei montanti che formano la struttura portante: mm. 151÷181

Giunti di dilatazione:

sono previsti negli accoppiamenti tra montanti e traversi tramite fondelli in materiale elastico e nella zona di ancoraggio staffe tra montante e montante con cannotto in alluminio; per calcolare la distanza necessaria che consente il movimento tra i montanti, si ricorda che la dilatazione di un profilo in alluminio equivale ad 1 mm. al metro in corrispondenza di una escursione termica di 40 °C ($\Delta L \text{ mm} = L \times \Delta T^\circ\text{C} \times 0.000024$).

Giunti di tenuta:

devono essere effettuate sigillature tra montanti e traversi, nelle giunzioni tra montanti, nelle unioni delle guarnizioni sul pressore, sulle copertine esterne ed in tutte le soluzioni terminali di facciata; le giunzioni delle guarnizioni, che sono tutte in EPDM, devono essere fatte in maniera accurata utilizzando idonei sigillanti elastici.

Vetratura:

per la scelta del tipo di vetro, oltre alla funzione richiesta, si dovranno considerare le guarnizioni, i tasselli di spessoramento, le sigillature, i fori di ventilazione, attenendosi scrupolosamente a quanto previsto dal produttore; si raccomanda in ogni caso di fare riferimento a quanto indicato nel documento "UX9 - GUIDA ALLA CORRETTA SCELTA E MESSA IN OPERA DEGLI ELEMENTI VETRARI PER SERRAMENTI E FACCIATE CONTINUE" edito dalla UNCSAAL.

Montaggio:

i montanti vanno bloccati alle staffe fissate agli ancoraggi realizzati con sistema di ferri Halfen o similari annegati nel calcestruzzo e connessi, con opportune zanche, direttamente all'armatura del solaio; le staffe originali del Sistema "PE 50 GLASS" svolgono la funzione di:

- garantire, mediante una regolazione nelle tre direzioni ortogonali, l'allineamento della facciata, recuperando le tolleranze dell'opera muraria riscontrabili in fase di posa;
- resistere, assorbire e trasferire alla struttura edilizia portante tutte le sollecitazioni che la facciata subisce (carico del vento, dilatazioni termiche, urti, ecc.) e reggere il peso dei componenti della stessa;
- resistere alla corrosione.

L'inserimento negli appositi alloggi di vetri, pannelli e finestre avviene dall'esterno, con successivo bloccaggio tramite il profilo pressore avvitato al montante per mezzo di viti autofilettanti in acciaio inox e rondella in nylon interposta tra le due superfici, al fine di evitare l'innesco di un processo galvanico che provocherebbe il deterioramento delle parti a contatto.

Limiti di impiego del montante:

vedere diagramma statico ed indicazioni per il calcolo della pressione del vento che si riferiscono alla raccomandazione CNR 10012/85 ed al D.M del 16 gennaio 1996 (valido per il territorio italiano), riportati nelle pagine successive del presente catalogo.

Calcolo teorico dell'isolamento termico medio della facciata "PE 50 GLASS"

vedere schemi ed esempi di calcolo riportati nelle pagine successive del presente catalogo.

Note generali:

il peso dei profilati è quello teorico e potrà variare in funzione delle tolleranze dimensionali e di spessore previste dalla norma Uni 3879; le dimensioni di taglio indicate nelle apposite distinte inserite nel presente catalogo sono esatte; nella pratica potranno essere influenzate dalle tolleranze dimensionali di estrusione e dal tipo di finitura applicata sui profili in alluminio, pertanto dovranno essere arrotondate secondo la precisione ed il tipo di impostazione delle misure nelle macchine impiegate. Gli schemi, le sezioni e gli attacchi a muro riportati sul catalogo non hanno valore limitativo, ma solo di esemplificazione di alcune delle situazioni che più comunemente si trovano nella realtà e di soluzione consigliabile.

DESCRIZIONE TECNICA DEL SISTEMA "PE 50 GLASS" PER LA COSTRUZIONE DI FACCIATE CONTINUE

Richieste e normative di carattere generale per la realizzazione di facciate continue:

⇒ **Indicazioni che l'utilizzatore deve fornire al committente:**

1. tipo di costruzione e suo utilizzo;
2. altezza totale dell'edificio;
3. zona di ubicazione della facciata;
4. resistenza al carico del vento;
5. disegno in sezione del fabbricato con indicati gli interassi delle solette, gli spessori delle stesse e se già predisposto di ferri per l'ancoraggio della facciata;
6. interassi dei montanti;
7. disegno architettonico e sviluppo in mq. della superficie da rivestire;
8. tipo di vetri previsti;
9. peso al mq. degli elementi fissi e apribili;
10. tipo e materiali di copertura davanale;
11. lamiere tagliafuoco (raccordo solai);
12. copertura inferiore e superiore della facciata;
13. angoli interni ed esterni;
14. tipo di finitura dei prodotti.

⇒ **Richieste e prescrizioni per le finestre con vetro tenuto da silicone:**

- a. n° 3 spezzoni di profilo a superficie finita da sottoporre alla ditta fornitrice di sigillante (da richiedere al servizio tecnico-commerciale);
- b. n° 3 campioni del vetro da utilizzare, da sottoporre alla ditta fornitrice di sigillante (se vetro float non occorre certificazione, richiedere al fornitore);
- c. utilizzo esclusivo della guarnizione siliconica art. 526-7013;
- d. pianta piano tipo;
- e. particolare costruttivo e dimensioni della sigillatura;
- f. veduta d'insieme (prospetti);
- g. dimensioni, composizione e tipo delle lastre di vetro;
- h. temperatura minima e massima in funzione dell'esposizione del fabbricato.

⇒ **Offerta preventiva:**

- disegno di presentazione prodotto;
- computo preventivo;
- descrizione tecnica.

⇒ **Ordine:**

- relazione tecnica e calcoli statici;
- rilievi in cantiere;
- tavole definitive: pianta, prospetti e sezioni (da far controfirmare al committente);
- tavole costruttive: particolari di copertura e di ancoraggio (da far firmare al committente);
- tavole di lavorazione;
- distinte materiale: profili, accessori, vetri, pannelli;
- montaggi in cantiere.

Per maggiori dettagli consultare i documenti editi dalla UNCSAAL (UX6 e UX9) ed il Capitolato tecnico per facciate continue metalliche del Collegio degli Ingegneri di Milano.

Profilati S.p.A. e Trafilerie Emiliane Sud S.p.A., invitando a rispettare la tecnologia costruttiva ed a usare la componentistica indicata, si ritengono sollevate da ogni responsabilità per difetti dovuti all'inosservanza di quanto prescritto ed illustrato nel presente catalogo.

Il Sistema di profilati riportato in questo catalogo è brevettato; quanto vi è illustrato è di esclusiva proprietà di Profilati S.p.A. e a termine di legge ne è vietata la riproduzione, anche parziale, se non esplicitamente autorizzata; tutti i dati riportati sono indicativi e non vincolano Profilati S.p.A. e Trafilerie Emiliane Sud S.p.A. che si riservano di apportare in qualsiasi momento quelle modifiche che riterranno opportune al fine di migliorare i prodotti.

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TECHNICAL DESCRIPTION OF THE SYSTEM TO MAKE CURTAIN WALLING

EN AW-6060 (UNI EN 573-3) aluminium alloy extruded sections

Supply type : T5

Dimensional tolerances and thicknesses : UNI EN 12020-2

Aluminium bar commercial length : 6500mm

The surface finishing of the profiles has to be carried out respecting the norms to obtain the Qualanod Mark for anodising and the Qualicoat for painting. For the thermal break profiles a max. temperature of 190°C should not be exceeded for more than 15 minutes to not compromise the mechanical and dimensional characteristics of the polyamide bar.

Main characteristics of the System :

The structure of the walling "PE50GLASS" is a stick-form grid system made of mullions and transoms, dimensions 61,100 or 130mm. The transoms are sleeved on and secured by specific connecting bolts to the mullions, forming a horizontal joint that aids the containment of the sealing elements. They also have the function to collect and discharge possible infiltrations of water through appropriately designed water drainage outlets.

Single leaf and/or tilt-turn openings realizable with thermal break profiles in the following sections :

joining to the System "Eku 64 T.T." : 64mm

joining to the System "Eku 72 T.T." : 72mm

Awning windows with normal profiles and/or thermal break profiles of leaf section : 84mm

Overall finished dimension of mullions forming the supporting structure : 151-181mm

Expansion joints :

they are positioned, using a suitable elastic material, in the coupling between the mullions and transoms and in the wall-anchorage bracketing where the mullions are sleeve jointed together with aluminium tubes. To calculate the distance necessary to allow movement between the mullions, it has to be kept in mind that the expansion of an aluminium profile is equivalent to 1mm per metre where the temperature range is 40°C ($\Delta L_{mm} = L \times \Delta^\circ C \times 0.000024$).

Sealing joints :

sealing has to be carried out between the mullions and transoms, in the joints between mullions, in the bonding of gaskets to the presser, on the outer covering and in all the end parts of the walling. The gasket joints, which are in EPDM, should be carried out carefully using appropriate elastic sealants.

Glass installation :

to choose the type of glass, besides its required function, the indications of the manufacturer should be strictly followed when considering the gaskets, the beading, supporting plugs, the ventilation outlets and sealing. Please refer to the document "UX 9 - GUIDE TO THE CORRECT CHOICE AND INSTALLATION OF GLASS ELEMENTS FOR FRAMES AND CURTAIN WALLING" issued by UNCISAAL (Italian Architectural Aluminium and Steel Manufacturers Association).

Assembly :

the mullions should be fixed to the fastening brackets, system Halfen or an equivalent system sunk in concrete, and fixed directly to the floor structure with appropriate clamps. The original brackets of the "PE50 GLASS" system have the function of :

- guaranteeing the alignment of the walling, with an adjustment in the three orthogonal directions, recovering the tolerances of the masonry found during construction;
- resisting, absorbing and transferring to the supporting structure all the stresses that the wall suffers (wind load, thermal variations, impacts, etc.) as well as supporting the weight of its components;
- resisting to corrosion;

The insertion of glass, panels and windows is carried out from the outside, they are then blocked by the presser bead profile which is screwed to the mullion with stainless steel self-tapping screws, nylon washers are placed between the two surfaces to avoid the setting in of a galvanic process which would cause the deterioration of the parts in contact.

Limits of use of the mullions :

see static diagram and indications to calculate wind pressure that refer to the CNR 100012/85 recommendation and Ministerial Decree of 16/1/96 (valid for the Italian territory), shown in the following pages of this catalogue.

Theoretical calculation of average thermal insulation of the walling "PE 50 GLASS" :

see schemes and examples of calculation in the following pages of this catalogue.

General notes :

the weight of the sections is theoretical and may vary according to the dimensional and thickness tolerances specified in the UNI 3879 norms. The cutting dimensions indicated in the relevant parts of this catalogue are precise. In practice, they can be affected by dimensional extrusion tolerances and the type of finish applied to the aluminium profiles, they therefore should be rounded according to the accuracy and type of measures set in the machinery being used. Diagrams, sections and wall connections shown in the catalogue are an indication and should not be considered as a limitation, they simply illustrate some of the most commonly found real-life situations and the recommended solutions.

TECHNICAL DESCRIPTION OF THE SYSTEM TO MAKE CURTAIN WALLING

General requirements and norms to make curtain walling :

⇒ **Indications the user should supply to the customer :**

1. type of building and its use;
2. total height of the building;
3. position of the walling;
4. resistance to the wind load;
5. sectional drawing of the building with the slab centre distances and thicknesses and if it is already equipped with rods for the mounting of the walling;
6. slab centre distances;
7. architectural drawing and development in sq.m. of the surface to be walled;
8. type of glass required;
9. weight per sq.m. of fixed and openable elements;
10. type and materials covering the window-sill;
11. fire-stop plates (floor connection);
12. lower and upper covering of the walling;
13. internal and external angles;
14. type of product finishing

⇒ **Requirements and norms for windows with glass panes fastened by silicone:**

- a. 3 segments of profile with finished surfaces to forward to the company supplying the sealant (request it from the technical-commercial dept.);
- b. 3 samples of the glass to be used, to forward to the company supplying the sealant (if it is float glass the certification is not necessary, request to the supplier);
- c. Exclusive use of the silicone gasket item 526-7013;
- d. Standard floor plan;
- e. Construction detail and sealing dimensions;
- f. Global view (drawings);
- g. Dimensions, composition and type of glass panes;
- h. Minimum and maximum temperature according to the exposure of the building.

⇒ **Preliminary offer :**

- introductory drawing of the product;
- estimate;
- technical description.

⇒ **Order :**

- technical report and statistical calculations;
- surveys on building sites;
- definitive drawings : plan views and sections (to be countersigned by customer);
- construction drawings: covering and fastening parts (to be signed by customer);
- tooling drawings;
- material lists: profiles, accessories, glass, panels;
- assembly on building site.

For further details see the documents issued by UNCSAAL (UX and UX9) and the Technical specifications for metal curtain walling of the College of Engineers in Milan.

Profilati S.p.A. and Trafilerie Emiliane Sud S.p.A. recommend that the construction process be respected and that the components herein indicated are used, considering themselves not responsible for defects due to the non-observance of what is indicated and illustrated in this catalogue.

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CALCOLO TEORICO DELL'ISOLAMENTO TERMICO MEDIO DELLA FACCIATA PE 50 GLASS

Per l'esempio di seguito riportato è stato considerato un reticolo di facciata con modulo da 1200x1600 mm. (vedi prospetto a fianco).

I singoli componenti sono i seguenti:

A - Zona vetrata costituita da vetrocamera isolante 6/12/5, le cui caratteristiche sono le seguenti:

Coefficiente di trasmissione termica $K_v = 2,9 \text{ W/mq } ^\circ\text{C}$

Superficie totale $A_v = 15,36 \text{ mq}$

B - Zona vetrata costituita da vetrocamera isolante 6/12/5 con basso emissivo, le cui caratteristiche sono le seguenti:

Coefficiente di trasmissione termica $K_v = 1,9 \text{ W/mq } ^\circ\text{C}$

Superficie totale $A_v = 15,36 \text{ mq}$

- Zona cieca, a pannelli, costituita da cristallo temperato da 6 mm, camera ventilata da 14,5 mm, materassino in lana di roccia da 100 mm inserito tra due lamiere in alluminio prevenernicato da 1,2 mm di spessore.

Le caratteristiche del pannello sono le seguenti:

Coefficiente di trasmissione termica $K_p = 0,36 \text{ W/mq } ^\circ\text{C}$

Superficie totale $A_p = 15,36 \text{ mq}$

- Zona montanti e traversi in alluminio a taglio termico, le cui caratteristiche sono le seguenti:

Coefficiente di trasmissione lineico $K_{lin} = 0,17 \text{ W/m}^\circ\text{C}$

Sviluppo dei profili (ponti termici) $L = (4,8 \cdot 5) + (6,4 \cdot 5) = 56 \text{ m}$

La quantità di calore trasmessa dalla parete per una differenza di temperatura di 1°C è:

$$q = K_v \cdot A_v + K_p \cdot A_p + K_{lin} \cdot L = 1,9 \cdot 15,36 + 0,36 \cdot 15,36 + 0,17 \cdot 56 = 44,23 \text{ W/}^\circ\text{C}$$

THEORETICAL CALCULATION OF WALLING PE 50 GLASS AVERAGE THERMAL INSULATION

For the below-mentioned example a walling grid with module of 1200x1600 mm has been considered (see table).

These are the components:

A - Glass area made up of an insulating double glazing 6/12/5, whose characteristics are the following:

Coefficient of thermal transmission $K_v = 2.9 \text{ W/sq.m. } ^\circ\text{C}$

Total surface $A_v = 15.36 \text{ sq.m.}$

B - Glass area made up of an insulating double glazing 6/12/5 with low emittance, whose characteristics are the following:

Coefficient of thermal transmission $K_v = 1.9 \text{ W/sq.m. } ^\circ\text{C}$

Total surface $A_v = 15.36 \text{ sq.m.}$

- Panel blind area made up of a 6-mm hardened crystal, 14.5 mm ventilated chamber, 100 mm rock wool insulator placed between two prepainted aluminium plates of 1.2 mm of thickness.

These are the characteristics of the panel:

Coefficient of thermal transmission $K_p = 0.36 \text{ W/sq.m. } ^\circ\text{C}$

Total surface $A_p = 15.36 \text{ sq.m.}$

Aluminium post and transom area with thermal break, whose characteristics are the following:

Coefficient of linear transmission $K_{lin} = 0.17 \text{ W/m}^\circ\text{C}$

Profile development (thermal bridges) $L = (4.8 \cdot 5) + (6.4 \cdot 5) = 56 \text{ m}$

The quantity of heat transmitted by the wall for a variation of temperature of 1°C is:

$$q = K_v \cdot A_v + K_p \cdot A_p + K_{lin} \cdot L = 1.9 \cdot 15.36 + 0.36 \cdot 15.36 + 0.17 \cdot 56 = 44.23 \text{ W/}^\circ\text{C}$$

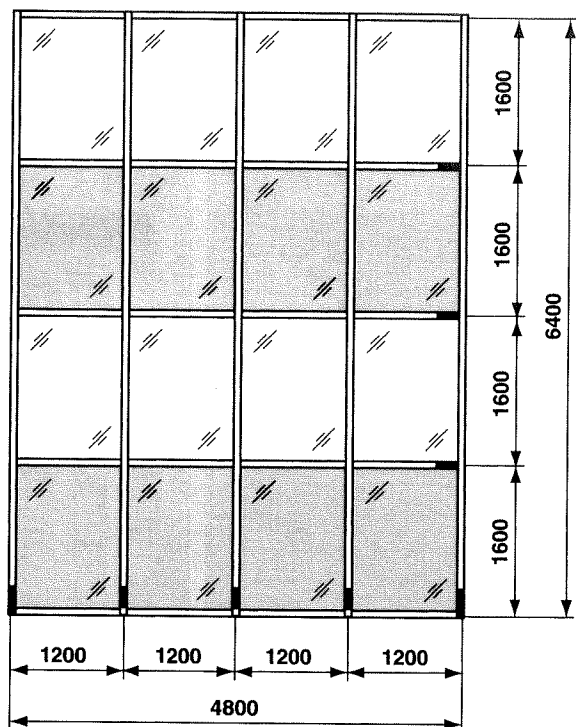
Calcolo per la determinazione del coefficiente di trasmittanza termica del pannello: K

Calculation for finding the coefficient of panel thermal transmittance : K

	$\lambda \text{ (W/m}^\circ\text{C)}$	$s \text{ (m)}$	$R = s/\lambda$
Vetro / Glass: 6 mm	0,928	0,006	0,006466
Lana di roccia / Rock wool: 100 mm	0,03944	0,100	2,5355
Lamiere alluminio / Aluminium plates - N. 2 da/of 1,2 mm	208,80	0,0024	0,0000115
Camera d'aria da / Air tube of 14,5 mm	0,0696	0,0145	0,20833
Rtot= 2,75 m² °C/W			
K = 1/R = 0,36 W/m² °C		= 0,31 Kcal/m² °Ch	

PE 50 GLASS

NOTE TECNICHE / TECHNICAL NOTES

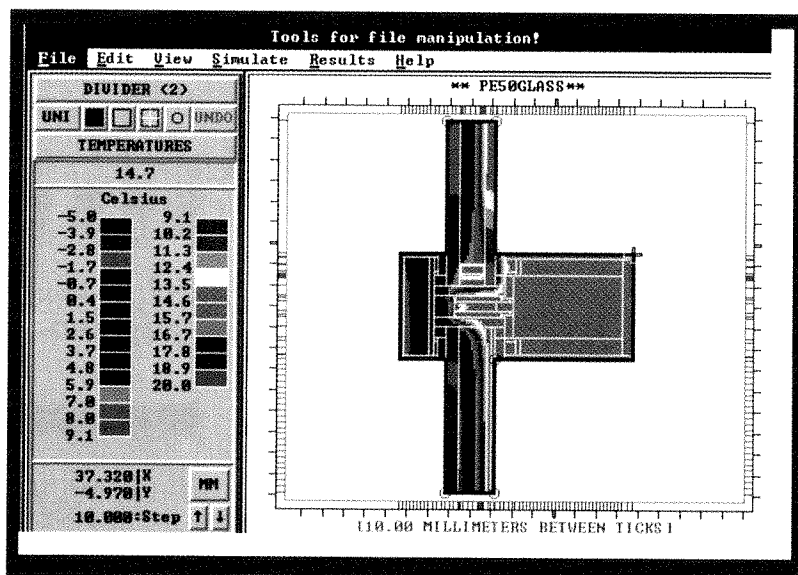


Il coefficiente medio della facciata risulta con vetratura tipo A:
With glass beading type A, the average coefficient of the wall is:

$$K_m = q / (A_v + A_p) = 59,59 / 30,72 = \mathbf{1,94 \text{ W/m}^2\text{°C}}$$

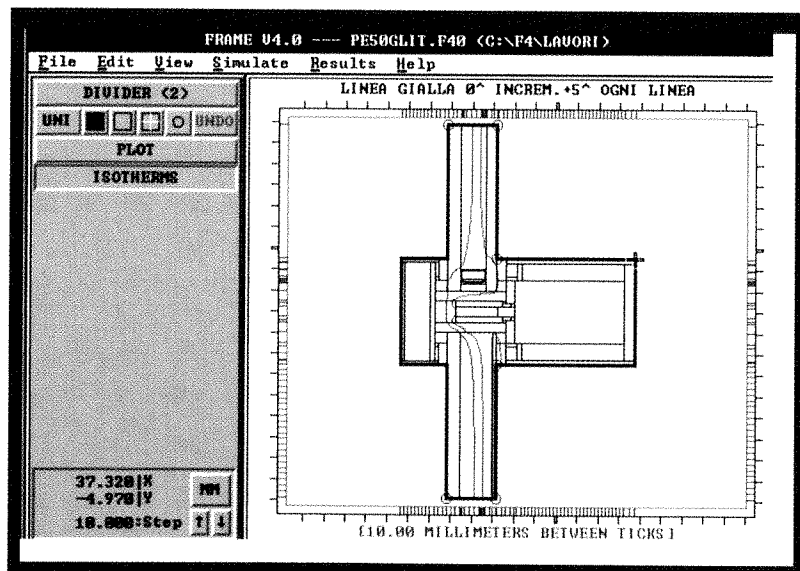
Il coefficiente medio della facciata risulta con vetratura tipo B:
With glass beading type B, the average coefficient of the wall is:

$$K_m = q / (A_v + A_p) = 44,23 / 30,72 = \mathbf{1,44 \text{ W/m}^2\text{°C}}$$



"PE 50 GLASS" TRAVERSO DA 61 MM
SIMULAZIONE GRAFICA TRASMITTANZA
TERMICA

61 MM TRANSOM "PE 50 GLASS"
THERMAL TRANSMITTANCE GRAPHIC
SIMULATION



SIMULAZIONE GRAFICA ISOTERME

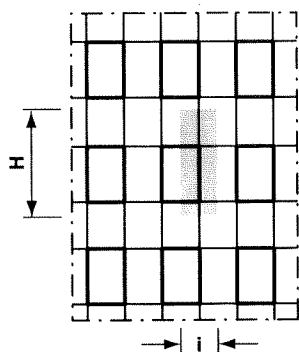
ISOTHERM GRAPHIC SIMULATION

DIAGRAMMA STATICO STATIC DIAGRAMM

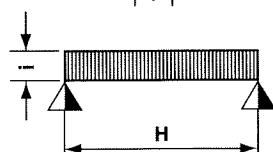
Limits of use of mullions

see static diagram and indications to calculate the wind pressure referred to in the CNR 100012/85 recommendation and Ministerial Decree of 16th January 1996 (valid for the Italian territory).

Prospetto Table



Schema statico Static scheme



Formula di calcolo Calculation formula

$$J_x = 0.013 \frac{Q \cdot H^4}{E \cdot f}$$

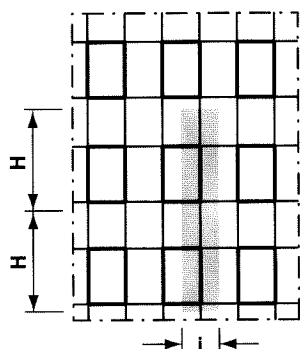
J_x = Momento d'inerzia / Moment of inertia (cm⁴)
 Q = Carico / Load (kg/cm)
 q = Carico al cmq / Load at sq.cm. (kg/cm²)
 i = Interasse / Centre distance (cm)

$$Q = q \cdot i$$

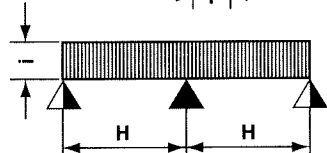
E = Modulo di elasticità / Standard of elasticity (kg/cm²)
 f = Freccia / Height (cm)

$$f \leq \frac{H}{300}$$

Prospetto Table

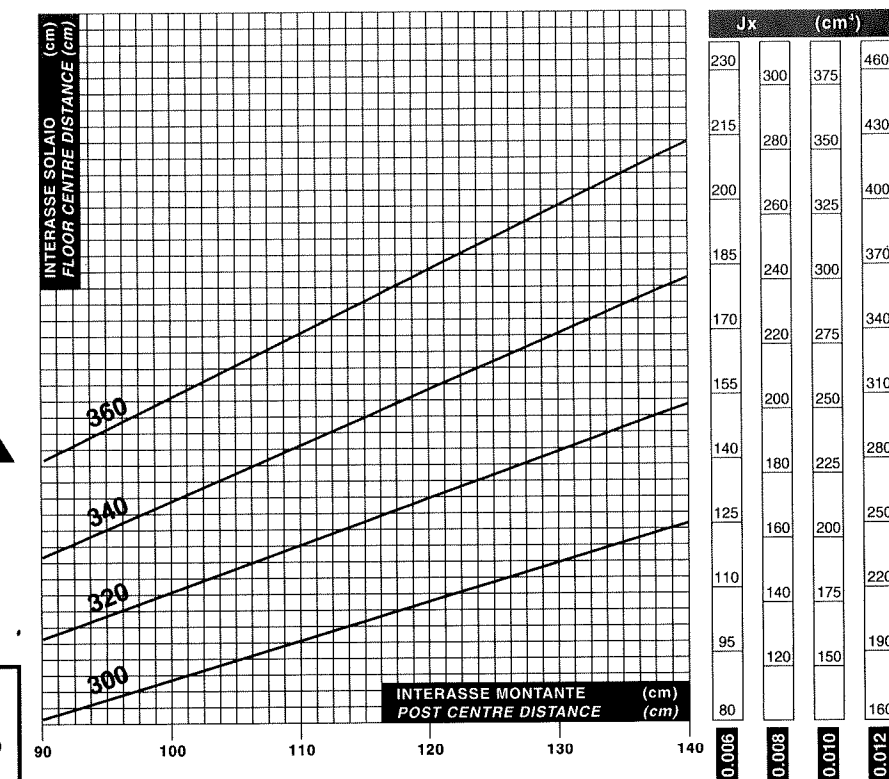


Schema statico Static scheme



Formula di calcolo Calculation formula

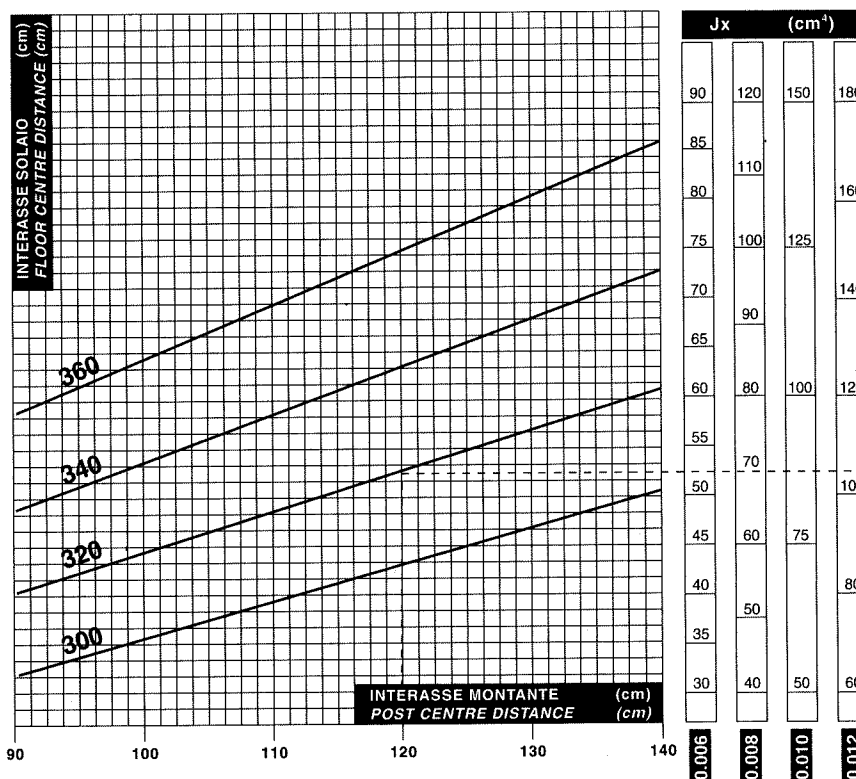
$$J_x = 0.00521 \frac{Q \cdot H^4}{E \cdot f}$$

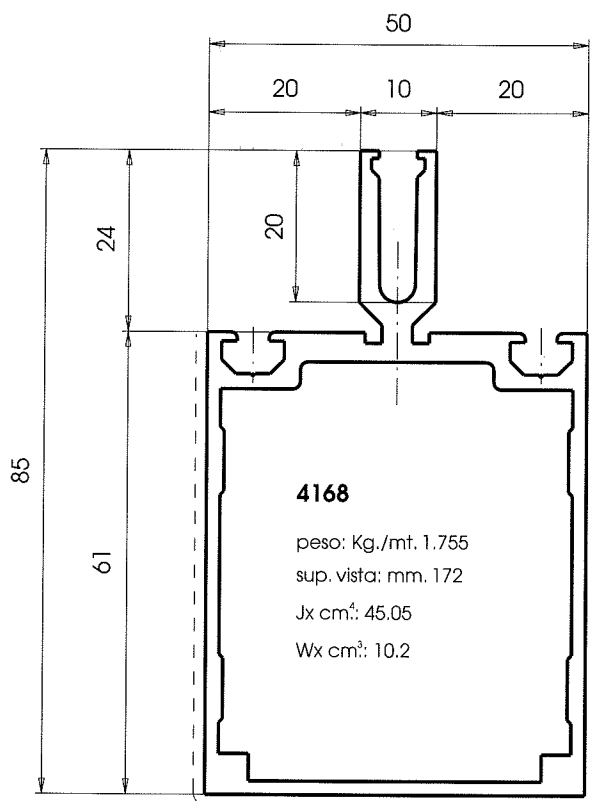
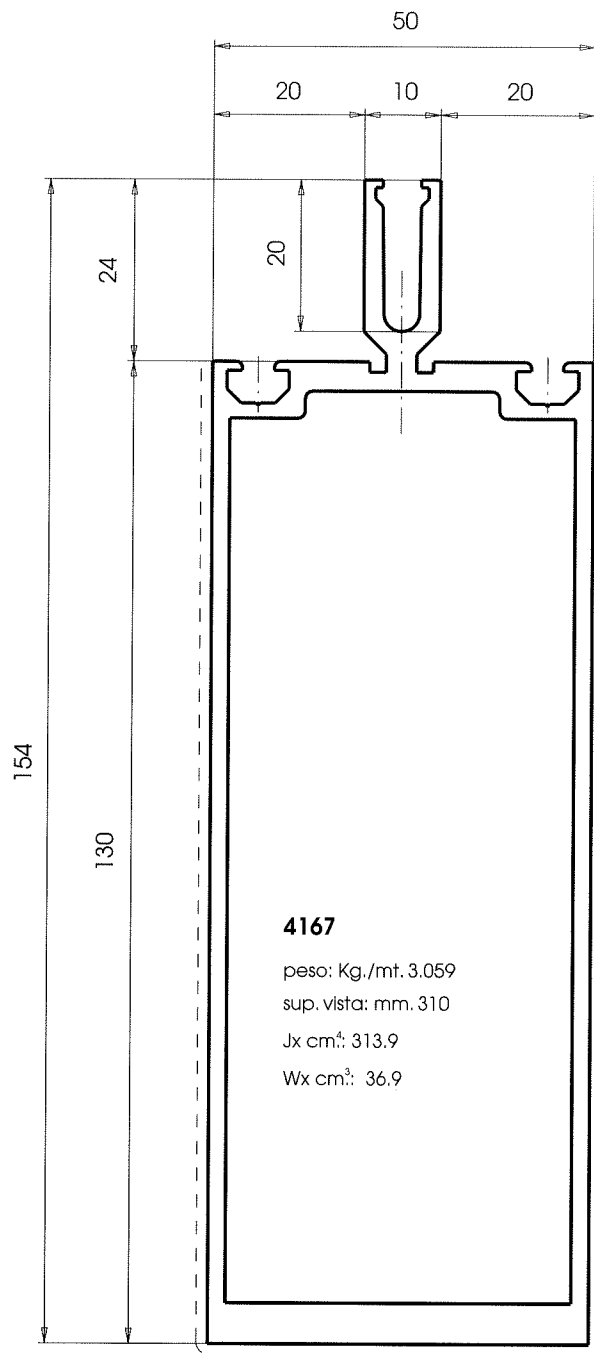
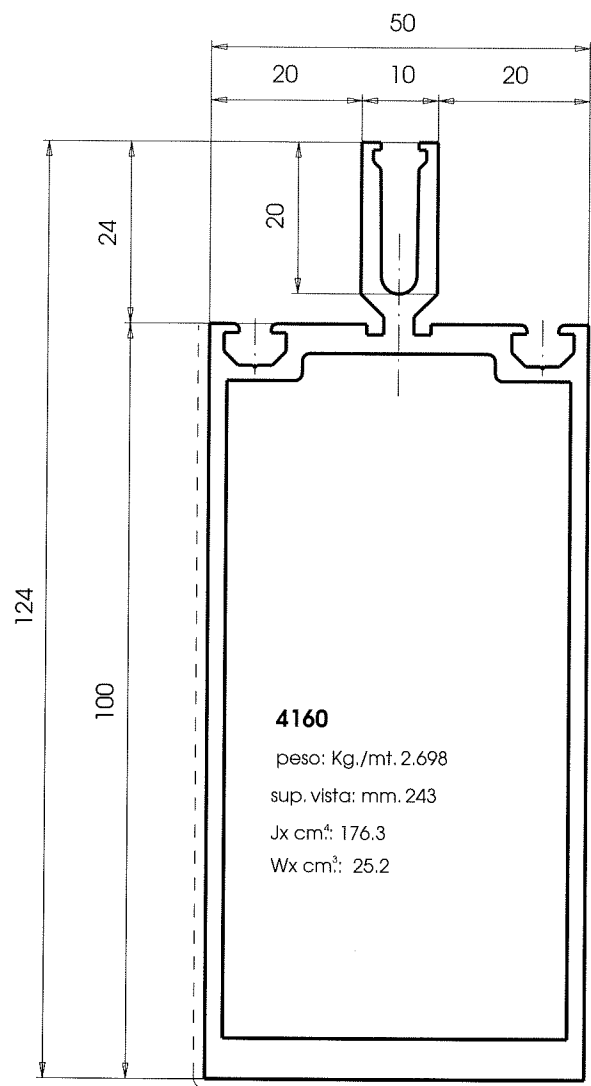


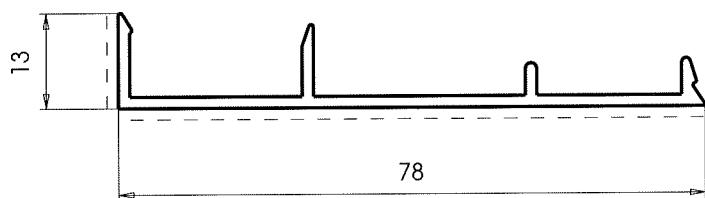
Note: Si ricorda che 1 Kg = 9,81 Newton
ed 1 Newton = 0,102 Kg

Note: Remember that 1 kg = 9,81 Newton
and 1 Newton = 0,102 Kg.

ESEMPI DI CARICHI DEL VENTO EXAMPLES OF WIND LOADS



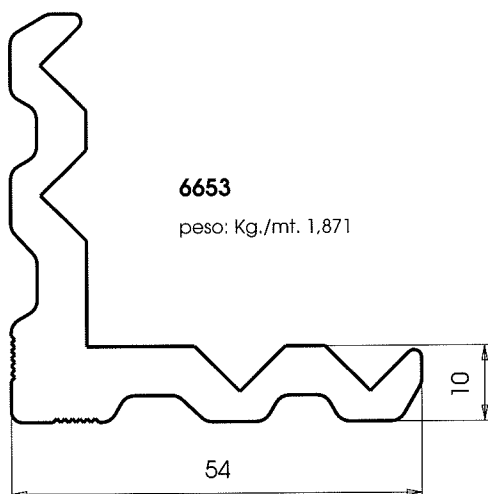




9107

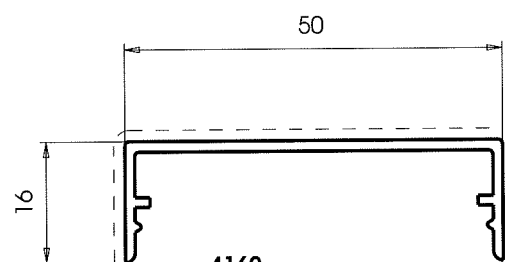
peso: Kg./mt. 0,428

sup. vista: mm. 90



6653

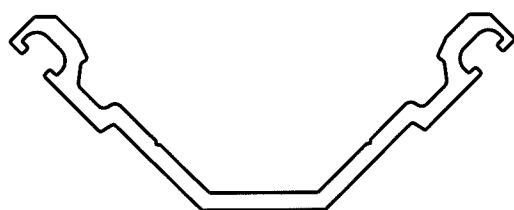
peso: Kg./mt. 1,871



4162

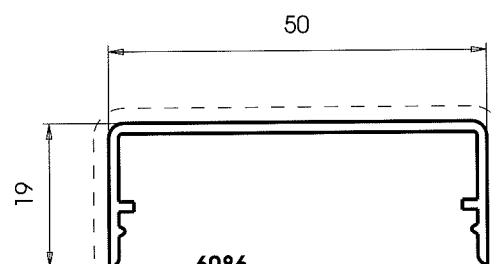
peso: Kg./mt. 0,307

sup. vista: mm. 76



4169

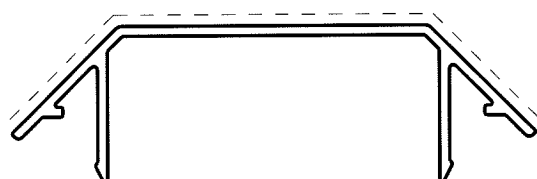
peso: Kg./mt. 0,613



6086

peso: Kg./mt. 0,324

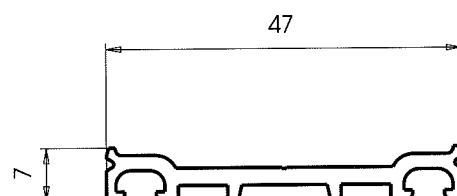
sup. vista: mm. 86



4170

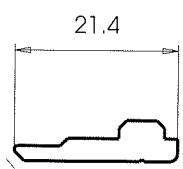
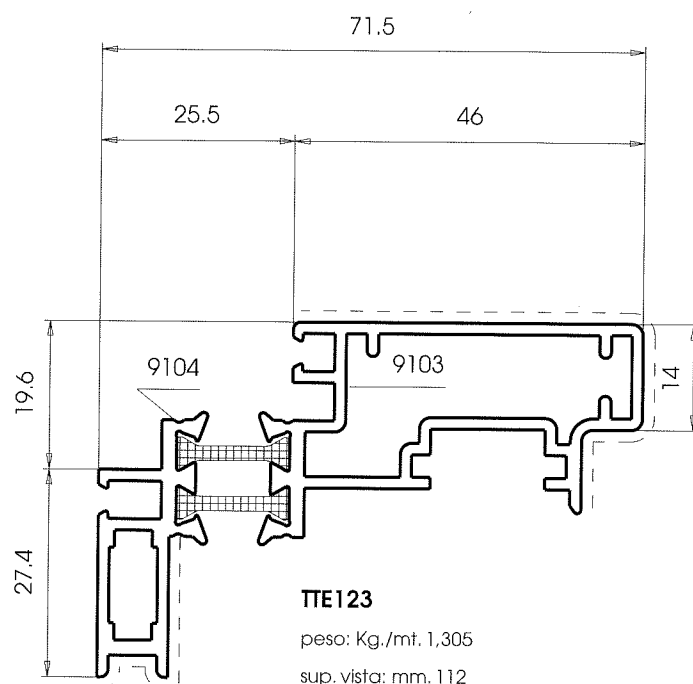
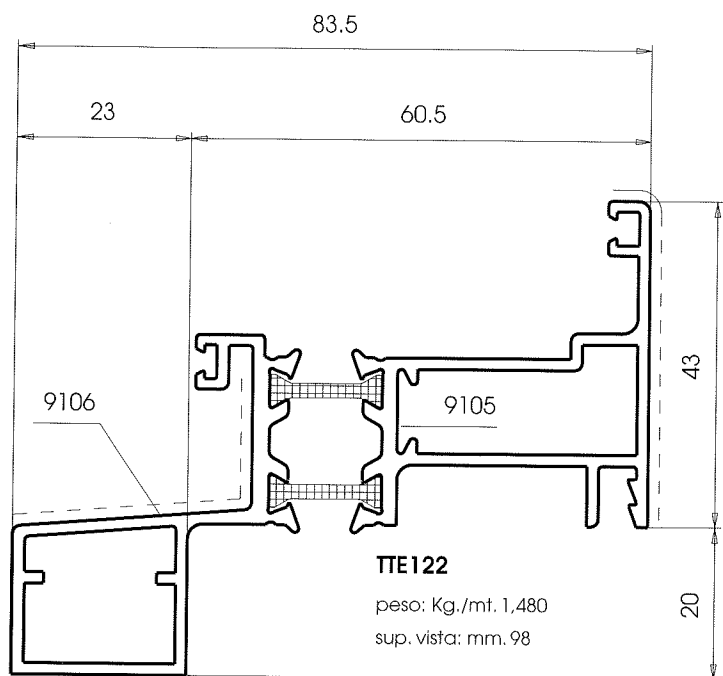
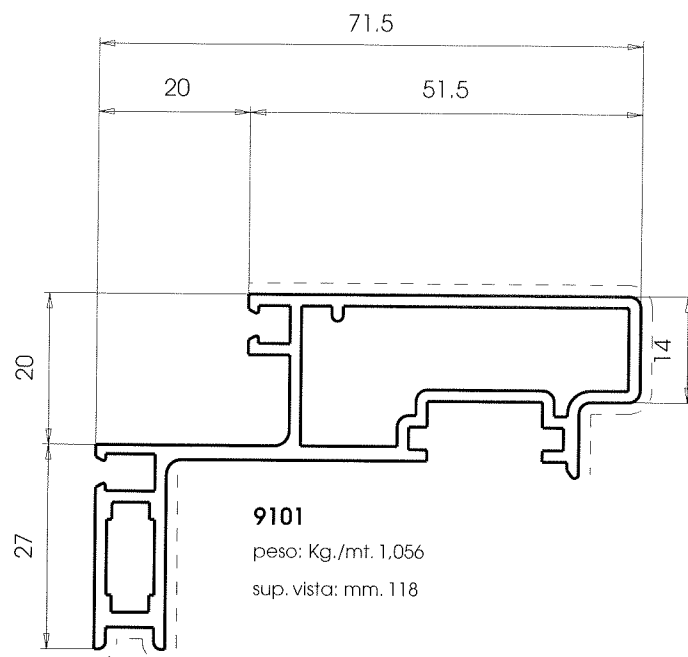
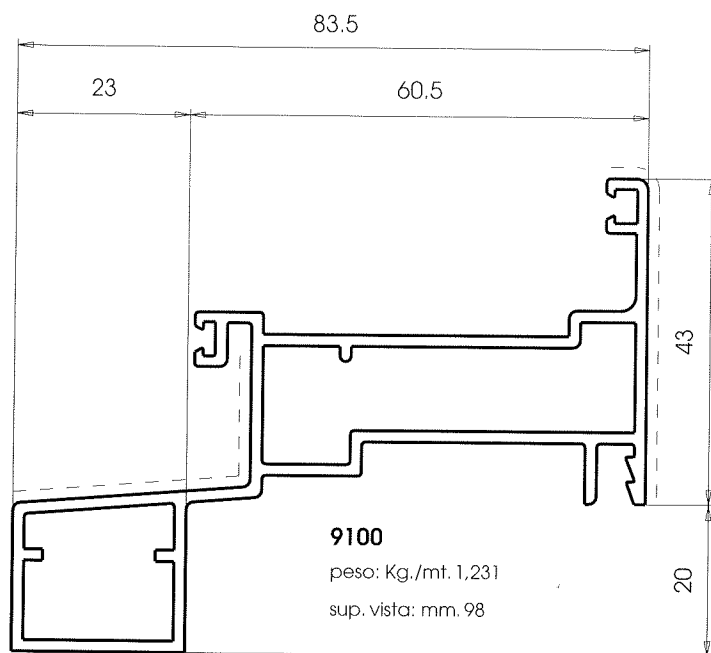
peso: Kg./mt. 0,410

sup. vista: mm. 81

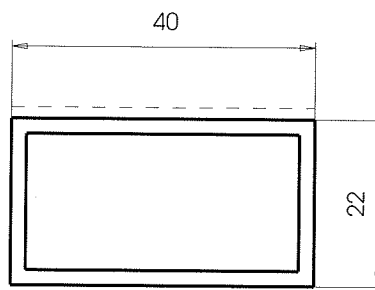


4161

peso: Kg./mt. 0,371



9102
peso: Kg./mt. 0,194
sup. vista: mm. 24



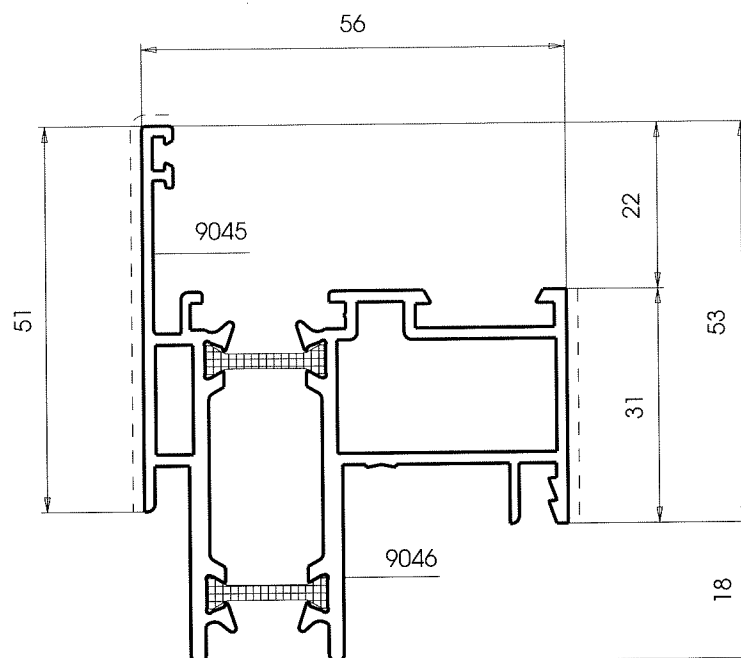
PE381
peso: Kg./mt. 0,627
sup. vista: mm. 80

TTE34

peso: Kg./mt. 1.488

sup. vista: mm. 86

EKU 64 TT

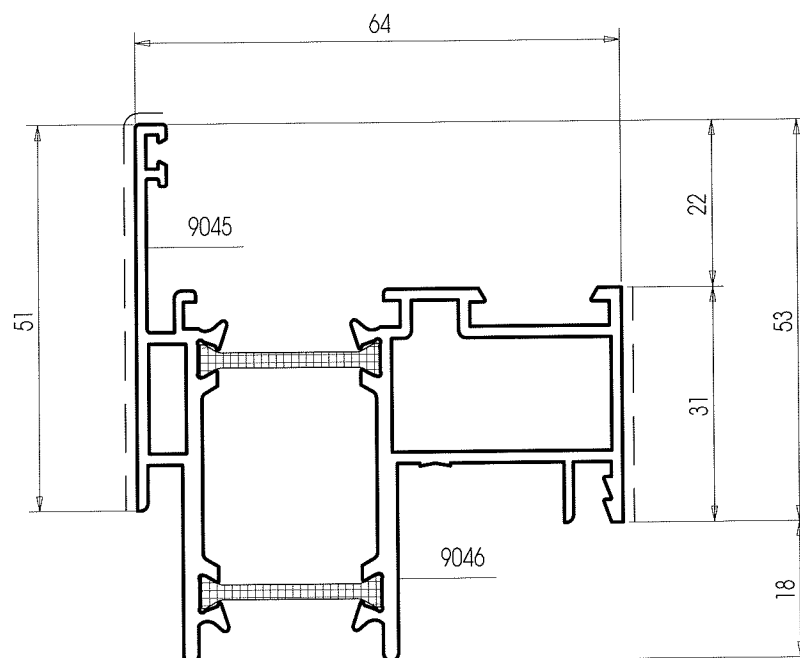


TTE84

peso: Kg./mt. 1.528

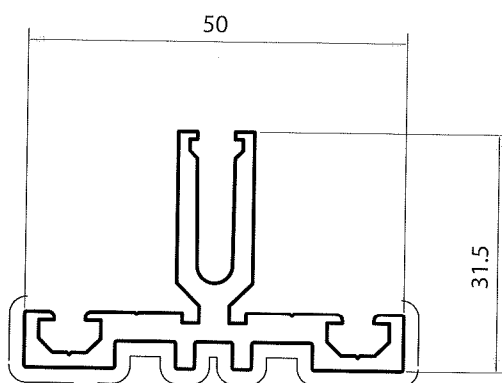
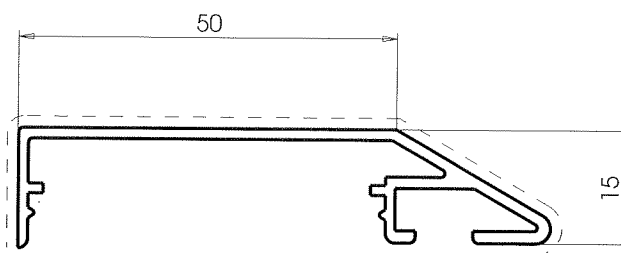
sup. vista: mm. 86

EKU 72 TT



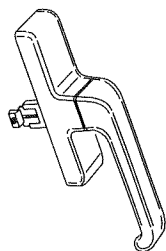
9108

peso: Kg./mt. 0,470
sup. vista: mm. 94

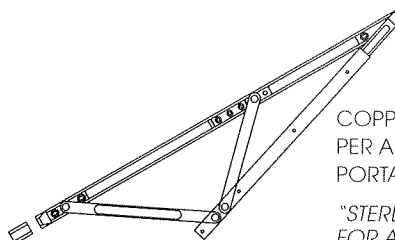


9109

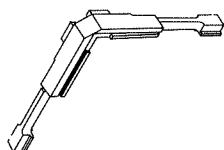
peso: Kg./mt. 0,932
sup. vista: mm. 87



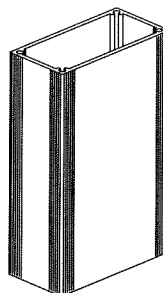
art. 100-1090
CREMONESE "EURO"
CHIUSURA (ANTA SPORGERE)
"EURO" CREMONE-BOLT
AWNING WINDOWS



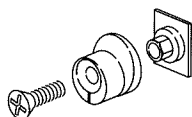
art. 534-ST26
COPPIA BRACCI "STERLING"
PER APERTURE A SPORGERE
PORTATA KG. 100
"STERLING" ARM COUPLE
FOR AWNING WINDOWS
WEIGHT 100 KG



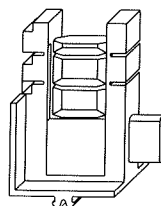
art. 100-4020
RINVIO D'ANGOLO PER
CHIUSURE PERIMETRALI
CON ART. 100-4030
ANGLE TRANSMISSION FOR
PERIMETRAL CLOSURES
WITH ITEM 100-4030



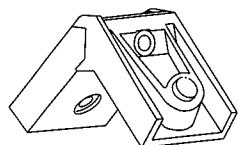
art. 535-061.0
CANNOTTO TELESCOPICO PER
UNIONE MONTANTI da mm. 100
TELESCOPIC TUBE FOR MULLION
UNION of 100 mm



art. 100-4030
NOTTOLINO DI CHIUSURA
REGISTRABILE
ADJUSTABLE CLOSING PIN



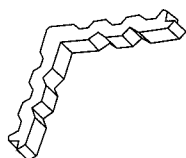
art. 535-070.4
TAPPO IN GOMMA DI TENUTA
ACCOPPIAMENTO MONTANTI-
TRAVERSI
SEAL RUBBER PLUG FOR
MULLION-TRANSOM UNION



art. 105-0445B
SQUADRETTA ALLUMINIO
PRESSOFUSO PER PROFILI
9100-9101
DIE-CAST ALUMINIUM CORNER
JOINT FOR PROFILES 9100-9101



art. 535-080.1
RONDELLA UNI 6592 X TE
In Nylon 6
WASHER UNI 6592 X TE
In Nylon 6



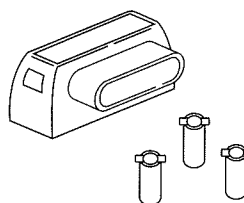
art. 153-3573
SQUADRETTA DI ALLINEAMENTO
TUBOLARITÀ ESTERNA ANTE
PER PROFILI TTE 123 - 9101
ALIGNING CORNER JOINT
FOR OUTER LEAF FOR TTE
123-9101 PROFILES



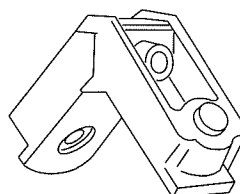
art. 535-080.0
VITE AUTOF. TC croce
INOX A2 6,3x32
PER FISSAGGIO PRESSORE
STAINLESS STEEL TC cross
SELF-TAPPING SCREW A2 6,3x32
FOR PRESSER FASTENING



art. 510-2226
INCONTRO CHIUSURA
PER APERTURE A SPORGERE
CLOSING REST PLATE FOR
AWNING WINDOWS



art. 600-3149
CAPPETTA COPRIFORO
DI DRENAGGIO (ANTA
SPORGERE)
COVER CAP FOR WATER
DRAINAGE HOLE
(AWNING WINDOWS)



art. 605-0495
SQUADRETTA IN ALLUMINIO
PRESSOFUSO PER PROFILI
TTE 122 - TTE 123
DIE-CAST ALUMINIUM
CORNER JOINT FOR
TTE122 - TTE 123 PROFILES

**NOTE: PER GLI ACCESSORI DELLE APERTURE A BATTENTE
(EKU 64 - EKU 72TT) VEDERE IL RELATIVO CATALOGO
NOTE: SEE THE PERTAINING CATALOGUE FOR ALL THE
ACCESSORIES OF ONE LEAF OPENING (EKU 64 - EKU 72TT)**

ART. 535-052.0

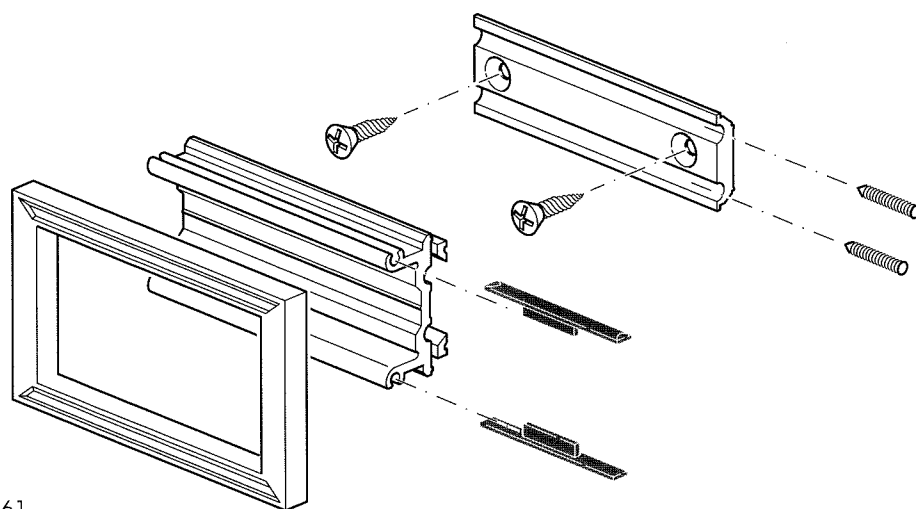
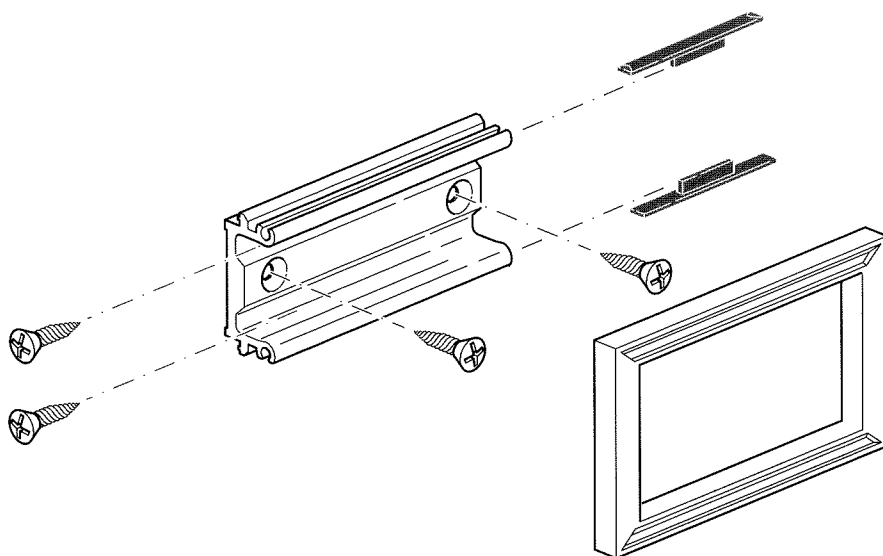
CAVALLOTTO FISSO da mm. 61
FIXED BOLT FOR "T-JOINT" 61 mm

ART. 535-054.0

CAVALLOTTO FISSO da mm. 100
FIXED BOLT FOR "T-JOINT" 100 mm

ART. 535-056.0

CAVALLOTTO FISSO da mm. 130
FIXED BOLT FOR "T-JOINT" 130 mm



ART. 535-053.0

CAVALLOTTO MOBILE da mm. 61
MOBILE BOLT FOR "T-JOINT" 61 mm

ART. 535-055.0

CAVALLOTTO MOBILE da mm. 100
MOBILE BOLT FOR "T-JOINT" 100 mm

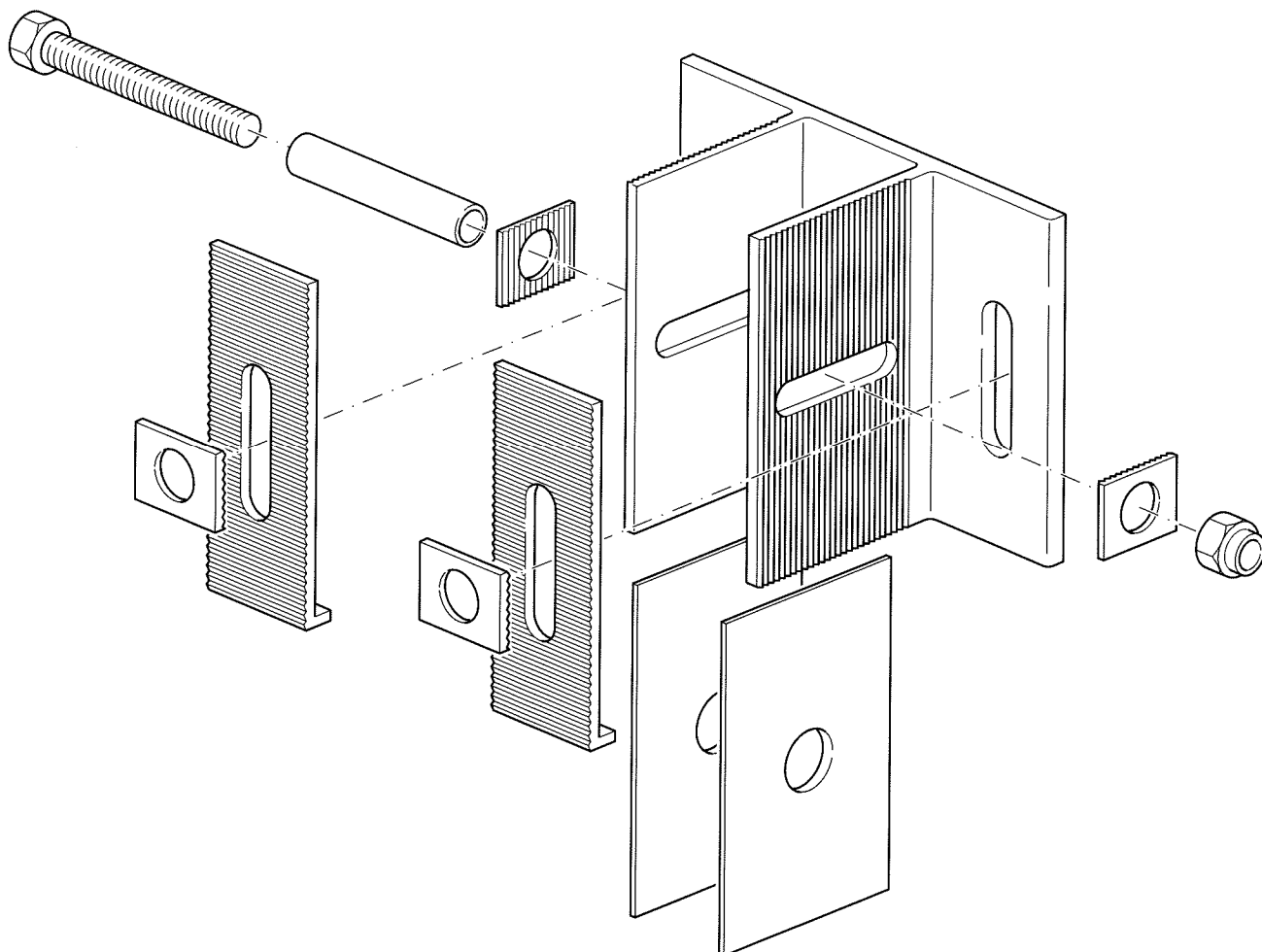
ART. 535-057.0

CAVALLOTTO MOBILE da mm. 130
MOBILE BOLT FOR "T-JOINT" 130 mm

ART. 535-065.0

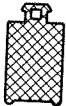
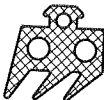
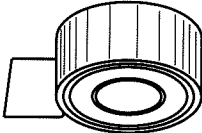
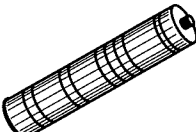
STAFFA DI FISSAGGIO
ALLA MURATURA

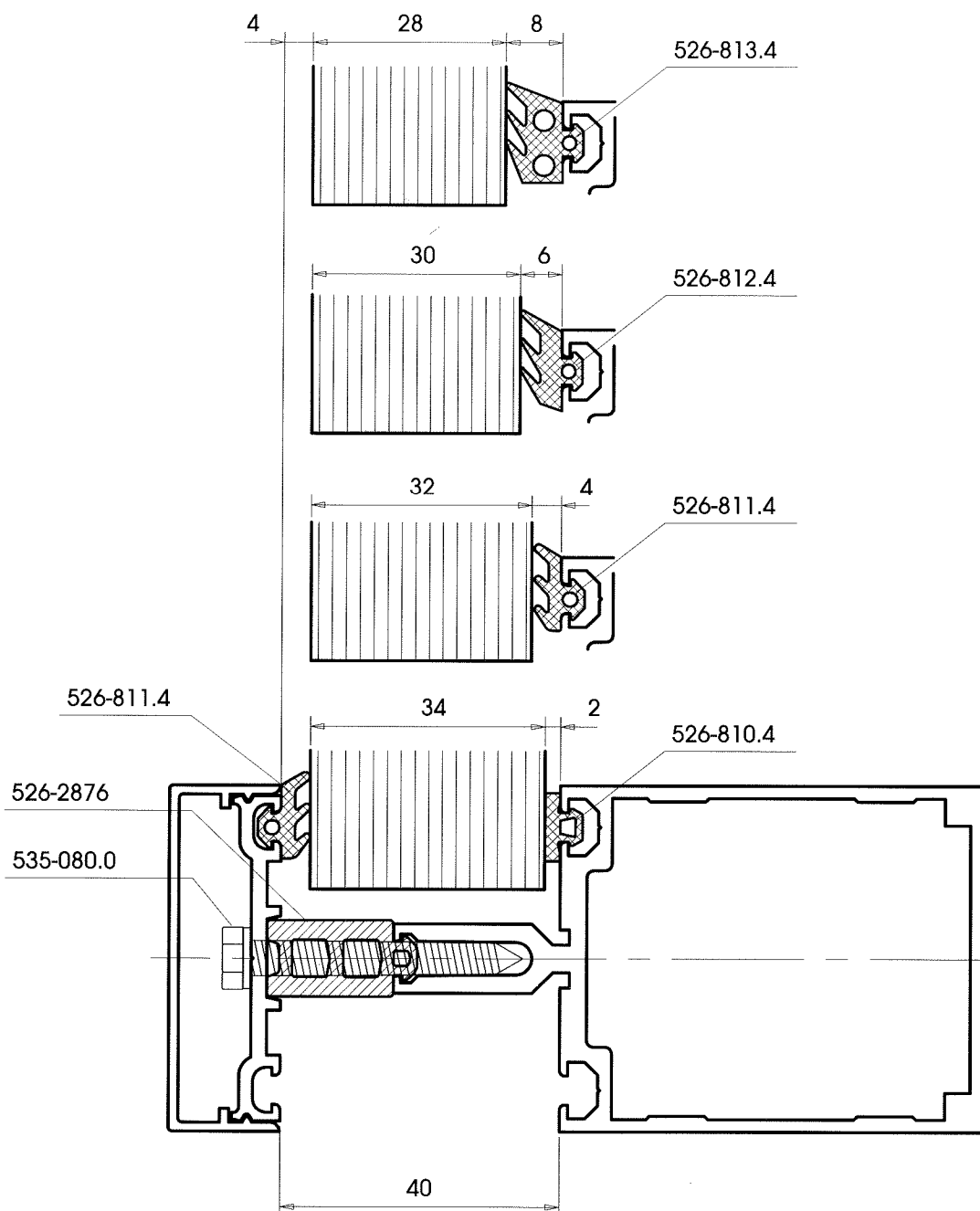
WALL CONNECTION
BRACKET



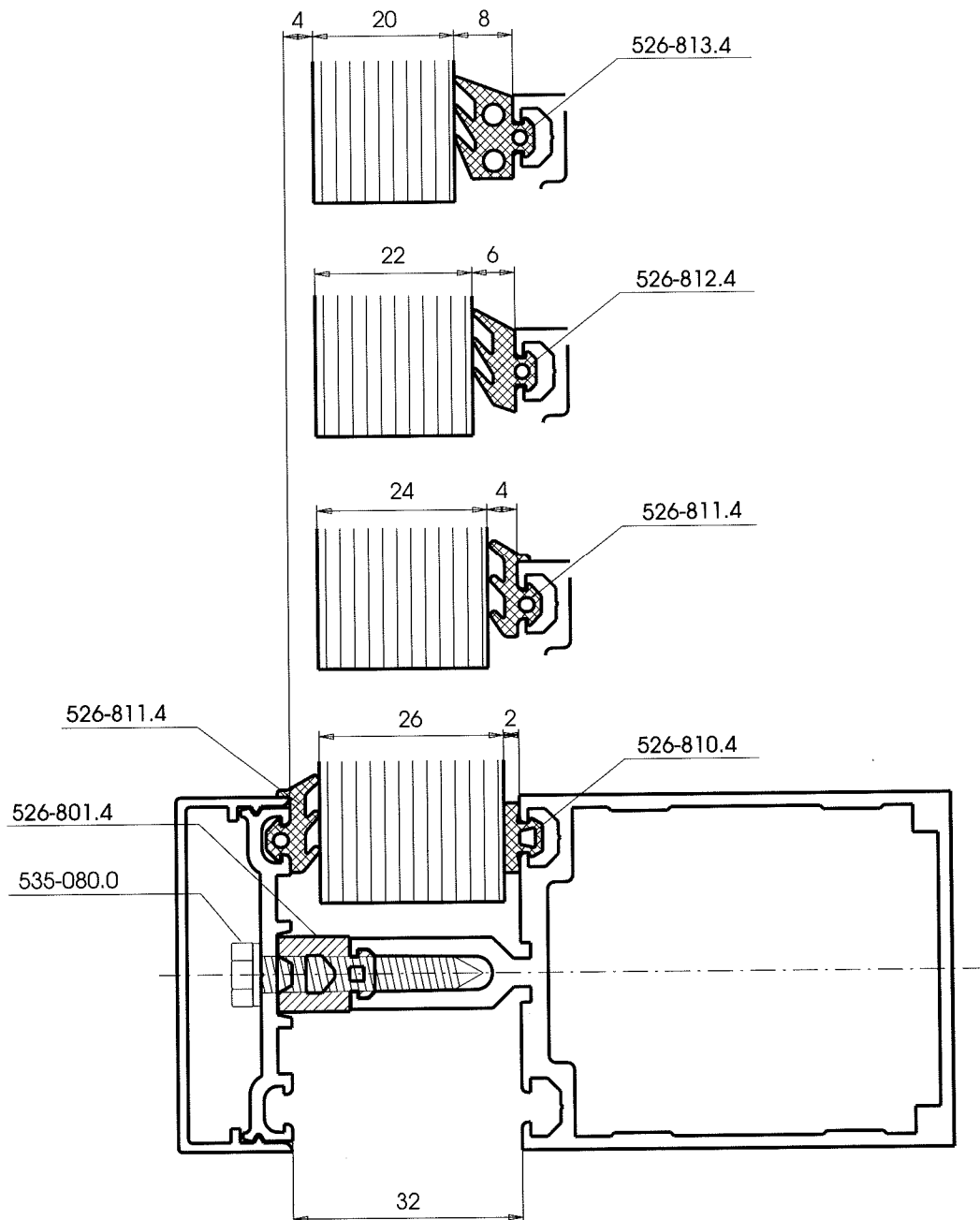
PE 50 GLASS

ELENCO GUARNIZIONI / GASKET LIST

 ART. 526-2485 GUARNIZIONE IN E.P.D.M. PER APPOGGIO VETRI IN ANTE CON APERTURA A SPORGERE <i>E.P.D.M. GASKET FOR PLACING GLASSES IN LEAVES FOR AWNING WINDOWS</i>	 ART. 526-813.4 GUARNIZIONE DI VETRAZIONE INTERNA ESTERNA da mm. 8 MATERIALE E.P.D.M. <i>INNER - OUTER GLASS BEADING GASKET of 8 mm MATERIAL: E.P.D.M.</i>
 ART. 526-7013 GUARNIZIONE IN GOMMA SILICONICA PER APPOGGIO VETRI IN ANTE CON APERTURA A SPORGERE NOTA BENE: utilizzare solo sigillanti compatibili con questo tipo di miscela <i>SILICONE RUBBER GASKET FOR PLACING GLASSES IN LEAVES FOR AWNING WINDOWS NOTE: use only sealants compatible with this type of mixture</i>	 ART. 126-2666 GUARNIZIONE DI BATTUTA PER APERTURA MATERIALE E.P.D.M. <i>RABBIT GASKET FOR OPENING MATERIAL: E.P.D.M.</i>
 ART. 526-801.4 GUARNIZIONE DISTANZIALE da mm. 10 MATERIALE E.P.D.M. <i>SPACING GASKET 10 mm. MATERIAL: E.P.D.M.</i>	 ART. 126-2284 GUARNIZIONE DI APPOGGIO PER APERTURA MATERIALE E.P.D.M. <i>SUPPORTING GASKET FOR OPENING MATERIAL: E.P.D.M.</i>
 ART. 526-810.4 GUARNIZIONE DI VETRAZIONE INTERNA ESTERNA da mm. 2 MATERIALE E.P.D.M. <i>INNER - OUTER GLASS BEADING GASKET of 2 mm MATERIAL: E.P.D.M.</i>	 ART. 526-2876 GUARNIZIONE DISTANZIALE da mm. 18 MATERIALE: E.P.D.M. <i>SPACING GASKET 18 mm. MATERIAL: E.P.D.M.</i> NASTRO AUTOADESIVO A FREDDO PER SIGILLATURA PRESSORE 4161 MATERIALE: GOMMA BITUMINOSA CON FOGLIO DI ALLUMINIO PRODOTTO: ALU-BITUTAPE LARGHEZZA: mm. 50 <i>COLD PRESSURE SENSITIVE ADHESIVE TAPE FOR PRESSER 4161 SEALING MATERIAL: BITUMINOUS RUBBER WITH ALUMINIUM SHEET PRODUCT: ALU-BITUTAPE WIDHT: mm. 50</i> REPERIBILE PRESSO / AT: GRACE ITALIANA S.p.A.
 ART. 526-811.4 GUARNIZIONE DI VETRAZIONE INTERNA ESTERNA da mm. 4 MATERIALE E.P.D.M. <i>INNER - OUTER GLASS BEADING GASKET of 4 mm MATERIAL: E.P.D.M.</i>	 ADESIVO SIGILLANTE DA APPLICARE NELL'ACCOPIAMENTO MONTANTI- TRAVERSI CON LACCESSORIO 535-070-0 PRODOTTO: INCOLLA + SIGILLA <i>SEALING ADHESIVE TAPE TO BE APPLIED IN THE MULLION-TRANSOM UNION WITH ACCESSORY 535-070-0 PRODUCT: IT GLUES + SEALS</i> REPERIBILE PRESSO / AT: WURTH
 ART. 526-812.4 GUARNIZIONE DI VETRAZIONE INTERNA ESTERNA da mm. 6 MATERIALE E.P.D.M. <i>INNER - OUTER GLASS BEADING GASKET of 6 mm MATERIAL: E.P.D.M.</i>	

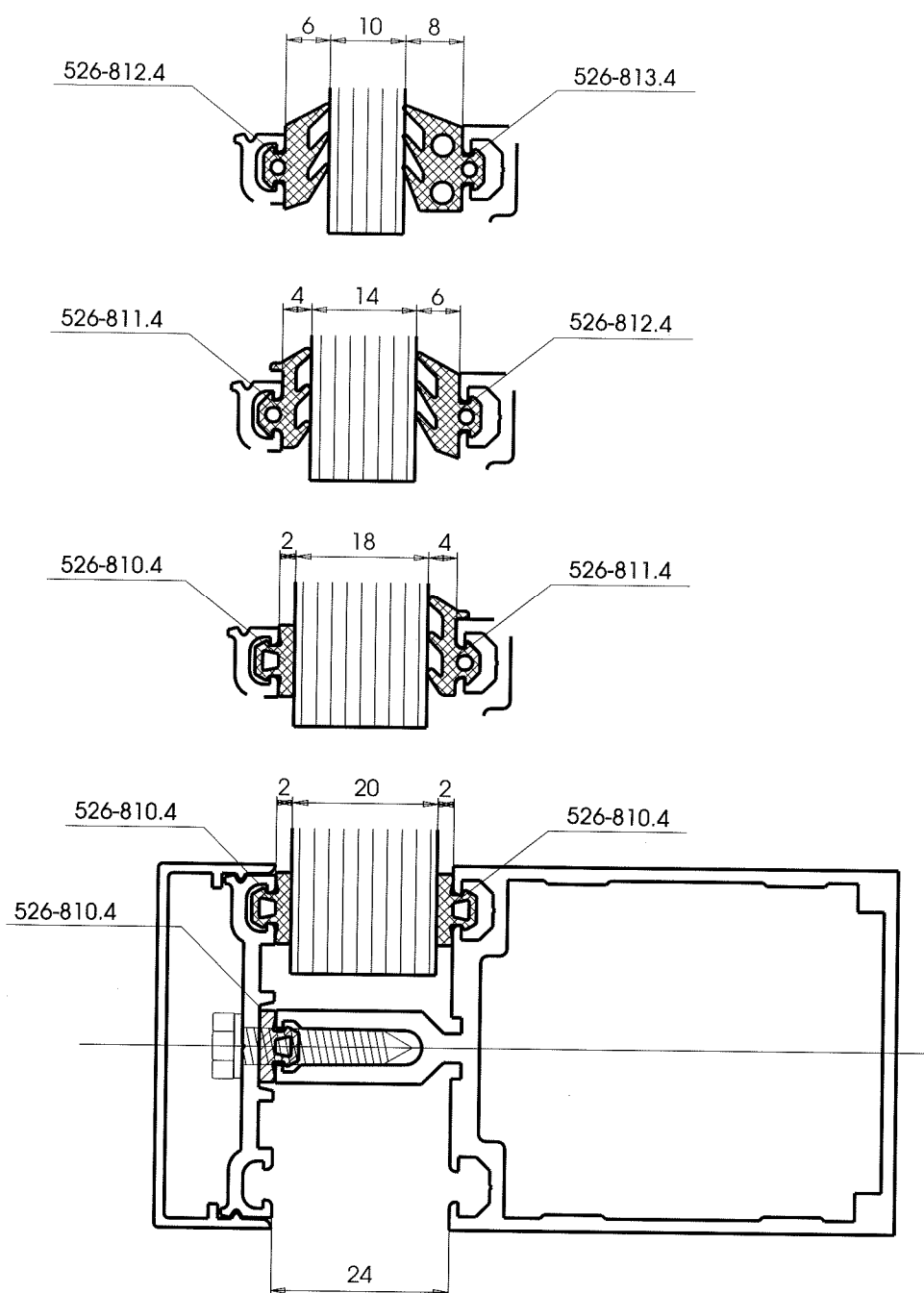


SPAZI DI VETRAZIONE E PANNELLATURA GLASS BEADING AND PANELLING SPACES

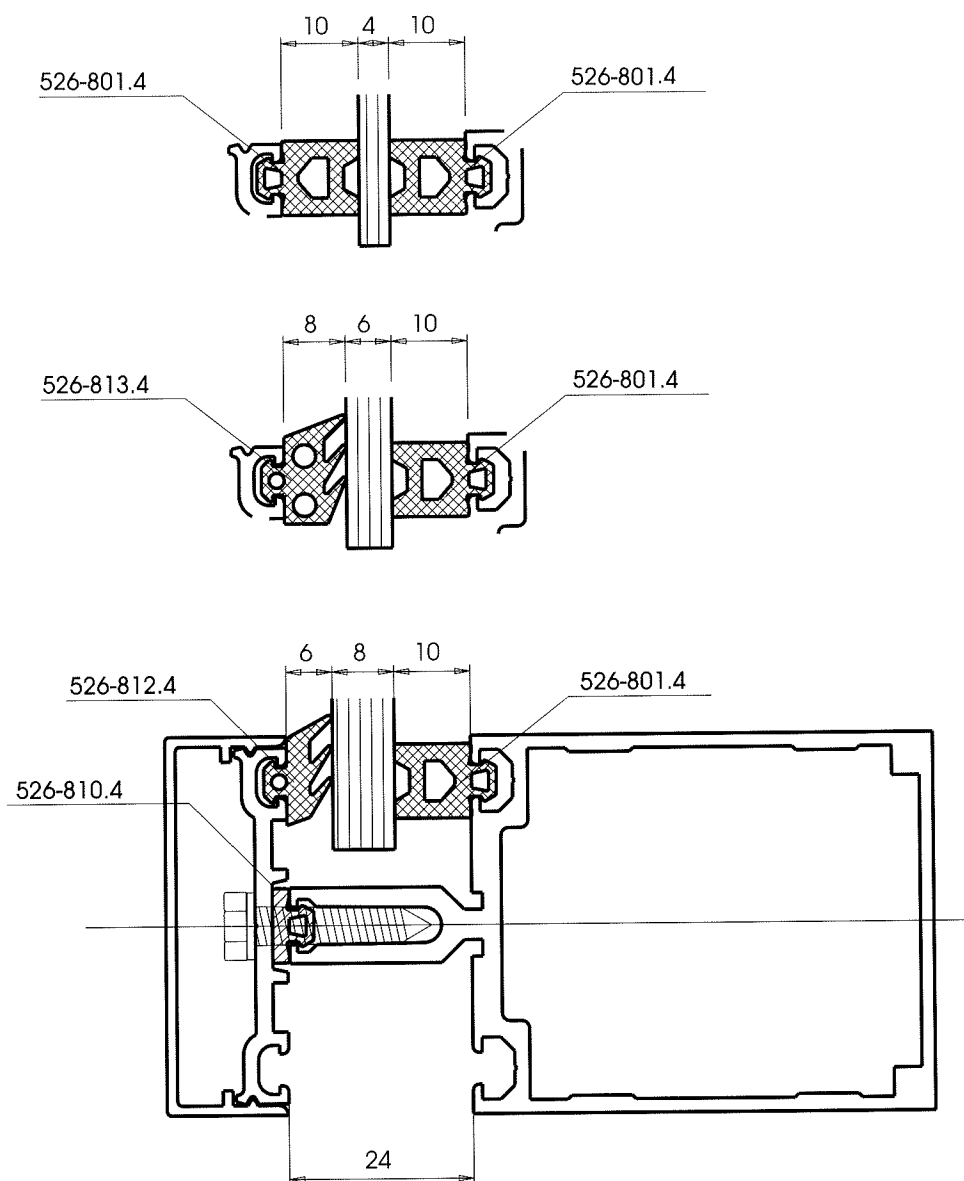


SPAZI DI VETRAZIONE E PANNELLATURA

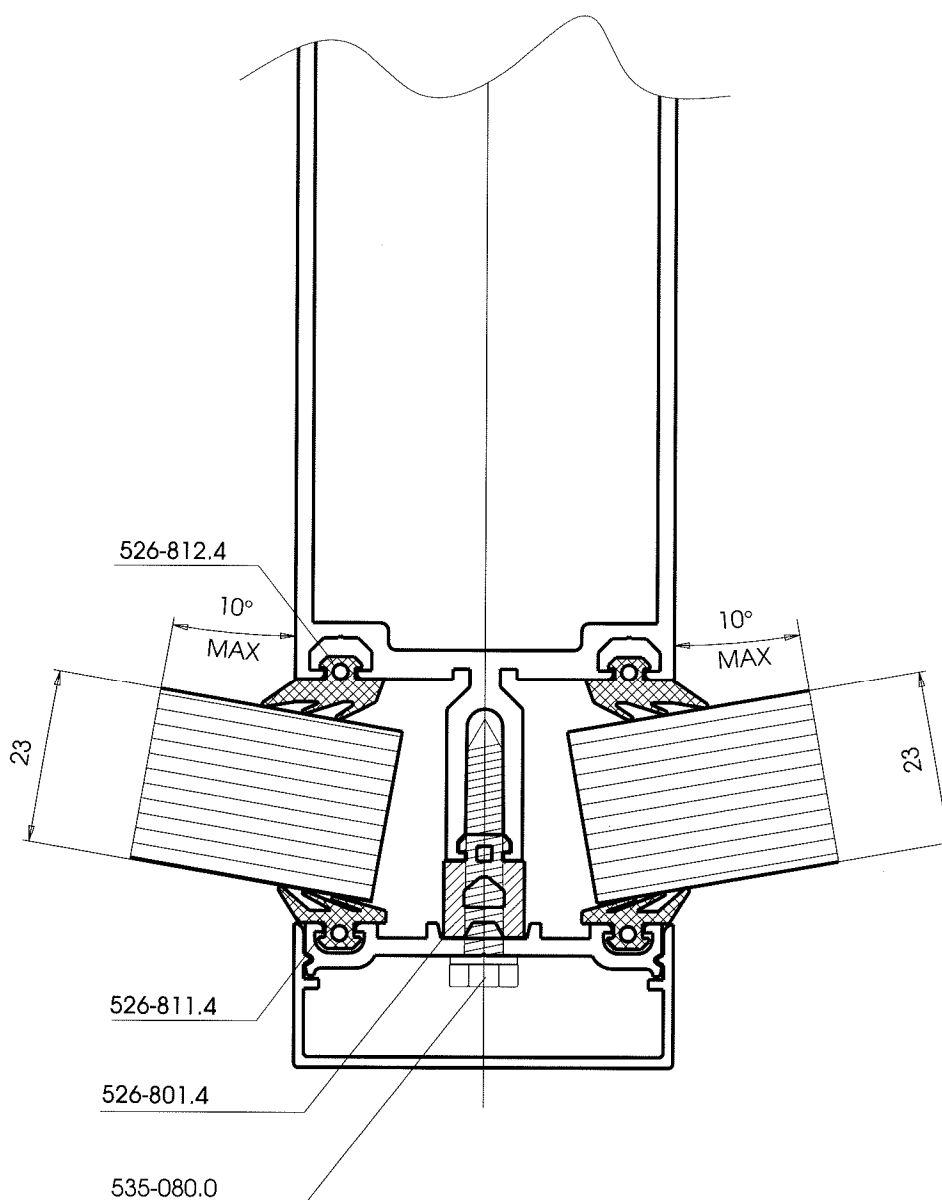
GLASS BEADING AND PANELLING SPACES



SPAZI DI VETRAZIONE E PANNELLATURA GLASS BEADING AND PANELLING SPACES

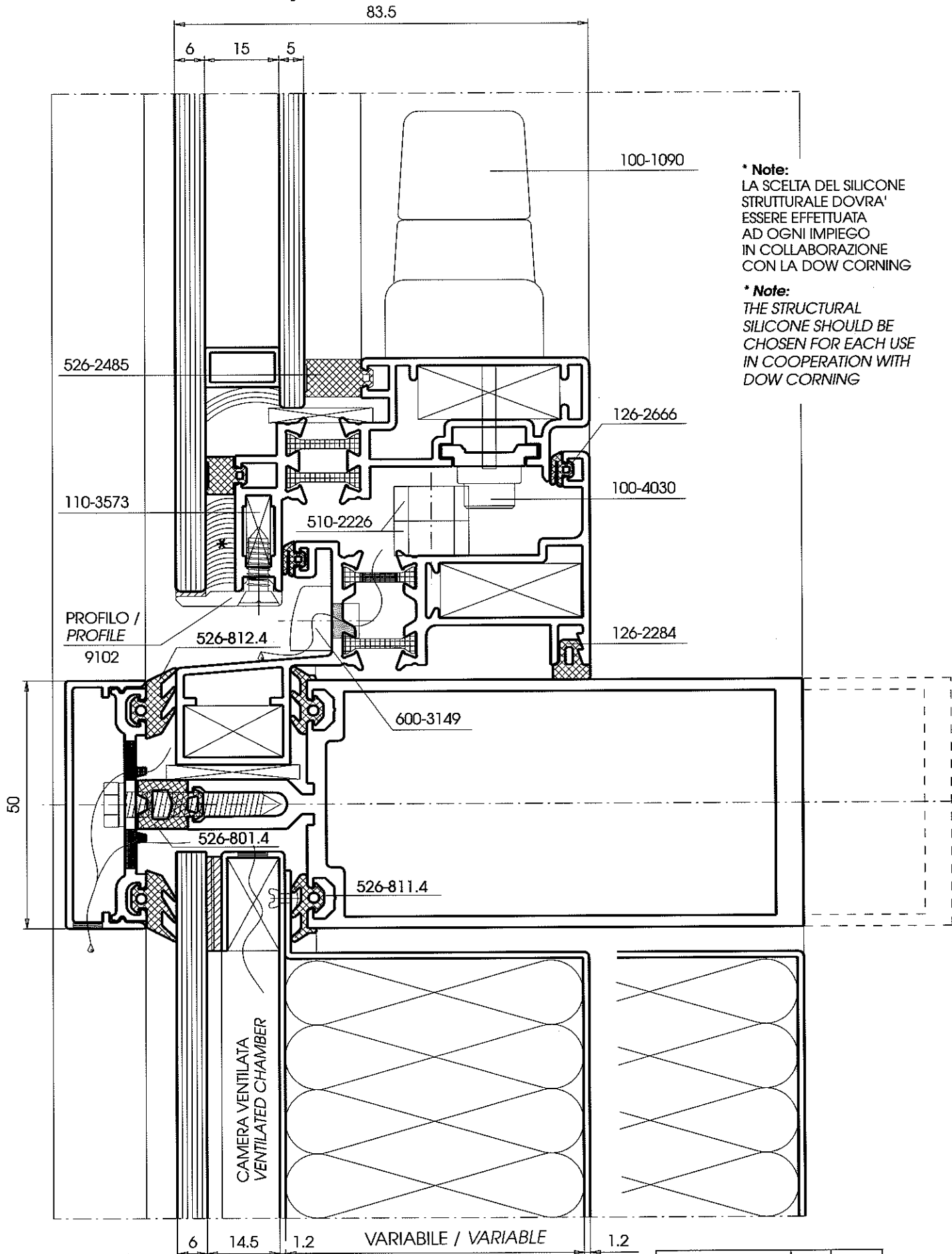


ESEMPIO DI VETRAZIONE SU FACCIATE IN POLIGONALE
EXAMPLE OF GLASS BEADING ON POLYGON WALLING



*** Note:**
THE STRUCTURAL
SILICONE SHOULD BE
CHOSEN FOR EACH USE
IN COOPERATION WITH
DOW CORNING

APERTURA A SPORGERE A T.T. / AWNING WINDOW WITH T.B.



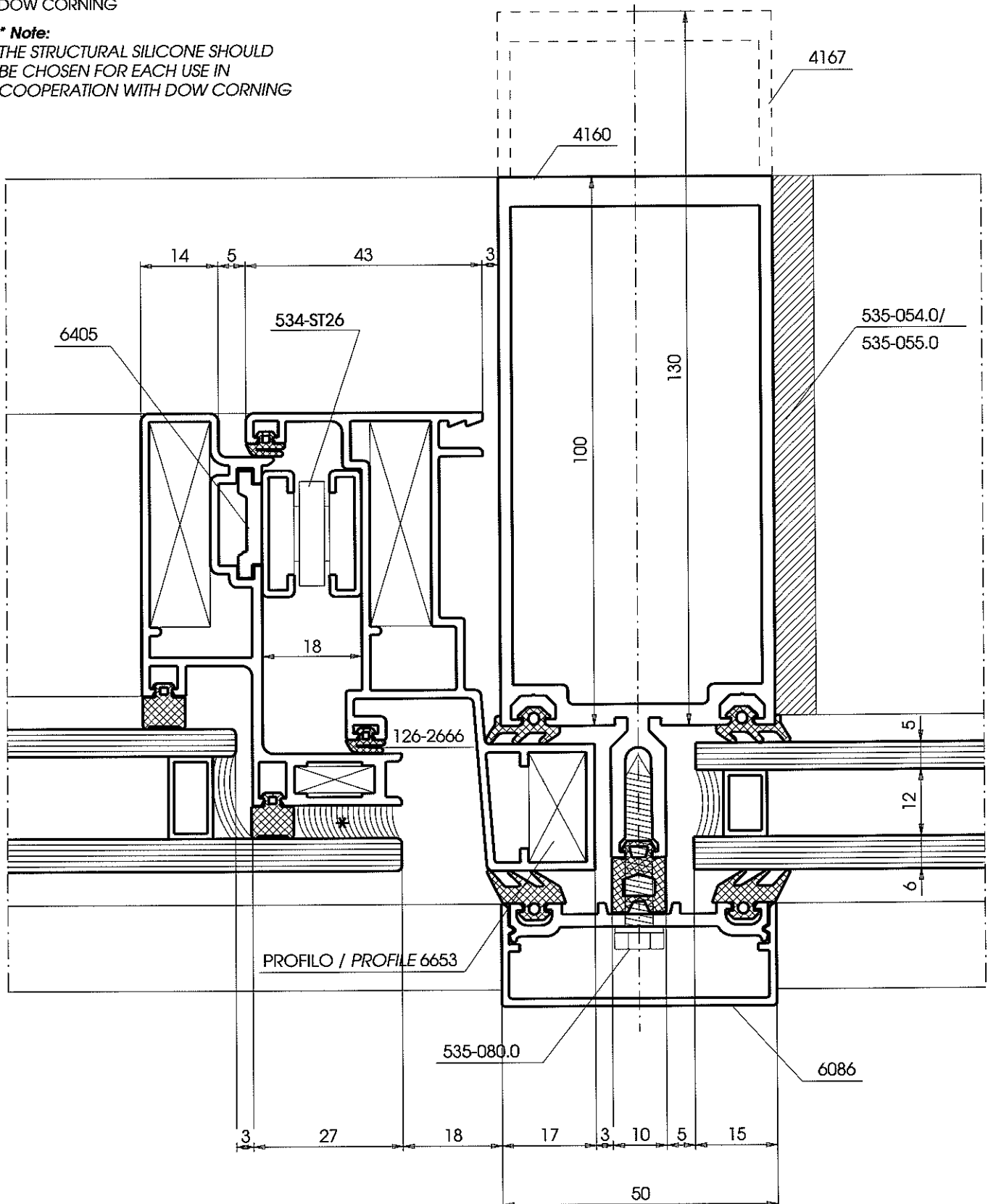
APERTURA A SPORGERE / AWNING WINDOW

*** Note:**

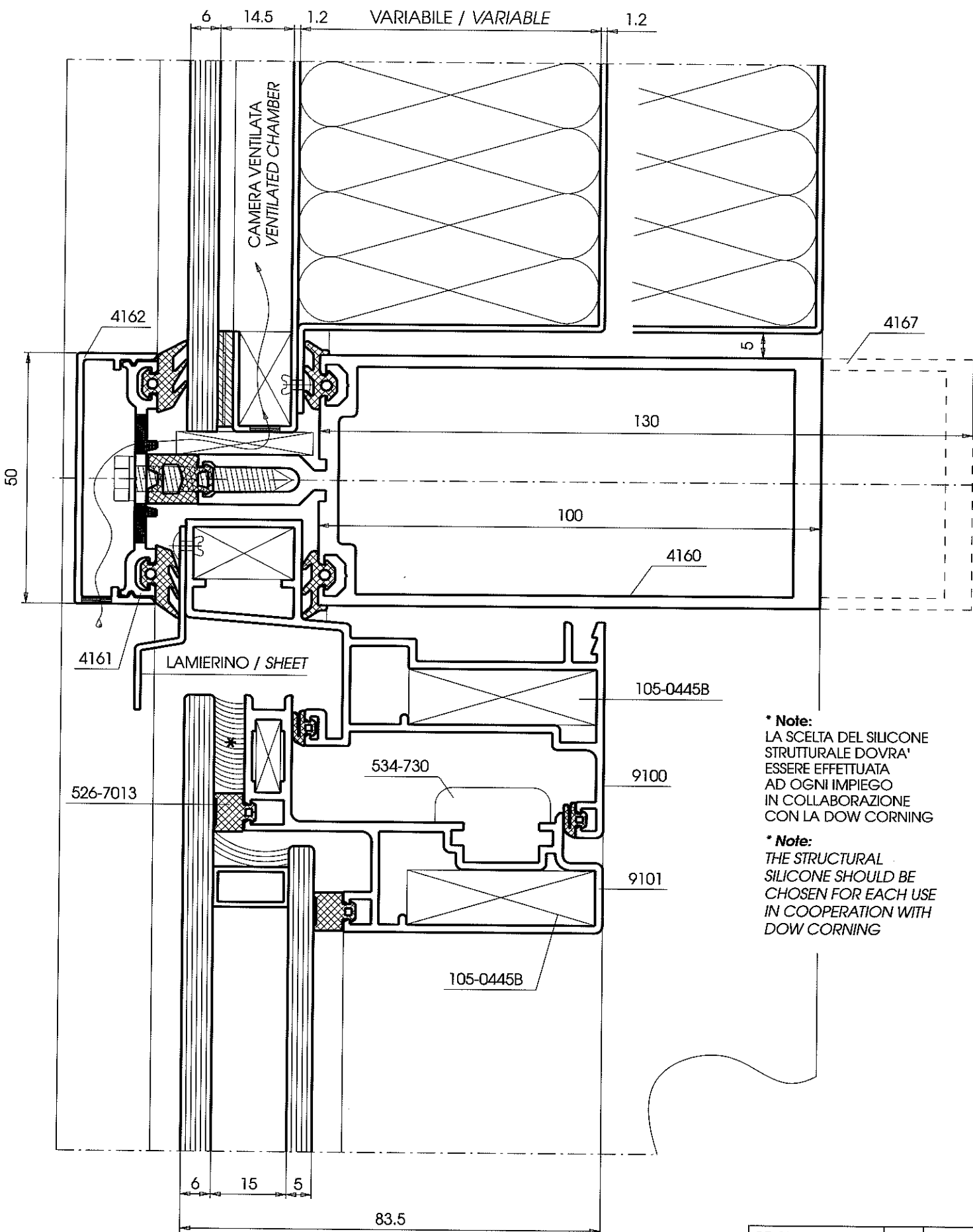
LA SCELTA DEL SILICONE STRUTTURALE
DOVRA' ESSERE EFFETTUATA AD OGNI
IMPIEGO IN COLLABORAZIONE CON LA
DOW CORNING

*** Note:**

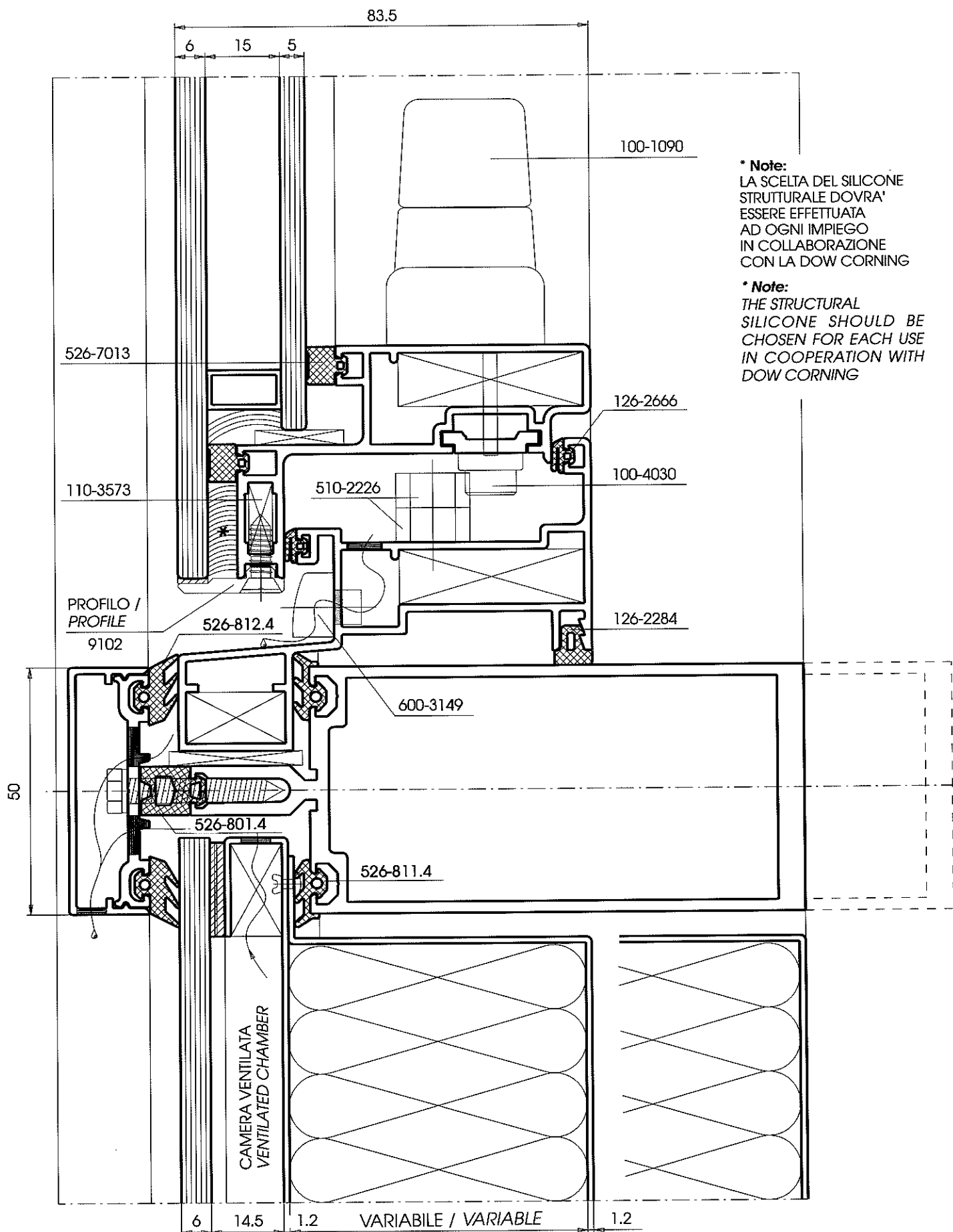
THE STRUCTURAL SILICONE SHOULD
BE CHOSEN FOR EACH USE IN
COOPERATION WITH DOW CORNING



APERTURA A SPORGERE / AWNING WINDOW



APERTURA A SPORGERE / AWNING WINDOW

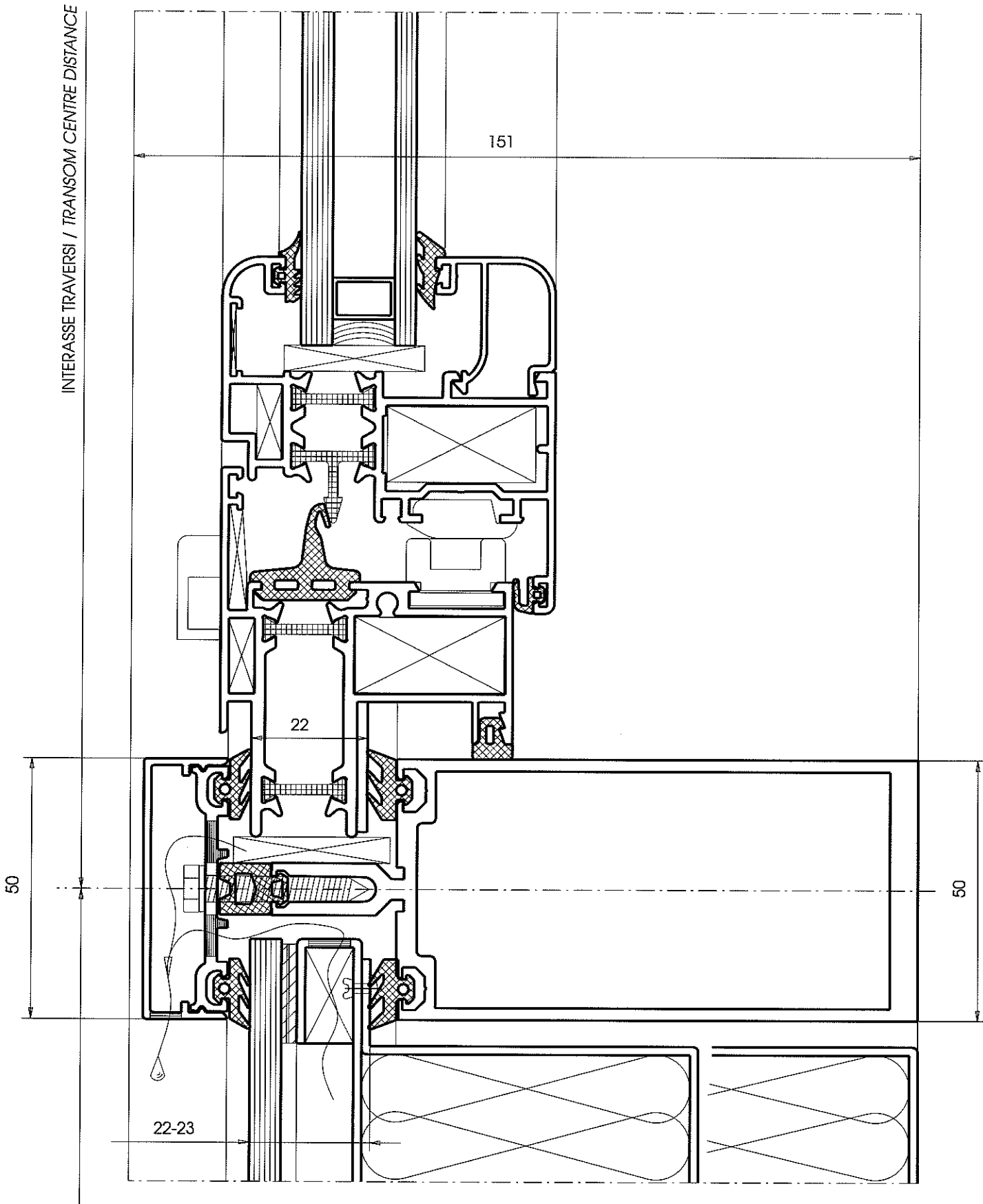


LEAF OPENING ECU 64 T.T.



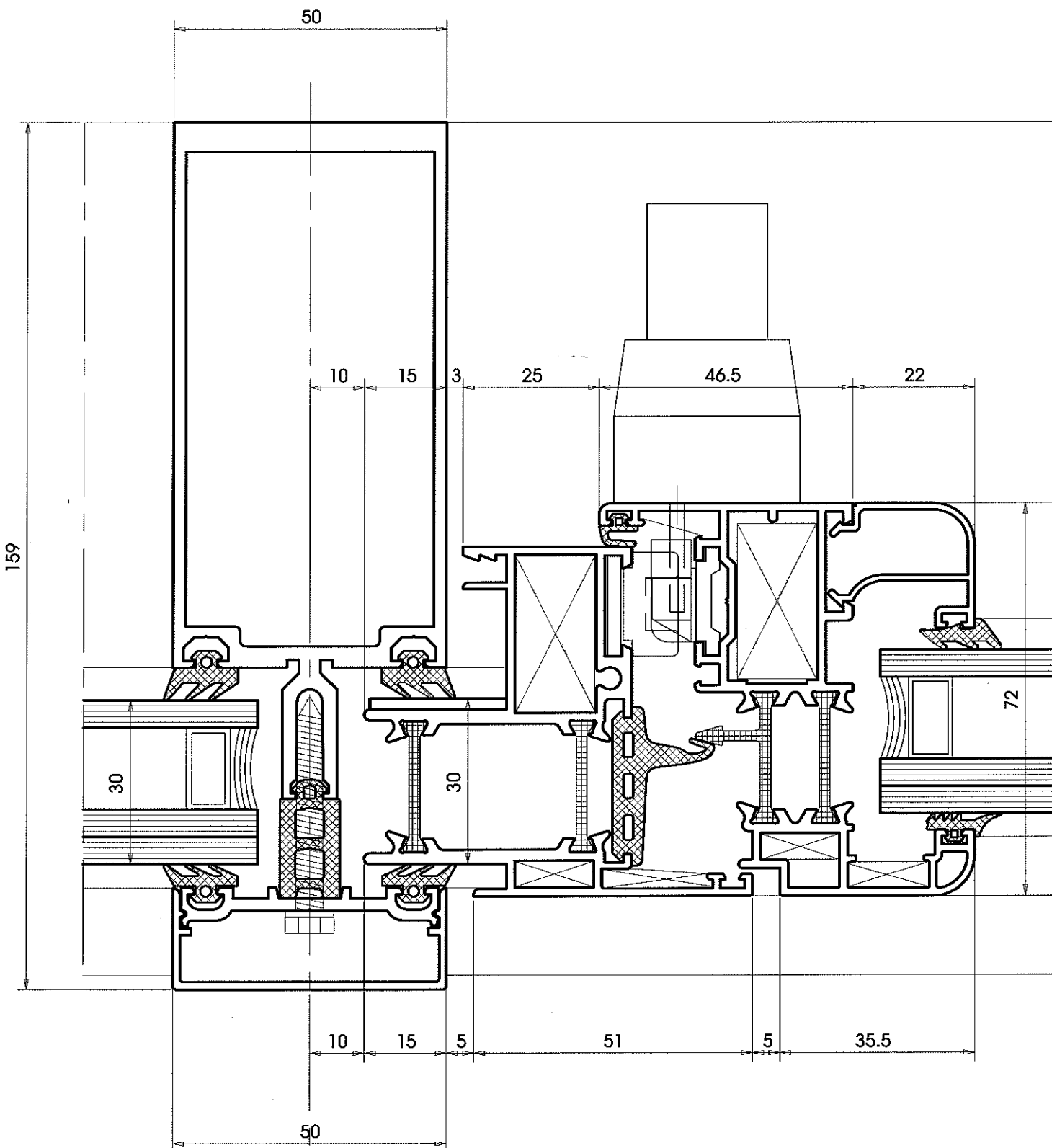
APERTURA AD ANTA EKU 64 T.T.

LEAF OPENING EKU 64 T.T.



APERTURA AD ANTA EKU 72 TT

LEAF OPENING EKU 72 TT



INTERASSE MONTANTI

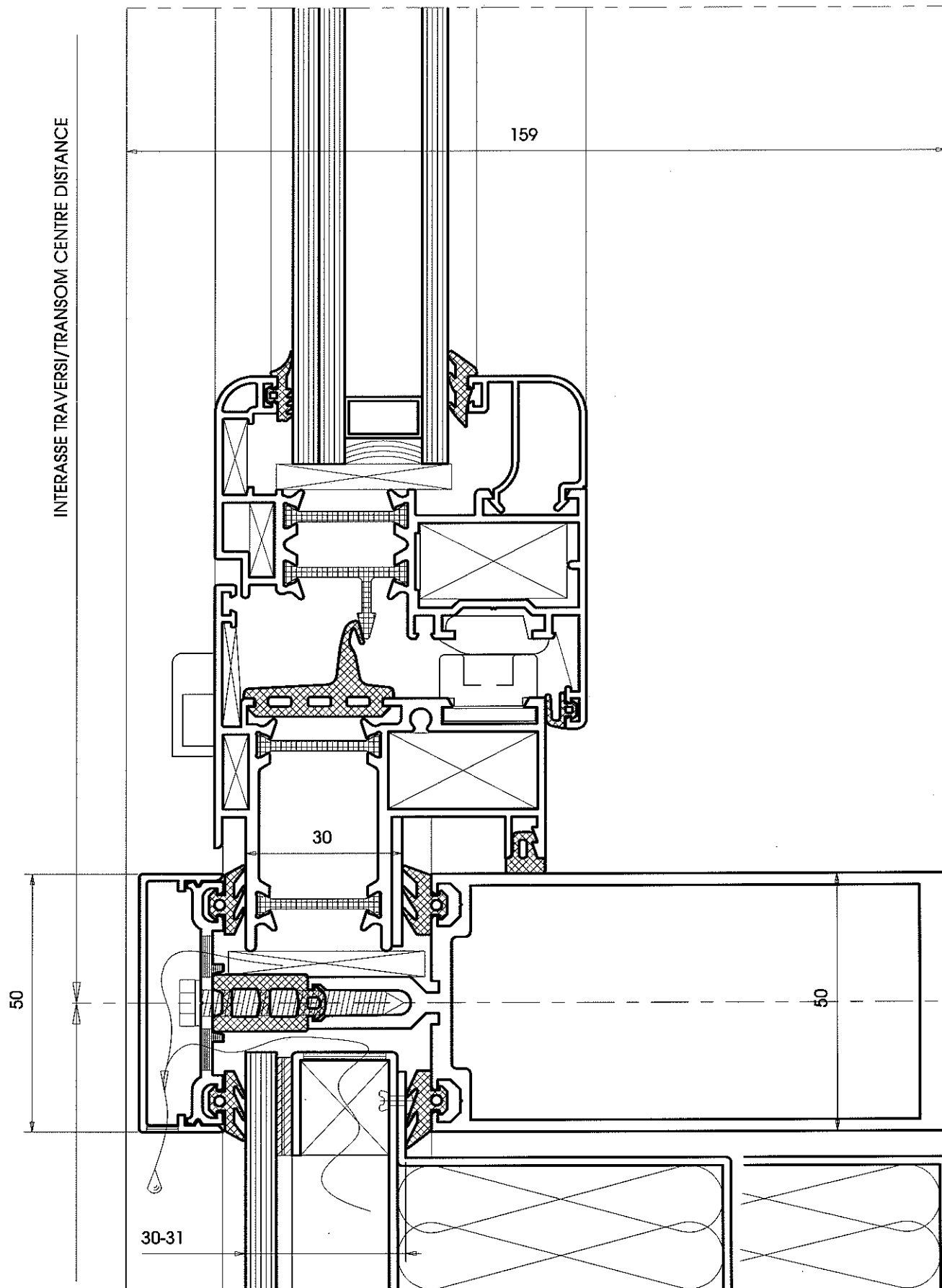
MULLION CENTRE DISTANCE

INTERASSE MONTANTI

MULLION CENTRE DISTANCE

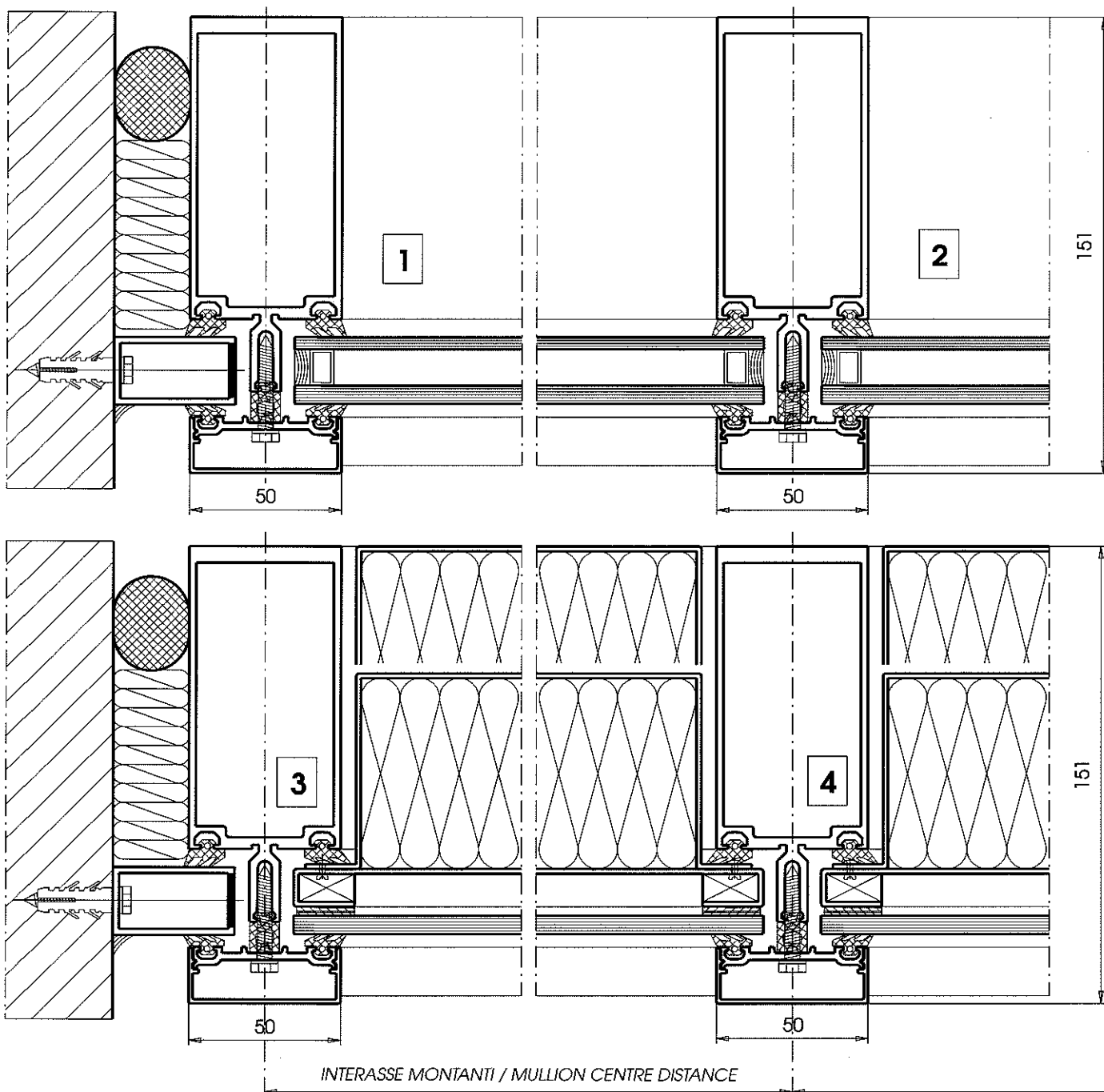
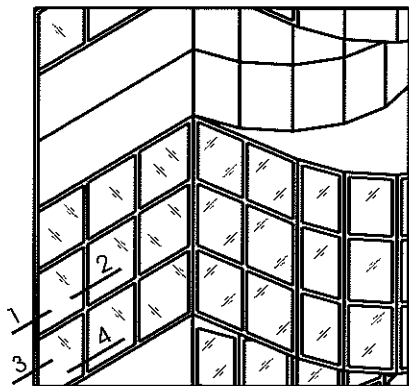
APERTURA AD ANTA EKU 72 TT

LEAF OPENING EKU 72 TT

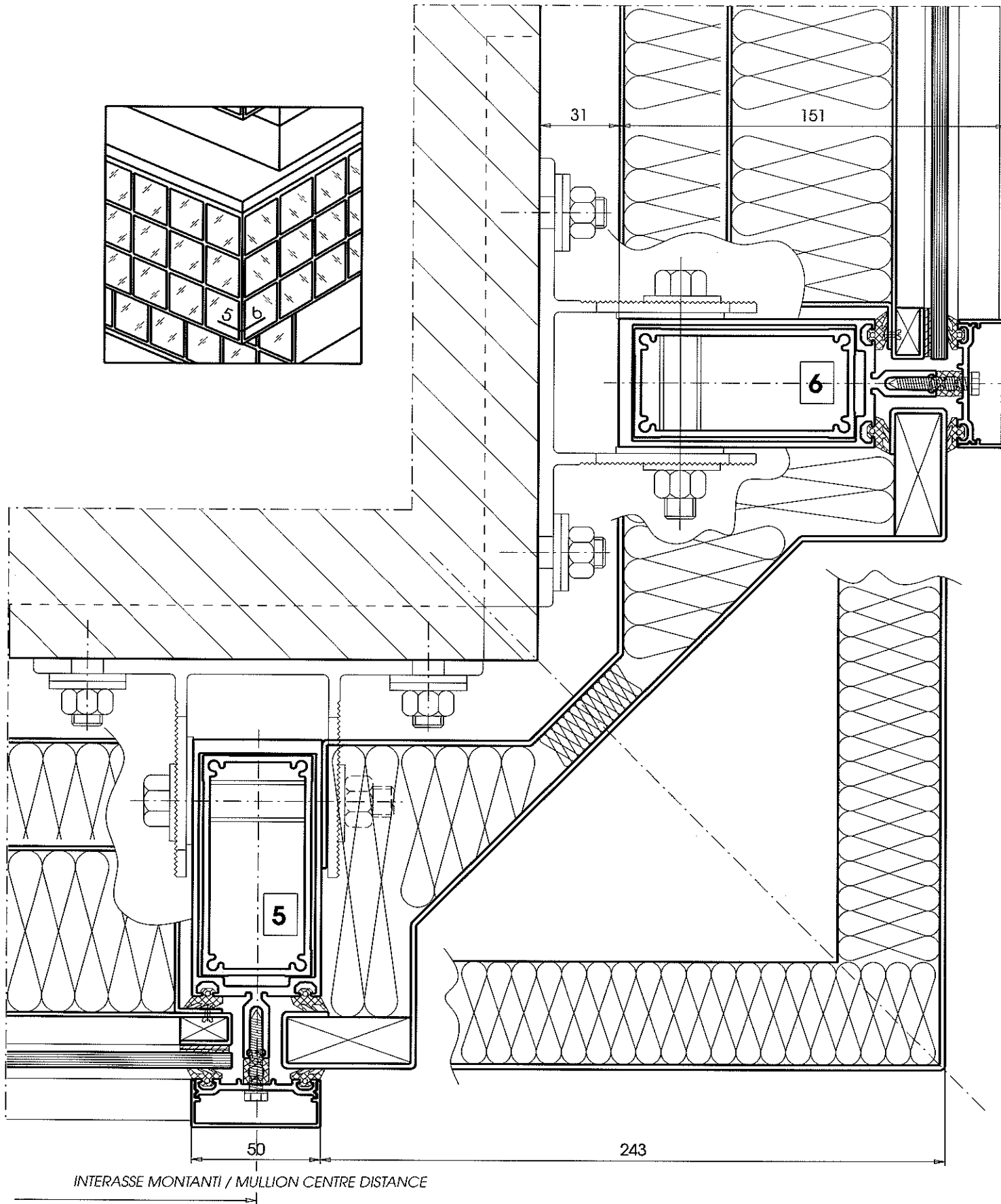
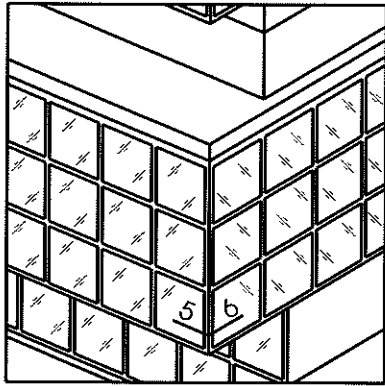


PARTI FISSE, VETRI E PANNELLI

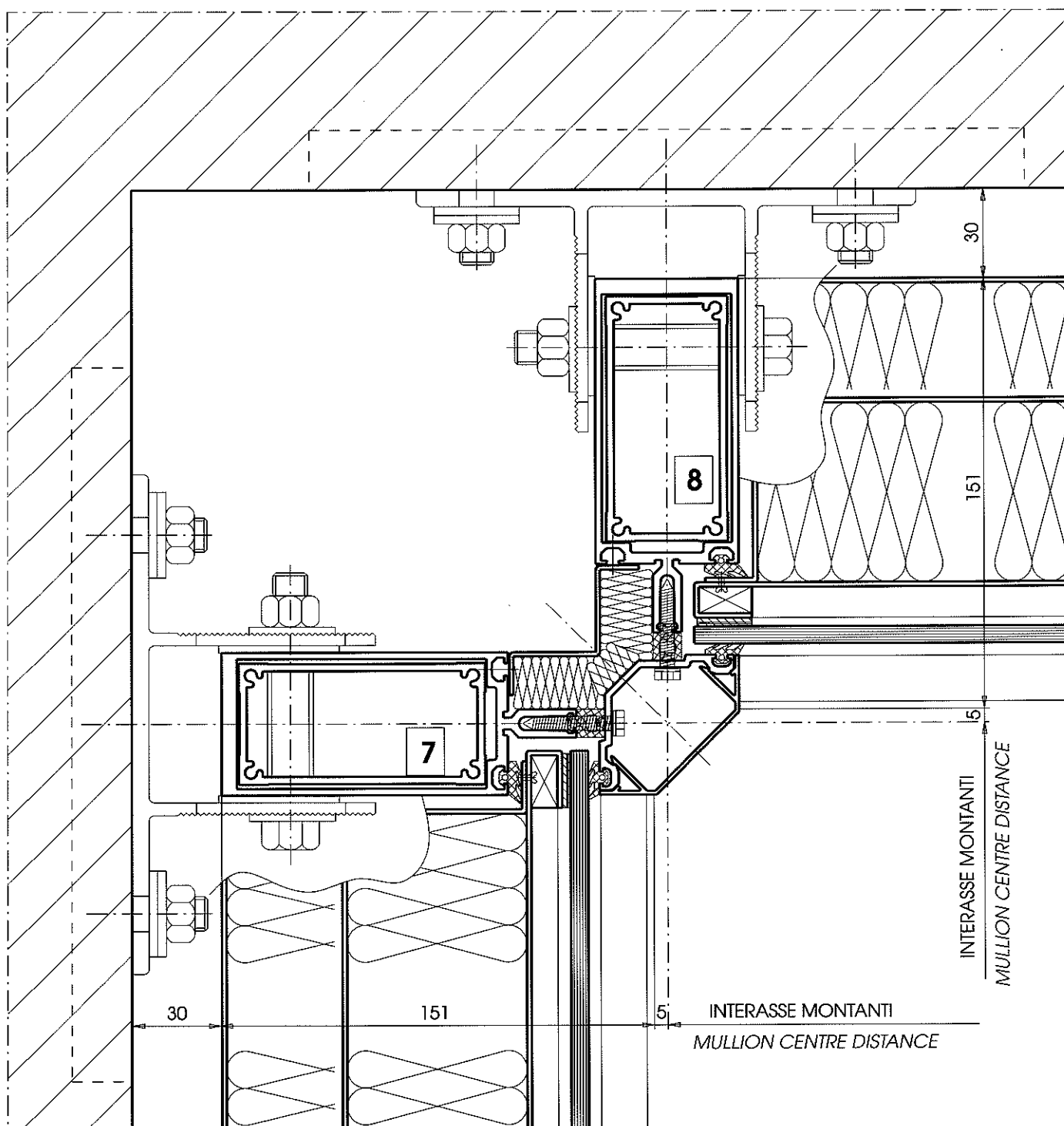
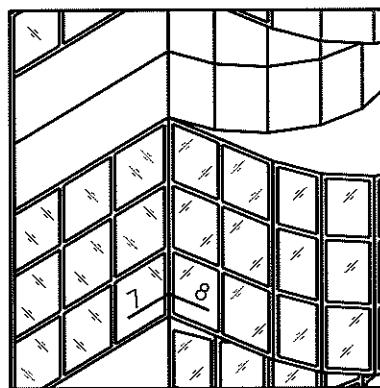
FIXED PARTS, GLASSES AND PANELS



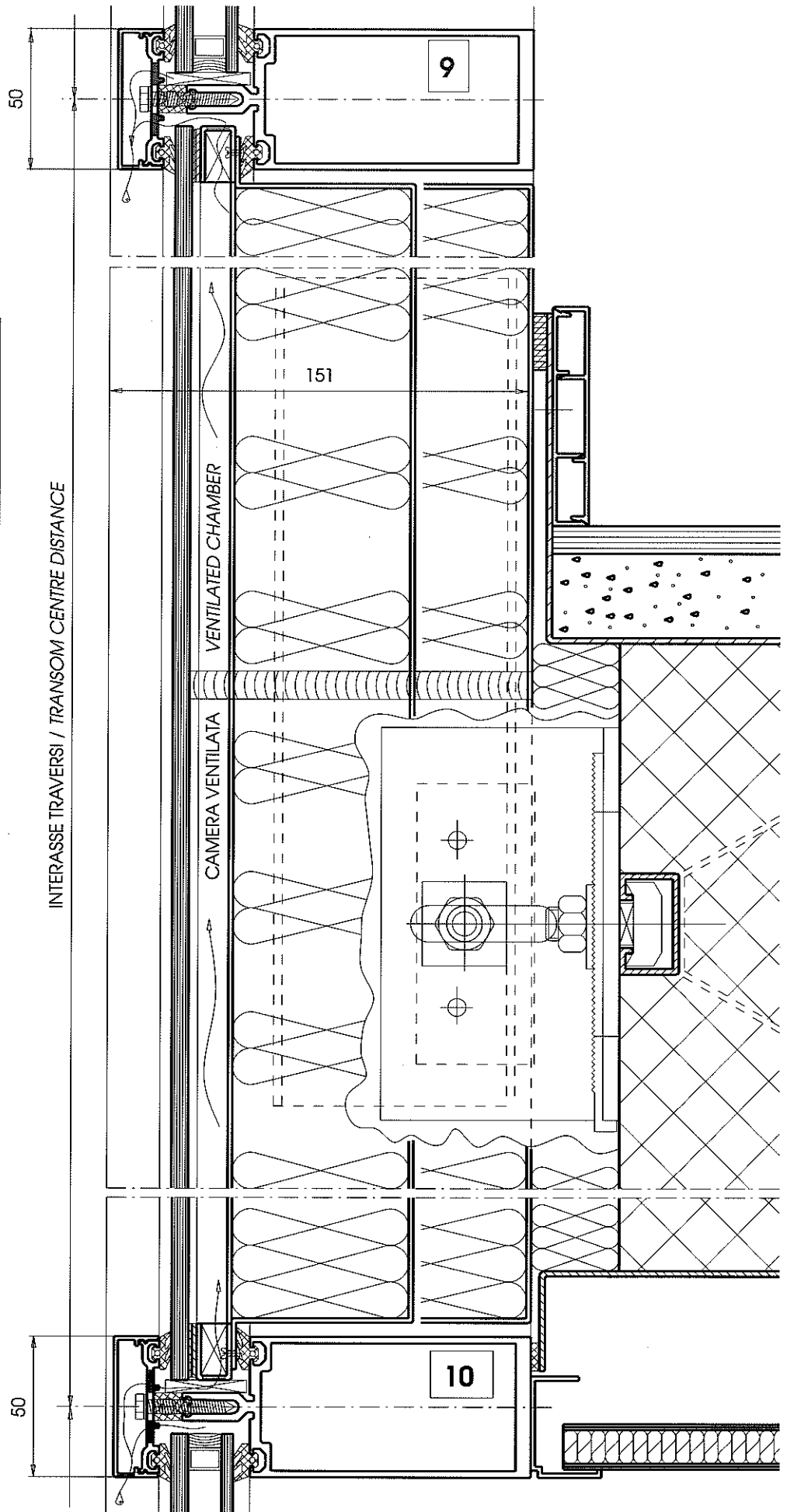
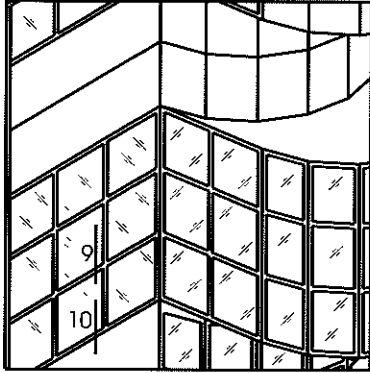
ANGOLO ESTERNO EXTERNAL ANGLE



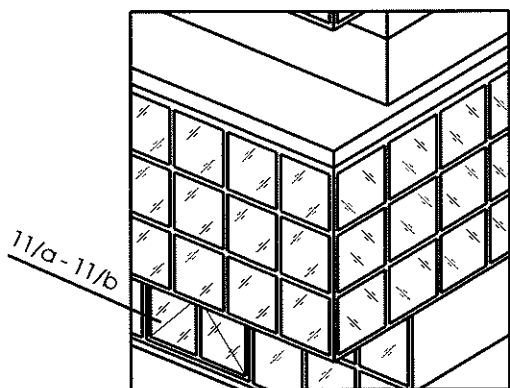
ANGOLO INTERNO INTERNAL ANGLE



DAVANZALE E COPERTURA SOLETTA WINDOW-SILL AND SLAB COVERING

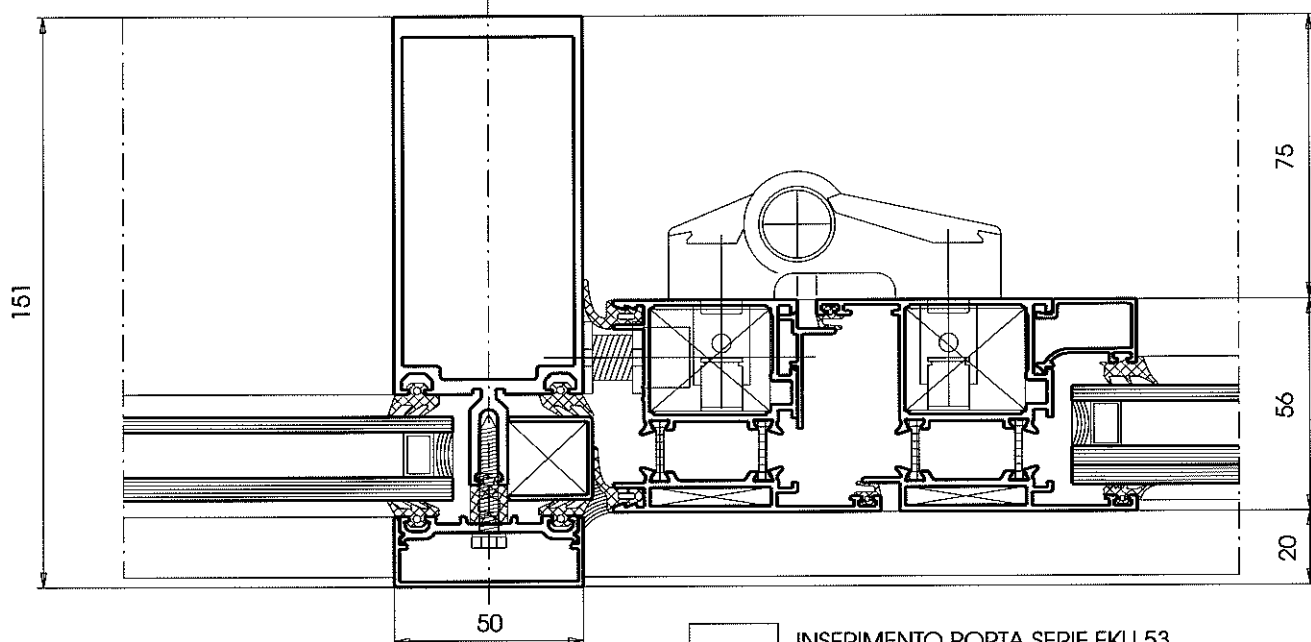


INSERIMENTO PORTE DOOR FITTING



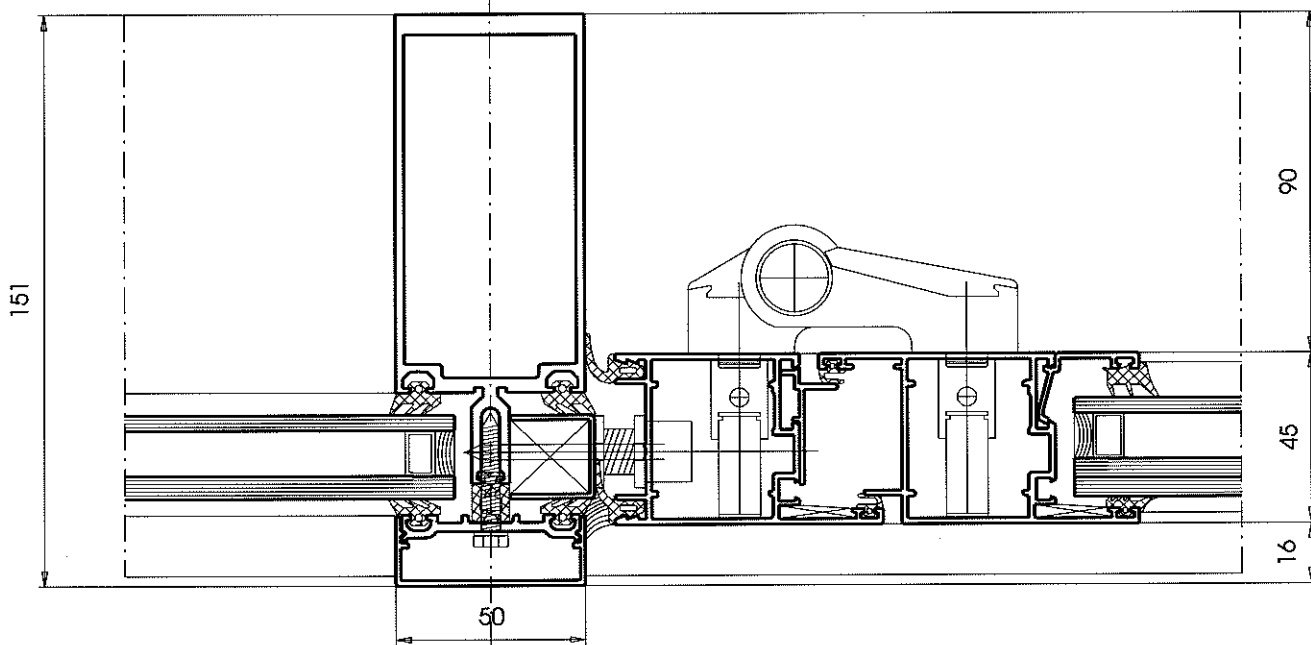
11/a

INSERIMENTO PORTA SERIE EKU 64 T.T.
DOOR FITTING SERIES EKU 64 T.T.



11/b

INSERIMENTO PORTA SERIE EKU 53
DOOR FITTING SERIES EKU 53



INTERASSE MONTANTI / MULLION CENTRE DISTANCE

RETICOLO DI FACCIATA CON COPERTURA A SPORGERE WALLING GRID WITH AWNING WINDOW

APERTURA A SPORGERE AWNING WINDOW

PROFILI / PROFILES

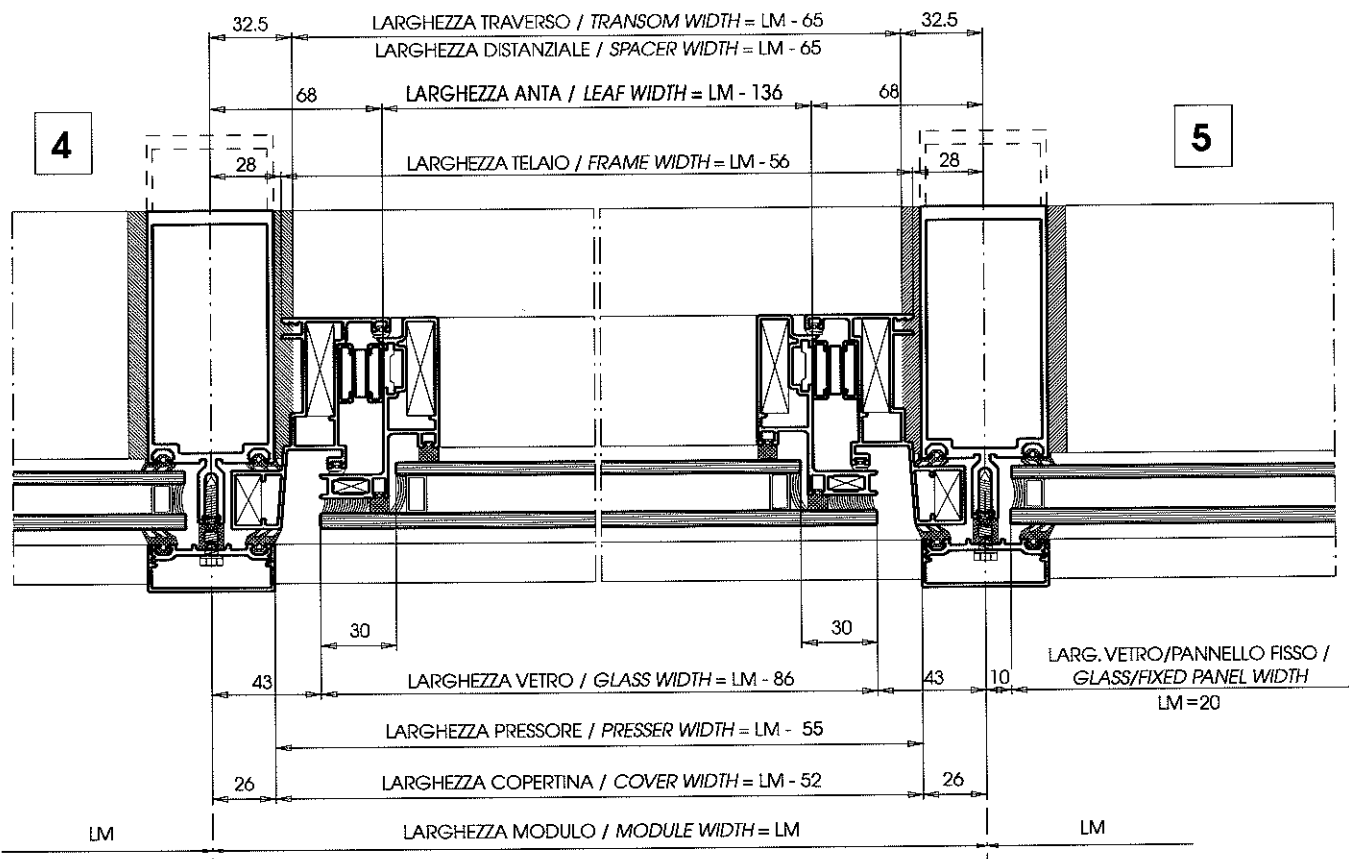
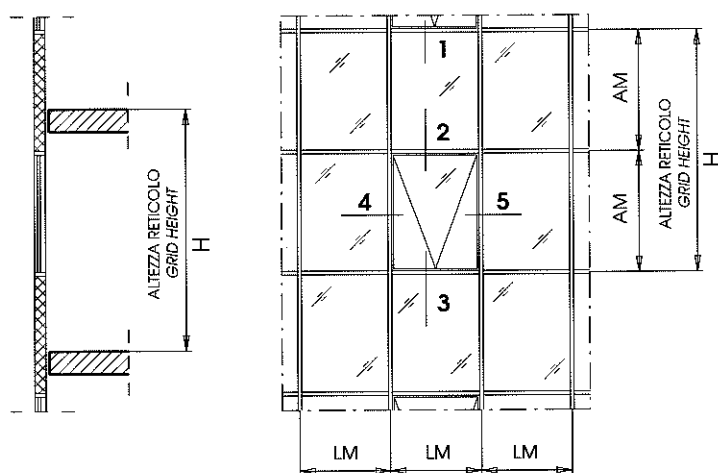
9100	TELAIO FISSO FIXED FRAME	2LM + 2AM
9101	ANTA APRIBILE OPENABLE LEAF	2LM + 2AM
6405	ASTA DI CHIUSURA CLOSING ROD	1LM + 1/4AM

GUARNIZIONI / GASKETS

126-2666	GUARN. DI TENUTA WEATHER STRIP	4LM + 4AM
126-2284	GUARN. DI APPOGGIO TELAI FRAME SUPPORTING GASKET	1LM
526-7013	GUARN. DISTANZIATRICE VETRO GLASS SPACING GASKET	4LM + 4AM

ACCESSORI / ACCESSORIES

105-04458	SQUADRETTA A SCATTO SNAP CORNER JOINT	N°8 Pz
110-3573	SQUADRETTA A CIANFRINARE CORNER JOINT TO BE CHAMFERED	N°4 Pz
PROF. 6653	SQUADRETTA A CIANFRINARE CORNER JOINT TO BE CHAMFERED	N°4 Pz
510-2226	INCONTRO CHIUSURA LOCK REST PLATE	N°8 Pz
600-3149	CAPPETTA SCARICO ACQUA CAP FOR WATER DRAINAGE	N°2 Conf / Pack
534-ST26	COPPIA BRACCI "STERLING" "STERLING" ARM COUPLE	N°1
100-4020	RINVIO D'ANGOLO ANGLE TRANSMISSION	N°2 Pz
100-4030	NOTTOLINO REGISTRABILE ADJUSTABLE PIN	N°4 Pz
100-1090	CREMONESE "EURO" "EURO" CREMONE BOLT	N°1 Pz
PROF. 9102	RITEGNO MECCANICO VETRO GLASS STOP	N°2 Pz
----	VITE AUTOF.TSP 4.2 x 16 SELF-TAPPING SCREW TSP 4.2 x 16	N°2 Pz
----	VITE AUTOF.TSP 3.9 x 22 SELF-TAPPING SCREW TSP 3.9 x 22	N°8 Pz



RETICOLO DI FACCIATA WALLING GRID

PROFILI / PROFILES

4160	MONTANTE DA MM. 100 MULLION OF 100 MM	1H
4160	TRAVERSO DA MM. 100 TRANSOM OF 100 MM	2LM
4161	PRESSORE PRESSER	2LM + 1H
4162	COPERTINA COVER	2LM
6086	COPERTINA COVER	1H

GUARNIZIONI / GASKETS

526-801.4	GUARN. DISTANZIALE MM. 10 SPACING GASKET MM. 10	2LM + 1H
526-811.4	GUARN. DI VETRAZIONE MM. 4 GLASS BEADING GASKET MM.4	4LM + 2H
526-812.4	GUARN. DI VETRAZIONE MM. 6 GLASS BEADING GASKET MM.6	4LM + 2H

ACCESSORI / ACCESSORIES

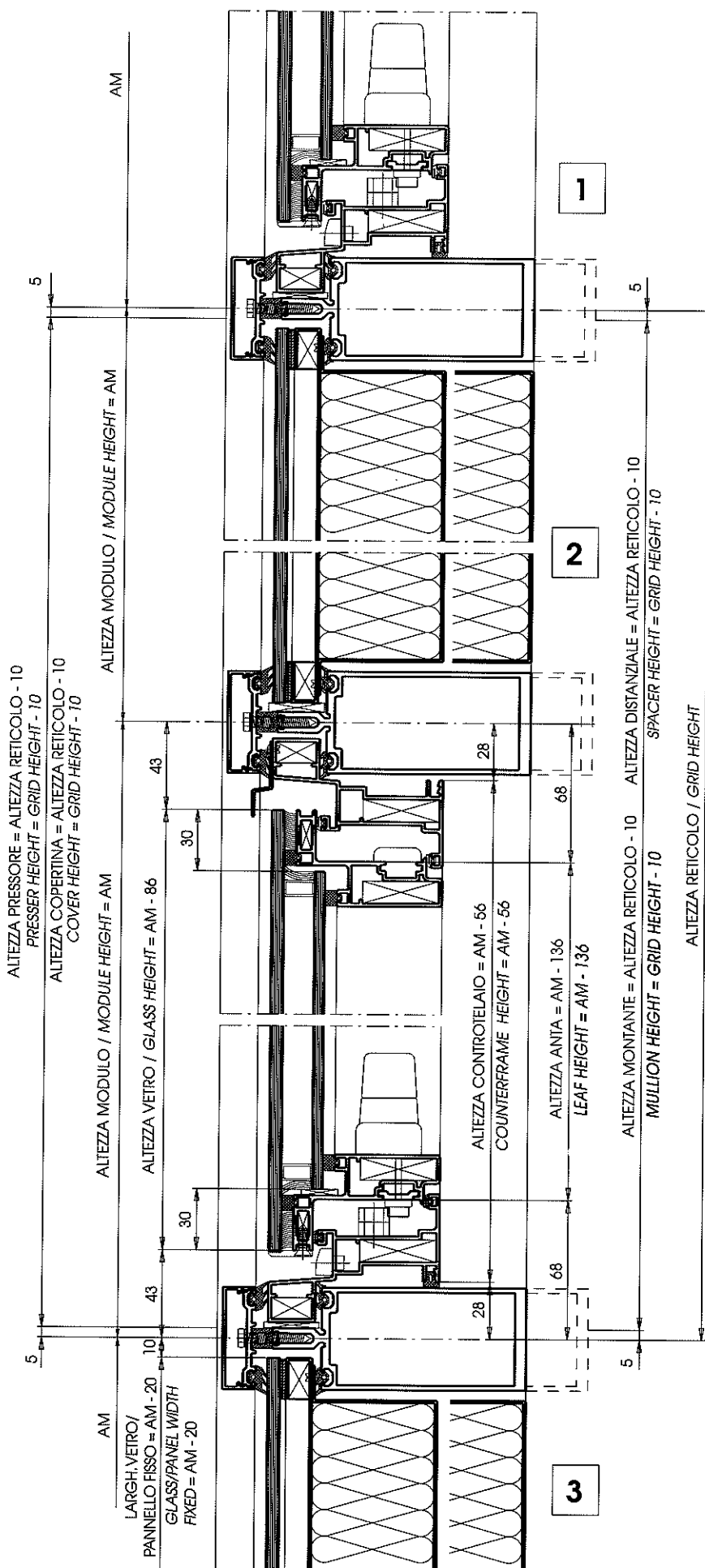
535-054.0	CAVALLOTTO FISSO MM. 100 FIXED BOLT 100 MM	N°2 Pz
535-055.0	CAVALLOTTO MOBILE MM. 100 MOBILE BOLT 100 MM	N°2 Pz
535-061.0	CANNOITO DA MM. 100 TUBE OF 100 MM	N°1 Pz
535-065.0	STAFFA DI FISSAGGIO FASTENING BRACKET	N°1 Pz
535-070.4	TAPPI DI TENUTA ACQUA WATER-TIGHT PLUGS	N°4 Pz
535-080.0	VITI DI FISSAGGIO FASTENING SCREWS	N°23 Pz
535-080.1	RONDELLE IN NYLON NYLON WASHERS	N°23 Pz

*** Note:**

**LA SCELTA DEL SILICONE
STRUTTURALE DOVRA'
ESSERE EFFETTUATA
AD OGNI IMPIEGO
IN COLLABORAZIONE
CON LA DOW CORNING**

* **Note:**

THE STRUCTURAL
SILICONE SHOULD BE
CHOSEN FOR EACH USE
IN COOPERATION WITH
DOW CORNING



RETICOLO DI FACCIATA CON APERTURA SPORGERE A.T.T. WALLING GRID WITH AWNING WINDOW WITH T.B.

APERTURA A SPORGERE AWNING WINDOW

PROFILI / PROFILES

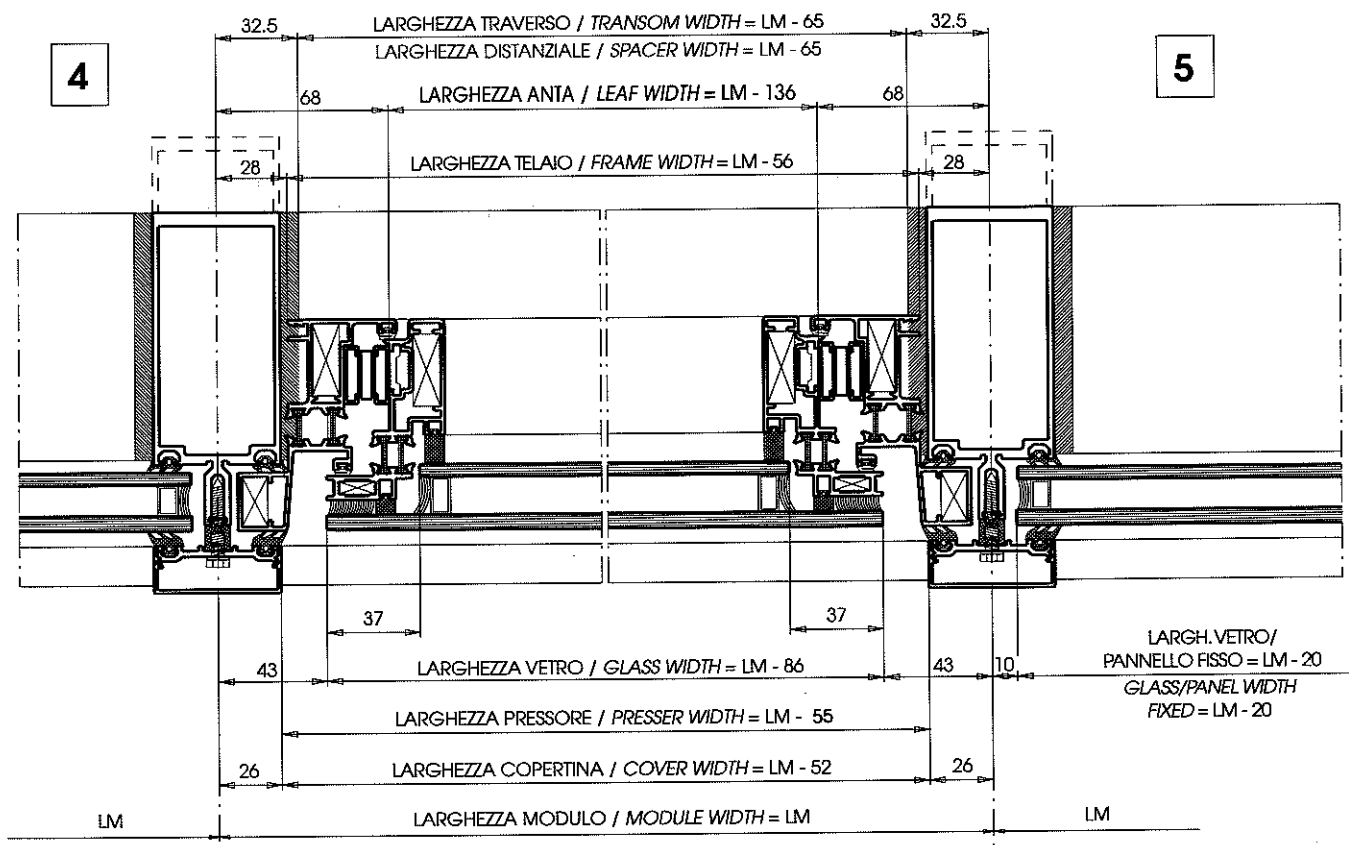
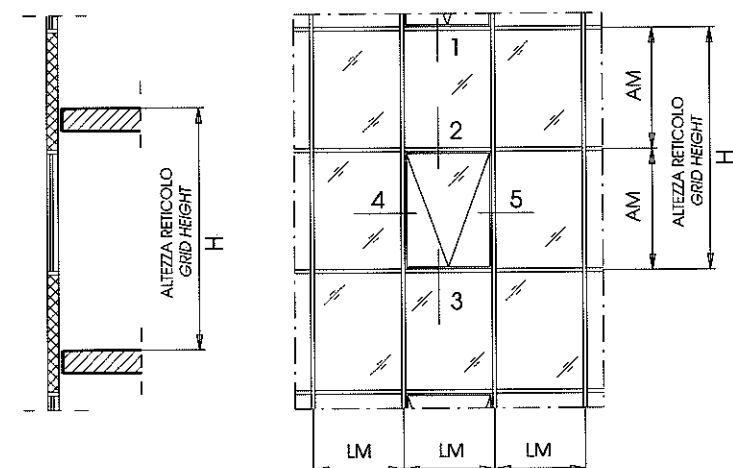
TTE 122	TELAIO FISSO FIXED FRAME	2LM + 2AM
TTE 123	ANTA APRIBILE OPENABLE LEAF	2LM + 2AM
6405	ASTA DI CHIUSURA CLOSING ROD	1LM + 1/4AM

GUARNIZIONI / GASKETS

126-2666	GUARN. DI TENUTA WEATHER STRIP	4LM + 4AM
126-2284	GUARN. DI APPOGGIO TELAIO FRAME SUPPORTING GASKET	1LM
526-7013	GUARN. DISTANZIATRICE VETRO GLASS SPACING GASKET	2LM + 2AM
526-2485	GUARN. DISTANZIATRICE VETRO GLASS SPACING GASKET	2LM + 2AM

ACCESSORI / ACCESSORIES

605-0495	SQUADRETTA A SCATTO SNAP CORNER JOINT	N°8 Pz
110-3573	SQUADRETTA A CIANFRINARE CORNER JOINT TO BE CHAMFERED	N°4 Pz
PROF. 6653	SQUADRETTA A CIANFRINARE CORNER JOINT TO BE CHAMFERED	N°4 Pz
510-2226	INCONTRO CHIUSURA LOCK REST PLATE	N°8 Pz
600-3149	CAPPETTA SCARICO ACQUA CAP FOR WATER DRAINAGE	N°2 Conf
534-ST26	COPPIA BRACCI "STERLING" "STERLING" ARM COUPLE	N°1
100-4020	RINVIO D'ANGOLO ANGLE TRANSMISSION	N°2 Pz
100-4030	NOTTOLINO REGISTRABILE ADJUSTABLE PIN	N°4 Pz
100-1090	CREMONESE "EURO" "EURO" CREMONE BOLT	N°1 Pz
PROF. 9102	RITEGNO MECCANICO VETRO GLASS STOP	N°2 Pz
----	VITE AUTOF. TSP 4.2 x 16 SELF-TAPPING SCREW TSP 4.2 x 16	N°2 Pz
----	VITE AUTOF. TSP 3.9 x 22 SELF-TAPPING SCREW TSP 3.9 x 22	N°8 Pz



RETICOLO DI FACCIATA WALLING GRID

PROFILI / PROFILES

4160	MONTANTE DA MM. 100 MULLION OF 100 MM	1H
4160	TRAVERSO DA MM. 100 TRANSOM OF 100 MM	2LM
4161	PRESSORE PRESSER	2LM + 1H
4162	COPERTINA COVER	2LM
6086	COPERTINA COVER	1H

GUARNIZIONI / GASKETS

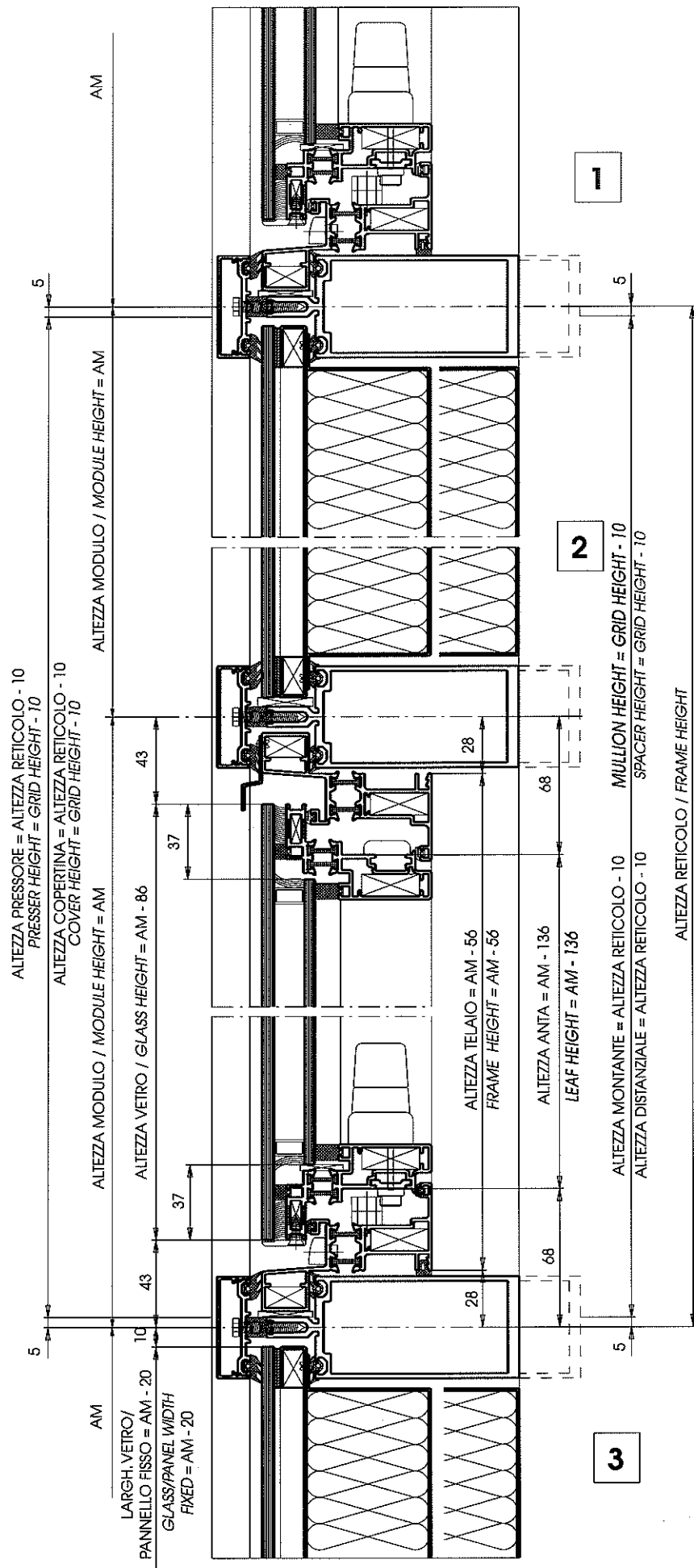
526-801.4	GUARN. DISTANZIALE MM. 10 SPACING GASKET MM. 10	2LM + 1H
526-811.4	GUARN. DI VETRAZIONE MM. 4 GLASS BEADING GASKET MM. 4	4LM + 2H
526-812.4	GUARN. DI VETRAZIONE MM. 6 GLASS BEADING GASKET MM. 6	4LM + 2H

ACCESSORI / ACCESSORIES

535-054.0	CAVALLOTTO FISSO MM. 100 FIXED BOLT 100 MM	N°2 Pz.
535-055.0	CAVALLOTTO MOBILE MM. 100 MOBILE BOLT 100 MM	N°2 Pz.
535-061.0	CANNOTTO DA MM. 100 TUBE OF 100 MM	N°1 Pz.
535-065.0	STAFFA DI FISSAGGIO FASTENING BRACKET	N°1 Pz.
535-070.4	TAPPI DI TENUTA ACQUA WATER-TIGHT PLUGS	N°4 Pz.
535-080.0	VITI DI FISSAGGIO FASTENING SCREWS	N°23 Pz.
535-080.1	RONDELLE IN NYLON NYLON WASHERS	N°23 Pz.

*** Note:**
LA SCELTA DEL SILICONE
STRUTTURALE DOVRA'
ESSERE EFFETTUATA
AD OGNI IMPIEGO
IN COLLABORAZIONE
CON LA DOW CORNING

*** Note:**
THE STRUCTURAL
SILICONE SHOULD BE
CHOSEN FOR EACH USE
IN COOPERATION WITH
DOW CORNING



RETICOLO DI FACCIATA CON APERTURA AD ANTA RIBALTA "EKU 64TT"

WALLING GRID WITH TILT-TURN OPENING SYSTEM "EKU 64TT"

APERTURA AD ANTA RIBALTA TILT-TURN OPENING SYSTEM

PROFILI / PROFILES

TTE 34	TELAIO FISSO FIXED FRAME	2LM + 2AM
TTE 05	ANTA APRIBILE OPENABLE LEAF	2LM + 2AM
4195	FERMAVETRO GLASS BEADING	2LM + 2AM
6405	ASTA DI CHIUSURA CLOSING ROD	*

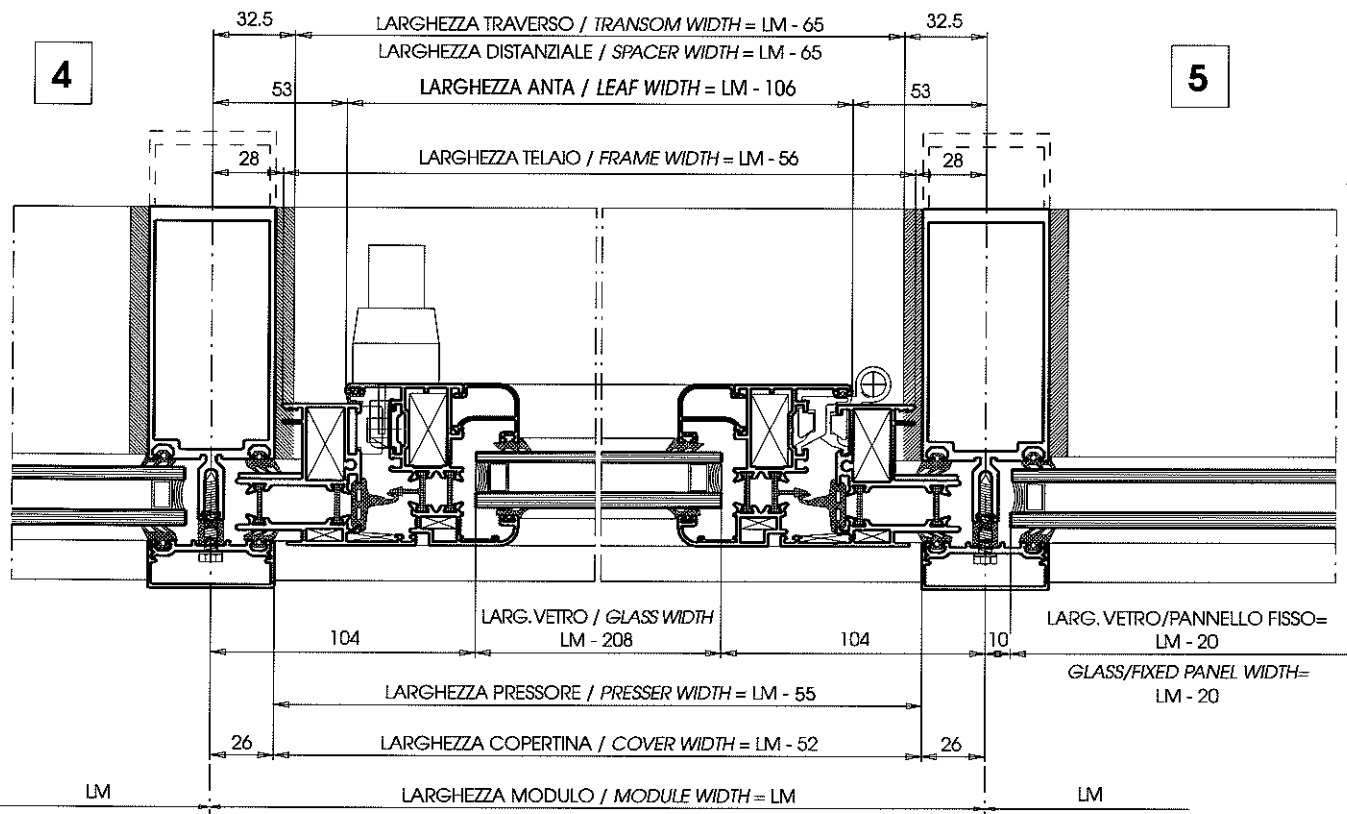
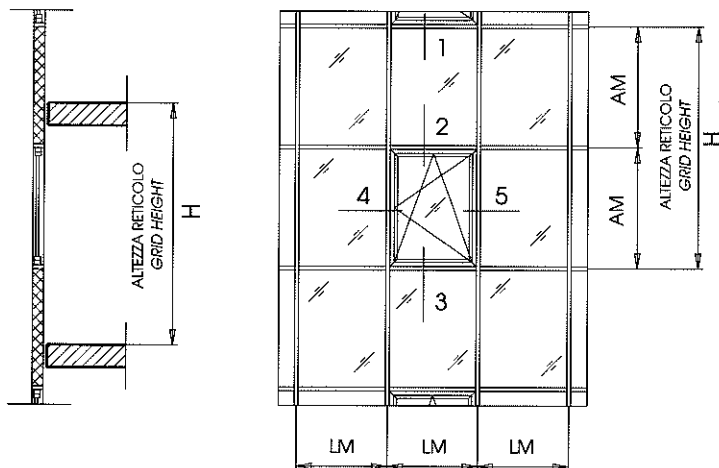
* PER LAVORAZIONI VEDI ISTRUZIONI NEL KIT
* FOR TOOLING SEE INSTRUCTIONS IN THE KIT

GUARNIZIONI / GASKETS

126-2666	GUARN. DI BATTUTA RABBIT GASKET	2LM + 2AM
126-2178	GUARN. VETRO EST. DA 2.5 mm. EXTERNAL GLASS GASKET OF 2.5 mm.	2LM + 2AM
126-2194	GUARN. VETRO INT. DA 4 mm. INTERNAL GLASS GASKET OF 4 mm.	2LM + 2AM
126-2284	GUARN. DI APPOGGIO TELAI FRAME SUPPORTING GASKET	1LM
126-2285	GUARN. DI TENUTA WEATHER STRIP	2LM + 2AM
126-4124	ANGOLO VULCANIZZATO VULCANISED ANGLE	N° 4 Pz

ACCESSORI / ACCESSORIES

105-0409	SQUADRETTA A SCATTO SNAP CORNER JOINT	N°8 Pz
153-3573	SQUADRETTA ESTERNA EXTERNAL CORNER JOINT	N°8 Pz
126-6137	SQUADRETTA ALLIN.TO TELAI FRAME ALIGNING CORNER JOINT	N°4 Pz
105-2004	SQUADRETTA ALLIN.TO ANTA LEAF ALIGNING CORNER JOINT	N°4 Pz
100-4701	KIT BASE ANTA/RIBALTA TILT/TURN BASIC KIT	N°1 Conf
100-1090	CREMONESE "EURO" "EURO" CREMONE BOLT	N°1 Pz
100-4341	BRACCIO MEDIO TIPO 2 MEDIUM ARM TYPE 2	N°1 Pz
100-4641	CHIUSURA SUPPL. VERTICALE ADDITIONAL VERTICAL LOCK	N°1 Pz
100-4641	CHIUSURA SUPPL. ORIZZONTALE ADDITIONAL HORIZONTAL LOCK	N°1 Pz
100-2328	CAPPETTA SCARICO ACQUA CAP FOR WATER DRAINAGE	N°2 Pz



RETICOLO DI FACCIATA WALLING GRID

PROFILI / PROFILES

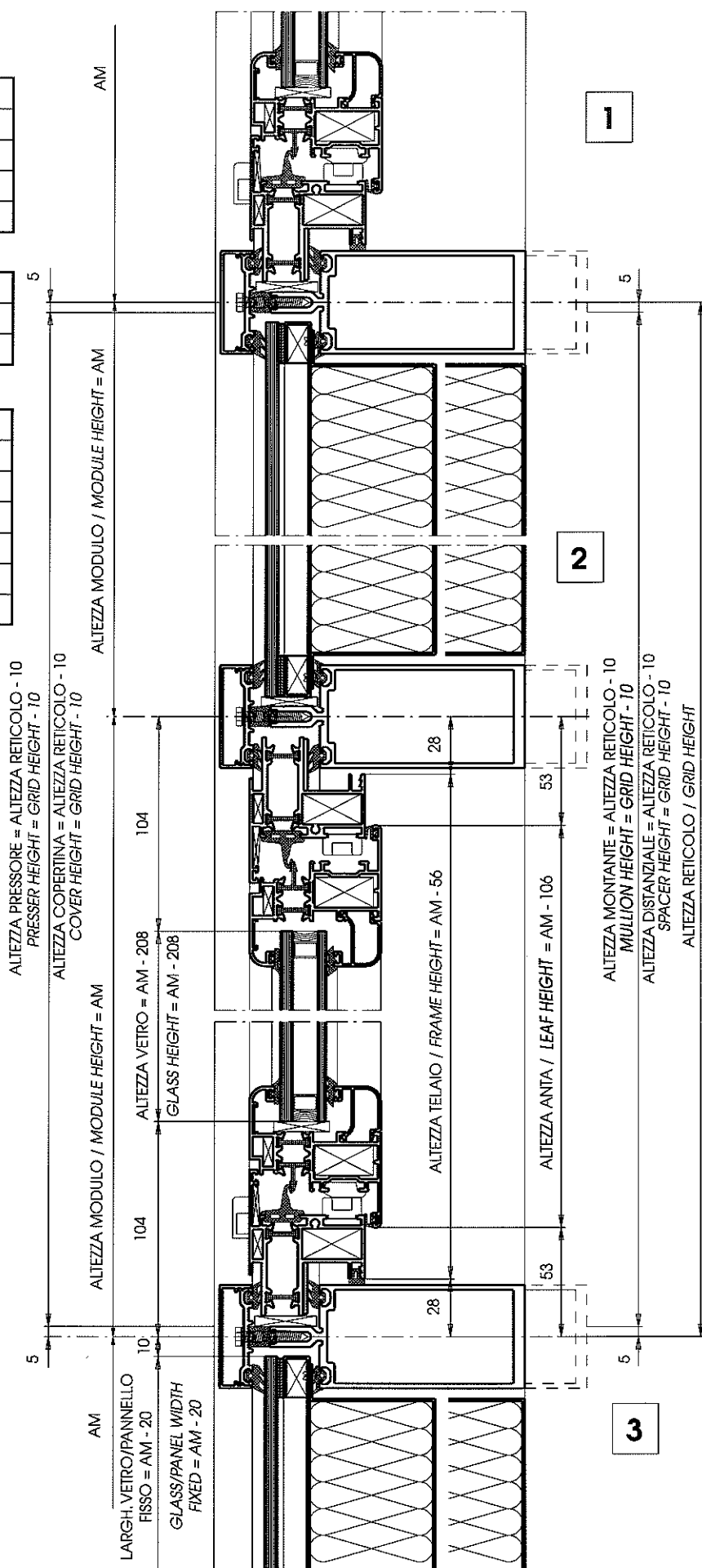
4160	MONTANTE DA MM. 100 MULLION OF 100 MM	1H
4160	TRAVERSO DA MM. 100 TRANSOM OF 100 MM	2LM
4161	PRESSORE PRESSER	2LM + 1H
4162	COPERTINA COVER	2LM
6086	COPERTINA COVER	1H

GUARNIZIONI / GASKETS

526-801.4	GUARN. DISTANZIALE MM. 10 SPACING GASKET MM. 10	2LM + 1H
526-811.4	GUARN. DI VETRAZIONE MM. 4 GLASS BEADING GASKET MM. 4	4LM + 2H
526-812.4	GUARN. DI VETRAZIONE MM. 6 GLASS BEADING GASKET MM. 6	4LM + 2H

ACCESSORI / ACCESSORIES

535-054.0	CAVALLOTTO FISSO MM. 100 FIXED BOLT 100 MM	N°2 Pz
535-055.0	CAVALLOTTO MOBILE MM. 100 MOBILE BOLT 100 MM	N°2 Pz
535-061.0	CANNOTTO DA MM. 100 TUBE OF 100 MM	N°1 Pz
535-065.0	STAFFA DI FISSAGGIO FASTENING BRACKET	N°1 Pz
535-070.4	TAPPI DI TENUTA ACQUA WATER-TIGHT PLUGS	N°4 Pz
535-080.0	VITI DI FISSAGGIO CLAMPING SCREWS	N°23 Pz
535-080.1	RONDELLE IN NYLON NYLON WASHERS	N°23 Pz



RETICOLO DI FACCIATA CON APERTURA AD ANTA RIBALTA "EKU 72 TT"

WALLING GRID WITH TILT TURN OPENING SYSTEM "EKU 72 TT"

APERTURA AD ANTA RIBALTA TILT-TURN OPENING SYSTEM

PROFILI / PROFILES

TTE 84	TELAIO FISSO FIXED FRAME	2LM + 2AM
TTE 55	ANTA APRIBILE OPENABLE LEAF	2LM + 2AM
4195	FERMAVETRO GLASS BEADING	2LM + 2AM
6405	ASTA DI CHIUSURA CLOSING ROD	*

* PER LAVORAZIONI VEDI ISTRUZIONI NEL KIT

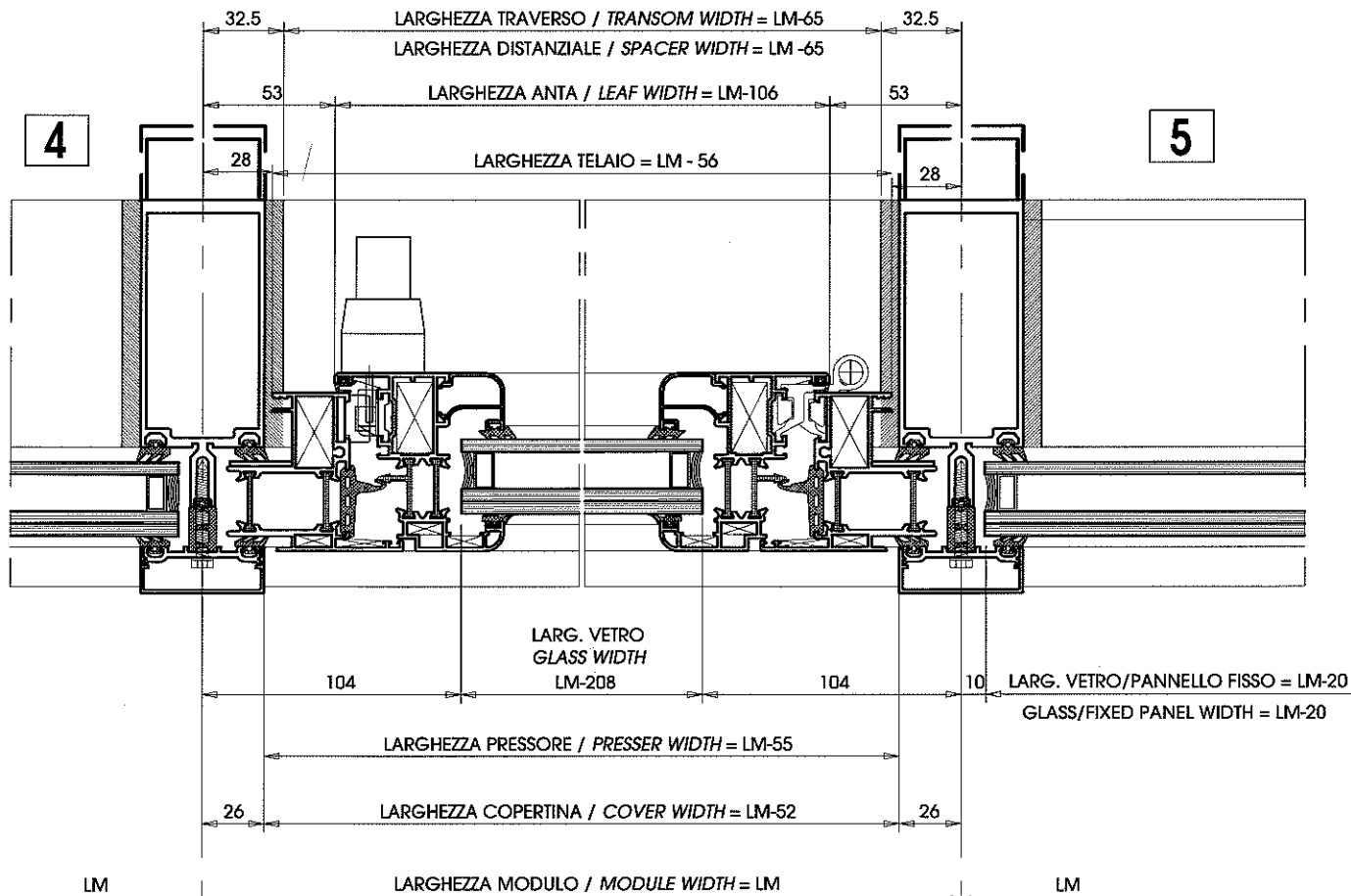
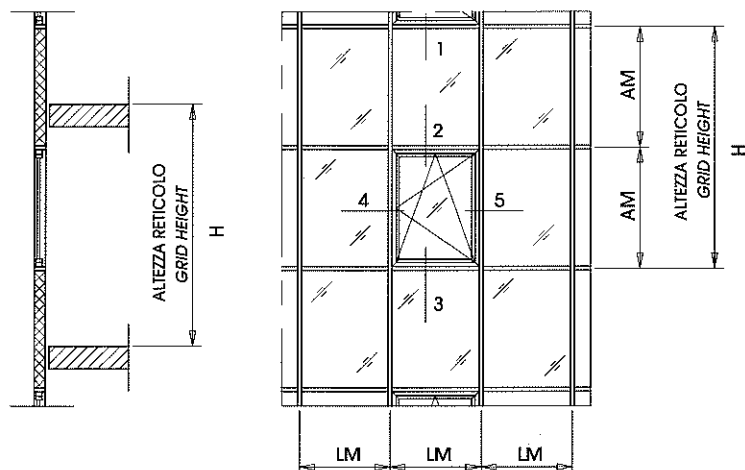
* FOR TOOLING SEE INSTRUCTIONS IN THE KIT

GUARNIZIONI / GASKETS

126-2666	GUARN. DI BATTUTA RABBIT GASKET	2LM + 2AM
126-2178	GUARN. VETRO EST. DA MM 2.5 EXTERNAL GLASS GASKET OF 2.5 MM.	2LM + 2AM
126-2194	GUARN. VETRO INT. DA 4 mm. INTERNAL GLASS GASKET OF 4 MM.	2LM + 2AM
126-2284	GUARN. DI APPOGGIO TELAI FRAME SUPPORTING GASKET	1LM
126-2292	GUARN. DI TENUTA WEATHER STRIP	2LM + 2AM
126-4123	ANGOLO VULCANIZZATO VULCANISED ANGLE	N° 4 Pz

ACCESSORI - ACCESSORIES

105-0409	SQUADRETTA A SCATTO SNAP CORNER JOINT	N° 8 Pz
153-3573	SQUADRETTA ESTERNA EXTERNAL CORNER JOINT	N° 8 Pz
126-6137	SQUADRETTA ALLIN. TO TELAI FRAME ALIGNING CORNER JOINT	N° 4 Pz
126-6312	SQUADRETTA ALLIN. TO INTERNA INTERNAL CORNER JOINT	N° 4 Pz
105-2004	SQUADRETTA ALLIN. TO ANTA LEAF ALIGNING CORNER JOINT	N° 4 Pz
100-4701	KIT BASE ANTA/RIBALTA TILT/TURN BASIC KIT	N° 1 Conf
100-1090	CREMONESE "EURO" "EURO" CREMONE BOLT	N° 1 Pz
100-4341	BRACCIO MEDIO TIPO 2 MEDIUM ARM TYPE 2	N° 1 Pz
100-4641	CHIUSURA SUPPL. VERTICALE ADDITIONAL VERTICAL LOCK	N° 1 Pz
100-4641	CHIUSURA SUPPL. ORIZZONTALE ADDITIONAL HORIZONTAL LOCK	N° 1 Pz
100-2328	CAPPETTA SCARICO ACQUA CAP FOR WATER DRAINAGE	N° 2 Pz



RETICOLO DI FACCIATA WALLING GRID

PROFILI / PROFILES

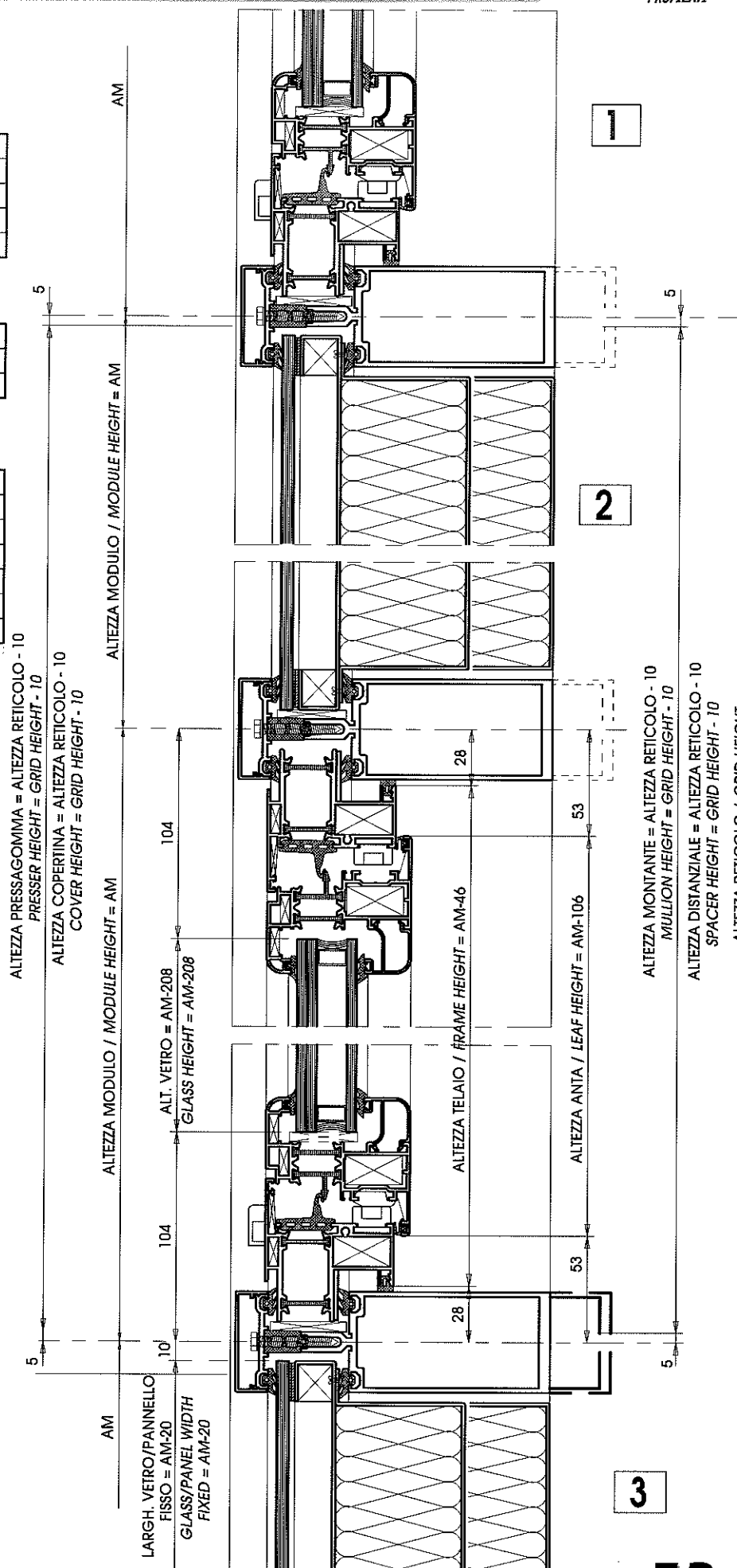
4160	MONTANTE DA MM. 100 MULLION OF 100 MM.	1H
4160	TRAVERSO DA MM. 100 TRANSOM OF 100 MM.	2LM
4161	PRESSORE PRESSER	2LM + 1H
4162	COPERTINA COVER	2LM
6086	COPERTINA COVER	1H

GUARNIZIONI / GASKETS

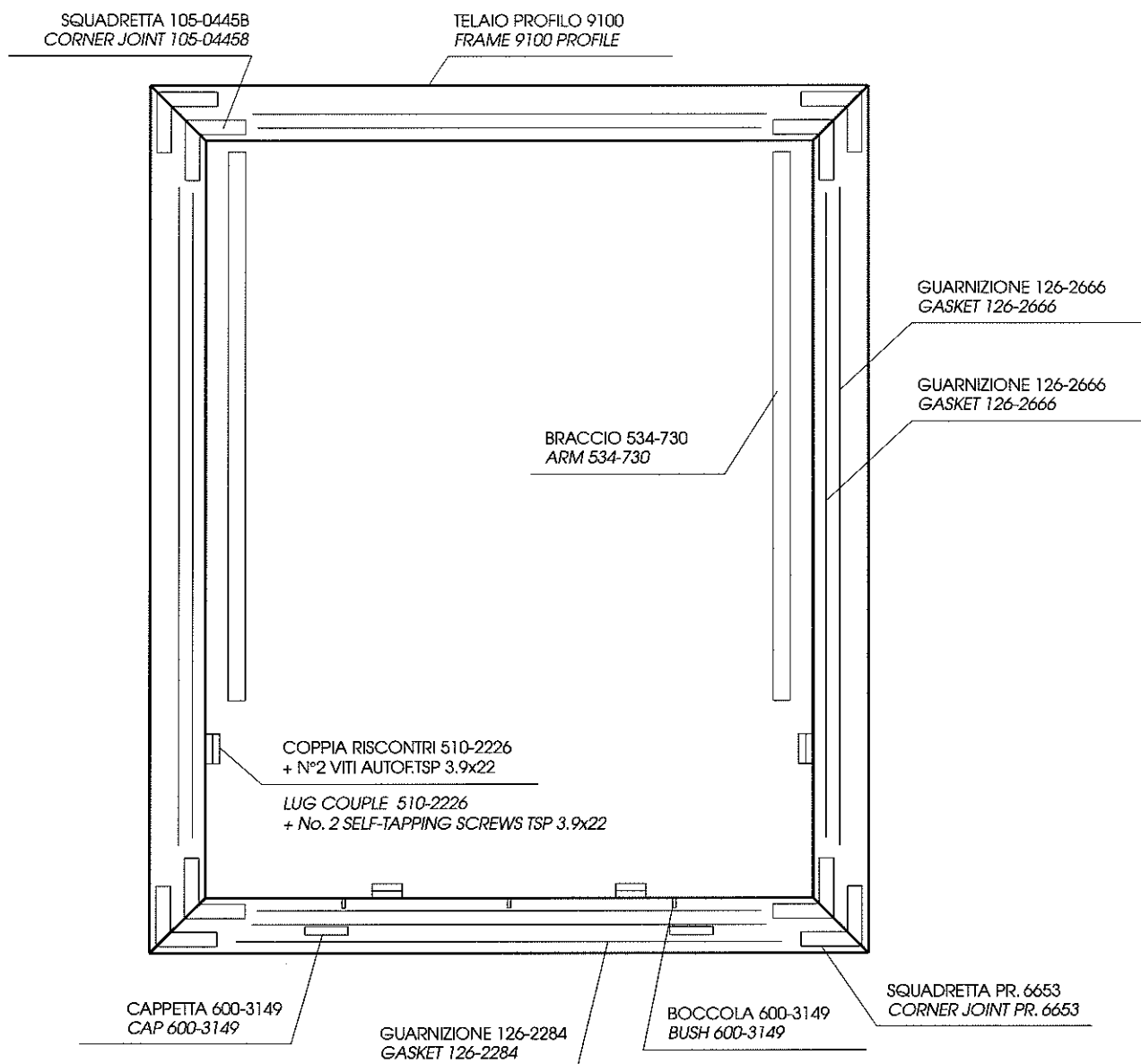
526-2876	GUARN. DISTANZIALE MM. 18 SPACING GASKET 18 MM.	2LM + 1H
526-811.4	GUARN. DI VETRAZIONE MM. 4 GLASS BEADING GASKET 4 MM.	4LM + 2H
526-812.4	GUARN. DI VETRAZIONE MM. 6 GLASS BEADING GASKET 6 MM.	4LM + 2H

ACCESSORI - ACCESSORIES

535-054.0	CAVALLOTTO FISSO MM. 100 FIXED BOLT 100 MM.	N° 2 Pz
535-055.0	CAVALLOTTO MOBILE MM. 100 MOBILE BOLT 100 MM.	N° 2 Pz
535-061.0	CANNOITO DA MM. 100 TUBE OF 100 MM.	N° 1 Pz
535-065.0	STAFFA DI FISSAGGIO FASTENING BRACKET	N° 1 Pz
535-070.4	TAPPI DI TENUTA ACQUA WATER-TIGHT PLUGS	N° 4 Pz
535-080.0	VITI DI FISSAGGIO CLAMPING SCREWS	N° 23 Pz
535-080.1	RONDELLE IN NYLON NYLON WASHERS	N° 23 Pz



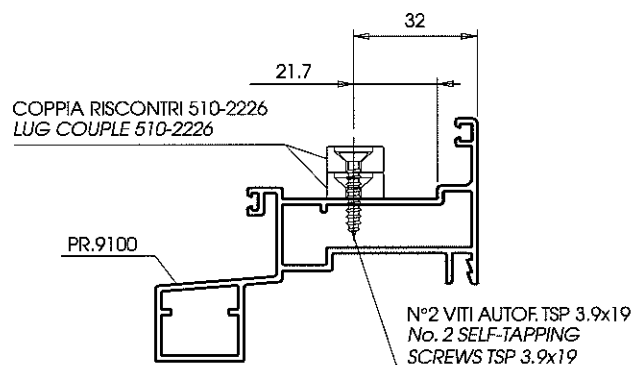
SCHEMA APERTURA A SPORGERE - TELAIO 9100: accessori e guarnizioni AWNING WINDOW - FRAME 9100: accessories and gaskets



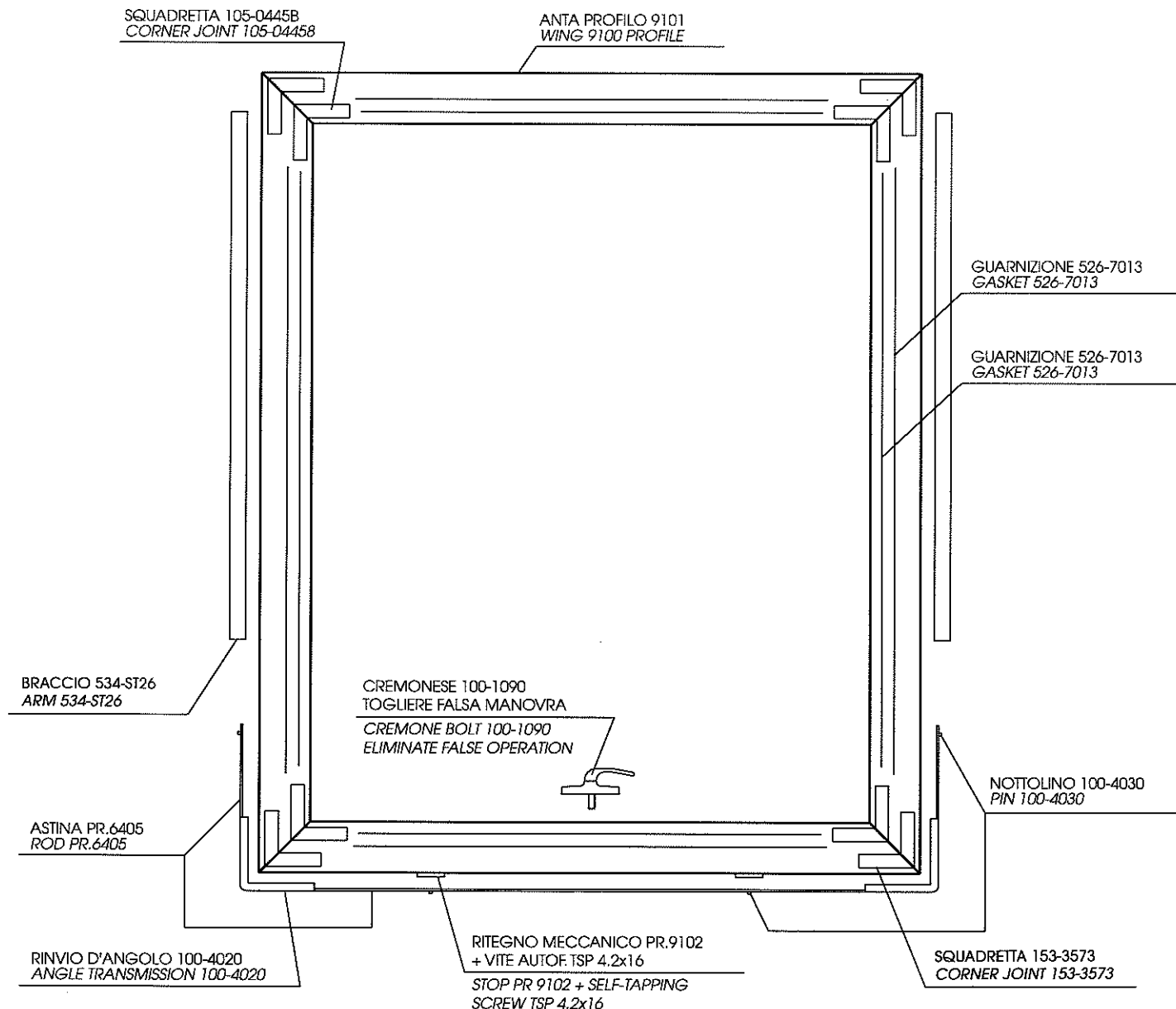
RIEPILOGO QUANTITA` / QUANTITY SUMMARY

POSIZIONAMENTO RISCONTRI / LUG POSITIONING

SQUADRETTA 105-0445B	→	N°4 Pz.
CORNER JOINT 105-0445B	→	No. 4 Pcs.
SQUADRETTA PR. 6653	→	N°4 Pz.
CORNER JOINT 6653	→	No. 4 Pcs.
GUARNIZIONE 126-2284	→	1L
GASKET 126-2284	→	1L
GUARNIZIONE 126-2666	→	4H + 4L
GASKET 126-2666	→	4H + 4L
RISCONTRO 510-2226	→	N°8 Pz.
LUG 510-2226	→	No. 8 Pcs.
VITE AUTOF. TSP 3.9x22	→	N° 8 Pz.
SELF-TAPPING SCREW TSP 3.9x22	→	No. 8 Pcs.
CAPPETTA + BOCCOLA 600-314	→	N°2 Conf.
CAP + BUSH 600-3149	→	2 Packets



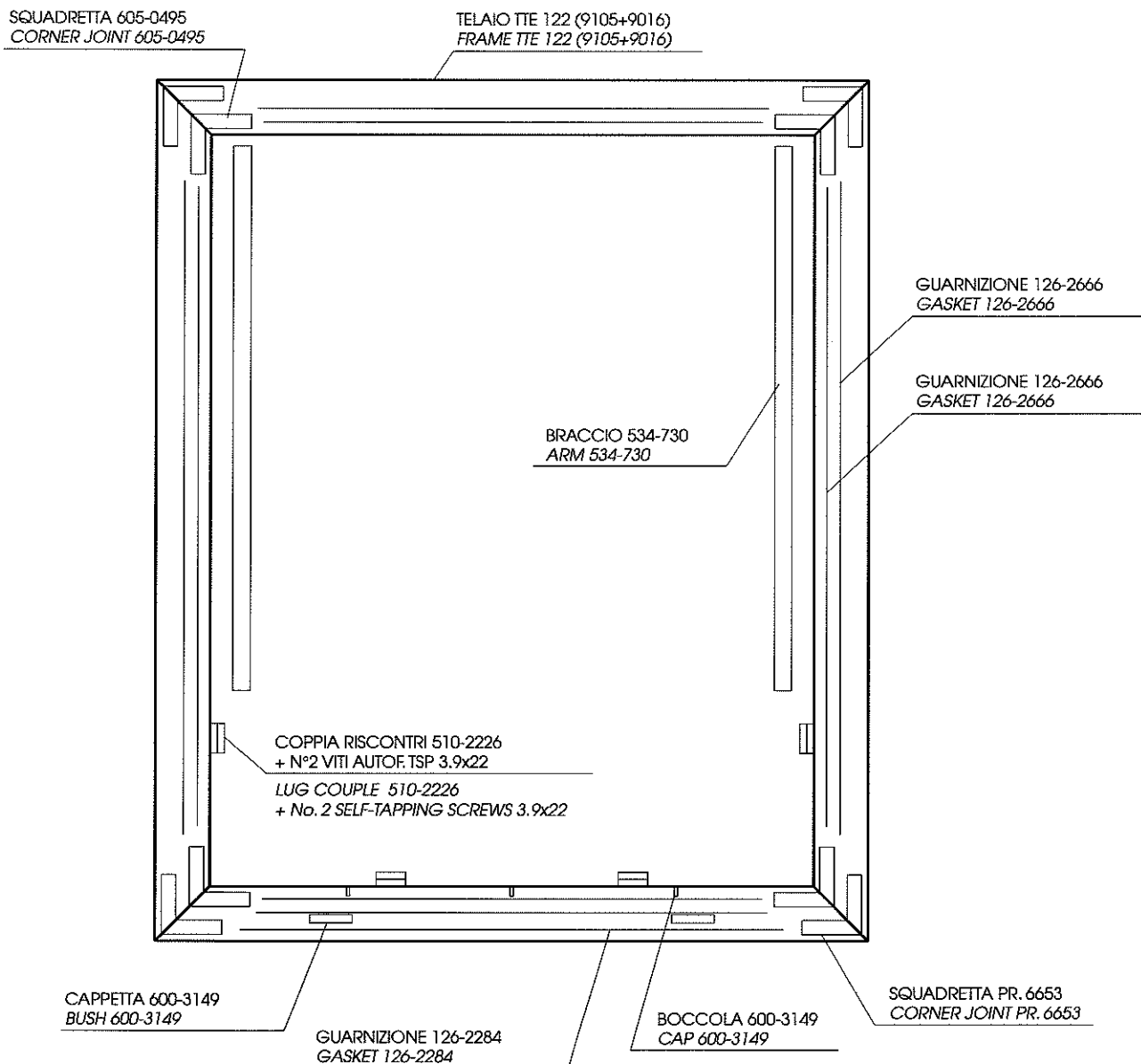
SCHEMA APERTURA A SPORGERE - ANTA 9101: accessori e guarnizioni AWNING WINDOW - LEAF 9101: accessories and gaskets



RIEPILOGO QUANTITA' / QUANTITY SUMMARY

SQUADRETTA 105-0445B	→	N°4 Pz.	NOTTOLINO 100-4030	→	N° 4 Pz.
CORNER JOINT 105-0445B	→	No. 4 Pcs.	PIN 100-4030	→	No. 4 Pcs.
SQUADRETTA 153-3573	→	N°4 Pz.	ASTINA PR.6405	→	1L + 1/4H
CORNER JOINT 153-3573	→	No. 4 Pcs.	ROD PR. 6405	→	1L + 1/4H
GUARNIZIONE 526-7013	→	4H + 4L	CREMONESE 100-1090	→	N°1 Pz.
GASKET 526-7013	→	4H + 4L	CREMONE BOLT 100-1090	→	No. 1 Pz.
BRACCIO 534-ST26	→	N°1 Coppia	RITEGNO MECCANICO PR.9102	→	N°2 Pz.
ARM 534-ST26	→	No. 1 Couple	STOP PR. 9102	→	No. 2 Pcs.
RINZIO D'ANGOLO 100-4020	→	N°2 Pz.	VITE AUTOF. TSP 4.2x16	→	N°2 Pz.
ANGLE TRANSMISSION 100-4020	→	No. 2 Pcs.	SELF-TAPPING SCREW TSP 4.2x16	→	No. 2 Pcs.

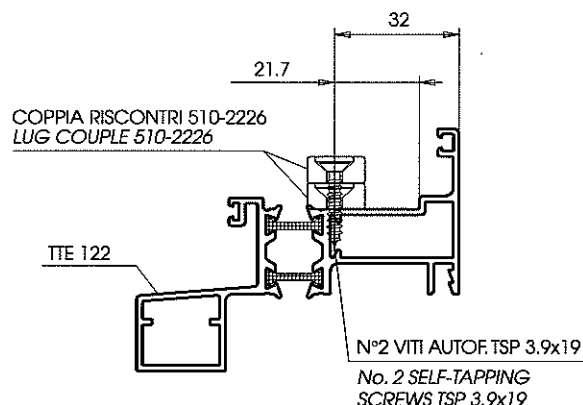
SCHEMA APERTURA A SPORGERE - TELAIO TTE 122: accessori e guarnizioni AWNING WINDOW SCHEME - FRAME TTE 122: accessories and gaskets



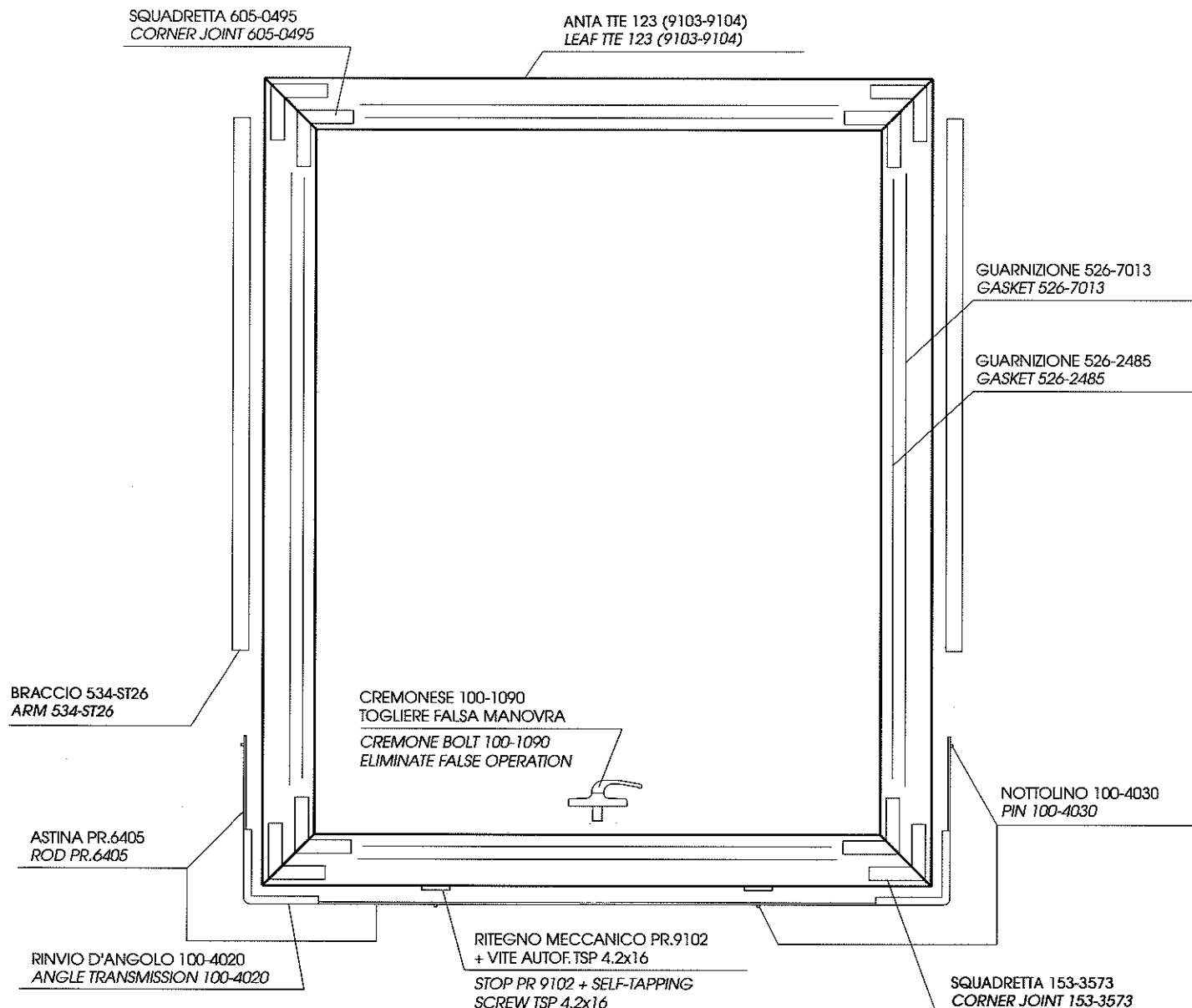
RIEPILOGO QUANTITA' / QUANTITY SUMMARY

SQUADRETTA 605-0495	→	N°4 Pz.
CORNER JOINT 605-0495	→	No. 4 Pcs.
SQUADRETTA PR. 6653	→	N°4 Pz.
SCORNER JOINT PR. 6653	→	No. 4 Pcs.
GUARNIZIONE 126-2284	→	1L
GASKET 126-2284	→	1L
GUARNIZIONE 126-2666	→	4H + 4L
GASKET 126-2666	→	4H + 4L
RISCONTRO 510-2226	→	N°8 Pz.
LUG 510-2226	→	No. 8 Pcs.
VITE AUTOF. TSP 3.9x22	→	N° 8 Pz.
ELF-TAPPING SCREW TSP 3.9x22	→	No. 8 Pcs.
CAPPETTA + BOCCOLA 600-3149	→	N°2 Conf.
CAP + BUSH 600-3149	→	2 Packets

POSIZIONAMENTO RISCONTRI / LUG POSITIONING



SCHEMA APERTURA A SPORGERE - ANTA TTE 123: accessori e guarnizioni AWNING WINDOW SCHEME - LEAF TTE 123: accessories and gaskets



RIEPILOGO QUANTITA' / QUANTITY SUMMARY

SQUADRETTA 605-0495 —————> N°4 Pz.
CORNER JOINT 605-0495 —————> No. 4 Pcs.

SQUADRETTA 153-3573 —————> N°4 Pz.
CORNER JOINT 153-3573 —————> No. 4 Pcs.

GUARNIZIONE 526-7013 —————> 2H + 2L
GASKET 526-7013 —————> 2H + 2L
GUARNIZIONE 526-2485 —————> 2H + 2L
GASKET 526-2485 —————> 2H + 2L

BRACCIO 534-ST26 —————> N°1 Coppia
ARM 534-ST26 —————> N°1 Couple

RINVIO D'ANGOLO 100-4020 —————> N°2 Pz.
ANGLE TRANSMISSION 100-4020 —————> No. 2 Pcs.

NOTTOLINO 100-4030 —————> N°4 Pz.
PIN 100-4030 —————> No. 4 Pcs.

ASTINA PR.6405 —————> 1L + 1/4H
ROD PR.6405 —————> 1L + 1/4H

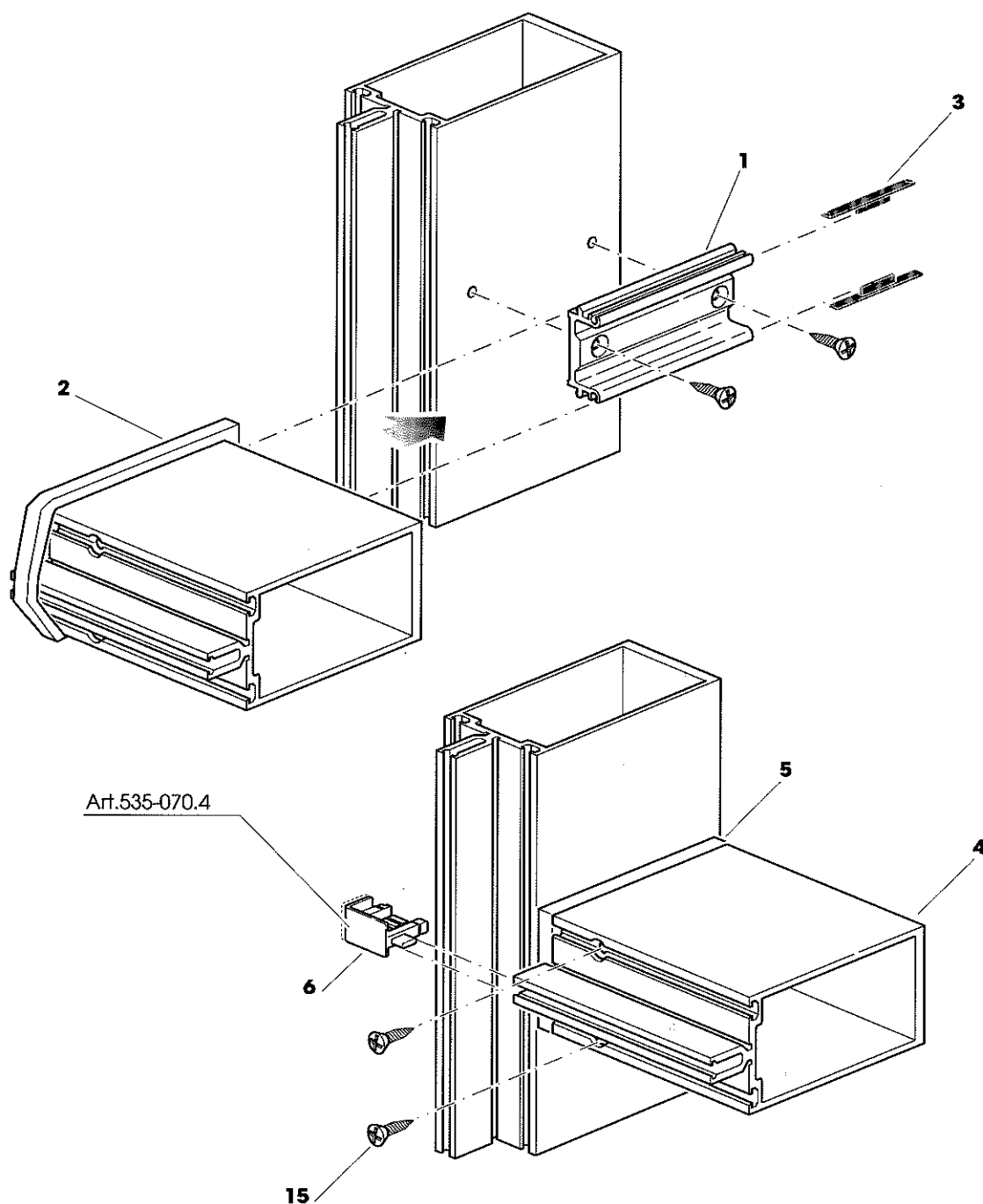
CREMONESE 100-1090 —————> N°1 Pz.
CREMONE BOLT 100-1090 —————> No. 1 Pc.

RITEGNO MECCANICO PR.9102 —————> N°2 Pz.
STOP PR.9102 —————> No. 2 Pcs.

VITE AUTOF. TSP 4.2x16 —————> N°2 Pz.
SELF-TAPPING SCREW TSP 4.2x16 —————> No. 2 Pcs.

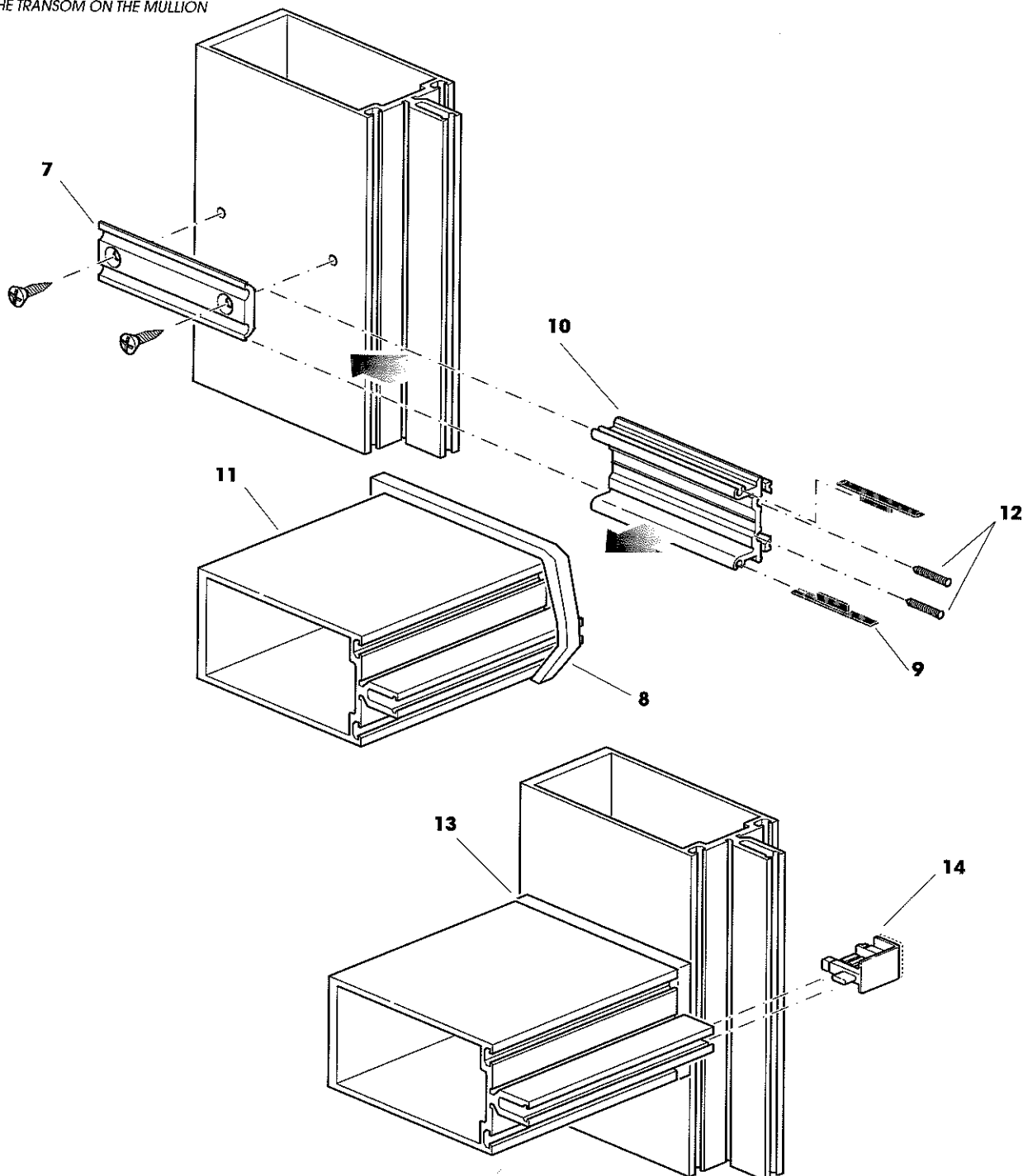
MONTAGGIO CAVALLOTTO FISSO FIXED BOLT ASSEMBLY FOR "T-JOINT"

- 1 - FISSARE IL CAVALLOTTO FISSO AL MONTANTE
FASTEN THE FIXED BOLT TO THE MULLION
- 2 - POSIZIONARE LA GUARNIZIONE SUL TRAVERSO
PLACE THE GASKET ON THE TRANSOM
- 3 - INSERIRE I TAPPI FRIZIONE SUL CAVALLOTTO
PLACE THE FRICTION PLUGS ON THE BOLT
- 4 - INSERIRE IL TRAVERSO SUL MONTANTE
PUT THE TRANSOM ON THE MULLION
- 5 - POSIZIONARE LA GUARNIZIONE
POSITION THE GASKET
- 6 - METTERE IL TAPPO DI UNIONE (Art. 535-070.4) TRA MONTANTE E TRAVERSO E SIGILLARLO CON ADESIVO A BASE DI RESINA POLIURETANICA MONOCOMPONENTE
PLACE THE CONNECTION PLUG (item 535-070.4) BETWEEN MULLION AND TRANSOM AND SEAL IT WITH SINGLE-COMPONENT POLYURETHANE RESIN-BASED ADHESIVE

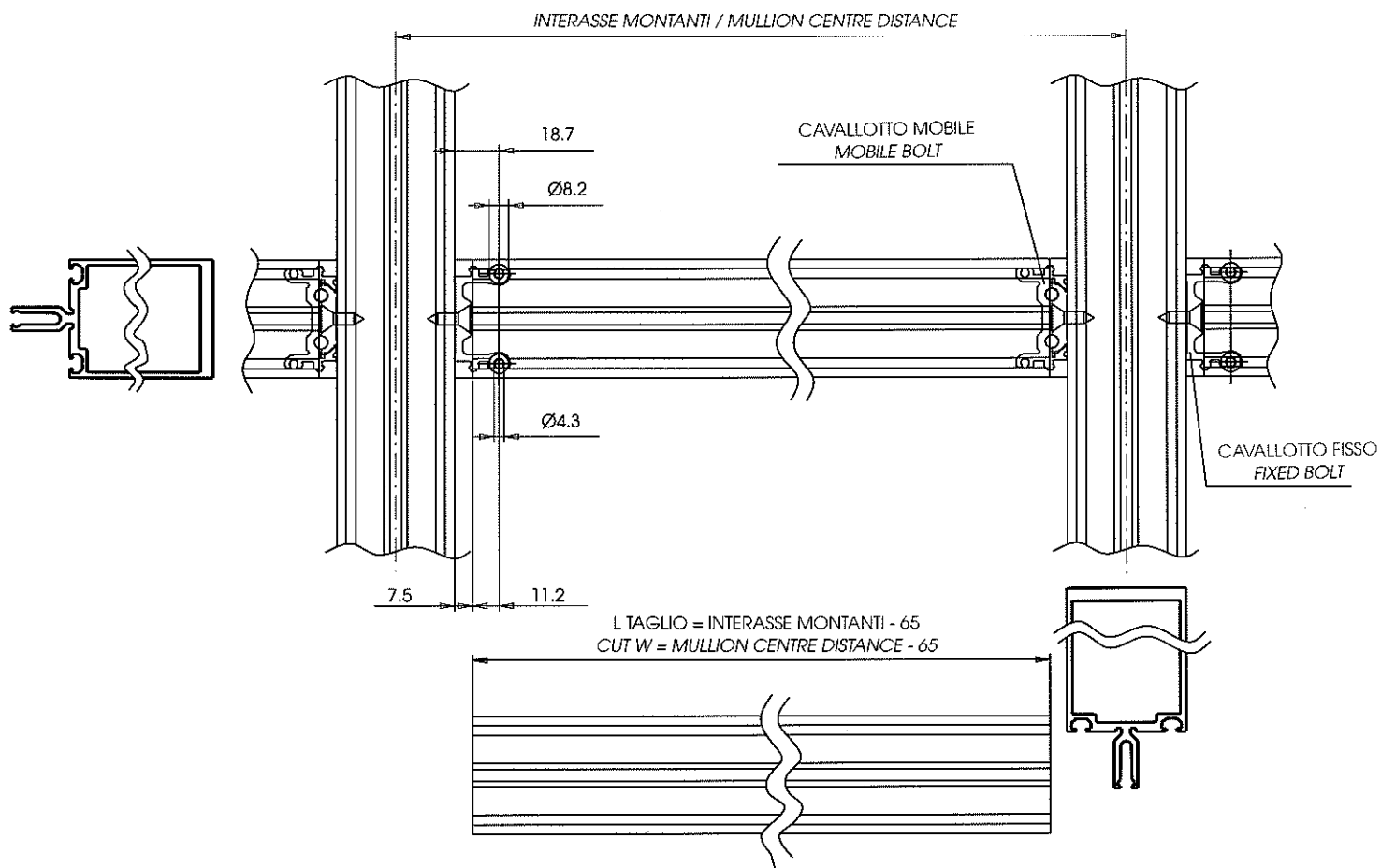


MONTAGGIO CAVALLOTTO MOBILE MOBILE BOLT ASSEMBLY FOR "T-JOINT"

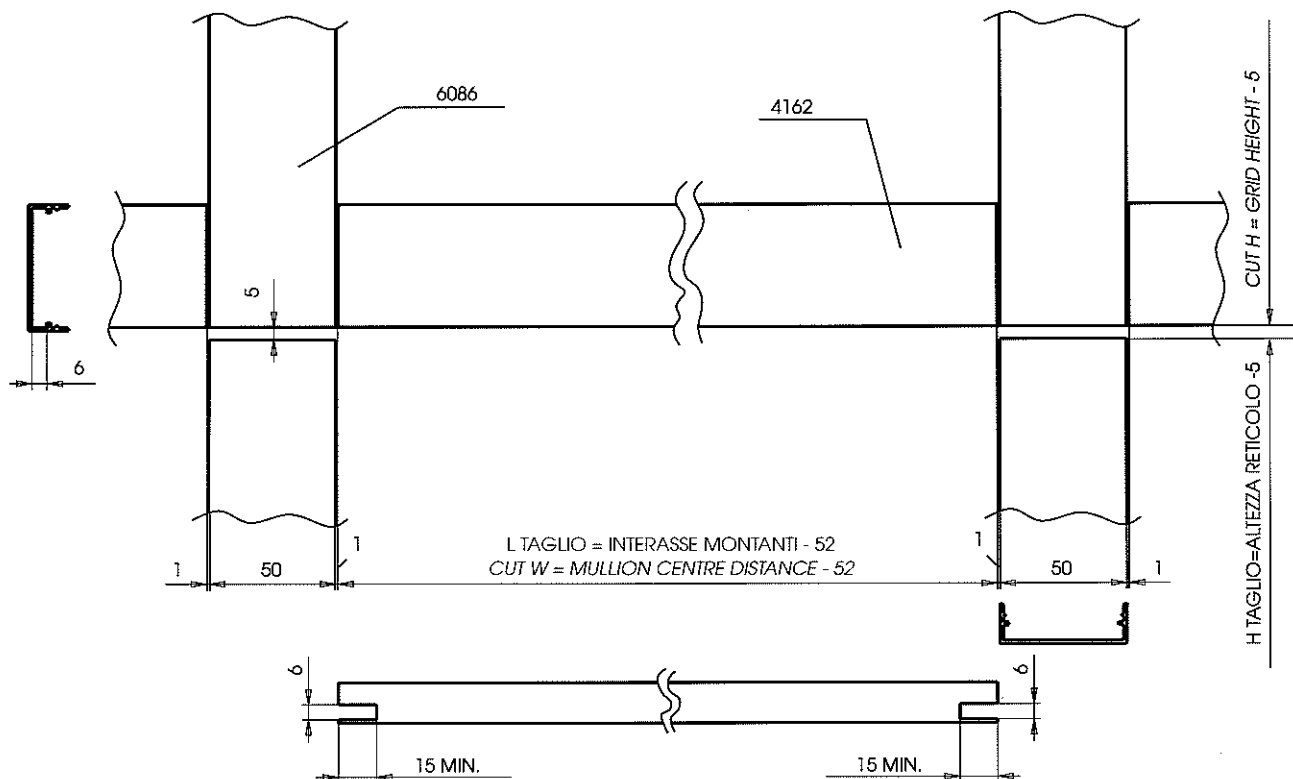
- 7 - FISSARE LA PARTE SEMI-FISSA DEL CAVALLOTTO FISSO SUL MONTANTE
FASTEN THE SEMI-FIXED OF THE BOLT TO THE MULLION
- 8 - POSIZIONARE LA GUARNIZIONE SUL TRAVERSO
PLACE THE GASKET ON THE TRANSOM
- 9 - INSERIRE I TAPPI FRIZIONE SUL CAVALLOTTO
PLACE THE FRICTION PLUGS ON THE BOLT
- 10 - INSERIRE LA SEMI-PARTE MOBILE DEL CAVALLOTTO NEL TRAVERSO
PLACE THE MOBILE SEMI-PART OF THE BOLT IN THE TRANSOM
- 11 - INSERIRE IL TRAVERSO SUL MONTANTE
PUT THE TRANSOM ON THE MULLION
- 12 - FISSARE LA SEMI-PARTE MOBILE DEL CAVALLOTTO TRAMITE I GRANDI DI BLOCCAGGIO
FASTEN THE MOBILE SEMI-PART OF THE BOLT WITH SECURITY DOWELS
- 13 - POSIZIONARE LA GUARNIZIONE
PLACE THE GASKET
- 14 - METTERE IL TAPPO DI UNIONE (Art. 535-070.4) TRA MONTANTE E TRAVERSO E SIGILLARLO CON ADESIVO A BASE DI RESINA POLIURETANICA MONOCOMPONENTE
PLACE THE CONNECTION PLUG (Item 535-070.4) BETWEEN MULLION AND TRANSOM AND SEAL IT WITH SINGLE-COMPONENT POLYURETHANE RESIN-BASED ADHESIVE
- 15 - FISSARE CON LE VITI IL TRAVERSO AL CAVALLOTTO FISSO (Vedi pag. precedente)
FASTEN THE TRANSOM TO THE FIXED BOLT WITH THE SCREWS (see previous page)



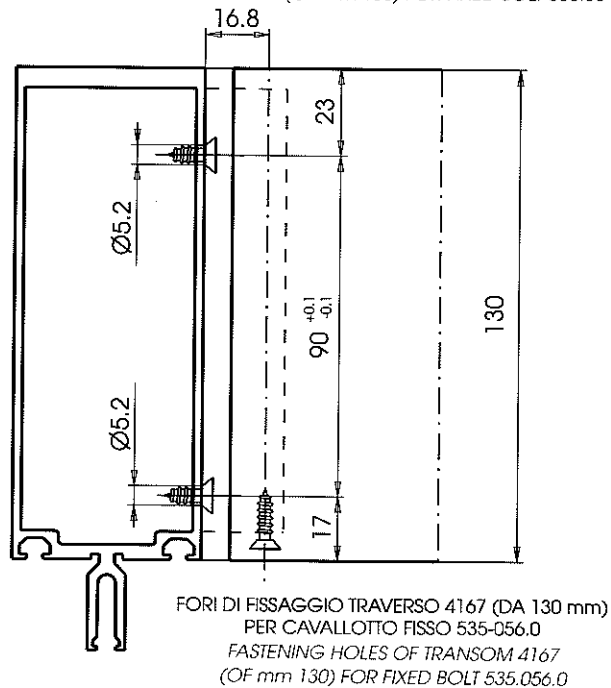
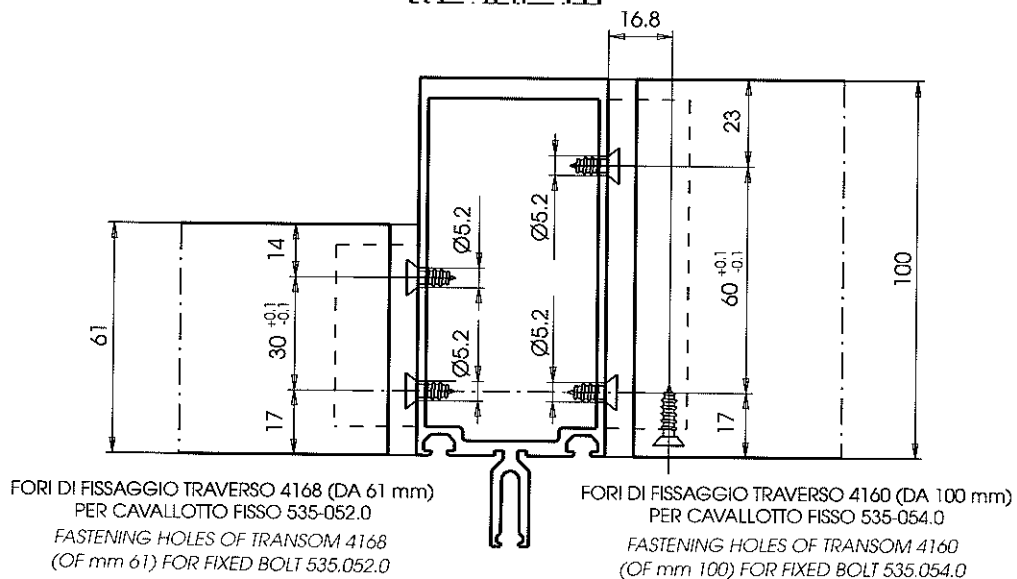
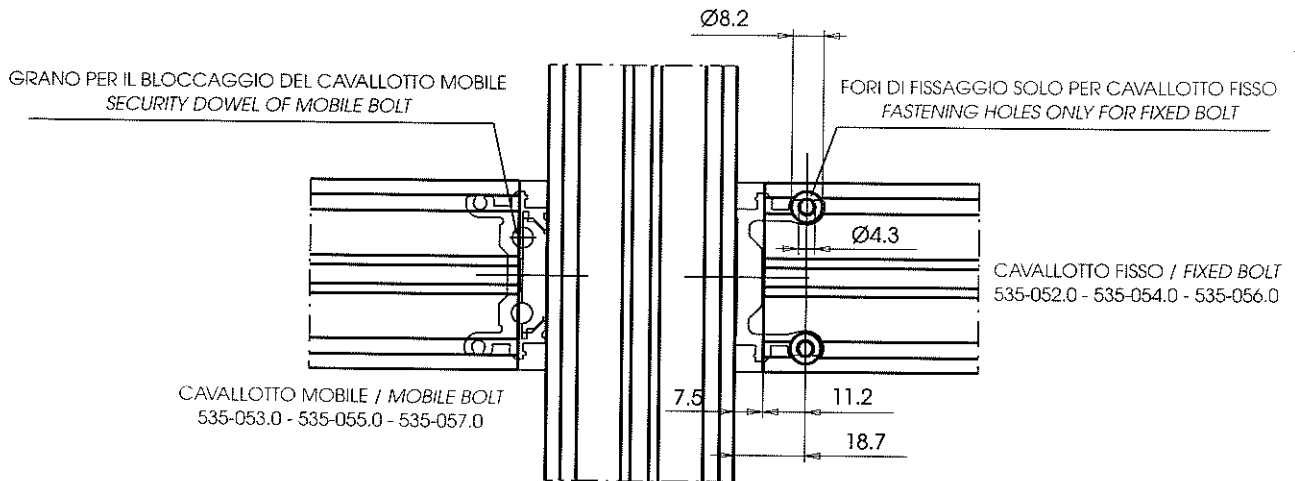
TAGLIO DEL TRAVERSO / TRANSOM CUT



TAGLIO E LAVORAZIONE DELLA COPERTINA A SCATTO / CUTTING AND TOOLING OF SNAP TYPE COVER



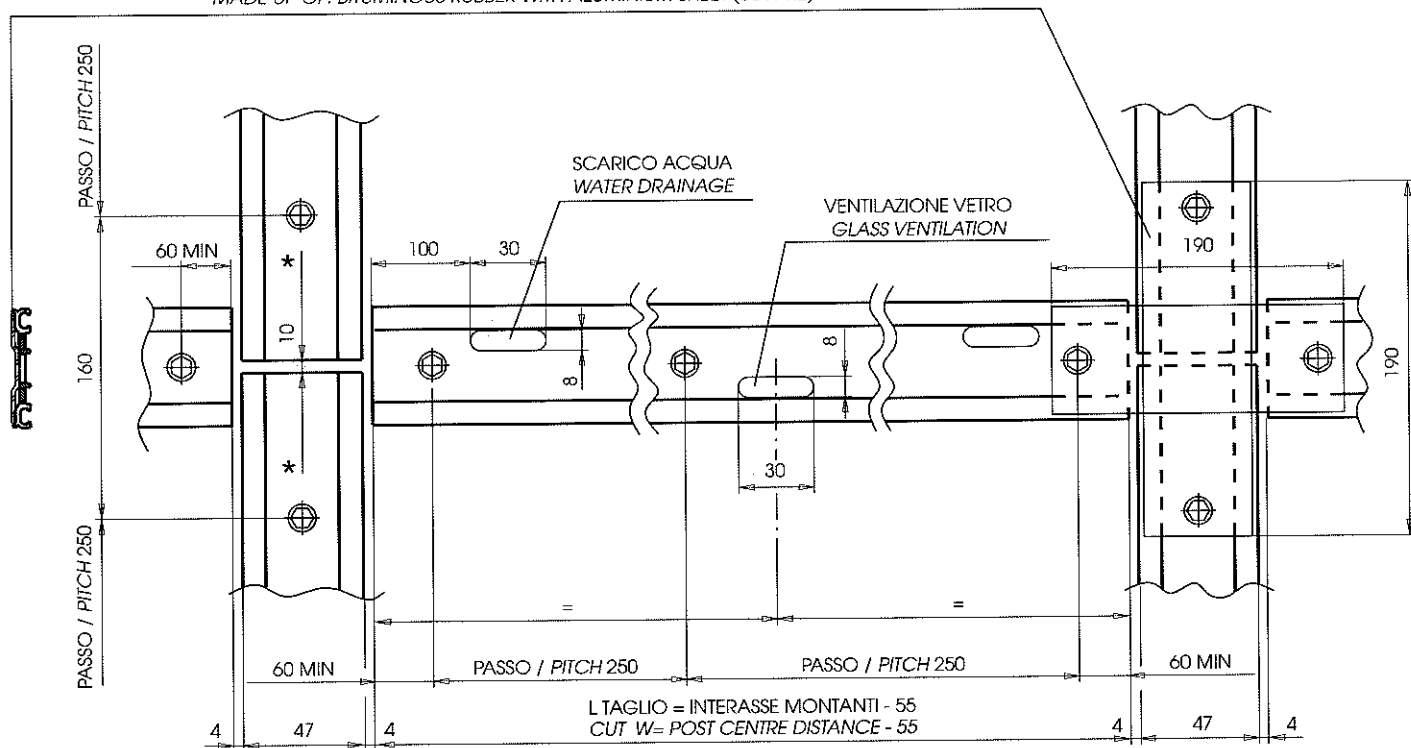
MONTAGGIO CAVALLOTTI FISSI E MOBILI FIXED AND MOBILE BOLT ASSEMBLY FOR "T-JOINT"



TAGLIO, LAVORAZIONE E SIGILLATURA DEL PRESSORE 4161 CUTTING, WORKING AND SEALING OF PRESSER 4161

SIGILLATURA MEDIANTE NASTRO AUTOADESIVO A FREDDO ALU-BITUTAPE
FORMATO DA: GOMMA BITUMINOSA CON FOGLIO DI ALLUMINIO (50 x 1.2)

SEALING WITH ALU-BITUTAPE COLD PRESSURE SENSITIVE ADHESIVE TAPE
MADE UP OF: BITUMINOUS RUBBER WITH ALUMINIUM SHEET (50 X 1.2)



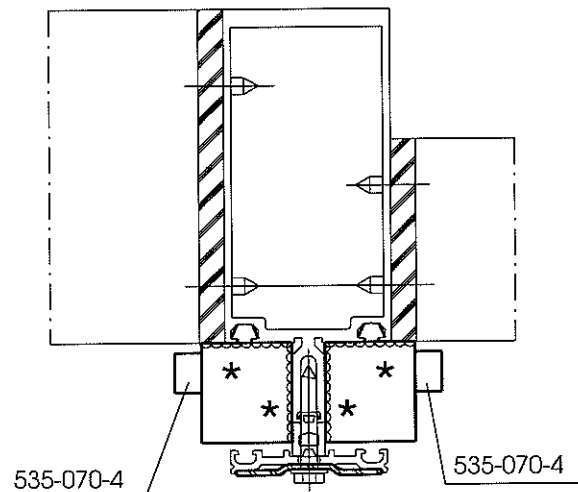
* H TAGLIO = ALTEZZA RETICOLO - 10

* CUT H = GRID HEIGHT - 10

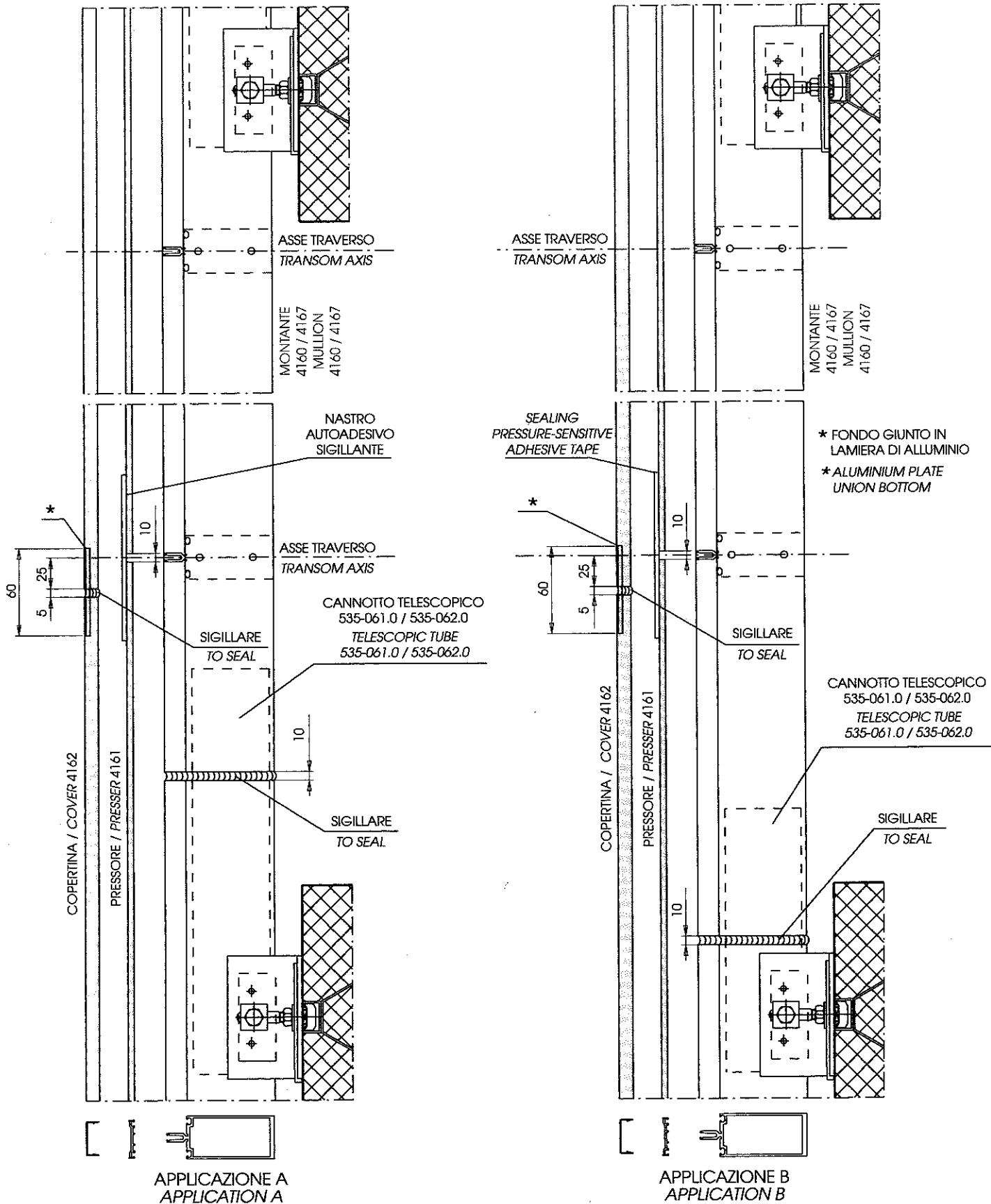
APPLICAZIONE E SIGILLATURA TAPPO ACCOPPIAMENTO MONTANTI-TRAVERSI PLACING AND SEALING OF POST-TRANSOM COUPLING PLUG

* LATI DA SIGILLARE
MEDIANTE L' IMPIEGO
DI ADESIVO SIGILLANTE
A BASE DI RESINA POLIURETANICA
MONOCOMPONENTE

* SIDES TO SEAL USING A
SINGLE-COMPONENT
POLYURETHANE
RESIN-BASED SEALING

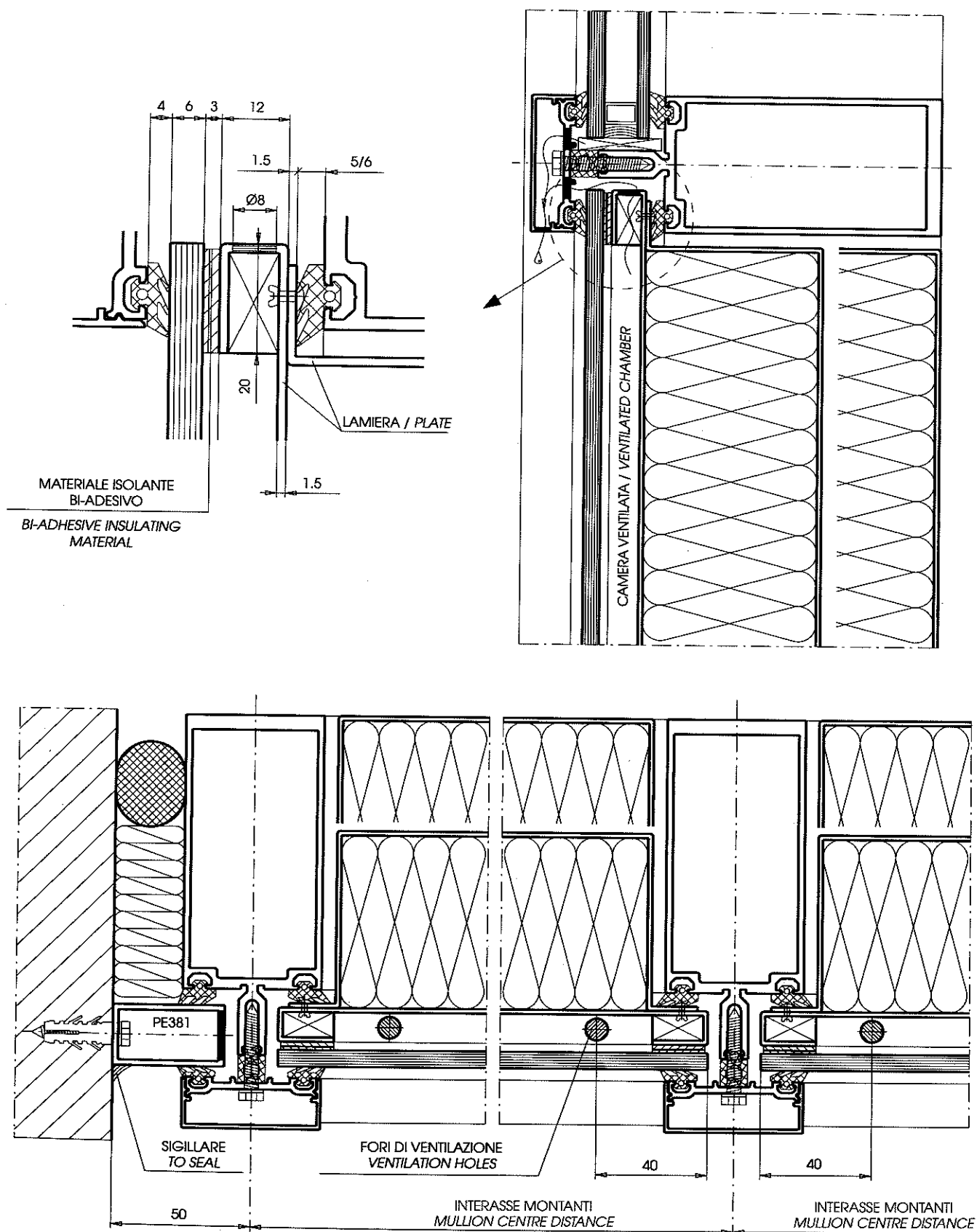


ESEMPI DI SCHEMI MONTAGGIO STAFFE EXAMPLES OF BRACKET ASSEMBLING SCHEMES

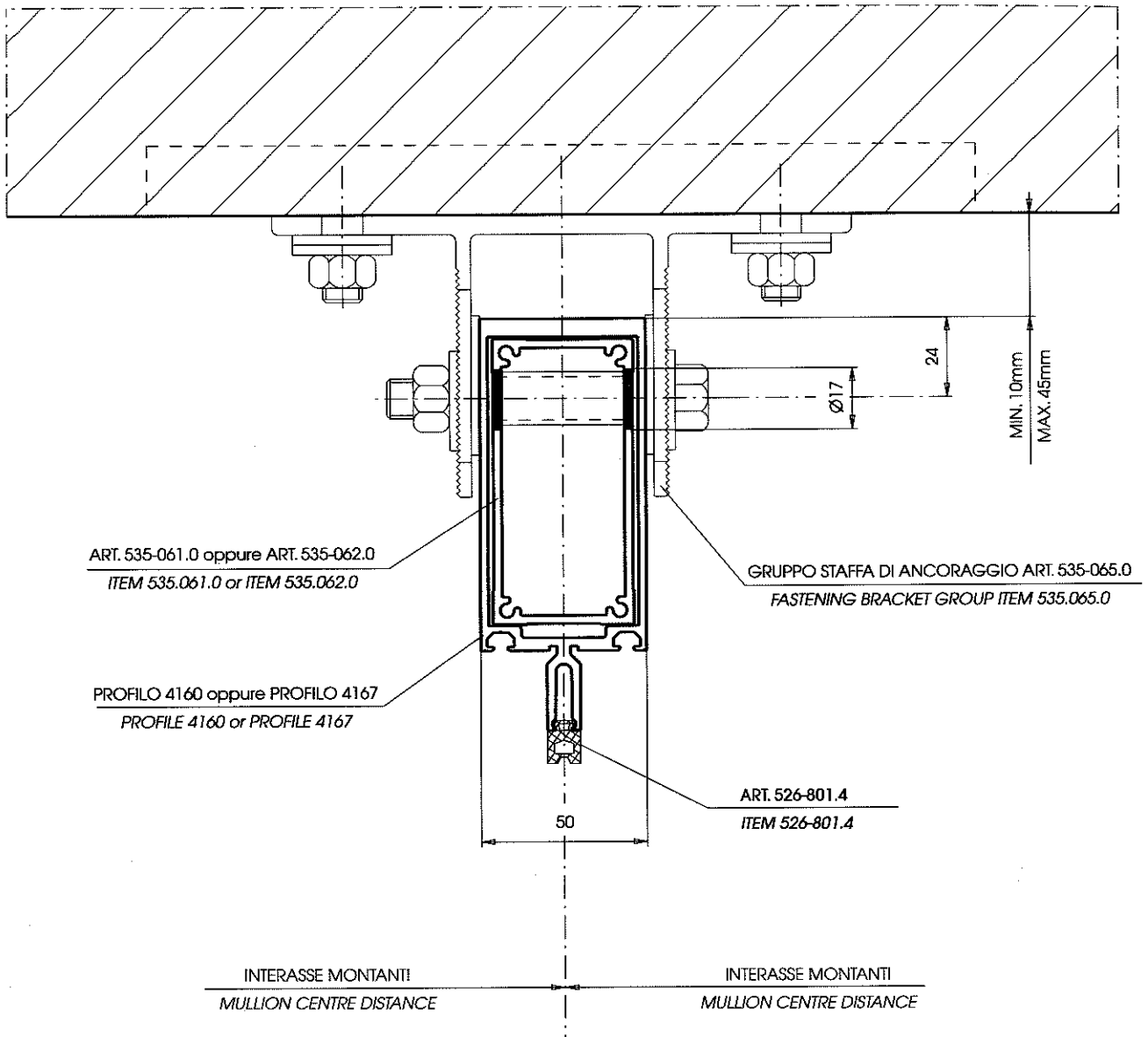


LAVORAZIONI E MONTAGGI PANNELLI

PANEL TOOLING AND ASSEMBLY



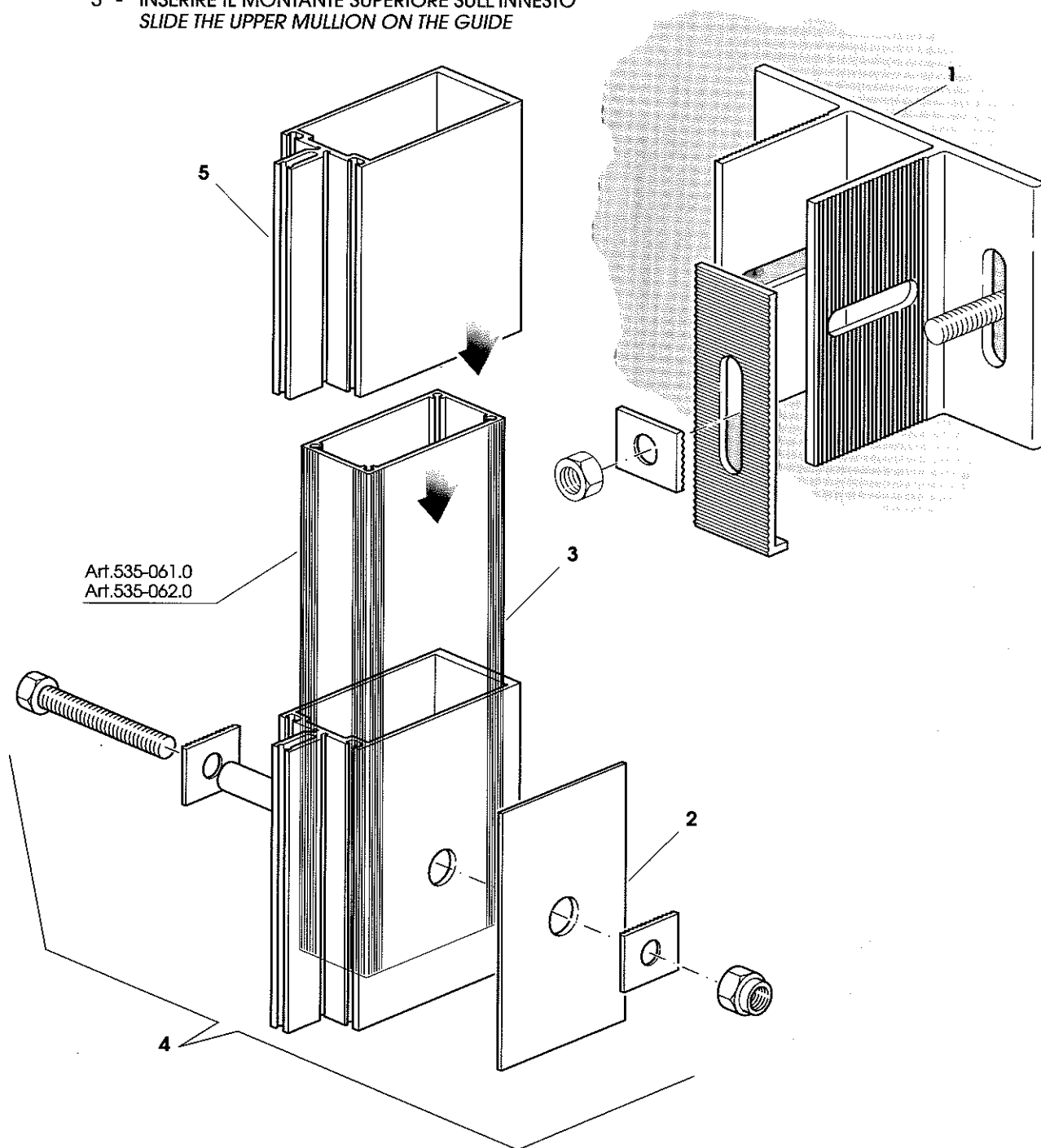
SEZIONE ORIZZONTALE ANCORAGGIO ALLA STRUTTURA MURARIA HORIZONTAL SECTION FASTENING TO THE WALL STRUCTURE



MONTAGGIO STAFFE DI ANCORAGGIO (Art. 535-065.0)

FASTENING BRACKET ASSEMBLY (item 535.065.0)

- 1 - FISSARE LE STAFFE SULLA STRUTTURA MURARIA E POSIZIONARE A PIOMBO
FIX THE BRACKETS TO THE WALL AND PLUMB THEM
- 2 - APPLICARE LE PIASTRE AUTOADESIVE SUL MONTANTE
PUT THE PRESSURE-SENSITIVE ADHESIVE PLATES ON THE MULLION
- 3 - INSERIRE CANNOTTO (cod. 535-061.0 oppure 535-062.0) PER GIUNTO DI DILATAZIONE MONTANTE
PLACE THE TUBE (code 535-061.0 or 535-062.0) FOR MULLION EXPANSION JOINT
- 4 - INSERIRE MONTANTE, DISTANZIALE E BULLONE NELLA STAFFA
PLACE MULLION, SPACER AND BOLT IN THE BRACKET
- 5 - INSERIRE IL MONTANTE SUPERIORE SULL'INNESTO
SLIDE THE UPPER MULLION ON THE GUIDE



- 6 - BLOCCARE IL MONTANTE SULLA STAFFA E POSIZIONARLO A PIOMBO
BLOCK THE MULLION ON THE BRACKET AND PLUMB IT
- 7 - SIGILLARE LA GIUNZIONE TRA I MONTANTI CON SIGILLANTE SILICONICO
SEAL THE UNION BETWEEN THE MULLION WITH SILICONE SEALANT

