

sapa:

WIN | 140sa^{TT}
SYSTEM

Finestre e porte scorrevoli alzante a taglio termico
thermal break lift-slide windows and doors

I Profilati:

Estrusi in lega di alluminio primario da lavorazione plastica EN AW 6060 UNI-EN 573-3 sottoposti ad un processo di trattamento termico applicato secondo Normativa UNI EN 755-2 (bonifica con tempra in aria alla pressa, seguita da invecchiamento artificiale) per ottenere lo stato T5.
Per dettagli tecnici vedere pagina F1-140sa-A.04

Trattamenti superficiali:

I trattamenti superficiali di ossidazione anodica, elettrocolorazione e di verniciatura eseguiti negli impianti di proprietà Sapa, sono nel rispetto di quanto previsto dalle normative richieste dai marchi Qualanod (per ossidazione) e Qualicoat (per la verniciatura).

Vetratura:

La scelta ed il tipo di vetro sarà in funzione del suo campo di impiego, per il montaggio attenersi scrupolosamente alle prescrizioni dei produttori.
Il Sistema consente l'inserimento di vetri aventi spessori da 4 a 20 mm per Win 65; da 4 a 29 mm per Win 90; da 16 a 25 per Win 90 vetro ad infilare; da 20 a 38 mm per Win 140sa.
Le guarnizioni di tenuta vetro sono in EPDM ed inseribili e sostituibili a serramento assemblato, studiate in vari spessori che, interpolati nel modo idoneo, garantiscono un'adeguata compressione sulla lastra di vetro.
La tassellatura sarà effettuata con appositi tasselli di regolazione e spessoramento aventi posizioni nel serramento ideali e rinforzate. Solo la completa e totale osservanza della tecnica di vetratura potrà garantire uno scatto vincolante e sicuro del fermavetro e la garanzia di durata agli sforzi di normale utenza.

Calcolo dimensioni massime serramenti:

Nel definire le misure massime dei diversi tipi di serramento, si devono considerare oltre agli elementi costruttivi dell'infisso (sezione dei profilati e loro campi d'impiego, tipo di attacco al muro, spessore e tipo del vetro), le caratteristiche di utilizzo, nonché le varianti metereologiche (esposizione dell'infisso, velocità dei venti agenti nella zona, altezza dal suolo alla quale sarà installato l'infisso, ecc.).

Consigliamo a tal fine la consultazione delle prescrizioni Uncsaal.

Attrezzature:

Le attrezzature raccomandate (Comall e Tekna) sono state appositamente progettate e realizzate per le particolari caratteristiche del sistema e per l'applicazione specifica degli accessori a catalogo.

Peso dei profilati:

I pesi indicati sono puramente indicativi (peso teorico ricavato sullo spessore nominale del profilo); Le matrici di estrusione sono soggette ad un normale processo di usura che porta il peso dell'estruso da un minimo (matrice nuova) ad un massimo (matrice usurata al limite delle tolleranze dimensionali).

NB:

Il mancato impiego, anche parziale, dei prodotti originali, esclude qualsiasi possibilità di rivalsa nei confronti di Sapa.

Al fine di migliorare i propri prodotti, Sapa si riserva la facoltà di apportare, in qualsiasi momento e senza preavviso, le modifiche che riterrà opportuno.

I dati riportati su questo catalogo sono indicativi e non impegnativi.

The sections:

These are extruded in primary aluminium alloy from EN AW 6060 UNI -EN 573-3 plastic manufacturing, subject to a thermal treatment, applied according to UNI EN 755-2 regulation (austempering through air tempering at the press, followed by artificial ageing) in order to achieve the T5 physical state.

For technical detail refer to page F1-140sa-A.04

Surface treatments:

The surface treatments of anodization, electrocoloration and painting carried out in Sapa Italy plants, respect the regulations required by the brands: Qualanod (for anodization) and Qualicoat (for painting).

Glazing:

The choice and the type of glass will depend on its final use. While assembling, it is essential to follow scrupulously the manufacturers' instructions.

With this System it is possible to insert glass with thickness of 4 to 20 mm for Win65; 4 to 29 mm Win 90; 16 to 25 mm for Win 90 glass insertion; 20 to 38 mm Win140sa.

The weatherstrips for the glass containment is in EPDM and is conceived in different thickness. If interpolated in the correct way, it assures a proper compression on the glass.

The plugging will be carried out through proper adjusting and shimming plugs, located in ideal and reinforced positions in the fastening. Only the full respect of the glazing technique will assure the proper functioning of the glass beading and will guarantee a long term resistance to the normal uses.

Window maximum dimensions:

During the definition of the maximum dimensions of the different sorts of windows, beside the structural elements of the frame (section, uses, juncture to the wall, thickness and sort of glass), the final use and the weather conditions (exposure of the window frame, speed of the wind in the area, distance from the ground where the frame will be installed, etc.) have to be taken into account.

To this purpose, we suggest to consult the Uncsaal regulations.

Equipment:

The recommended equipment (Comall and Tekna) has been planned and realized on purpose according to the particular characteristics of the system and to the specific application of the catalogue accessories.

Weight:

Any weight is shown just as an indication (theoretical weight made out of the nominal thickness of the section) The extrusion dies are subject to the natural wear and tear, therefore the section weight varies from a minimum when the dies is new, to a maximum weight when the die is at highest dimensional tolerances limits

NB:

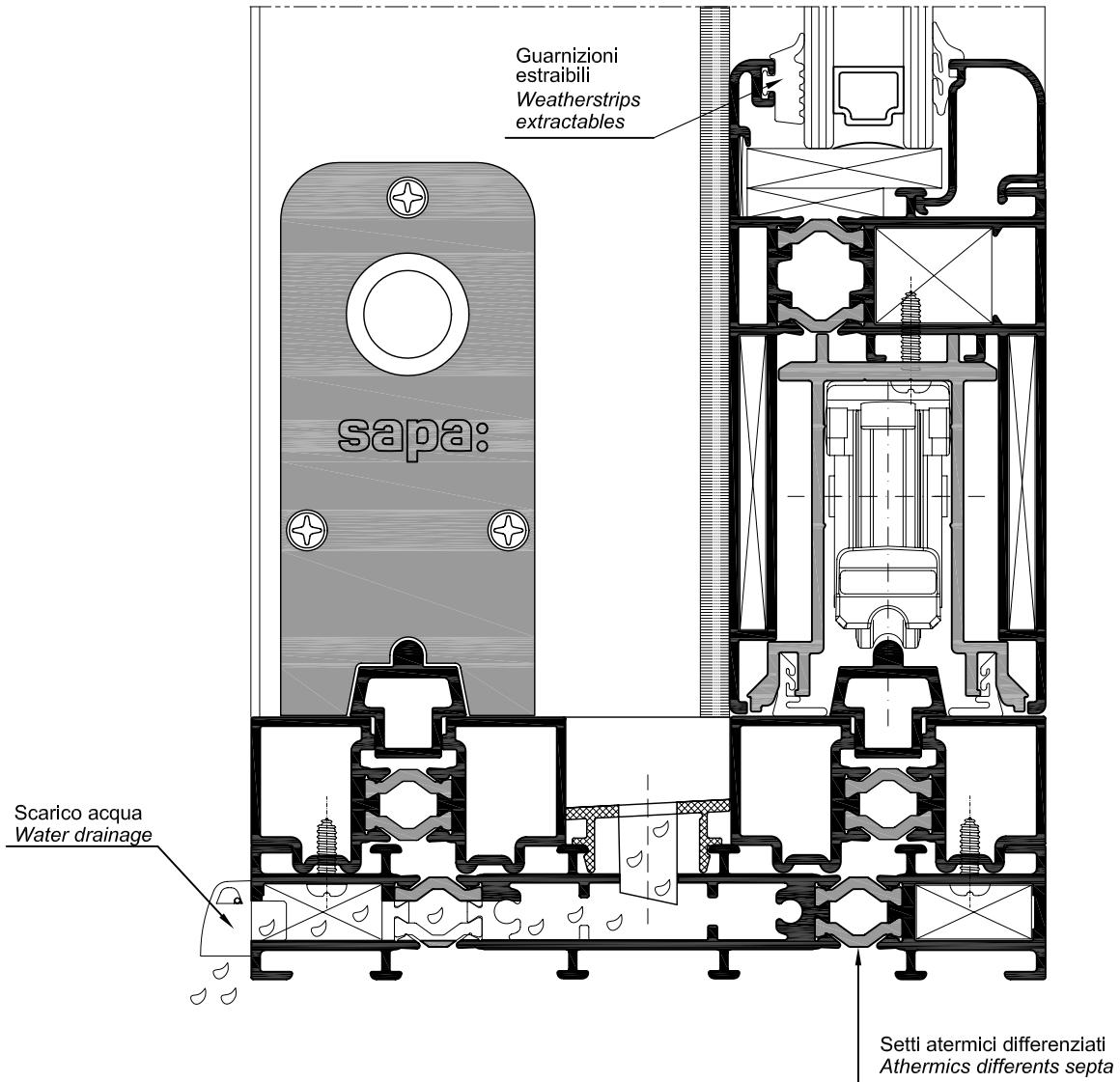
Sapa declines any responsibility in case of use or partial use of non original products.

With the aim of improving its products, Sapa reserves the possibility to make changes to this document at any moment and with no advise.

The data reported in this catalogue are indicative and not binding.

L'esecuzione del serramento dovrà prevedere tutte le operazioni necessarie per il buon funzionamento del "componente finestra" quali la sigillatura e il bloccaggio sicuro degli angoli, il fissaggio a muro adeguato e, necessariamente, l'utilizzo di accessori e guarnizioni originali. Le lavorazioni, proprio per garantire la giusta applicazione dei particolari, dovranno essere eseguite con attrezzature originali e collaudate sul sistema stesso. Gli scarichi dell'acqua e le asole di aerazione per vetri camera dovranno essere di dimensione e numero ottimale in funzione della dimensione e della tipologia del serramento.

The frame construction must include all the operations necessary for good working of the "window component", such as sealing and safe blocking of corners, suitable wall fixtures and the use of the original accessories and weatherstrips. In order to guarantee the correct application of the parts, works must be carried out with original equipment that has been tested on the system. The size and number of water drains and ventilation slots for double glazing must correspond to the size and type of window frame.



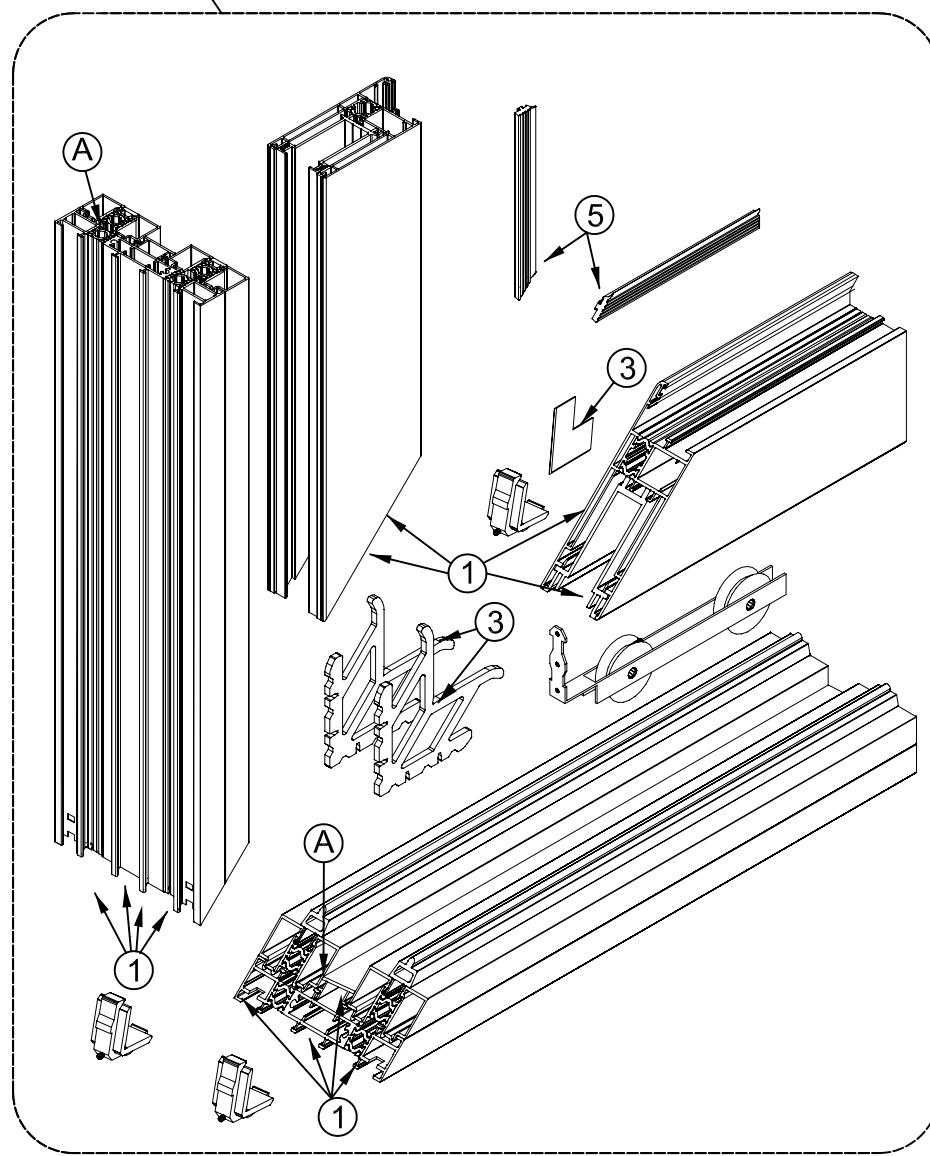
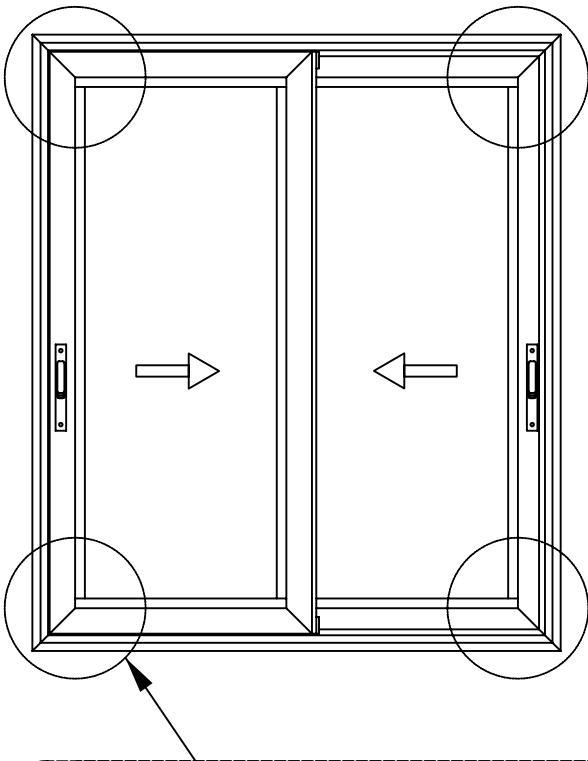
ACCESSORI DI ASSEMBLAGGIO E MOVIMENTO ASSEMBLY AND MOVEMENT ACCESSORIES

Gli accessori, brevettati, originali Teknowindow, sono frutto della collaborazione con le migliori aziende specializzate del settore. Sono realizzati con materiali equivalenti, per prestazioni e resistenza alla corrosione, a quelli dei telai; i perni sono in acciaio inox, le boccole ed i particolari di scorrimento sono realizzati in nylon rinforzato con bloccaggio del tipo a contrasto. Le squadrette di serraggio angoli, ad avvitare, a spinare ed a cianfrinare, sono realizzate con leghe di alluminio diverse secondo le esigenze del loro impiego.

The original patented Teknowindow accessories are the result of the collaboration with the best a specialized company in the sector.

They are constructed with materials of equivalent performance and corrosion resistance to the frames; the pins are in stainless steel, the bushes and sliding parts in reinforced nylon with blocking of the type with contrast.

The screwing, pinning and caulking corner joints are constructed with different aluminium alloys depending on their use



AVVERTENZE PER L'ASSEMBLAGGIO

1. Sigillare tutte le unioni tra profili, nei tagli a 45° e nei collegamenti tra montanti e traversi
2. Sigillare in "A" per tutta la lunghezza del profilo
3. Le squadrette a cianfrinare e di allinamento battuta devono essere incollate con collante poliuretanico monocomponente .
4. Nei profili a taglio termico, ove utilizzate squadrette a cianfrinare, devono essere prima incollate e poi cianfrinate. Cianfrinatura eseguibile anche con attrezzatura manuale (Art. M. 2001.00).
5. Le guarnizioni cingivetru interne ed esterne devono essere tagliate a 45° ed unite agli angoli con sigillante.
6. Le guarnizioni di battuta perimetrali devono essere tagliate a 45° ed unite sulla base degli angoli con collante cianoacrilico LOCTITE 406.

ASSEMBLY INSTRUCTIONS

1. Seal all the joints between sections, in the 45° cuts and in the connections between uprights and transoms.
2. Seal in position "A" for the all lenght of section
3. The caulking, levelling and rabbet alignment corner joints must be glued with monocomponent polyurethan adhesive.
4. In the thermal break section, if you use crimping corner joints, these must be glued and caulked. Caulking may also be carried out by hand (Art. M.2001.00).
5. The internal and external glass-clamping weatherstrips must be cut at 45° and united to the corners with sealer
6. The perimetral rabbet weatherstrips must be cut at 45° and united on the base of the corners with LOCTITE 406

Una corretta posa in opera, evita spesso il decadimento delle prestazioni ottenute in laboratorio, curare in maniera appropriata la posa valorizza tutto il processo produttivo dalla progettazione all'installazione.

Fare una pulizia periodica con prodotti neutri riduce notevolmente i rischi di corrosione ed allunga sicuramente la vita dell'infisso. Per una corretta installazione, manutenzione e pulizia dei serramenti, Vi raccomandiamo di consultare le prescrizioni riportate sulle seguenti note tecniche UNCSAAL:

UX42 - "Guida alla posa in opera dei serramenti"

UX10 - "La pulizia delle superfici di serramenti e facciate continue"

A correct installation, often avoids the decay of the performances obtained in the laboratory. Taking appropriate care of the installation increases the value of the whole production process from the planning to the installation.

Cleaning periodically with neutral products reduces remarkably the corrosion risk and extends surely the life of the frame.

For a correct installation, maintenance and cleaning of the sections, we recommend you refer to the prescriptions quoted in the following technical notes of UNCSAAL UX42 and UX10



LEGHE IN ALLUMINIO DA BONIFICA - PROFILATI ESTRUSSI **HEAT-TREATABLE ALUMINIUM ALLOYS - EXTRUSION SECTIONS**

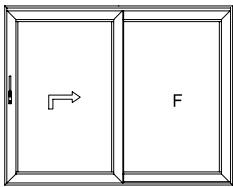
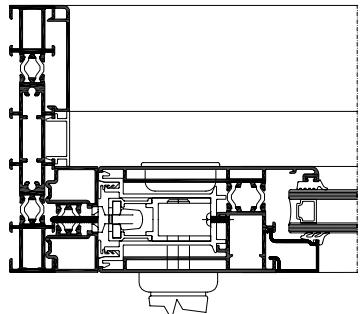
Leghe / Alloys		6060 UNI EN 573-3				
Composizione chimica normale / Normal chemical compos		% Mg 0,4 Si 0,4 Fe 0,2				
Stato / State		0 T1 T5 T6				
Caratteristiche meccaniche <i>Mechanical Charatteristics</i>	Carico di rottura a trazione <i>Ultimate tensile stress</i>	R _m N/mm ²	140 Max	120	185	205
	Carico al limite di snervamento <i>Yield point</i>	R _p N/mm ²	80 Max	50	145	165
	Allungamento <i>Elongation</i>	A %	20	16	11	10
Caratteristiche fisiche <i>Physical Charatteristics</i>	Peso specifico <i>Specific weight</i>	Kg/dm ³	2,70			
	Conduttività termica a 20°C <i>Heat conductivity at 20°C</i>	W/ (cm ⁻³ K)	\approx 2,09		\approx 1,75	
	Resistività elettrica a 20°C <i>Electrical resistivity at 20°C</i>	$\mu\Omega \cdot cm$	\approx 3,14		\approx 3,25	
	Coef. di dilatazione termica lineare da 20° a 200°C <i>Linear thermal expansion coefficient from 20° to 200° C</i>		$24 \cdot 10^{-6} K^{-1}$			

PRESTAZIONI AGLI AGENTI ATMOSFERICI
ATMOSPHERIC AGENTS PERFORMANCES

WIN 140sa^{TT}
 SYSTEM

Per garantire il massimo delle prestazioni in funzionalità e durata,
 il sistema TEKNOWINDOW scorrevole Serie Win140sa TT è stato
 sottoposto ai collaudi prescritti dalle vigenti Normative europee
 ottenendo ottimi risultati

*To guarantee the maximum functionality and wear,
 TEKNOWINDOW slide Win140sa TT system has been tested
 according to the running european norms.*

CERTIFICATI		CERTIFICATES					Laboratorio Certificato n° <i>Laboratory Certificate nr.</i>
Sistema System	Tipologia <i>Windows and doors</i>	Dimensioni Dimensions L x H mm	Risultati prove <i>Test values</i>			Sezioni <i>Cross section</i>	
			Aria Air	Acqua Water	Vento Wind		
WIN 140sa ^{TT} <small>SYSTEM</small>		3200 X 2200	C4	8A	C5		ISTEDIL 1810/2011

Tecnicamente, viene definito "a taglio termico" un profilato metallico che, una volta impiegato nella costruzione di un infisso, presenta il lato rivolto all'interno nettamente diviso dal lato esposto all'esterno per impedire lo scambio termico. Le due parti della sezione devono essere perciò separate da un materiale diverso, con bassi valori di conducibilità termica.

Il taglio termico del sistema Teknowindow, realizzato con barrette in poliammide rinforzato, si colloca su bassi valori di trasmittanza termica, in linea con i sistemi a taglio termico più avanzati.

Per evitare slittamenti dei vari componenti del profilato a taglio termico è prescritta la pre-zigrinatura dei particolari di bloccaggio prima dell'operazione meccanica di accoppiamento.

A metal section which, when used in the construction of a frame, has the side facing inwards clearly divided from that facing outwards to prevent heat exchange is technically defined as "thermal break". The two parts of the section must therefore be separated by a different material, with low conductivity values.

The thermal break of the Teknowindow system, produced with reinforced polyamide bars, is placed on low Uf values (heat transmission coefficient), in line with the most advanced thermal break systems.

To prevent the components of the thermal break section from slipping, it is advisable to pre-knurl the blocking parts before carrying out the mechanical coupling operation.

Tutti i profilati a taglio termico venduti da Sapa sono sempre riconoscibili.

Il marchio, impresso a laser è stato previsto per essere sempre visibile nel profilato assemblato come dalla figura sottostante

All thermal break sections are always recognizable. The laser impressed brand is always visible on the assembled sections as you can see in the picture here under



Sapa non risponde di eventuali difetti imputabili ad accoppiamenti non eseguiti nei propri stabilimenti e/o dovuti all'utilizzo di macchine non idonee e/o mal regolate.

Sapa will not be responsible for any incidental defects due to couplings which have not been carried out in its own premises and/or due to the use of not proper and/or not well-regulated machines.

PRESTAZIONI TERMICHE
THERMAL PERFORMANCES

WIN 140sa^{TT}
SYSTEM

I valori di trasmittanza termica Uf sotto riportati sono i risultati di calcolo eseguiti dall'Istituto ISTEDIL, secondo la normativa UNI EN ISO 10077-2

The thermal performance values Uf hereunder reported are calculation results from the Institute ISTEDIL, in accordance with the norm UNI EN ISO 10077-2

Nella porzione di tubolarità delimitata dalle barrette del taglio termico si assume:
 - Il valore pari a 0,90 per l'emissività dell'alluminio verniciato
 - Il valore pari a 0,30 per l'emissività dell'alluminio non verniciato

The equivalent thermal conductivity of the cavity between aluminium and polyamide bars is:
 - 0,90 If the aluminium is painted
 - 0,30 If the aluminium is mill finish

CERTIFICATI

CERTIFICATES

Sistema System	Sezioni Cross section	Risultati calcolo Calculus values	Laboratorio Certificato n° Laboratory Certificate nr.
		$U_f = W/m^2 \cdot K$	
		$\epsilon = 0.9$	$\epsilon = 0.3$
WIN 140sa ^{TT} SYSTEM		3,24	3,15 ISTEDIL 56/2012
WIN 140sa ^{TT} SYSTEM		3,31	3,22 ISTEDIL 56/2012-A
WIN 140sa ^{TT} SYSTEM		4,83	4,78 ISTEDIL 56/2012-B
WIN 140sa ^{TT} SYSTEM		6,17	6,09 ISTEDIL 56/2012-C

PRESTAZIONI TERMICHE
THERMAL PERFORMANCES

WIN 140sa^{TT}
SYSTEM

I valori di trasmittanza termica Uf sotto riportati sono i risultati di calcolo eseguiti dall'Istituto ISTEDIL, secondo la normativa UNI EN ISO 10077-2

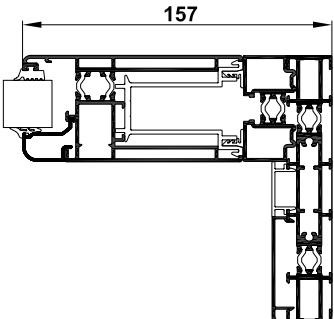
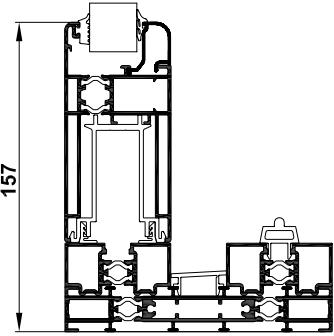
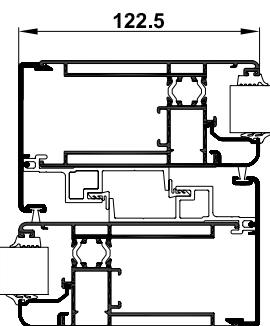
The thermal performance values Uf hereunder reported are calculation results from the Institute ISTEDIL, in accordance with the norm UNI EN ISO 10077-2

Nella porzione di tubolarità delimitata dalle barrette del taglio termico si assume:
 - Il valore pari a 0,90 per l'emissività dell'alluminio verniciato
 - Il valore pari a 0,30 per l'emissività dell'alluminio non verniciato

The equivalent thermal conductivity of the cavity between aluminium and polyamide bars is:
 - 0,90 If the aluminium is painted
 - 0,30 If the aluminium is mill finish

CERTIFICATI

CERTIFICATES

Sistema System	Sezioni Cross section	Risultati calcolo Calculus values	Laboratorio Certificato n° Laboratory Certificate nr.
		$U_f = W/m^2 \cdot K$ $\epsilon = 0.9$	$\epsilon = 0.3$
WIN 140sa ^{TT} SYSTEM		3,54	3,45
WIN 140sa ^{TT} SYSTEM		3,36	3,27
WIN 140sa ^{TT} SYSTEM		4,32	4,28
			ISTEDIL 56/2012-D
			ISTEDIL 56/2012-E
			ISTEDIL 56/2012-F

"Valido solo per il territorio ITALIANO"
"Applicable only for Italy"

Requisiti della prestazione energetica degli edifici

Decreto legislativo 29 dicembre 2006, n. 311

Disposizioni correttive ed integrative al decreto legislativo 19 agosto 2005, n. 192, recante attuazione alla direttiva 2002/91/CE, relativa al rendimento energetico nell'edilizia.

Stabilisce i valori massimi della trasmittanza termica dei vetri e delle chiusure trasparenti comprensive di vetri e profilati metallici.

Tabella 4a Valori limite della trasmittanza termica U delle chiusure trasparenti comprensive degli infissi espressa in W/m ² K			
Zona climatica	Dall' 1 gennaio 2006 U (W/m ² K)	Dall' 1 gennaio 2008 U (W/m ² K)	Dall' 1 gennaio 2010 U (W/m ² K)
A	5,5	5,0	4,6
B	4,0	3,6	3,0
C	3,3	3,0	2,6
D	3,1	2,8	2,4
E	2,8	2,4	2,2
F	2,4	2,2	2,0

Tabella 4b Valori limite della trasmittanza U dei vetri espressa in W/m ² K			
Zona climatica	Dall' 1 gennaio 2006 U (W/m ² K)	Dall' 1 gennaio 2008 U (W/m ² K)	Dall' 1 gennaio 2011 U (W/m ² K)
A	5,0	4,5	3,7
B	4,0	3,4	2,7
C	3,0	2,3	2,1
D	2,6	2,1	1,9
E	2,4	1,9	1,7
F	2,3	1,7	1,3

Il territorio nazionale è suddiviso nelle seguenti zone climatiche in funzione dei gradi-giorno, indipendentemente dalla ubicazione geografica:

Zona A - Comuni che presentano un numero di gradi-giorno non superiore a 600;

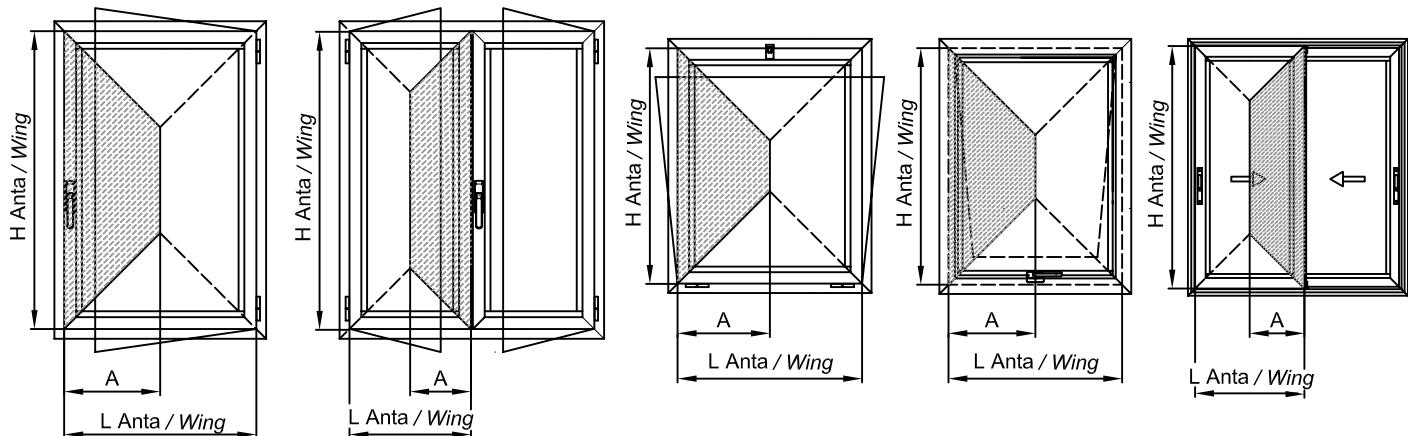
Zona B - Comuni che presentano un numero di gradi-giorno maggiore di 600 e non superiore a 900;

Zona C - Comuni che presentano un numero di gradi-giorno maggiore di 900 e non superiore a 1400;

Zona D - Comuni che presentano un numero di gradi-giorno maggiore di 1400 e non superiore a 2100;

Zona E - Comuni che presentano un numero di gradi-giorno maggiore di 2100 e non superiore a 3000;

Zona F - Comuni che presentano un numero di gradi-giorno maggiore di 3000.



I grafici di seguito riportati sono stati ottenuti con la seguente formula:

$$J(\text{cm}^4) = \frac{q(\text{Kgf/cm}^2) \times H^4 (\text{cm}) \times A(\text{cm})}{1920 \times E(\text{Kgf/cm}^2) \times f(\text{cm})}$$

The graphs below were created using the following formula:

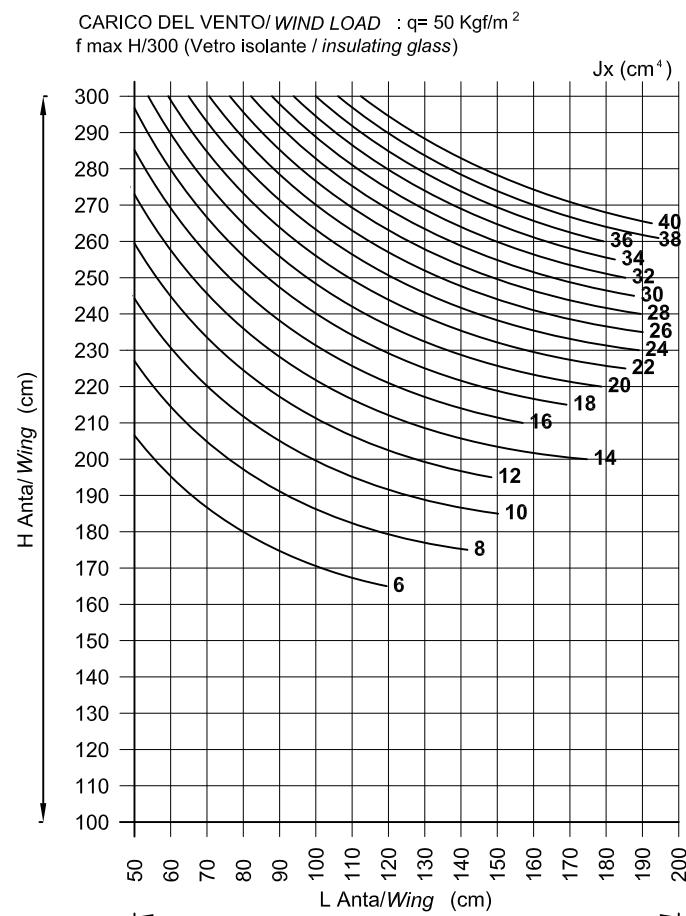
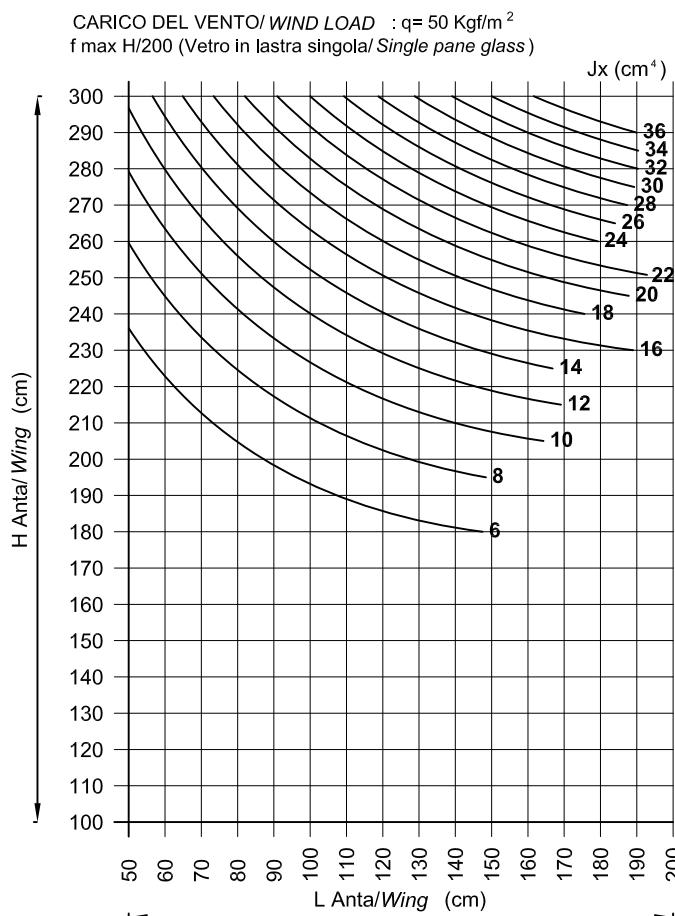
$$x \left[25-40 \times \left(\frac{A}{H} \right)^2 + 16 \times \left(\frac{A}{H} \right)^4 \right]$$

Dove:
 J_x = Momento d'inerzia (cm^4)
 q = Carico del vento (Kgf/cm^2)
 H = Altezza anta (cm)
 A = Larghezza anta : 2 (cm)
 E = Modulo di elasticità (Kgf/cm^2)
 f = Freccia (cm)

Essa è riferita al dimensionamento delle ante rispetto all'inerzia del profilo, per cui verificare sempre che il peso delle ante sia compatibile con la portata degli accessori impiegati, cerniere ecc. Inoltre verificare sempre che la freccia dei profilati sia compatibile con il vetro impiegato.

Were:
 J_x = Moment of inertia (cm^4)
 q = Wind load (Kgf/cm^2)
 H = Wing height (cm)
 A = Wing/2 width (cm)
 E = Coefficient of elasticity (Kgf/cm^2)
 f = Camber (cm)

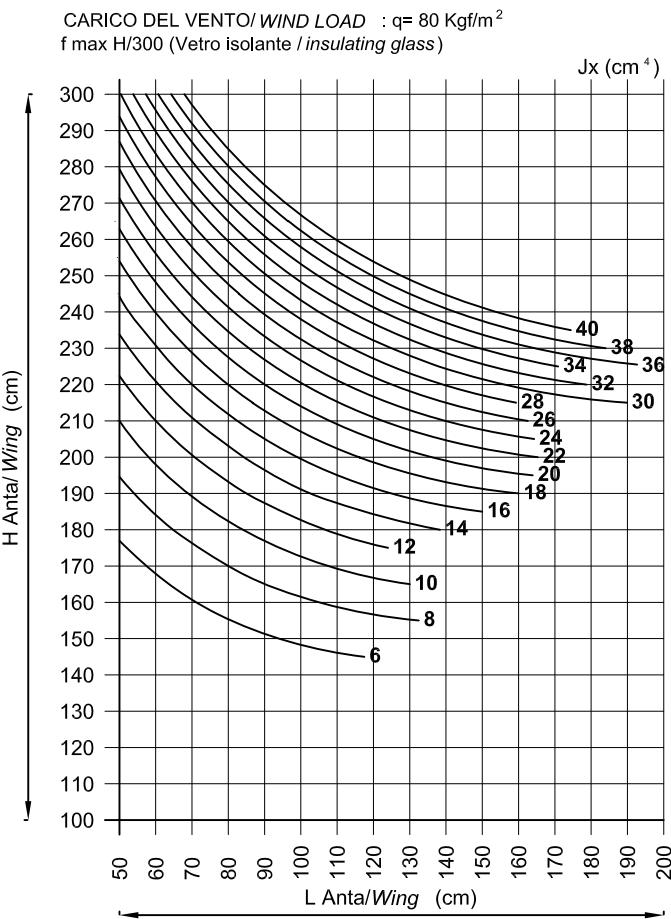
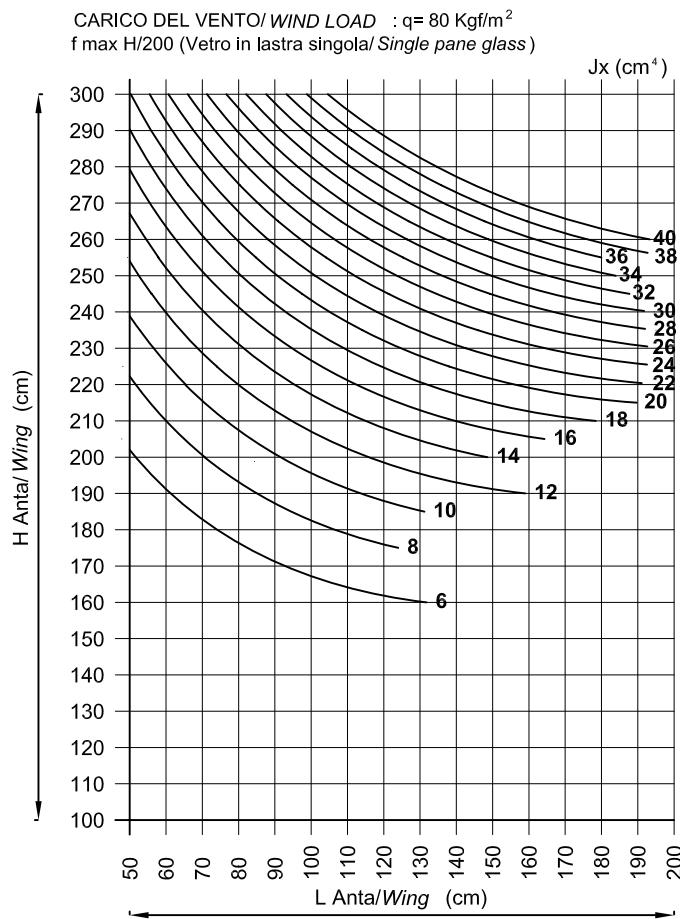
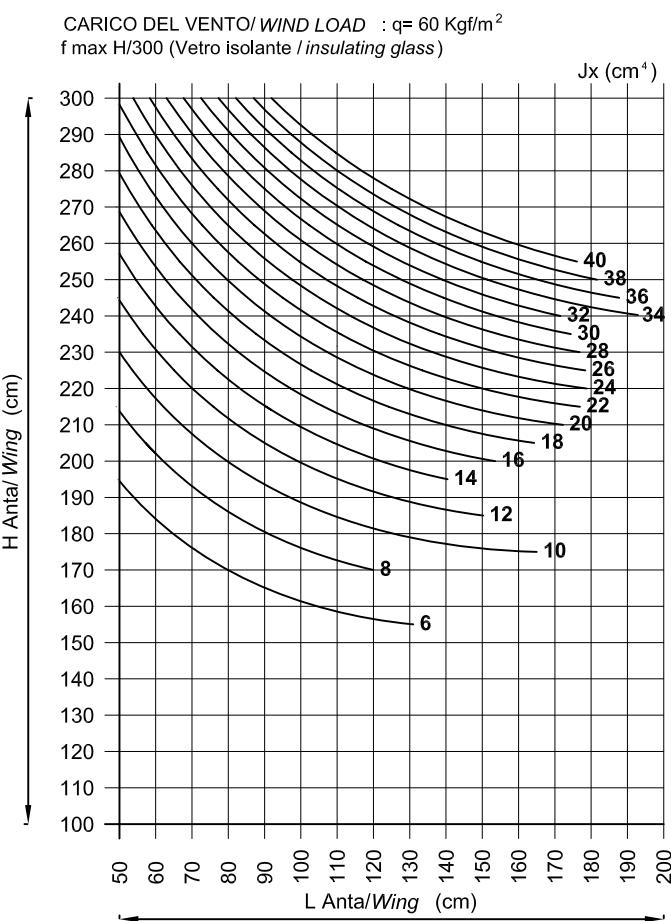
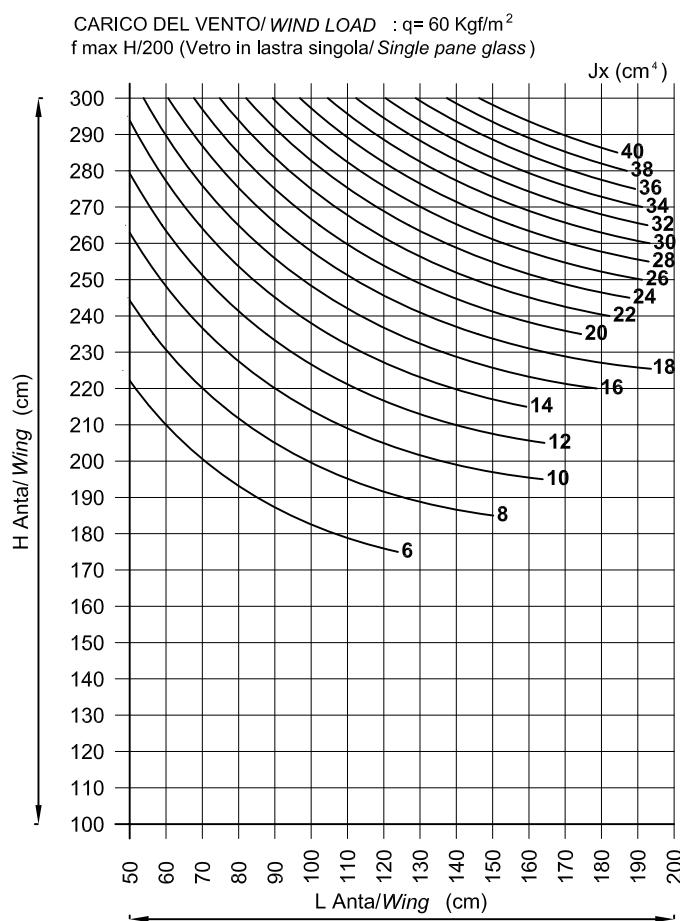
This refers to the size of the wings compared with the section inertia so always make sure the weight of the wings is compatible with the load of accessories hinge etc. used. Also always check that the section camber is suitable for the glass used.



DIAGRAMMI PER IL DIMENSIONAMENTO STATICO DELLE ANTE

STATIC WING-SIZING DIAGRAMS

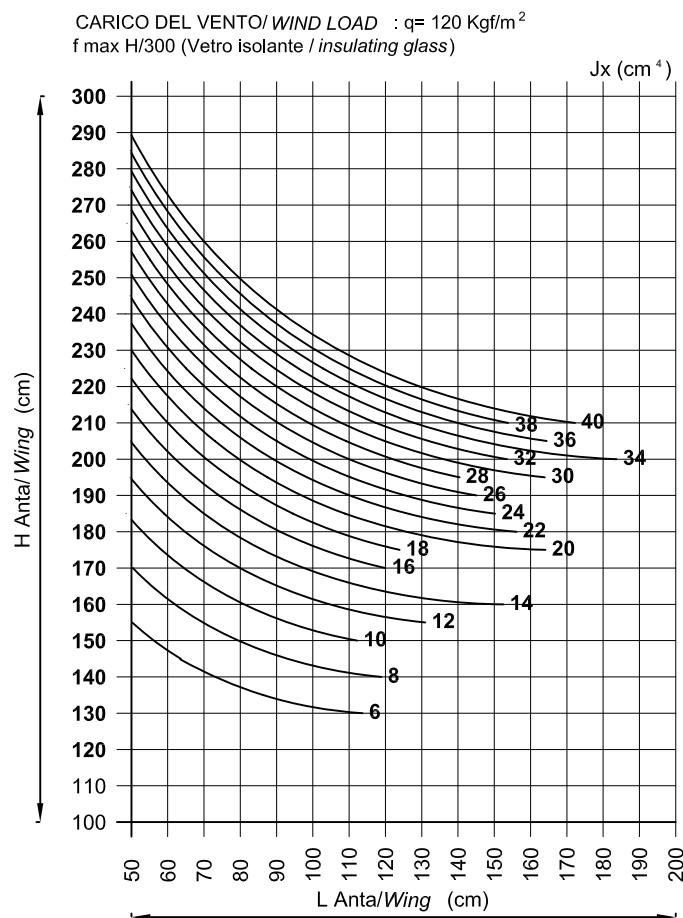
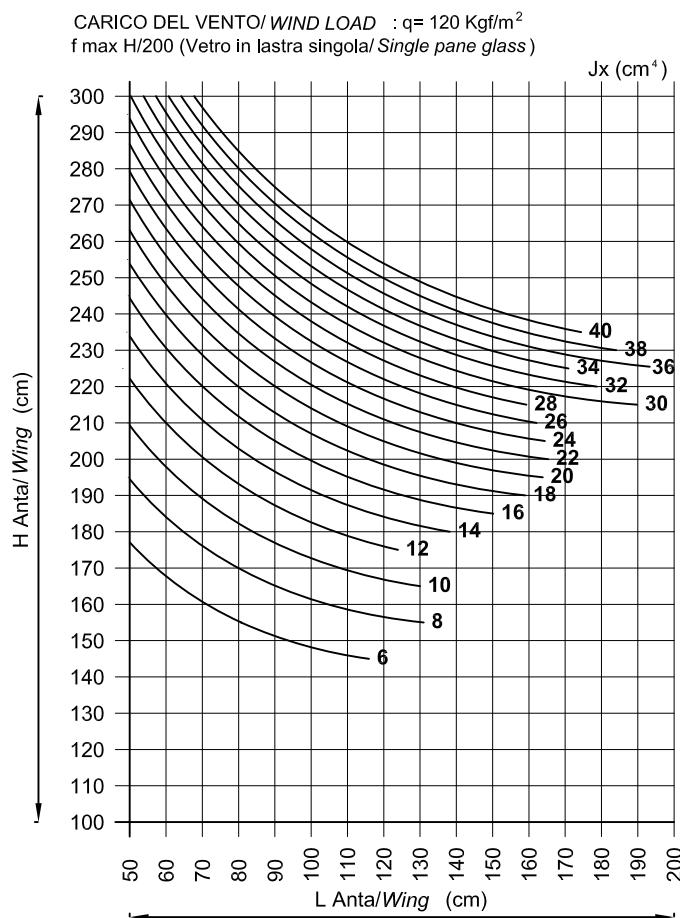
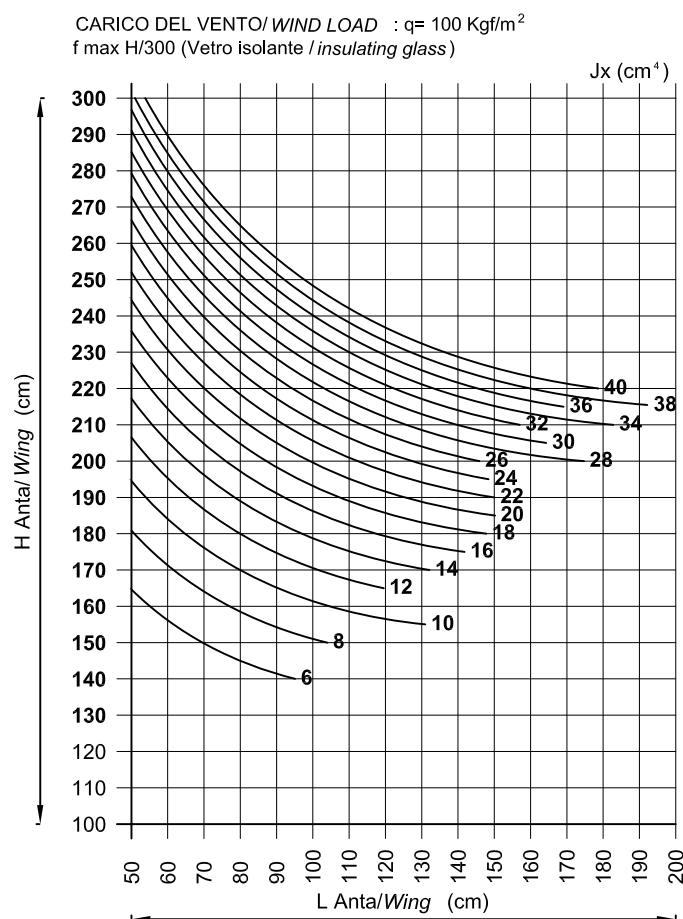
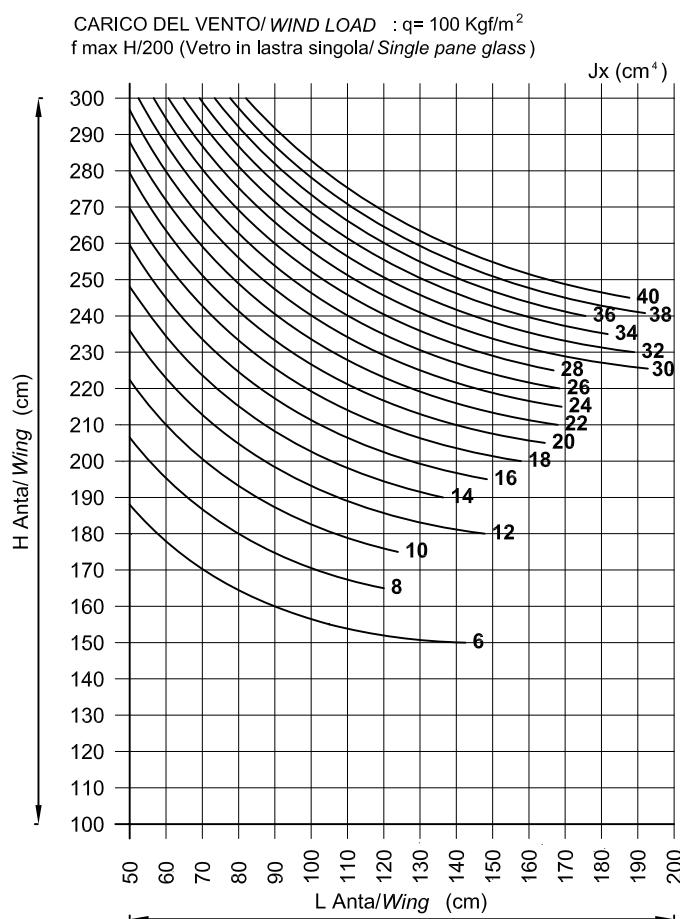
WIN 140sa^{TT}
SYSTEM



DIAGRAMMI PER IL DIMENSIONAMENTO STATICO DELLE ANTE

STATIC WING-SIZING DIAGRAMS

WIN 140sa^{TT}
SYSTEM



Gli accessori originali, progettati appositamente e specifici del Sistema TEKNOWINDOW, sono gli unici collaudati e garantiscono nel tempo la qualità del prodotto finale.

AVVERTENZA **NOTE**

Per gli articoli indicati con ^(XXX) è possibile scegliere tra diversi produttori, tali articoli sono comunque forniti da Sapa. Le combinazioni possibili sono le seguenti:

(BP) - Prodotti da BMP e PRODUCTA.

Per ordinare tali prodotti, è necessario inserire al termine del codice i seguenti numeri:

01 - Per BMP

03 - Per PRODUCTA

Esempio: Art. G.0004.EN^(BP) La scelta può essere fatta tra BMP (ordinando il codice G.0004.EN.01) e PRODUCTA (codice G.0004.EN.03).

Only the original accessories in the TEKNOWINDOW System guarantee lasting quality of products

For the articles indicating ^(XXX) there is the possibility to choose between different manufacturers although the goods will be supplied by Sapa. Here following the different combinations:

(BP) - Produced by BMP and PRODUCTA.

To order the articles you will need to indicate following numbers at the end of the code:

01 - For manufacturer BMP

03 - For manufacturer PRODUCTA

Example: Article G.0004.EN^(BP) the choice may be between BMP (ordering art. G.0004.EN.01) and PRODUCTA (ordering art. G.0004.EN.03).

AVVERTENZA **NOTE**

I prodotti descritti con il suffisso **.XX**, potranno essere forniti nelle finiture sotto indicate, sostituendo in sede di ordinazione l'indicazione **.XX** con i codici qui elencati:

00 = Grezzo
01 = Nero su materiali plastici
02 = Ossidato argento
06 = Ossidato bronzo
15 = Elettro 5
19 = Ossidato nero
37 = Verniciato argento
39 = Verniciato elettro 5
41 = Verniciato bianco RAL 9010
43 = Verniciato avorio RAL 1013
50 = Verniciato nero RAL 9005
60 = Verniciato su commessa ***
B5 = Alluminio Titanio
B6 = Alluminio ottone lucido
B7 = Alluminio cromo satinato
KA = Acciaio grezzo
VA = Vari grezzo

*** Quantitativi e prezzi da concordare

Esempio:

La maniglia con coprirossetta e conchiglia corta art. A.5213.xx, se ordinata come A.5213.41 verrà fornita verniciata bianca RAL 9010.

Products described with the suffix .XX can be supplied with the finished by replacing the .XX with the codes listed below when ordering:

00 = Raw
01 = Black on plastics
02 = Anodized silver
06 = Anodized bronze
15 = Electro 5
19 = Anodized black
37 = Painted silver
39 = Painted electro 5
41 = Painted white RAL 9010
43 = Painted ivory RAL 1013
50 = Painted black RAL 9005
60 = Painted to order ***
B5 = Aluminum titanium
B6 = Aluminum polished brass
B7 = Aluminum chrome satin
KA = raw steel
VA = Various raw

*** Quantities and prices to be agreed

For example:

Single handle with short basin code A.5213.xx, will be supplied painted white RAL 9010 if ordered as A.5213.41

SQUADRETTA
CORNER JOINTS

Articolo Item	Immagine Picture	Descrizione Description
10001.00		Squadretta allineamento battuta Corner joint for alignment rabbet
10040.01		In zama Zamac In nylon Nylon

10008.00		Squadretta a cianfrinare Corner joint to be crimped 9,8 x 20,3 mm
10009.00		Squadretta a cianfrinare Corner joint to be crimped 16,8 x 20,3 mm

10026.00		Squadretta ad avvitare Corner joint to be screwed 9,8 x 20,3 mm
10027.00		Squadretta ad avvitare Corner joint to be screwed 16,8 x 20,3 mm
A.2916.AA		Squadretta allineamento aletta anta Alignment corner joint on section 50 x 5 mm
092 (Mont.)		Spina in acciaio inox per squadretta A.2916.AA Pinned stainless to corner joint A.2916.AA

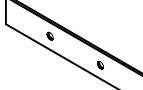
ELEMENTI DI FISSAGGIO
FIXING ELEMENTS

A.1500.NN		Basetta in nylon per regolo mobile Nylon plate for adjustable fixing
10410.00		Grano per regolo mobile Dowel for adjustable fixing
10411.00		16,5 mm 23 mm
10425.00		Molla aggancio coprifili Edge cover coupling spring

TAPPI
PLUGS

Articolo Item	Immagine Picture	Descrizione Description
A.2169.NN		Kit tappi terminali guida superiore Plug terminal kit for superior track
A.2185.TN		Coppia tappi per profilo 1F28005 Pair of plug for section 1F28005

GIUNTI E SCARICHI ACQUA
JOINTS AND WATER DRAINAGES

10501.01		Cappetta scarico acqua Water drain cover
A.2201.NN		Cappetta drenaggio acqua Water drainage cover
A.2202.NN		Boccolla drenaggio acqua Water drainage bush Ø 16 mm
A.2186.ON		Guarnizione adesiva unione profilati su 1F28006 adhesive seal for union profiles on section 1F28006

ACCESSORI COMPLEMENTARI
COMPLEMENTARY ACCESSORIES

10545.xx		Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading
A.0202.BA		Angolo stampato per fermavetri arrotondati su anta 1F28011 Moulded for snap-on rounded glass beading on profile 1F28011
F.9000.01		Aggancio fermavetri arrotondati Rounded glass beading coupling
A.9931.TN		Aggancio fermavetri arrotondati su anta 1F28011 Rounded glass beading coupling on profile 1F28011

Articolo Item	Immagine Picture	Descrizione Description	Articolo Item	Immagine Picture	Descrizione Description
A.5200.VA		Kit base movimentazione un'anta portata 300 Kg Basic kit for one wing movement load 300 Kg	A.5220.02		Paracolpi a tubo L 45mm Buffer tubes L 45mm
A.5201.KA A.5202.KA A.5203.KA A.5204.KA A.5205.KA		Barra di collegamento linking bar L= 692 mm L Anta da 720 a 1300 L= 1196 mm " da 1225 a 1800 L= 1700 mm " da 1730 a 2305 L= 2204 mm " da 2235 a 2810 L= 2708 mm " da 2740 a 3385	A.5221.02		Paracolpi a tubo L 65mm Buffer tubes L 65mm
A.5206.XX A.5207.XX A.5208.XX A.5209.XX A.5210.XX A.5211.XX A.5212.XX		Serratura alzante Lifting locking Altezza anta da 730 a 1360 mm Altezza anta da 1260 a 1760 mm Altezza anta da 1660 a 2160 mm Altezza anta da 2060 a 2560 mm Altezza anta da 2460 a 2860 mm Altezza anta da 2760 a 3360 mm Altezza anta da 3260 a 3860 mm	A.5222.ZA		Delimitatore per 4 ante Delimiter for four wing
A.5213.XX		Maniglia con coprirossetta e conchiglia corta Single handle with short basin	A.5223.VA		Kit carrelli supplementari per portata 400 Kg Additional roller kit for capacity Kg 400
A.5214.XX		Maniglia con coprirossetta con foro cilindrico e conchiglia corta Single handle with short basin and hole for cylinder	A.9899.VA		Kit bloccaggio anta fissa Blocking kit for fix wing
A.5215.XX		Maniglia doppia con foro cilindro Double handle with hole cylinder	U.5290.YA		Dima per foratura binario fissaggio accessorio A.5222.ZA Template to drill of the track trough to fix accessories A.5222.ZA
A.5216.VA		Perno di chiusura su piastra per aerazione Pin to lock on plate aeration	10510.01		Base spessore 5 mm per tassello regolazione vetro Glass registration dolly block 5 mm
A.5217.VA		Perno di chiusura su piastra Pin to lock on plate	10511.01		Spessore regolazione vetro Glass registration spacer
A.5218.VA		Guida posizionamento anta su binario rbassato 1F23013 Guide wing placement for lower-track 1F23013	10512.01		2 mm
A.5219.XX		Paracolpo in zama su anta Buffer in zamak	10513.01		3 mm
					4 mm

GUARNIZIONI
WEATHERSTRIPS

Articolo Item	Immagine Picture	Descrizione Description
------------------	---------------------	----------------------------

10821.01



Guarnizione di battuta in EPDM
EPDM weatherstrip of rabbet

10841.01



Guarnizione vetro lato esterno in
EPDM spessore 3 mm
EPDM weatherstrip thickness mm 3 for
external glazing

10851.01



Guarnizione vetro lato esterno in
EPDM spessore 5 mm
EPDM weatherstrip thickness mm 5 for
external glazing

10852.01



Guarnizione vetro lato esterno in
EPDM spessore 8 mm
EPDM weatherstrip thickness mm 8 for
external glazing

G.0004.EN (BP)



Guarnizione vetro lato interno sp. 3 mm
Weatherstrip internal glazing thickness 3 mm

EPDM

PVC

G.0005.EN (BP)



Guarnizione vetro lato interno sp. 4 mm
Weatherstrip internal glazing thickness 4 mm

EPDM

PVC

10861.01



Guarnizione vetro lato interno sp. 5 mm
Weatherstrip internal glazing thickness 5 mm

EPDM

10862.01

PVC

10871.01



Guarnizione vetro lato interno sp. 6 mm
Weatherstrip internal glazing thickness 6 mm

EPDM

10872.01

PVC

G.0097.EN



Guarnizione coprigiunto 1F28004
Coverjoint on 1F28004 section

G.0098.EN



Guarnizione coprigiunto 1F23006
Coverjoint on 1F23006 section

G.0099.EN (BP)



Guarnizione tenuta guida superiore
Sealing weatherstrip upper slide guide

G.0100.EN (BP)



Guarnizione di tenuta perimetrale
Sealing weatherstrip perimeter

GUARNIZIONI POLIAMMIDE
POLYAMIDE WEATHERSTRIPS

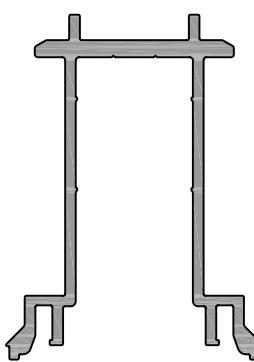
Articolo Item	Immagine Picture	Descrizione Description
------------------	---------------------	----------------------------

G.0167.HA



Spazzolino Hi-Fin 6,9x8,5
Protective fiber Hi-Fin 6,9x8,5

G.0309.QN



Coprigiunto anta Win 140SA
Joint covering wing Win 140SA

G.0310.LN



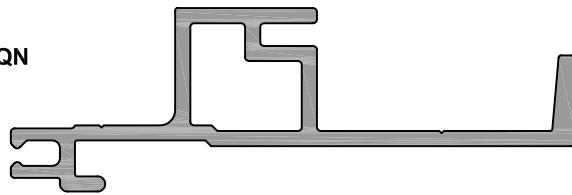
Coprigiunto telaio Win 140SA
Joint covering frame Win 140SA

G.0311.LN



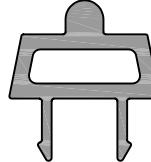
Coprigiunto telaio Win 140SA
Joint covering frame Win 140SA

G.0312.QN



Incontro centrale due ante Win
140SA
Two wings striker plate Win
140SA

G.0319.LN



Bimario Win 140SA
Track Win 140SA

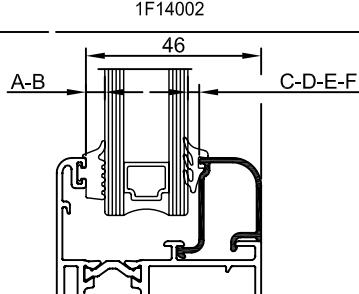
IN ALLESTIMENTO
UNDER CONSTRUCTION

INSERIMENTO GUARNIZIONI, VETRI E FERMAVETRI
WEATHERSTRIPS, GLASS AND GLASS BEADINGS INSERTION

WIN **140saTM**
 SYSTEM

Articolo Item	Guarnizioni esterne External weatherstrips	Sezione Section	Articolo Item	Guarnizioni interne Internal weatherstrips	Sezione Section
10841.01	A = 3 mm		10861.01 10862.01	C = 5 mm	
10851.01	B = 5 mm		10871.01 10872.01	D = 6 mm	
			G.0004.EN	E = 3 mm	
			G.0005.EN	F = 4 mm	
Spessore vetri Glass thickness	Guarnizioni Weatherstrips	Dimensione fermavetri Glass beading size			Sezione Fermavetri Glass beading section
20	A+E	20,5 mm			
20 21	A+F A+E	19 mm			
20 21 22 23 24	B+C B+F A+C / B+E A+F A+E	16,5 mm			
21 22 23 24 25 26	B+D B+C B+F A+C / B+E A+F A+E	14,5 mm			
23 24 25 26 27 28	B+D B+C B+F A+C / B+E A+F A+E	12,5 mm			
25 26 27 28 29 30	B+D B+C B+F A+C / B+E A+F A+E	10,5 mm			
27 28 29 30 31 32	B+D B+C B+F A+C / B+E A+F A+E	8,5 mm			
31 32 33 34 35 36	B+D B+C B+F A+C / B+E A+F A+E	4,5 mm			
33 34 35 36 37 38	B+D B+C B+F A+C / B+E A+F A+E	2,5 mm			

B+D = 11
 B+C = 10
 B+F = 9
 A+C / B+E = 8
 A+F = 7
 A+E = 6

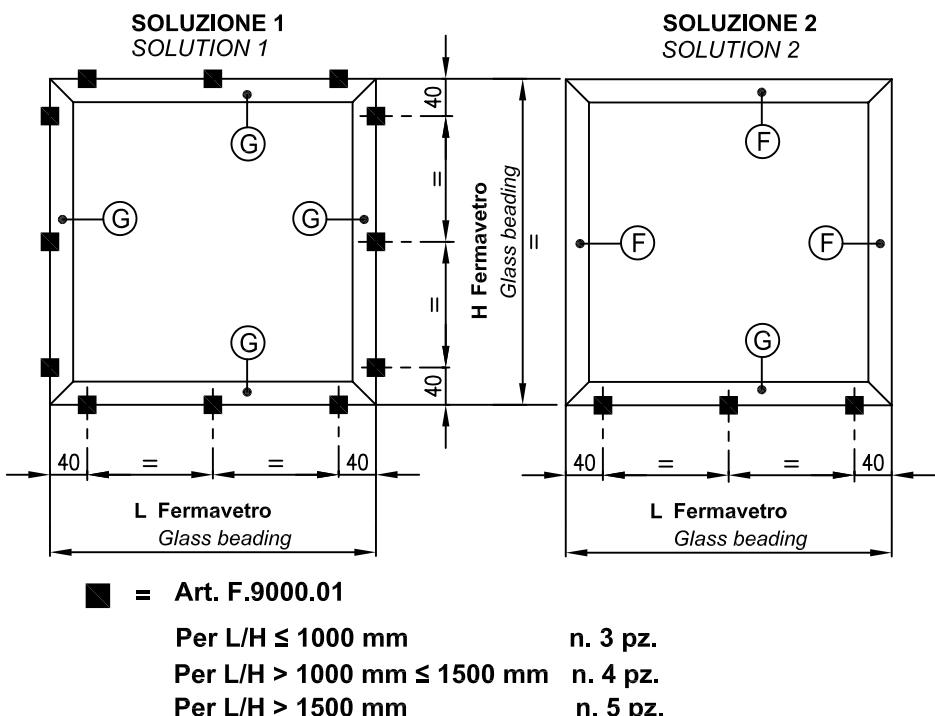


N.B.: Le combinazioni sopra indicate sono state ottenute considerando le quote teoriche. Si consiglia sempre di verificare le tolleranze per applicare vetri, fermavetri e guarnizioni ottimali
The above combinations are based on theoretical dimensions. It is always best to check tolerances to apply correct glass, glass beadings and weatherstrips.

POSIZIONAMENTO ACCESSORIO FERMAVETRO ARROTONDATO
ROUNDED GLASS BEADING ACCESSORY POSITIONING

WIN 140sa^{TT}
SYSTEM

Sezione fermavetri Glass beading section	Dimensione Size
(F)	(G)
1F14016	1F14054
28,5 mm	
1F14015	1F14053
24,5 mm	
1F14014	1F14052
20,5 mm	
1F14013	1F14051
16,5 mm	
1F14055	1F14049
14,5 mm	

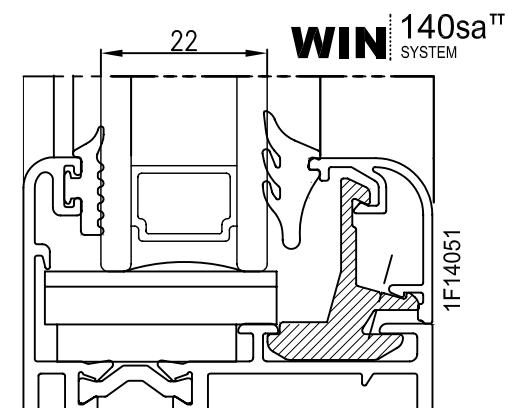
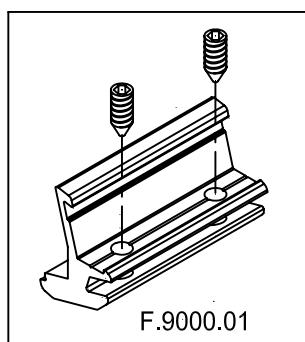


(F) = Fermavetro arrotondato a scatto

Rounded glass beading with snap mechanism

(G) = Fermavetro arrotondato con accessorio F.9000.01

Rounded glass beading with accessory F.9000.01

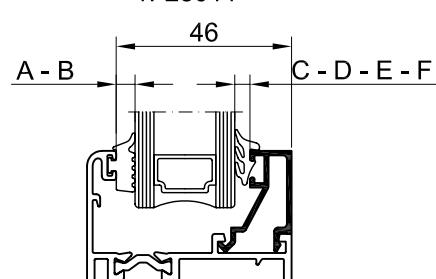


INSERIMENTO GUARNIZIONI, VETRI E FERMAVETRI ANTA "1F28011"
WEATHERSTRIPS, GLASS AND GLASS BEADINGS INSERT WING "1F28011"

WIN **140saTM**
SYSTEM

Articolo Item	Guarnizioni esterne External weatherstrips	Sezione Section	Articolo Item	Guarnizioni interne Internal weatherstrips	Sezione Section
10841.01	A = 3 mm		10861.01 10862.01	C = 5 mm	
10851.01	B = 5 mm		10871.01 10872.01	D = 6 mm	
			G.0004.EN	E = 3 mm	
			G.0005.EN	F = 4 mm	
Spessore vetri Glass thickness	Guarnizioni Weatherstrips	Dimensione fermavetri Glass beading size			Sezione fermavetri Glass beading section
4	A+E	36 mm			
4	B+D		1A59850		
5	B+C				
6	B+F / A+D				
7	B+E / A+C	31 mm			
8	A+F		1A59849		
9	A+E				
9	B+D				
10	B+C				
11	B+F / A+D				
12	B+E / A+C	26 mm			
13	A+F		1A59848		
14	A+E				
14	B+D				
15	B+C				
16	B+F / A+D				
17	B+E / A+C	21 mm			
18	A+F		1A59849		
19	A+E				
17	B+D				
18	B+C				
19	B+F / A+D				
20	B+E / A+C	18 mm			
21	A+F		1A62167		
22	A+E				
19	B+D				
20	B+C				
21	B+F / A+D				
22	B+E / A+C	16 mm			
23	A+F		1A59848		
24	A+E				
24	B+D				
25	B+C				
26	B+F / A+D				
27	B+E / A+C	11 mm			
28	A+F		1A64247		
29	A+E				
32	B+D				
33	B+C				
34	B+F / A+D				
35	B+E / A+C	3 mm			
36	A+F		1A64248		
37	A+E				

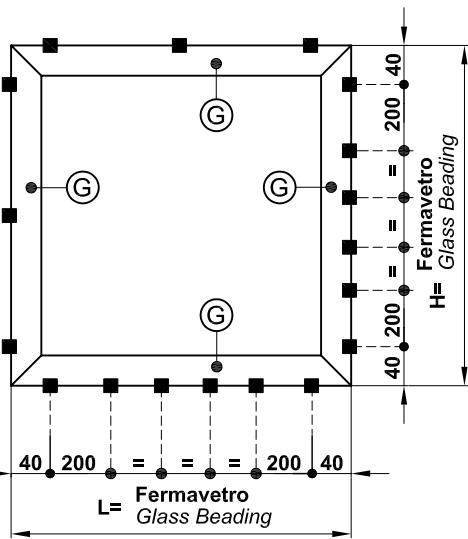
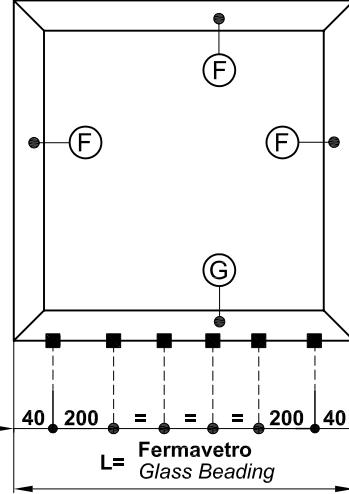
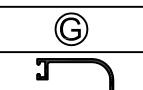
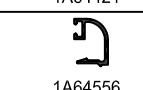
$$\begin{array}{ll}
 B+D & = 11 \\
 B+C & = 10 \\
 B+F & = 9 \\
 A+C / B+E & = 8 \\
 A+F & = 7 \\
 A+E & = 6
 \end{array}$$

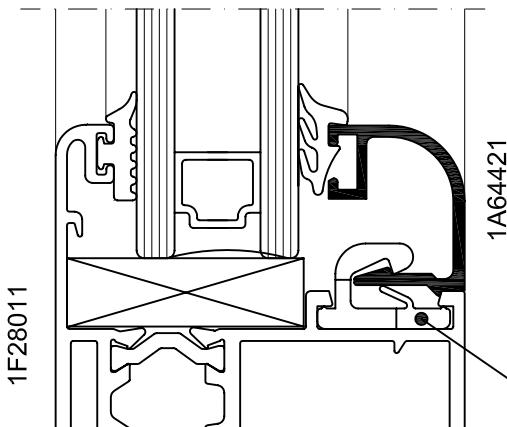


N.B.: Le combinazioni sopra indicate sono state ottenute considerando le quote teoriche. Si consiglia sempre di verificare le tolleranze per applicare vetri, fermavetri e guarnizioni ottimali
The above combinations are based on theoretical dimensions. It is always best to check tolerances to apply correct glass, glass beadings and weatherstrips.

POSIZIONAMENTO ACCESSORIO FERMAVETRO ARROTONDATO ANTA "1F28011"
RONDED GLASSES BEADING ACCESSORY POSITIONING WING "1F28011"

WIN **140sa^{TT}**
SYSTEM

Sezione Fermavetri Glass Beading Section	Dimensione Size	Soluzione 1 Solution 1	Soluzione 2 Solution 2
	36 mm		
	31 mm		
	26 mm		
	21 mm		
	18 mm		
	16 mm		
	11 mm		



1A64421

Art.: A.9931.TN

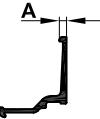
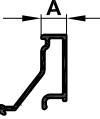
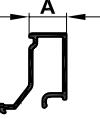
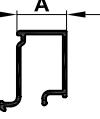
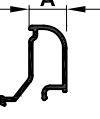
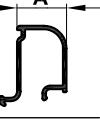
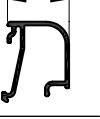
 = **Fermavetro arr. a scatto**
Radiused glass beading snap

 = **Fermavetro arr. con accessorio A.9931.TN**
Radiused glass beading with accessory A.9931.TN

 = Art. A.9931.TN

ELENCO FERMAVETRI
LIST OF GLASS BEADINGS

WIN **140saTM**
SYSTEM

Profilato Section	Sezione Cross section	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1F14002		2,5	0,196	95	0,024	—	—	—	—
1F14003		8,5	0,236	146	0,030	—	—	—	—
1F14004		12,5	0,245	151	0,034	—	—	—	—
1F14005		16,5	0,253	156	0,038	—	—	—	—
1F14006		20,5	0,281	170	0,042	—	—	—	—
1F14007		24,5	0,297	181	0,046	—	—	—	—
1F14012		12,5	0,235	145	0,032	—	—	—	—
1F14013		16,5	0,243	150	0,036	—	—	—	—
1F14014		20,5	0,272	165	0,040	—	—	—	—
1F14015		24,5	0,288	173	0,044	—	—	—	—
1F14044		4,5	0,222	108	0,026	—	—	—	—
1F14055		14,5	0,240	148	0,034	—	—	—	—
1F14062		10,5	0,242	123	0,032	—	—	—	—

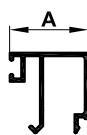
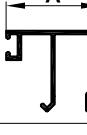
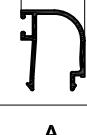
ELENCO FERMAVETRI
LIST OF GLASS BEADINGS

WIN **140sa^{TT}**
SYSTEM

Profilato Section	Sezione Cross section	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1F14065		8,5	0,226	140	0,028	—	—	—	—
1F14066		20,5	0,273	161	0,039	—	—	—	—
1F14068		19	0,259	159	0,039	—	—	—	—
1F14072		25,5	0,295	176	0,042	—	—	—	—
1F14073		17,5	0,251	149	0,034	—	—	—	—

ELENCO FERMAVETRI "PER ANTA 1F28011"
LIST OF GLAZING BEADS "FOR WING 1F28011"

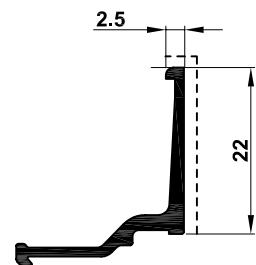
WIN 140saTM
 SYSTEM

Profilato Section	Sezione Cross section	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1A58948		26	0,315	198	0,048	—	—	—	—
1A58949		21	0,272	172	0,043	—	—	—	—
1A59847		11	0,252	159	0,033	—	—	—	—
1A59848		16	0,257	162	0,038	—	—	—	—
1A59849		31	0,332	208	0,053	—	—	—	—
1A59850		36	0,348	218	0,058	—	—	—	—
1A62167		18	0,262	165	0,040	—	—	—	—
1A64052		21	0,255	159	0,038	—	—	—	—
1A64053		26	0,296	185	0,043	—	—	—	—
1A64246		18	0,244	154	0,035	—	—	—	—
1A64247		16	0,240	151	0,033	—	—	—	—
1A64248		11	0,234	146	0,028	—	—	—	—

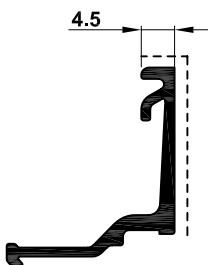
ELENCO FERMAVETRI "PER ANTA 1F28011"
LIST OF GLAZING BEADS "FOR WING 1F28011"

WIN **140saTM**
 SYSTEM

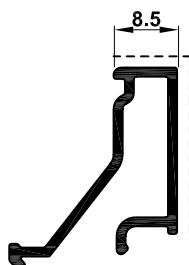
Profilato Section	Sezione Cross section	A mm	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1A64421		18	0,243	125	0,035	—	—	—	—
1A64552		21	0,256	131	0,038	—	—	—	—
1A64553		26	0,276	141	0,043	—	—	—	—
1A64554		31	0,296	151	0,048	—	—	—	—
1A64555		36	0,317	161	0,053	—	—	—	—
1A64556		16	0,236	121	0,033	—	—	—	—
1A64557		11	0,215	108	0,028	—	—	—	—
1A68137		36	0,328	205	0,054	—	—	—	—
1A70796		3	0,181	94	0,025	—	—	—	—



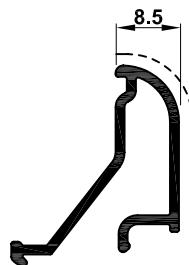
1F14002



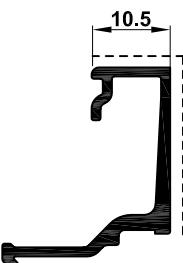
1F14044



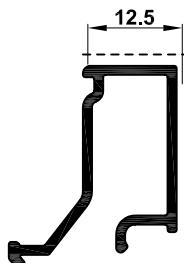
1F14003



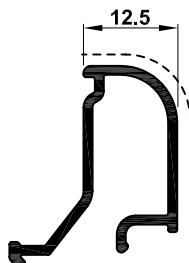
1F14065



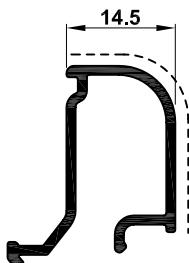
1F14062



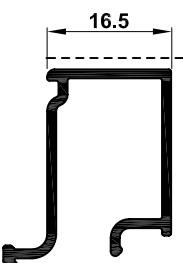
1F14004



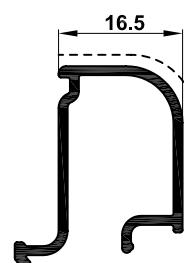
1F14012



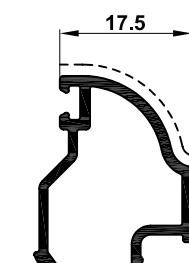
1F14055



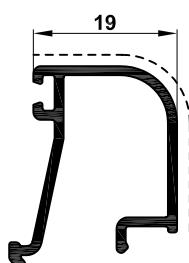
1F14005



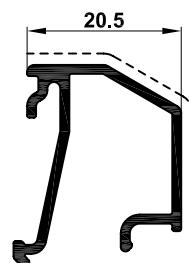
1F14013



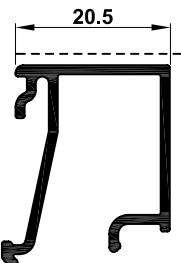
1F14073



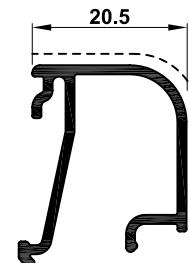
1F14068



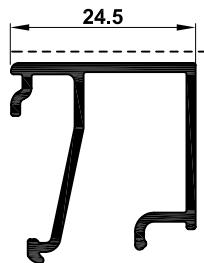
1F14066



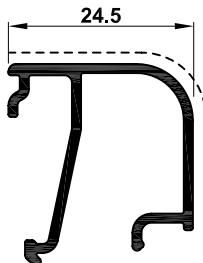
1F14006



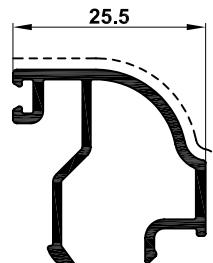
1F14014



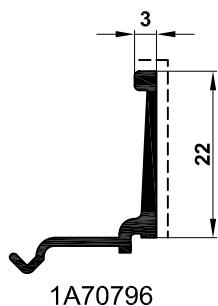
1F14007



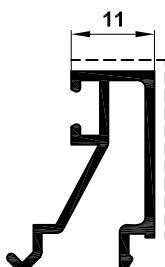
1F14015



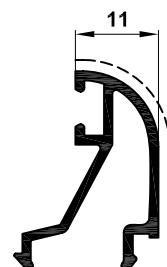
1F14072



1A70796



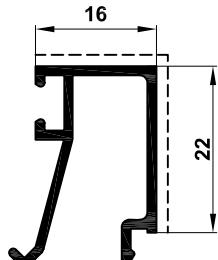
1A59847



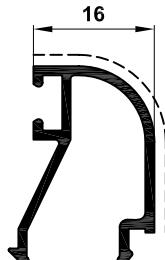
1A64248



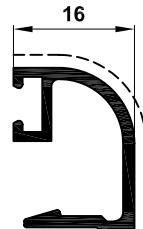
1A64557



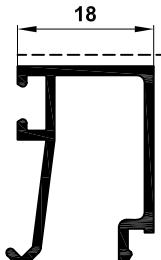
1A59848



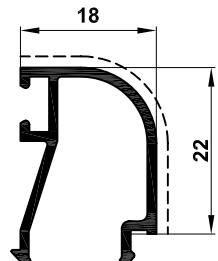
1A64247



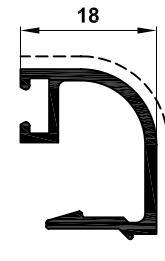
1A64556



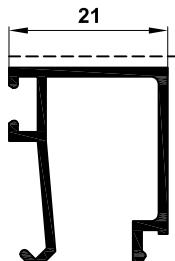
1A62167



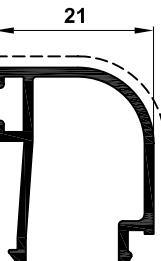
1A64246



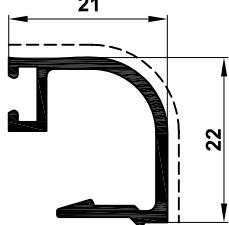
1A64421



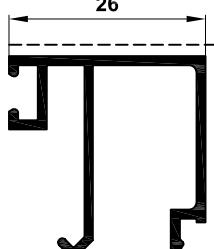
1A58949



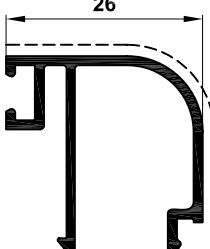
1A64052



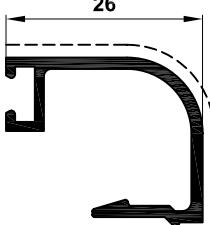
1A64552



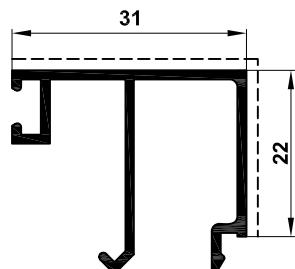
1A58948



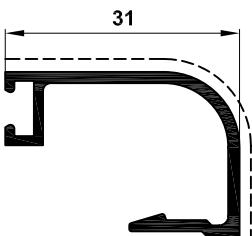
1A64053



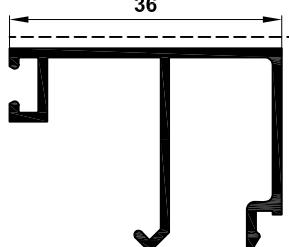
1A64553



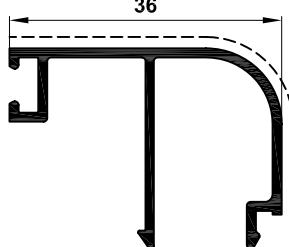
1A59849



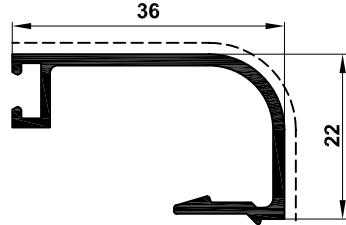
1A64554



1A59850



1A68137

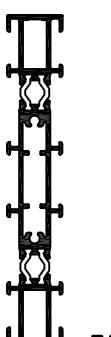
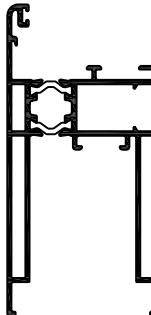
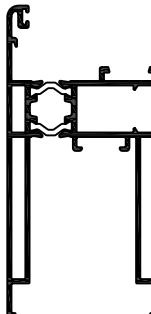


1A64555

Profilato Section	Comp.ne Composition	Sezione Cross section	Y X-X Y	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1F23003				0,280	153	0,061	0,08	0,10	3,33	1,18
1F23004				0,304	162	0,064	0,09	0,10	3,75	1,35
1F23006				0,755	344	0,044	4,82	1,97	9,18	2,72
1F23012				0,327	73	0,044	-	-	-	-
1F23013				0,454	130	0,077	-	-	-	-
1F23014				0,595	233	0,090	0,36	0,26	14,92	3,84
1F28004	1F25031 A.0311.LN A.0311.LN 1F25031			0,996	196	0,090	2,51	1,92	9,15	3,40
1F28005	1F25033 A.0311.LN A.0311.LN 1F25033			0,850	181	0,076	1,29	1,15	7,38	2,75
1F28006	1F15002 A.0311.LN A.0311.LN 1F25034 A.0311.LN A.0311.LN 1F15002			2,232	517	0,046	132,11	19,43	2,87	2,50

ELENCO PROFILATI
LIST OF SECTIONS

WIN 140sa^{TT}
SYSTEM

Profilato Section	Comp.ne Composition	Sezione Cross section	Y X-X Y	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
1F28008	1F15002 A.0311.LN A.0311.LN 1F25034 A.0311.LN A.0311.LN 1F15001			2,338	576	0,071	149,01	20,88	5,12	1,59
1F28010	1F25041 A.0311.LN A.0311.LN 1F25042			2,169	585	0,219	59,14	10,25	34,81	11,91
1F28011	In allestimento Under construction 1F25041 A.0311.LN A.0311.LN 1F25044			2,157	575	0,219	58,75	10,21	34,66	11,82

ELENCO BARRETTE IN POLIAMMIDE
LIST OF REINFORCED POLYAMIDE BARS

WIN 140sa^{TT}
SYSTEM

Codice Code	Sezzone Cross section	Peso Weight Kg/m
A.0311.LN		0,045

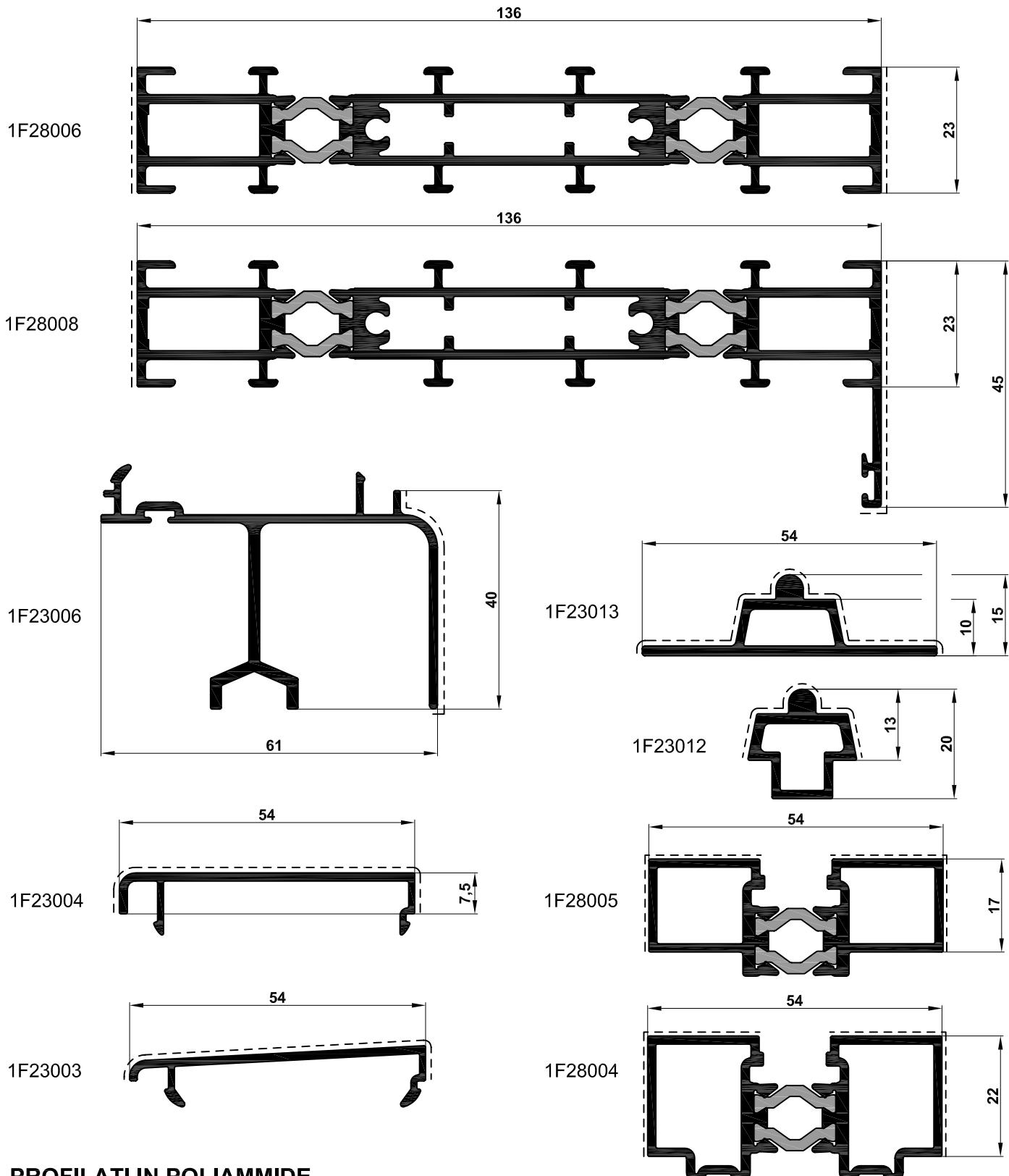
Scala 1:1
Scale 1:1



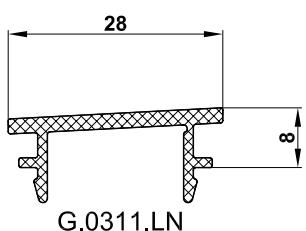
ELENCO PROFILATI " PORTA SCORREVOLE A SCOMPARSA "
LIST OF SECTIONS " SLIDING HIDDEN DOOR "

WIN 140sa^{TT}
 SYSTEM

Profilato Section	Sezione Cross section	Y X-X Y	Peso Weight Kg/m	Perimetro Perimeter mm	Superficie in vista Exposed surface m ² /m	Jx cm ⁴	Wx cm ³	Jy cm ⁴	Wy cm ³
800738			0,170	92	0,027	0,48	0,35	0,05	0,06
800814			0,613	224	0,000	2,00	0,80	6,41	2,31
800815			0,465	192	0,027	0,86	0,73	3,62	1,58
800816			0,585	295	0,117	1,85	0,63	13,19	3,55
1F23009			0,811	334	0,070	7,69	2,03	10,10	3,21
1F23010			0,285	105	0,000	0,11	0,13	1,05	0,71
1F23011			0,979	267	0,000	4,62	1,68	8,79	3,27
1F28009	1F25040 A.0311.LN A.0311.LN 1F25040		0,998	247	0,120	2,60	1,96	9,72	3,61



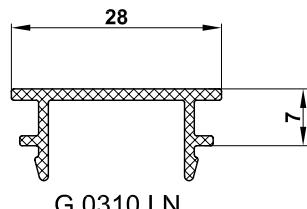
PROFILATI IN POLIAMMIDE
POLYAMIDE SECTIONS



F6-140sa-B.01

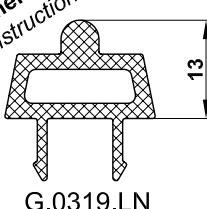
Rev. : 2012
Febbraio
February

Profilati, accessori e guarnizioni di questo catalogo sono proprietà di Sapa, titolare di tutti i diritti di esclusiva.



G.0310.LN

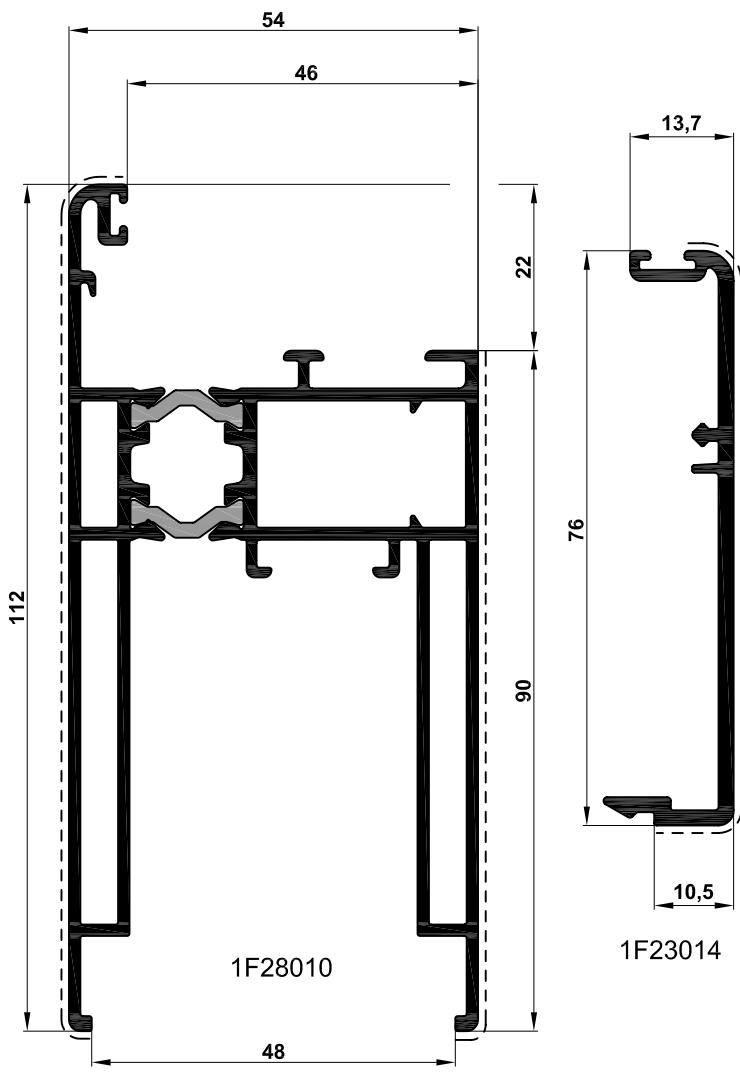
In allestimento
Under construction



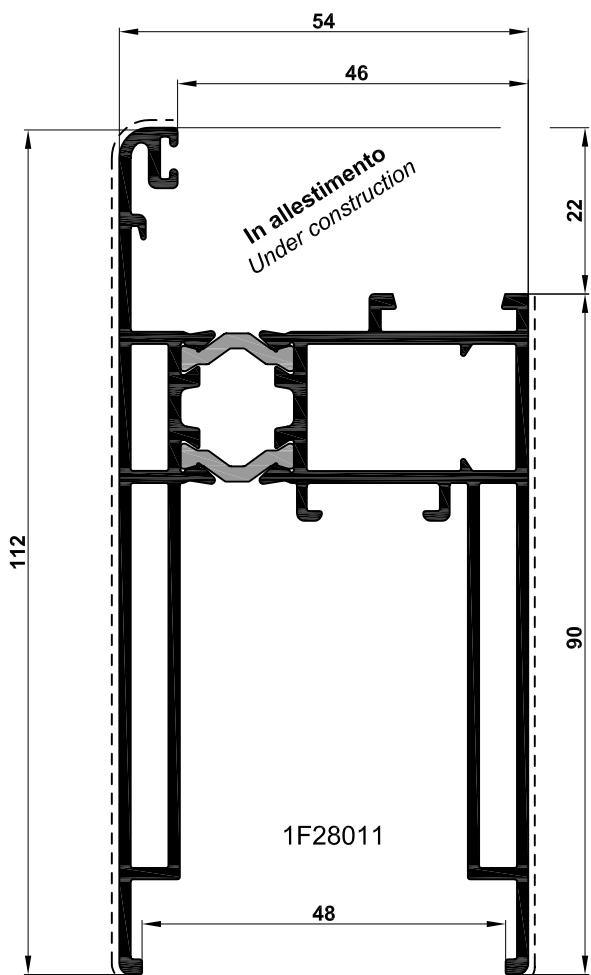
G.0319.LN

The sections, accessories and weatherstrips in this catalogue belong to Sapa as sole patentee.

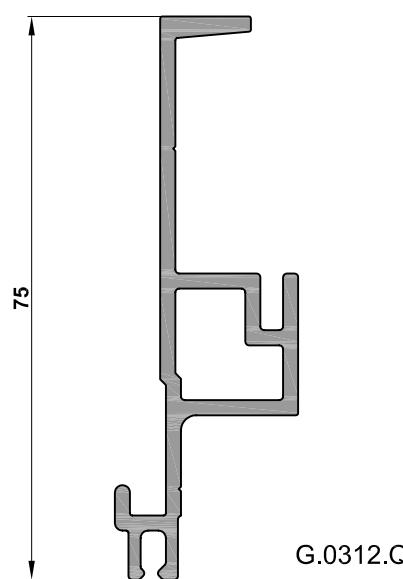
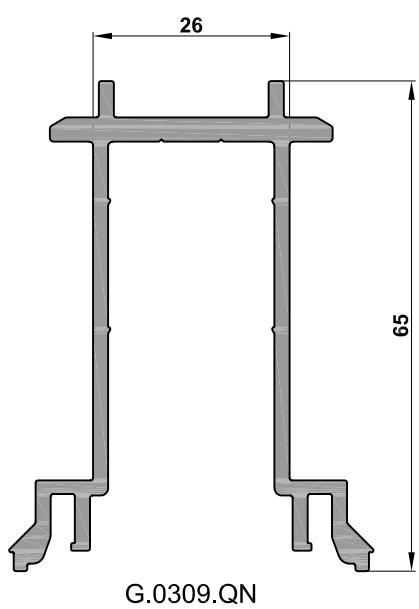
sapa:

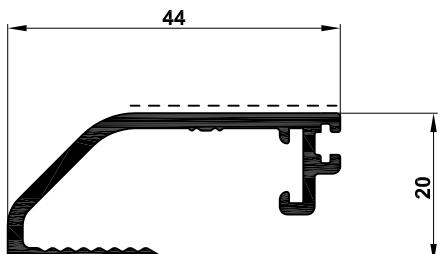


ANTA CON FERMAVETRI "CAMERA EUROPEA"
WING FOR GLASS BEADING "EUROPEAN CHAMBER"

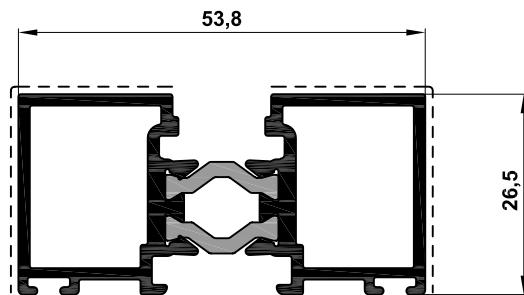


PROFILATI IN PVC - RIGIDO
PVC SECTIONS

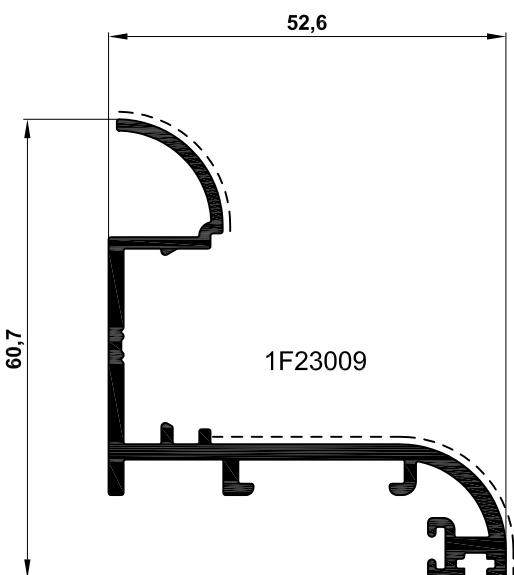




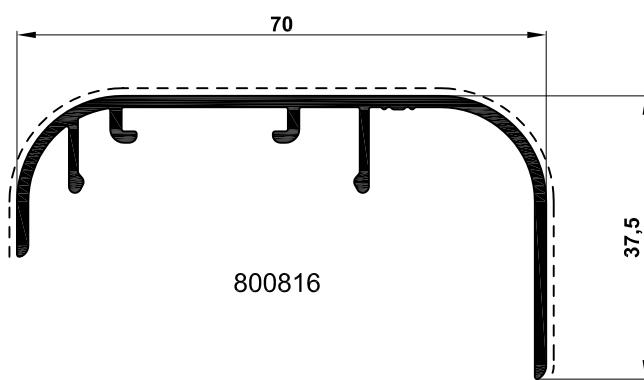
800815



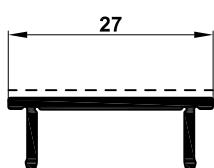
1F28009



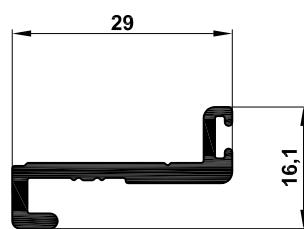
1F23009



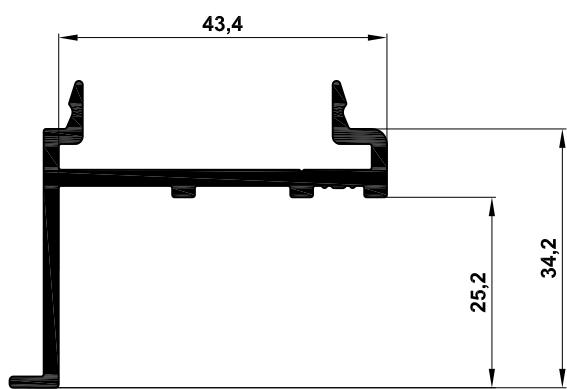
800816



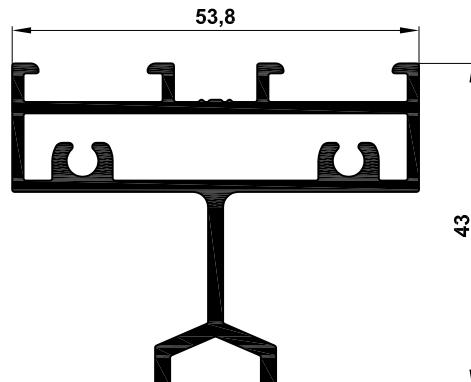
800738



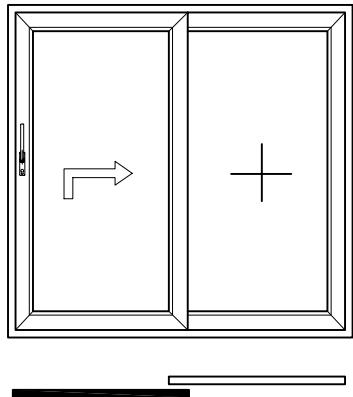
1F23010



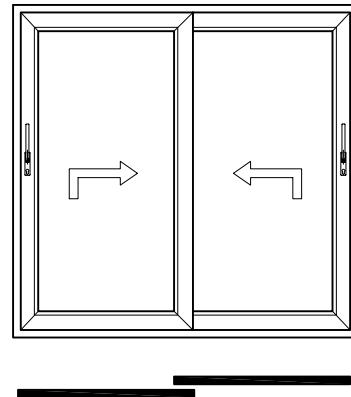
800814



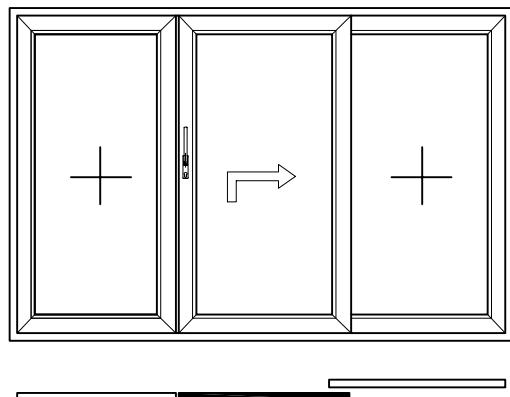
1F23011



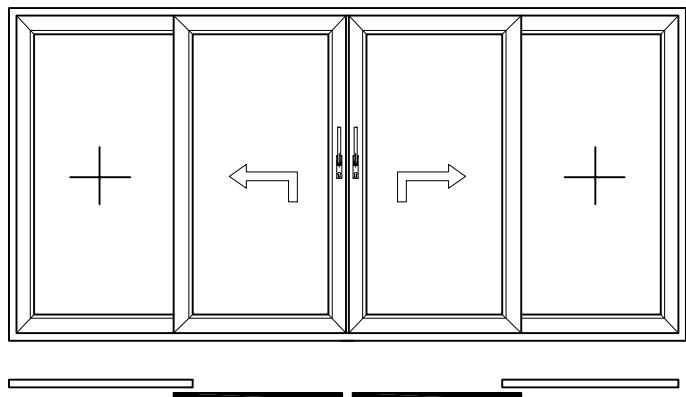
Schema A
1 anta mobile, 1 anta fissa
disegno montaggio a sinistra
*1 mobile wing, 1 fix wing
left side mounting scheme*



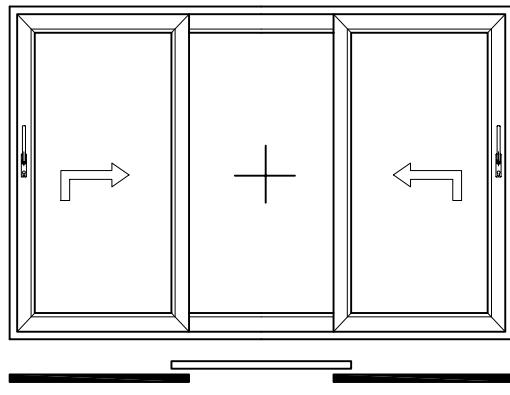
Schema D
2 ante mobili
disegno montaggio a sinistra e a destra
*2 mobile wings
left and right side mounting scheme*



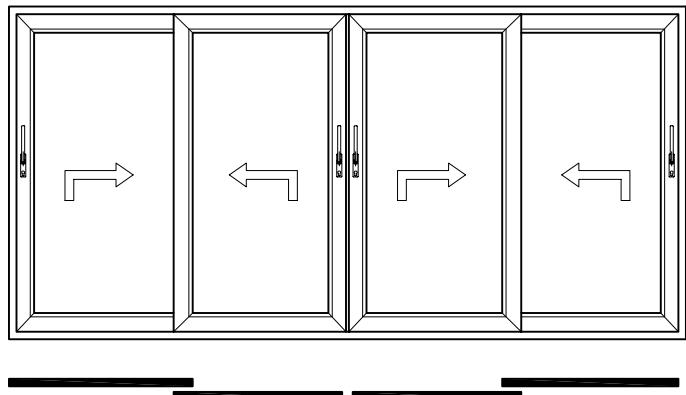
Schema G
1 anta mobile, 2 ante fisse
disegno montaggio a sinistra
*1 mobile wing, 2 fix wings
left side mounting scheme*



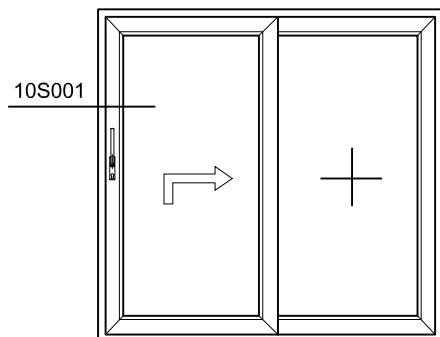
Schema C
2 ante mobili, 2 ante fisse
disegno montaggio a sinistra e a destra
*2 mobile wings, 2 fix wings
left and right side mounting scheme*



Schema K
2 ante mobili, 1 anta fissa
disegno montaggio a sinistra e a destra
*2 mobile wings, 1 fix wings
left and right side mounting*

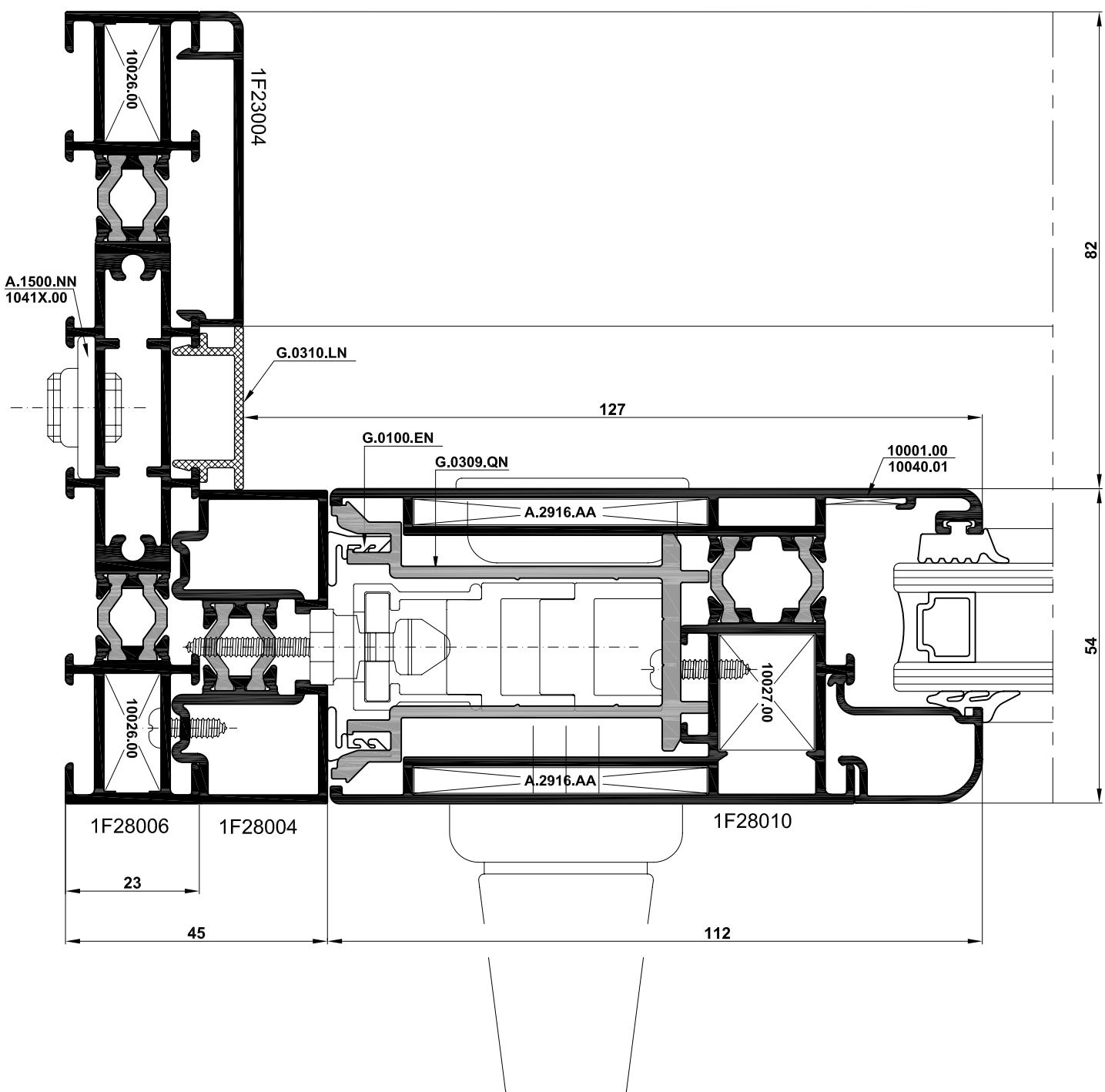


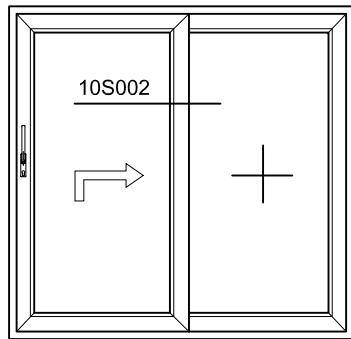
Schema F
4 ante mobili
disegno montaggio a sinistra e a destra
*2 mobile wings, 2 fix wings
left and right side mounting*



Schema A

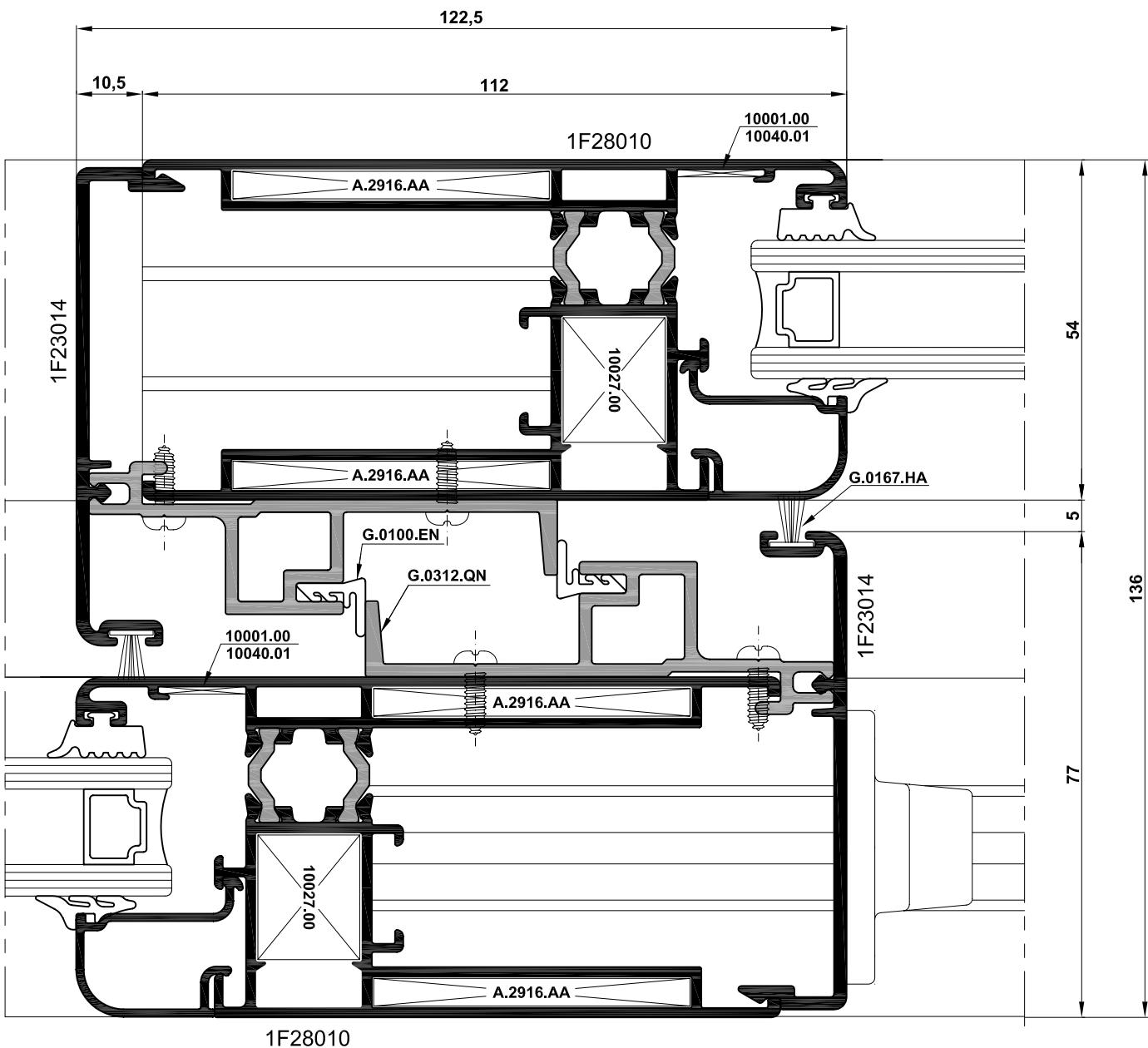
SEZ. 10S001

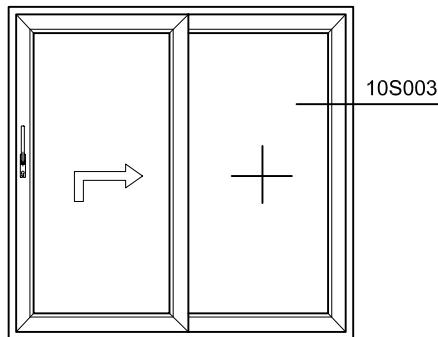




Schema A

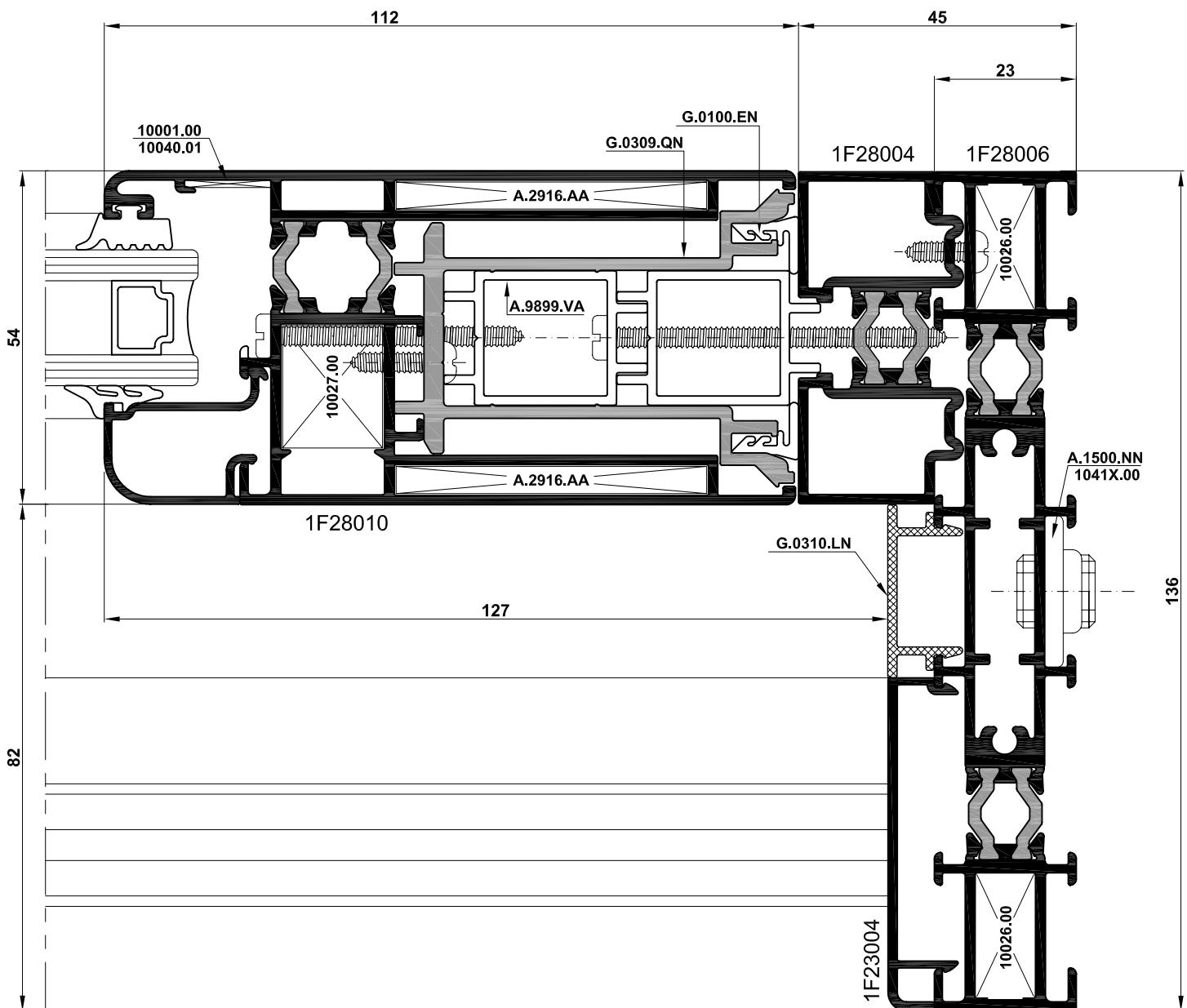
SEZ. 10S002

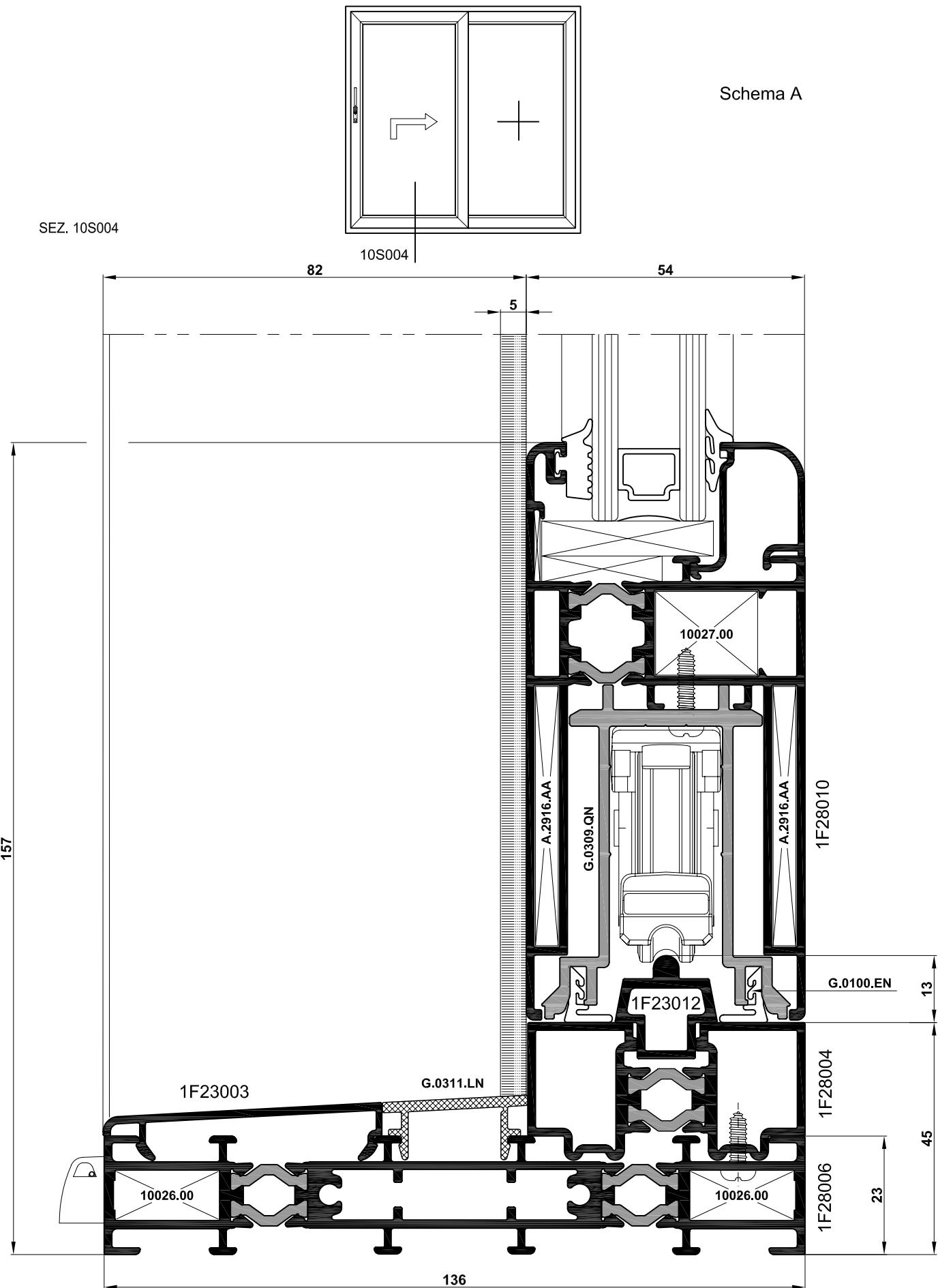




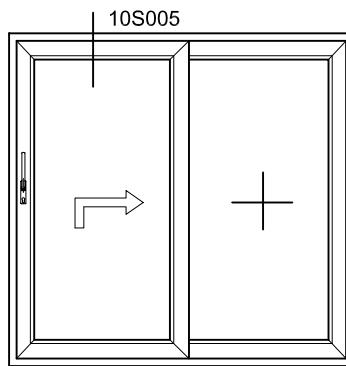
Schema A

SEZ. 10S003

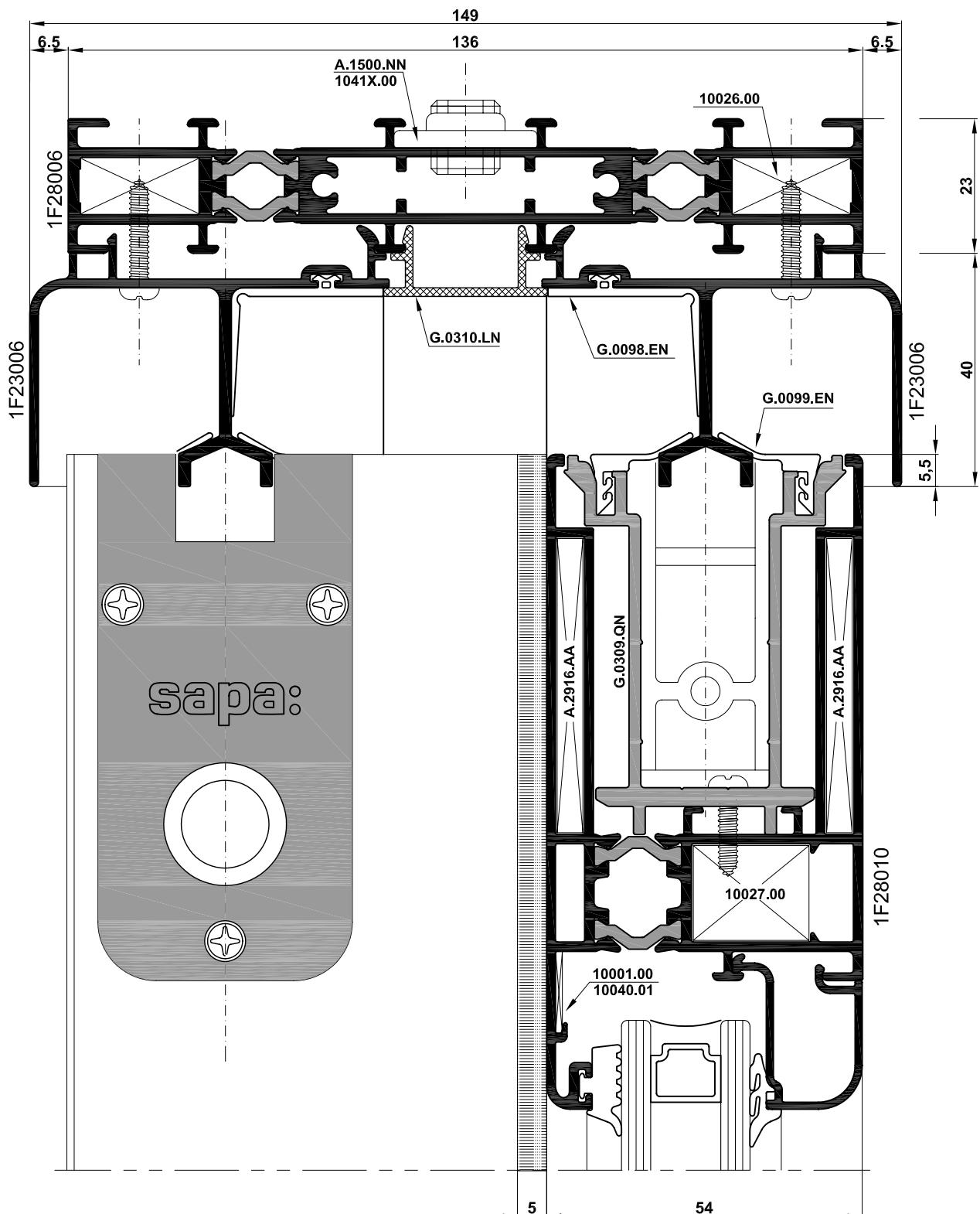




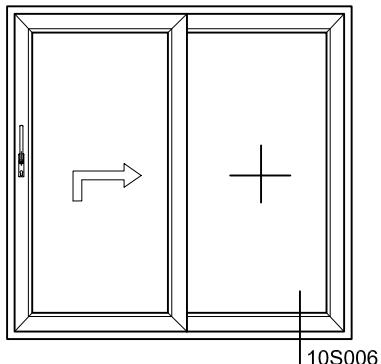
SEZ. 10S005



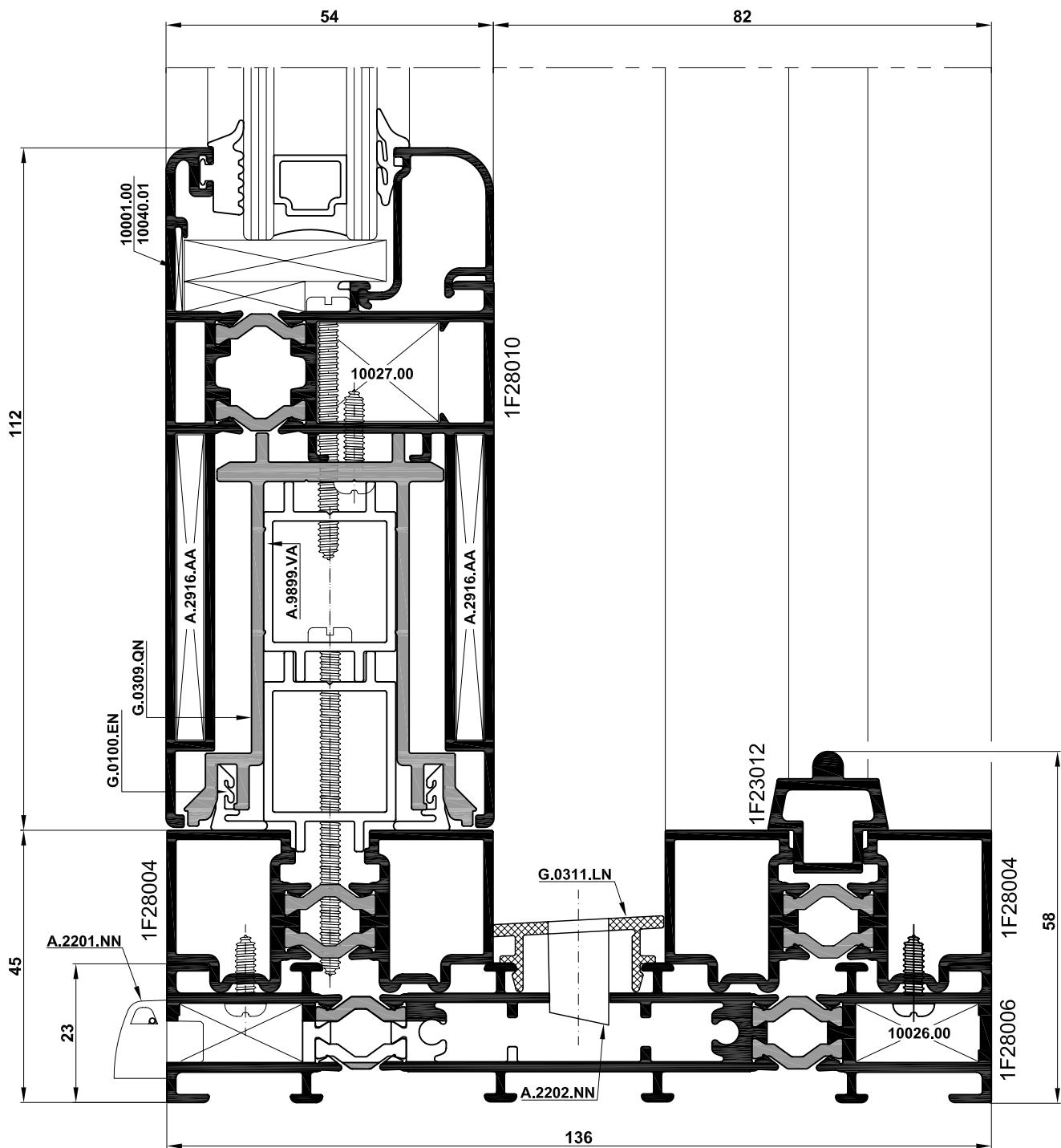
Schema A

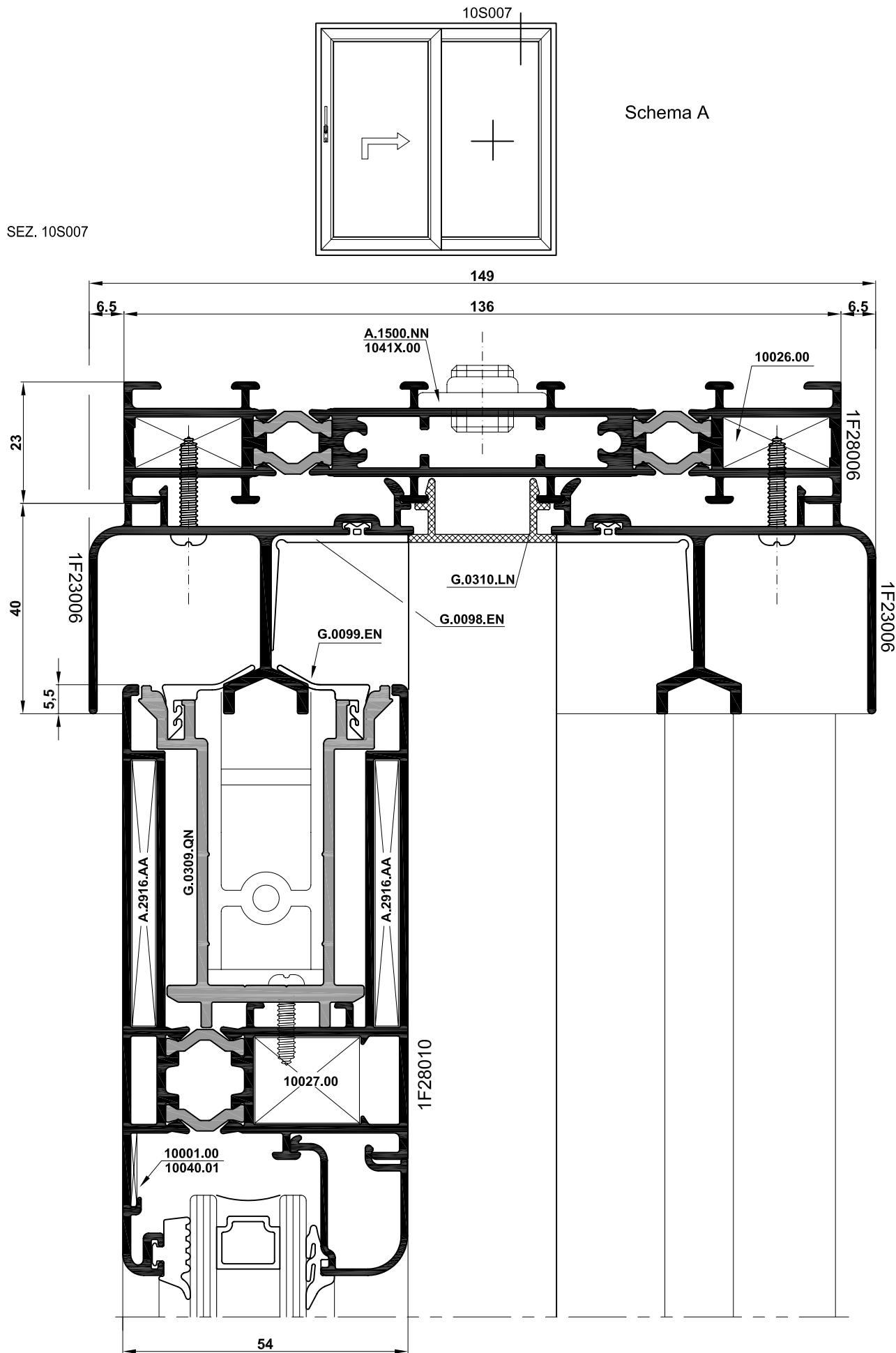


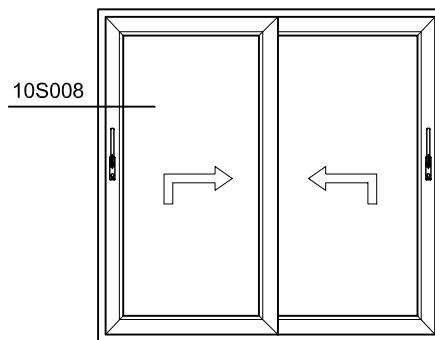
SEZ. 10S006



Schema A



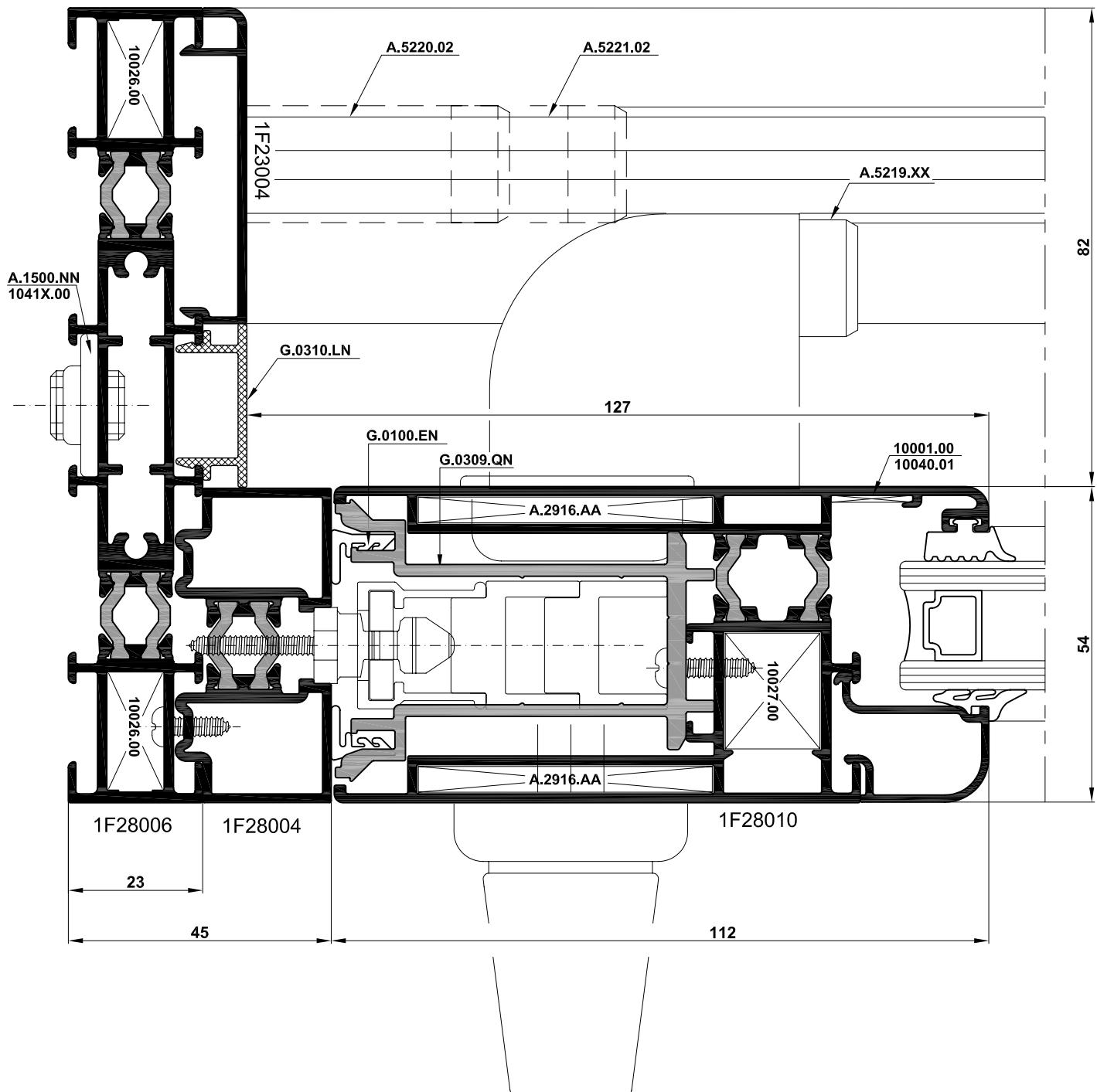


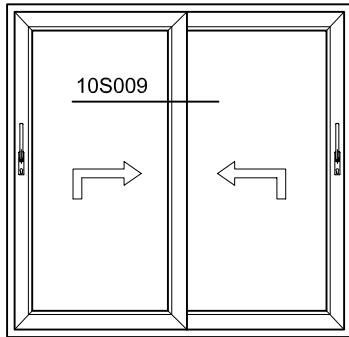


Schema D

SEZ. 10S008

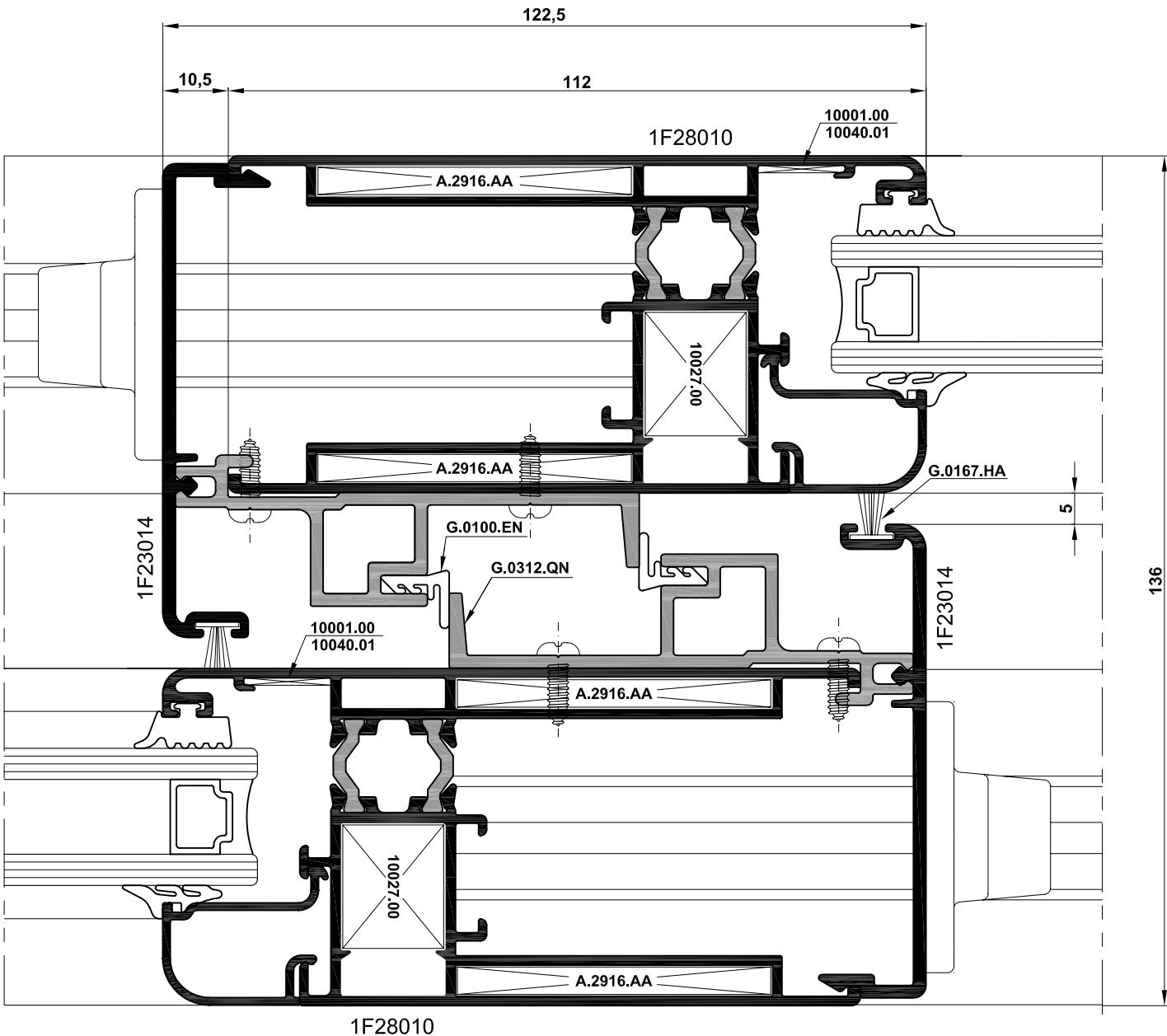
- A.5220.02 Variante paracolpo per ante asimmetriche - Variant bumpers wings asymmetric
 A.5221.02 Variante paracolpo per ante simmetriche - Variant bumpers wings symmetric

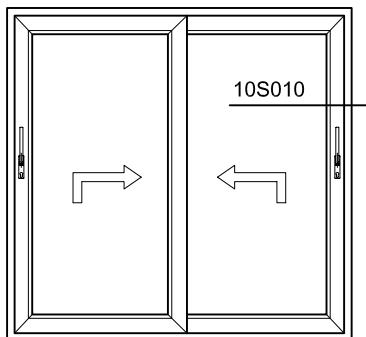




Schema D

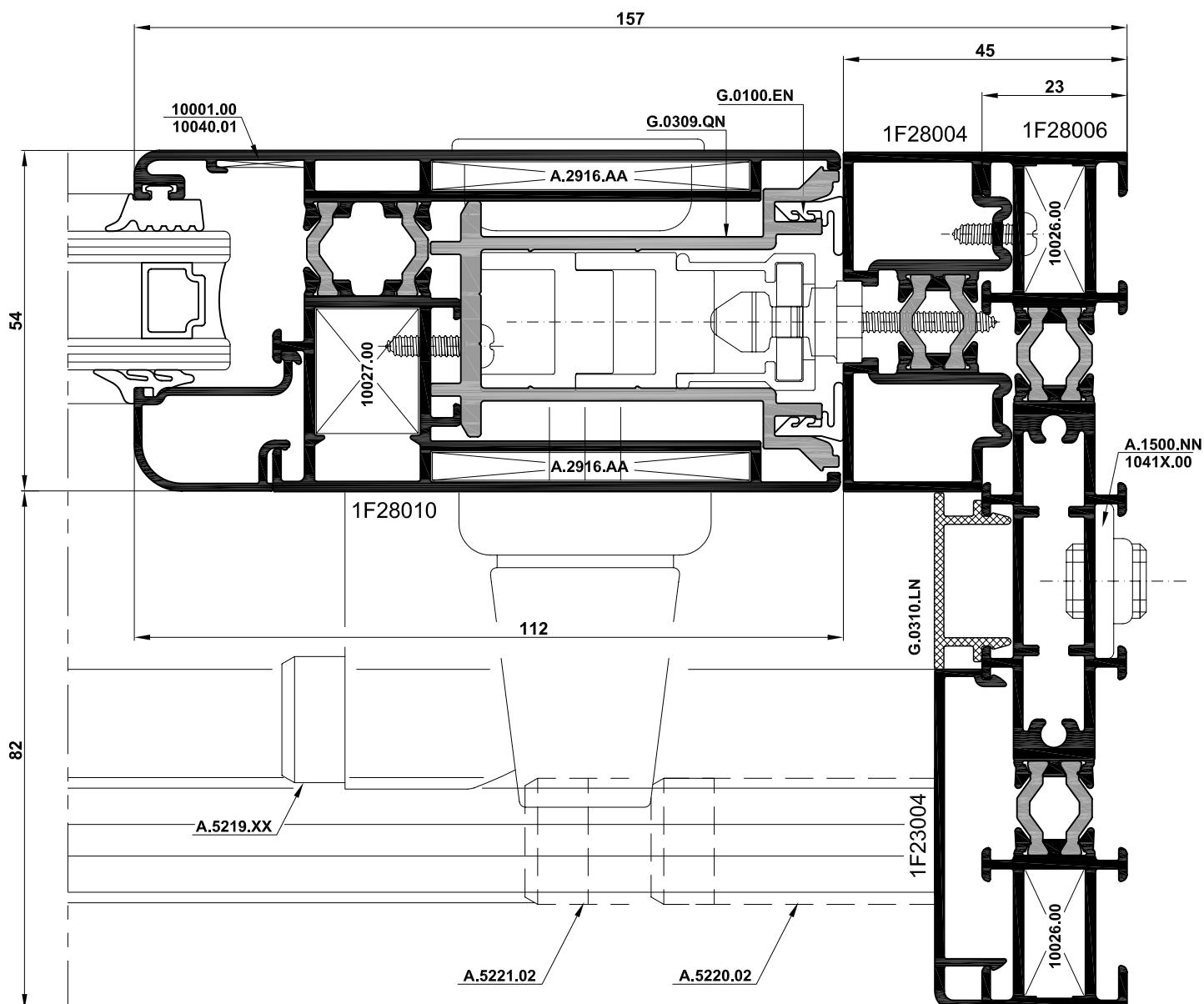
SEZ. 10S009





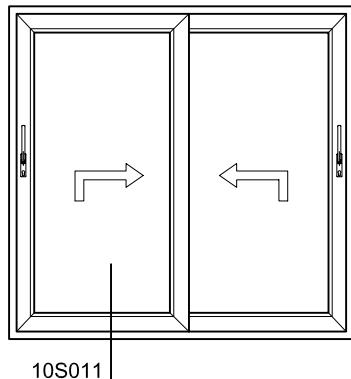
Schema D

SEZ. 10S010

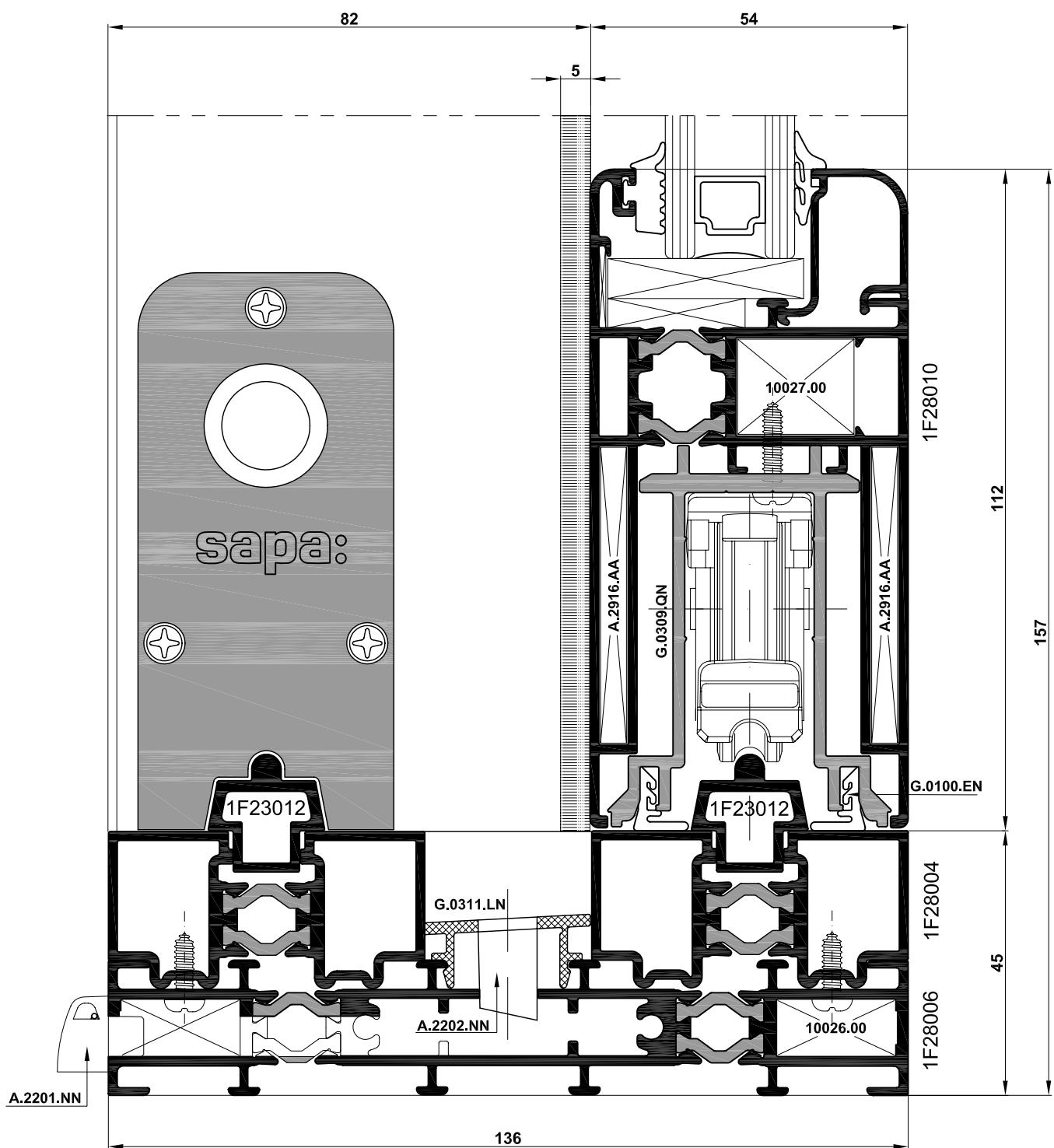


A.5220.02 Variante paracolpo per ante asimmetriche - Variant bumpers wings asymmetric
 A.5221.02 Variante paracolpo per ante simmetriche - Variant bumpers wings symmetric

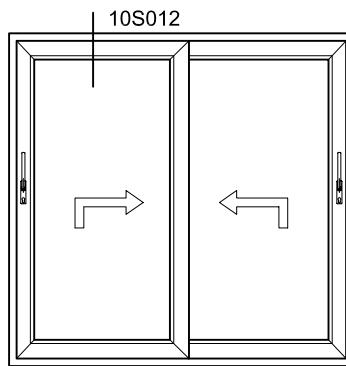
SEZ. 10S011



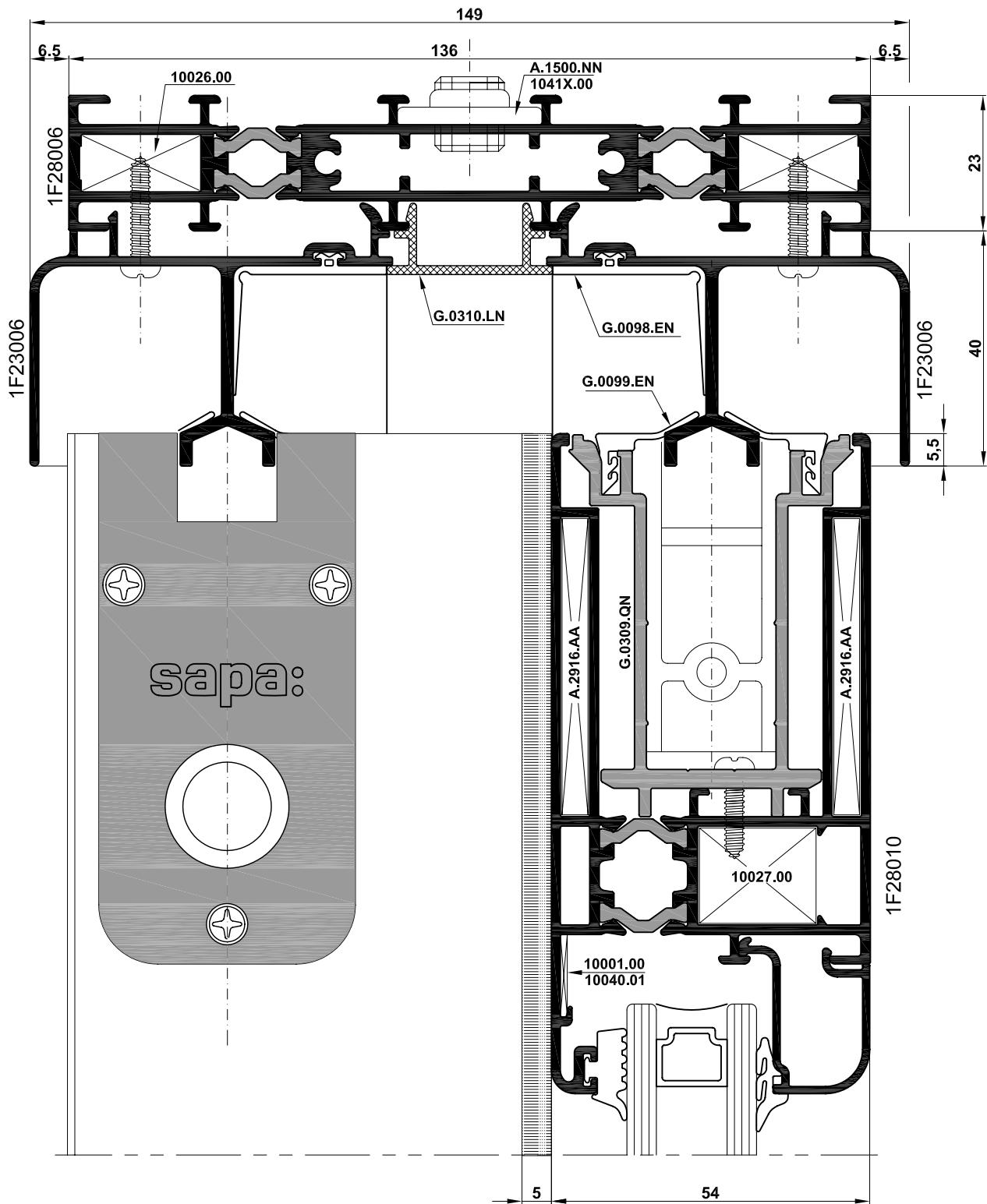
Schema D

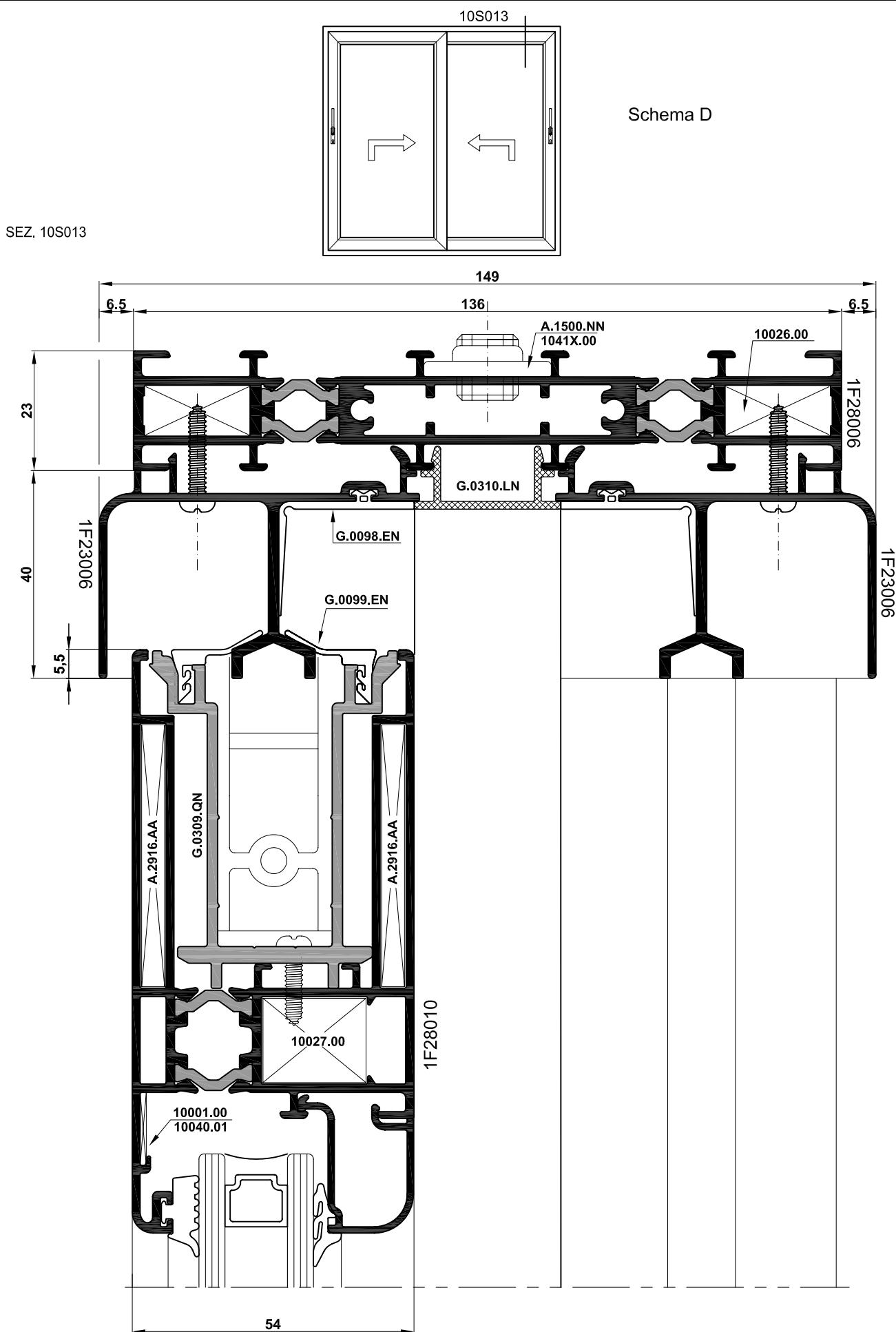


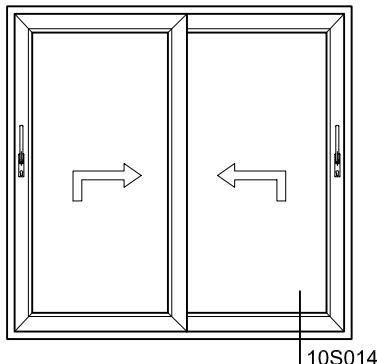
SEZ. 10S012



Schema D



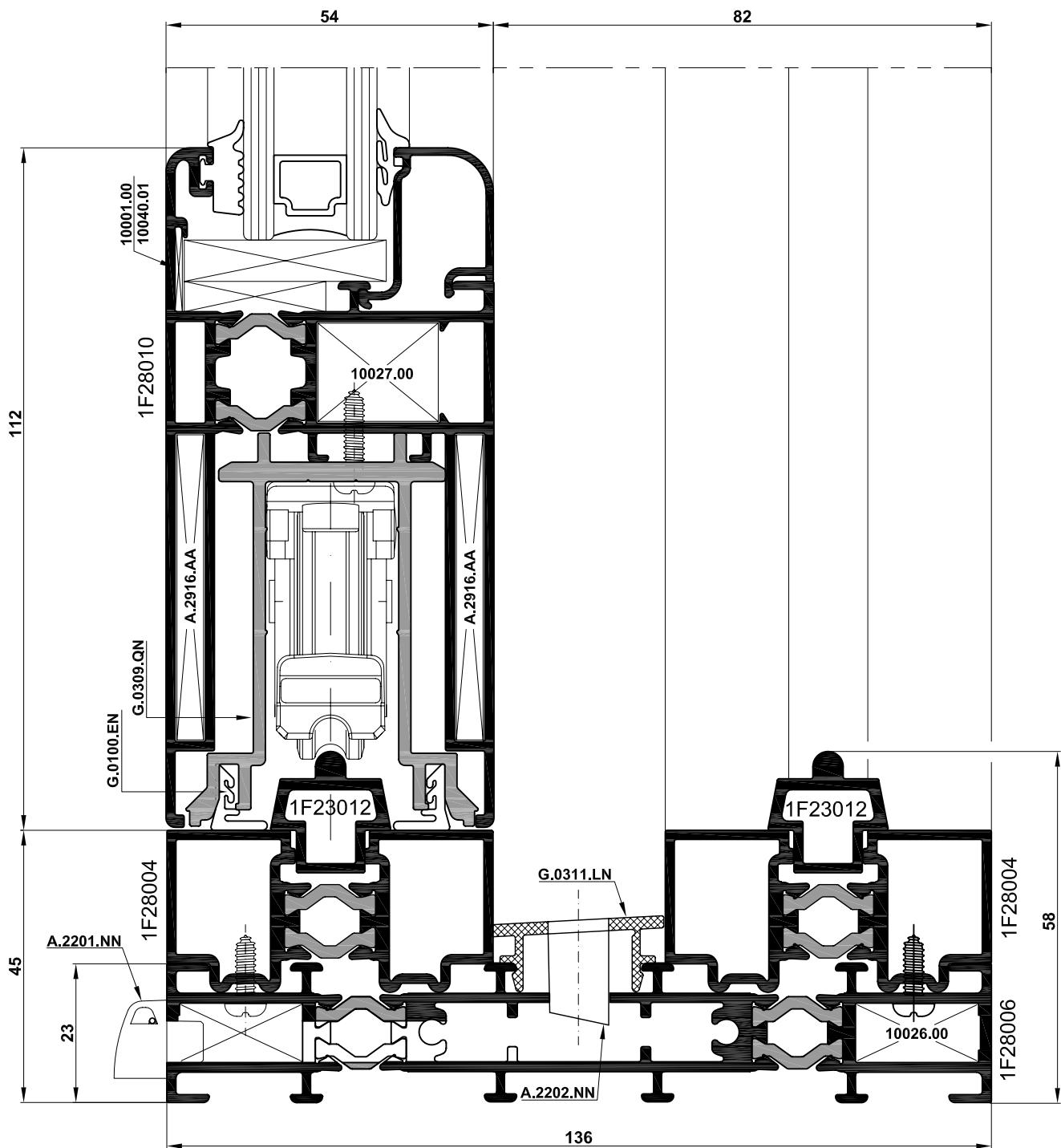


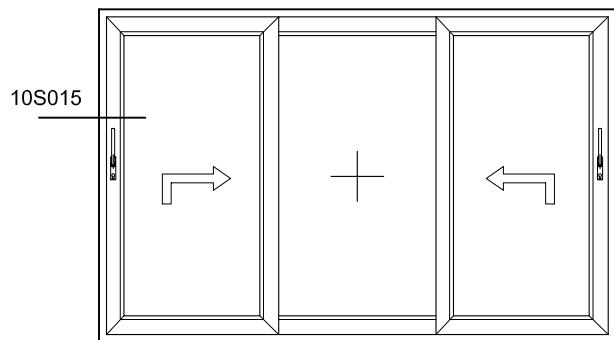


SEZ. 10S014

10S014

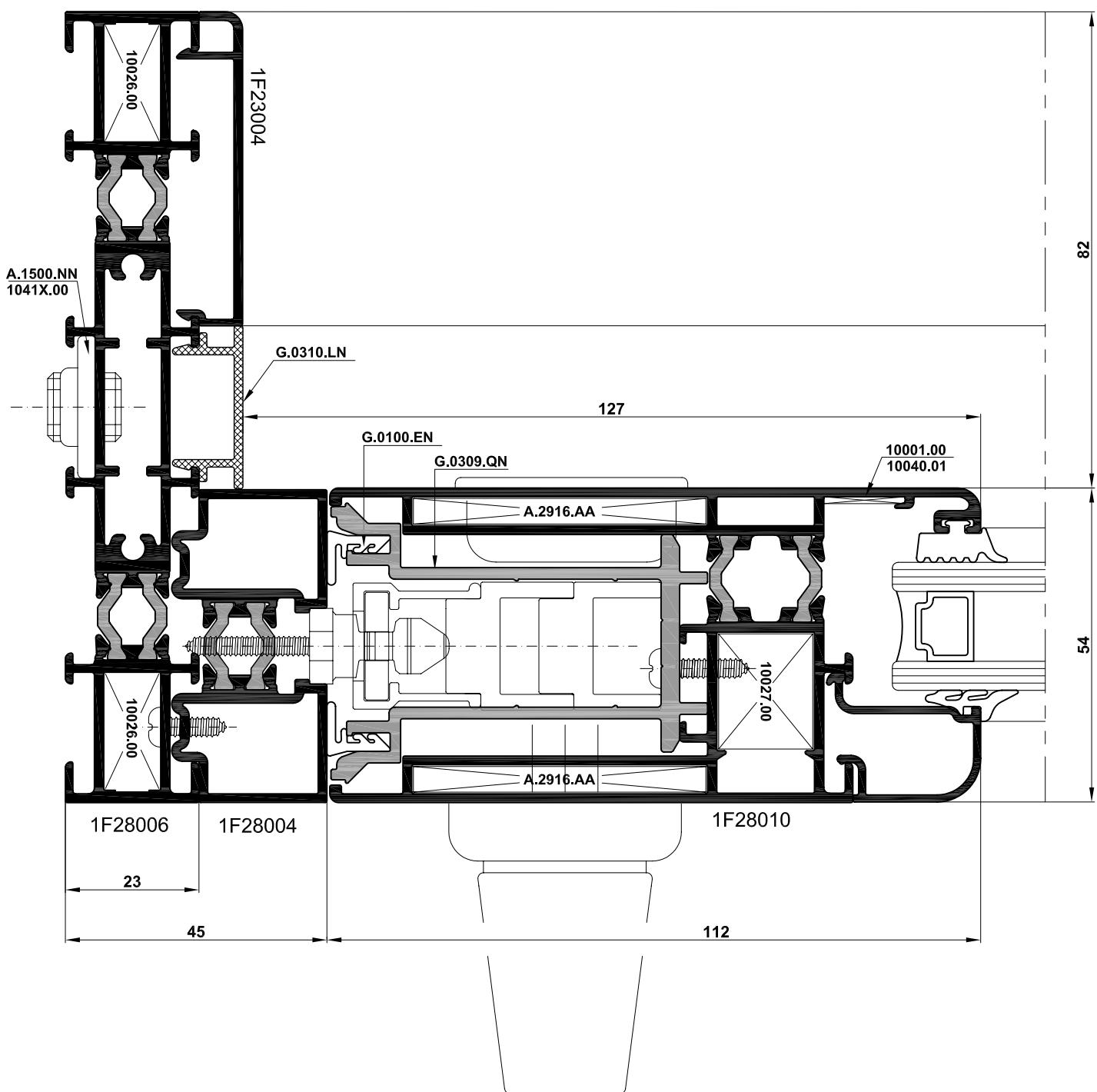
Schema D

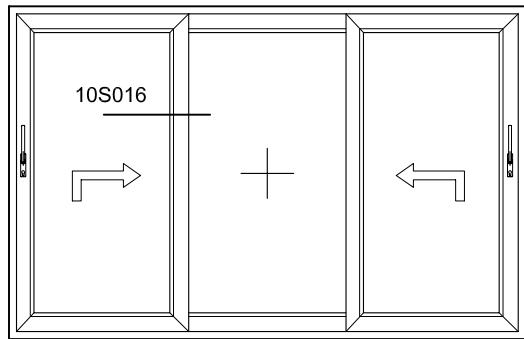




Schema K

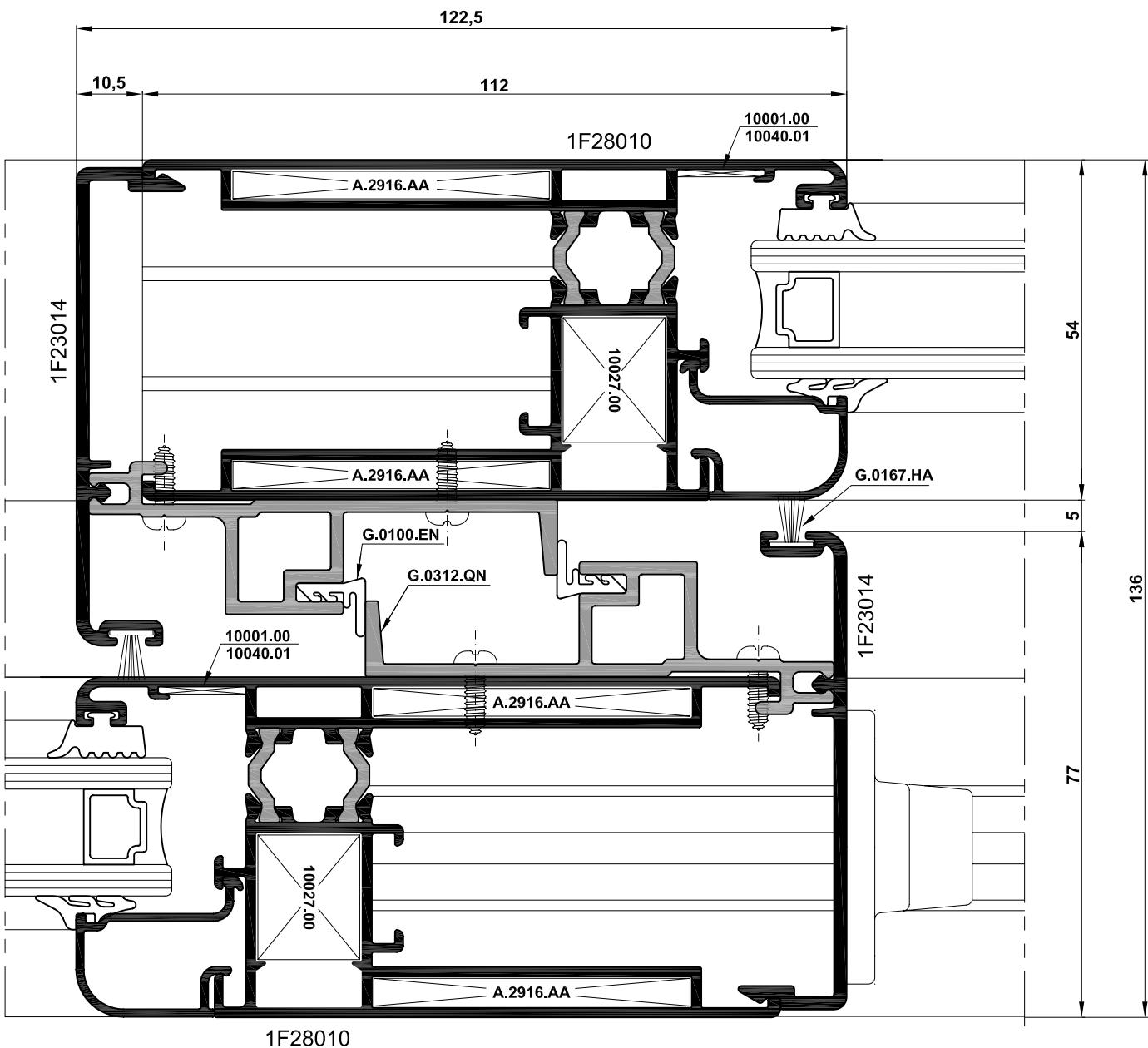
SEZ. 10S015

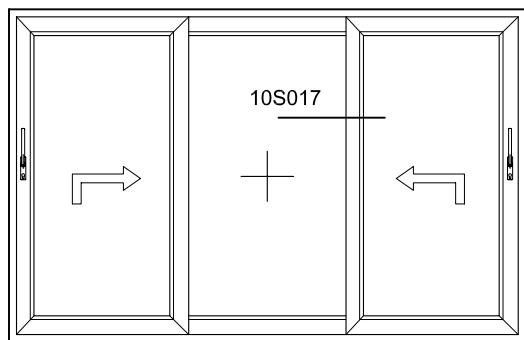




Schema K

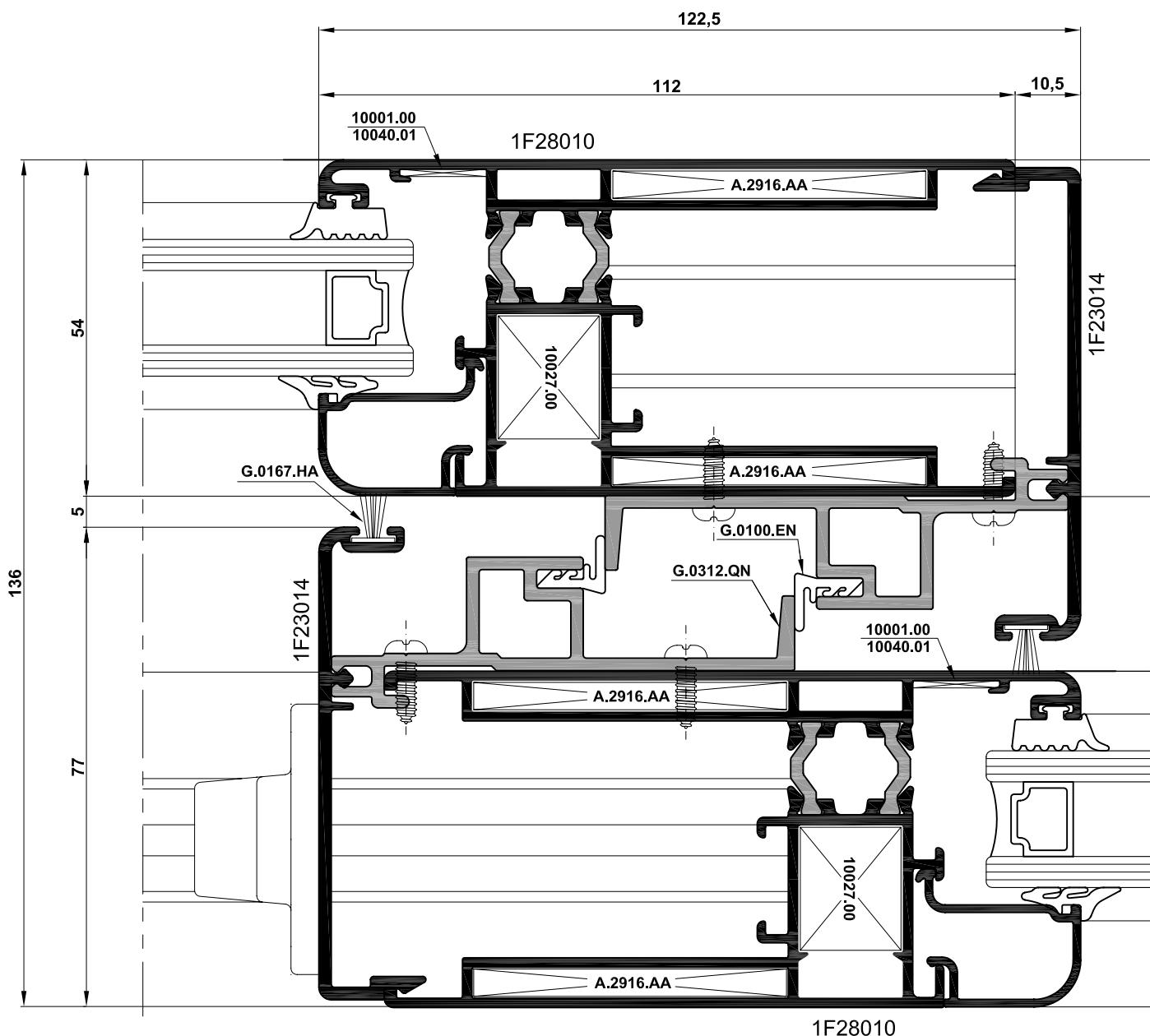
SEZ. 10S016

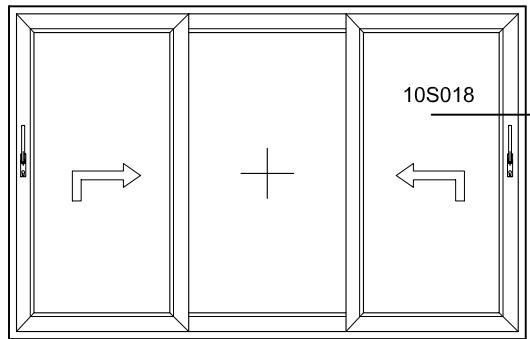




Schema K

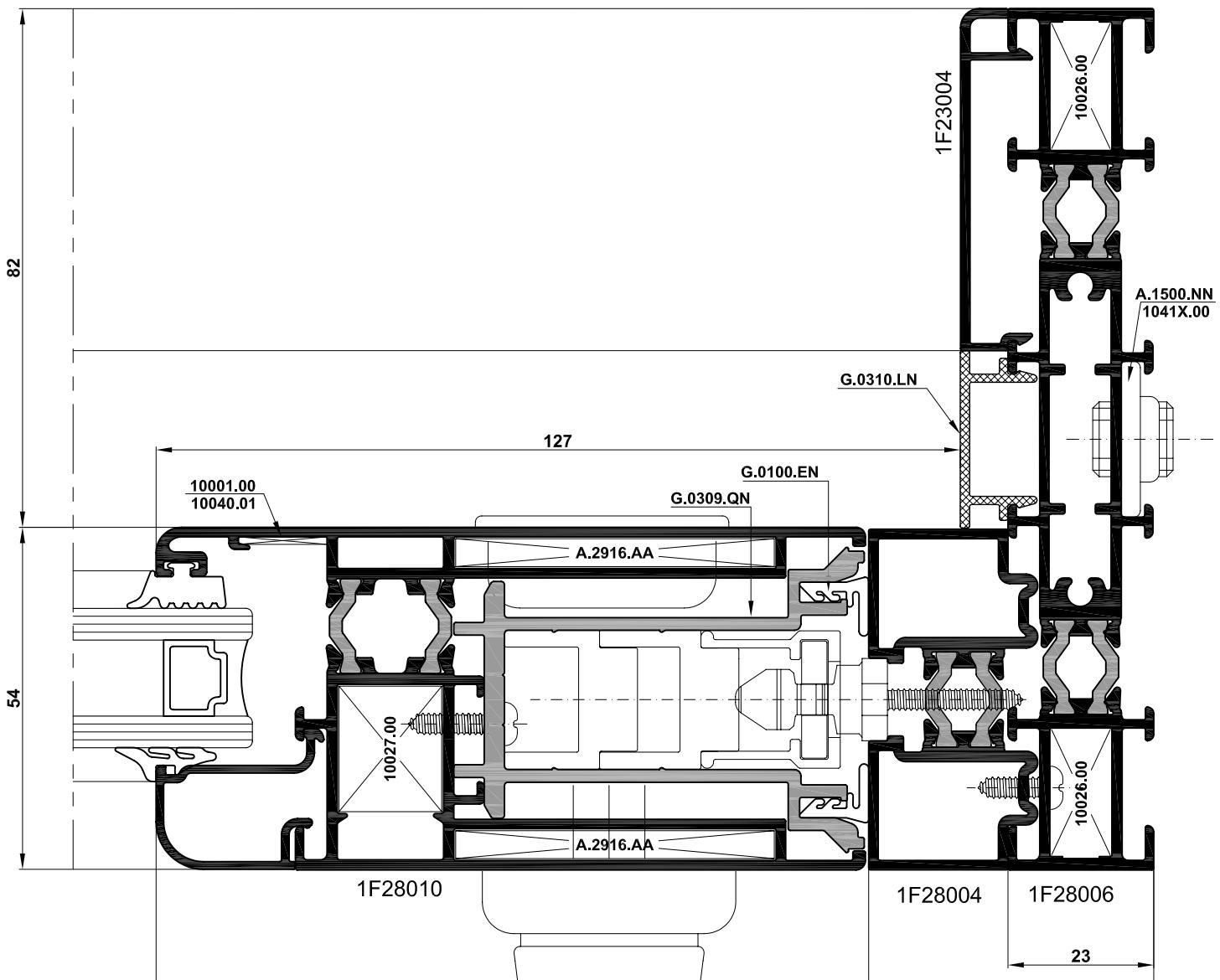
SEZ. 10S017

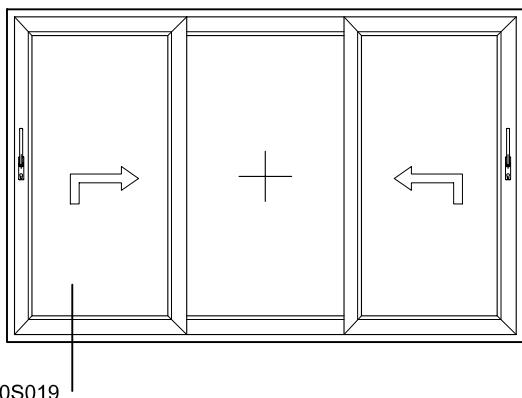




Schema K

SEZ. 10S018

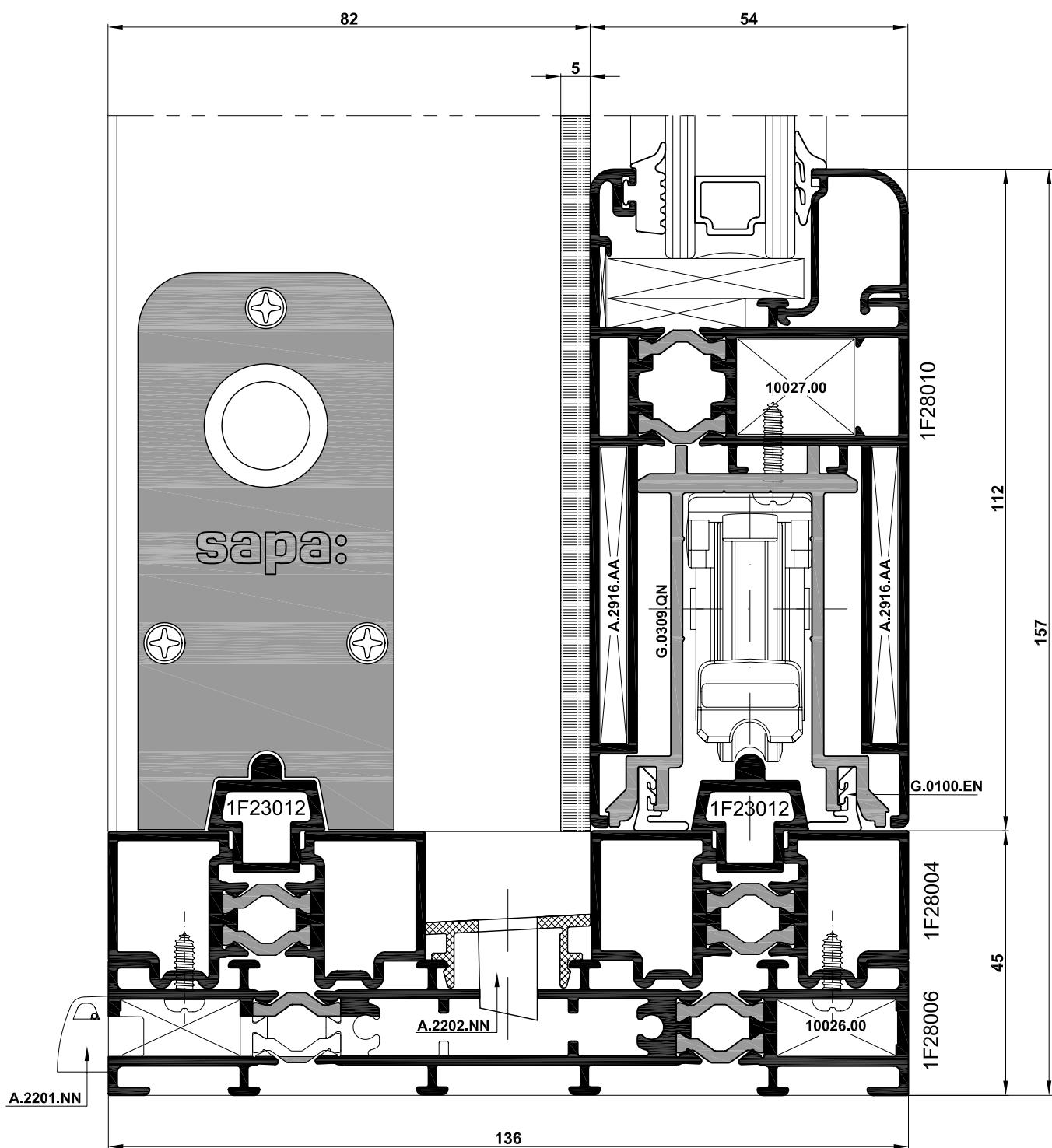




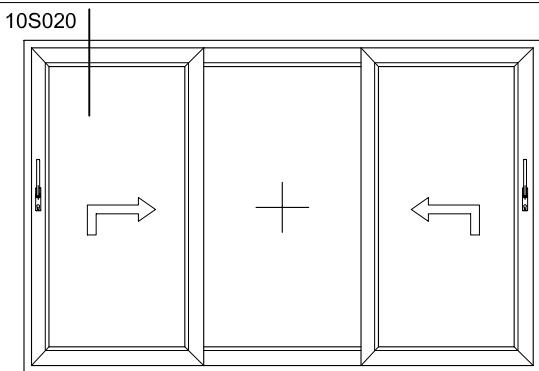
Schema K

SEZ. 10S019

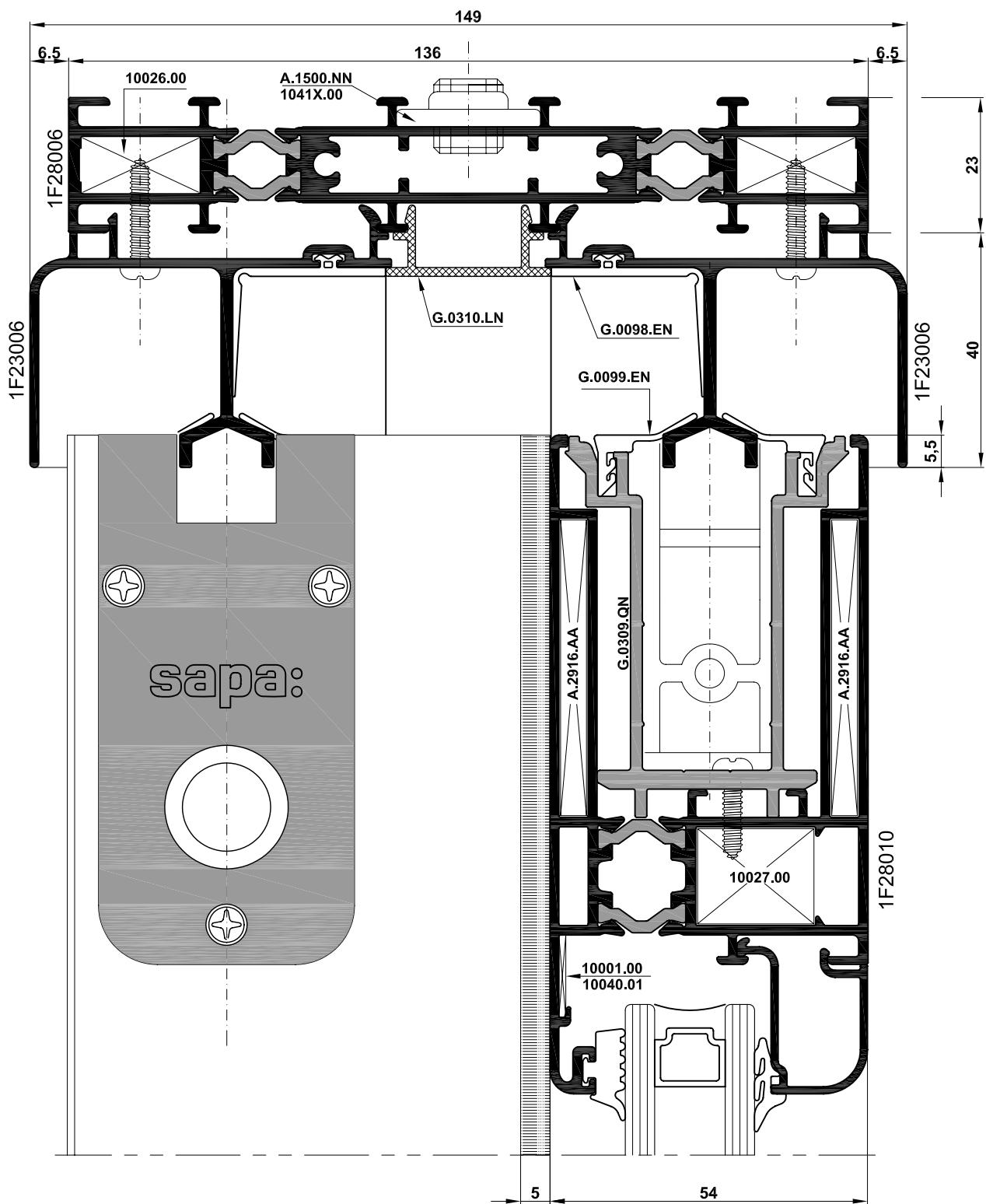
10S019



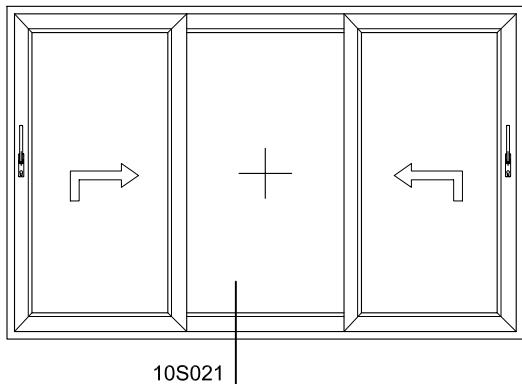
SEZ. 10S020



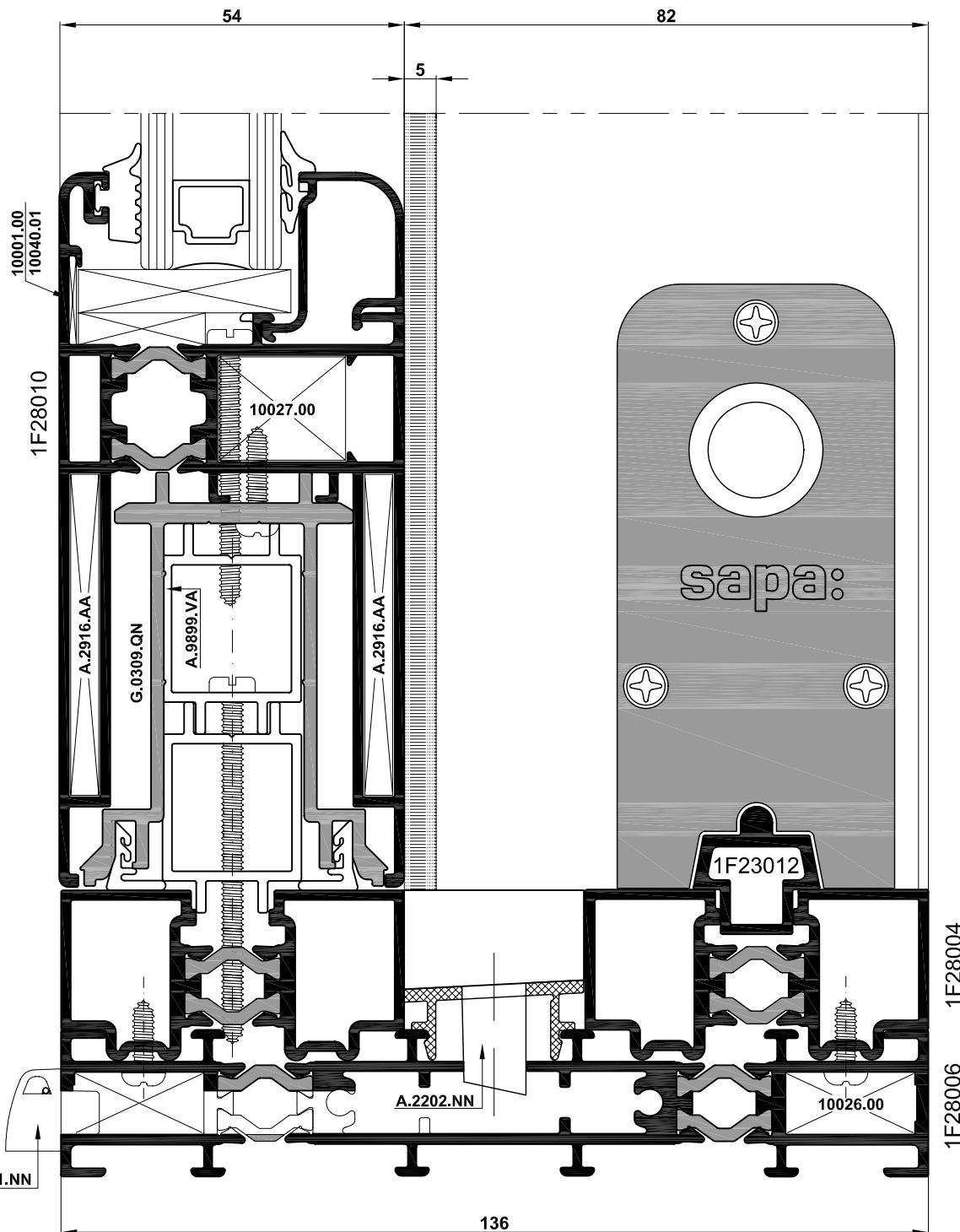
Schema K



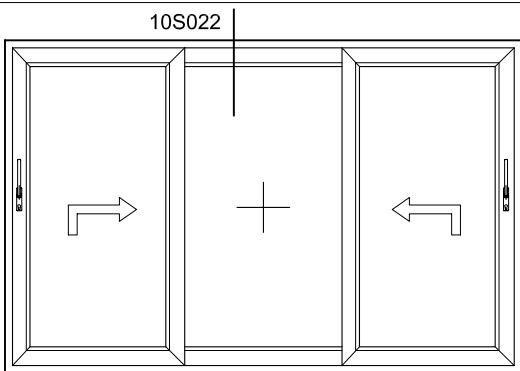
SEZ. 10S021



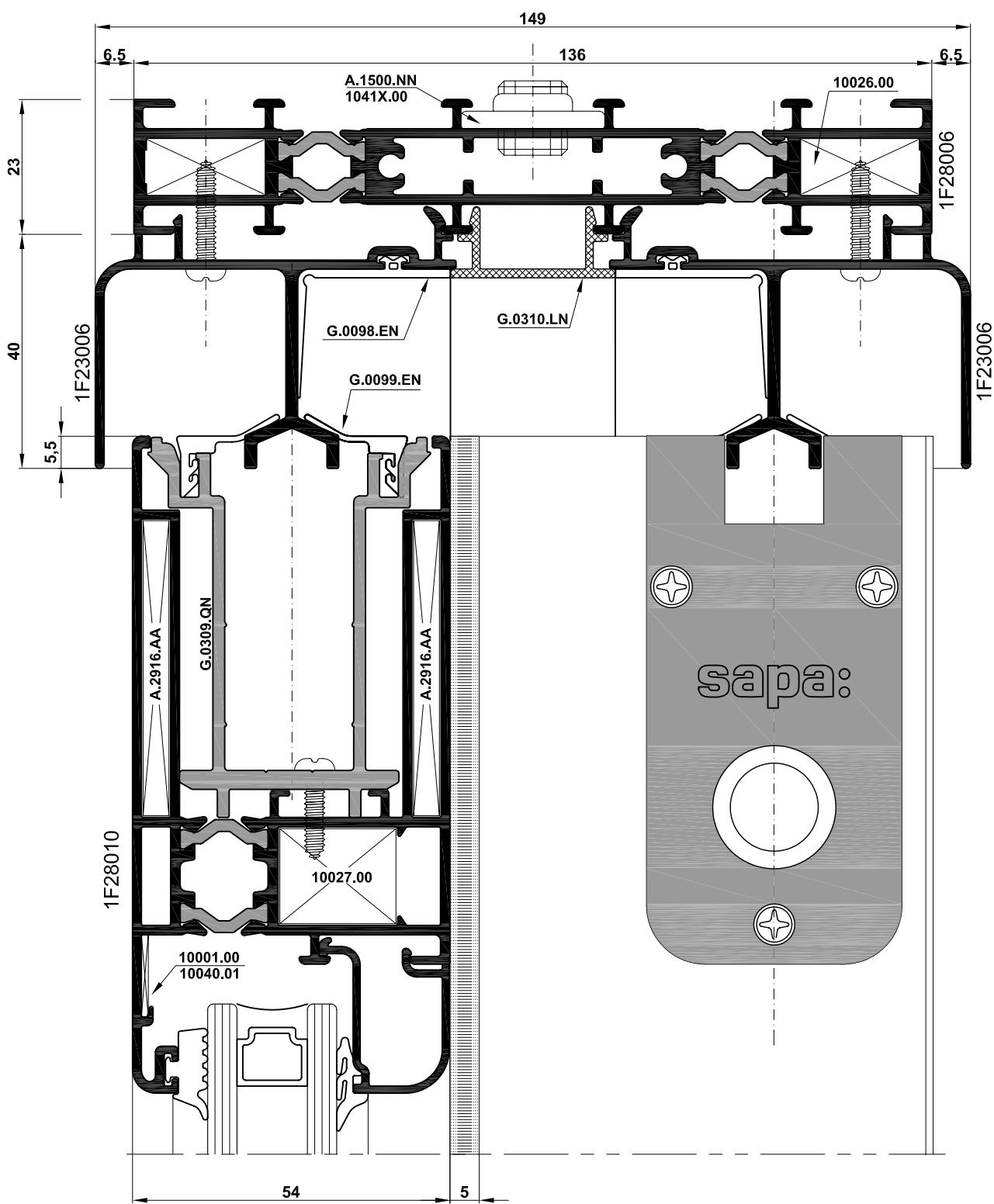
Schema K

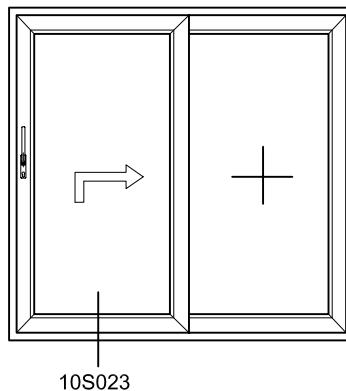


SEZ. 10S022

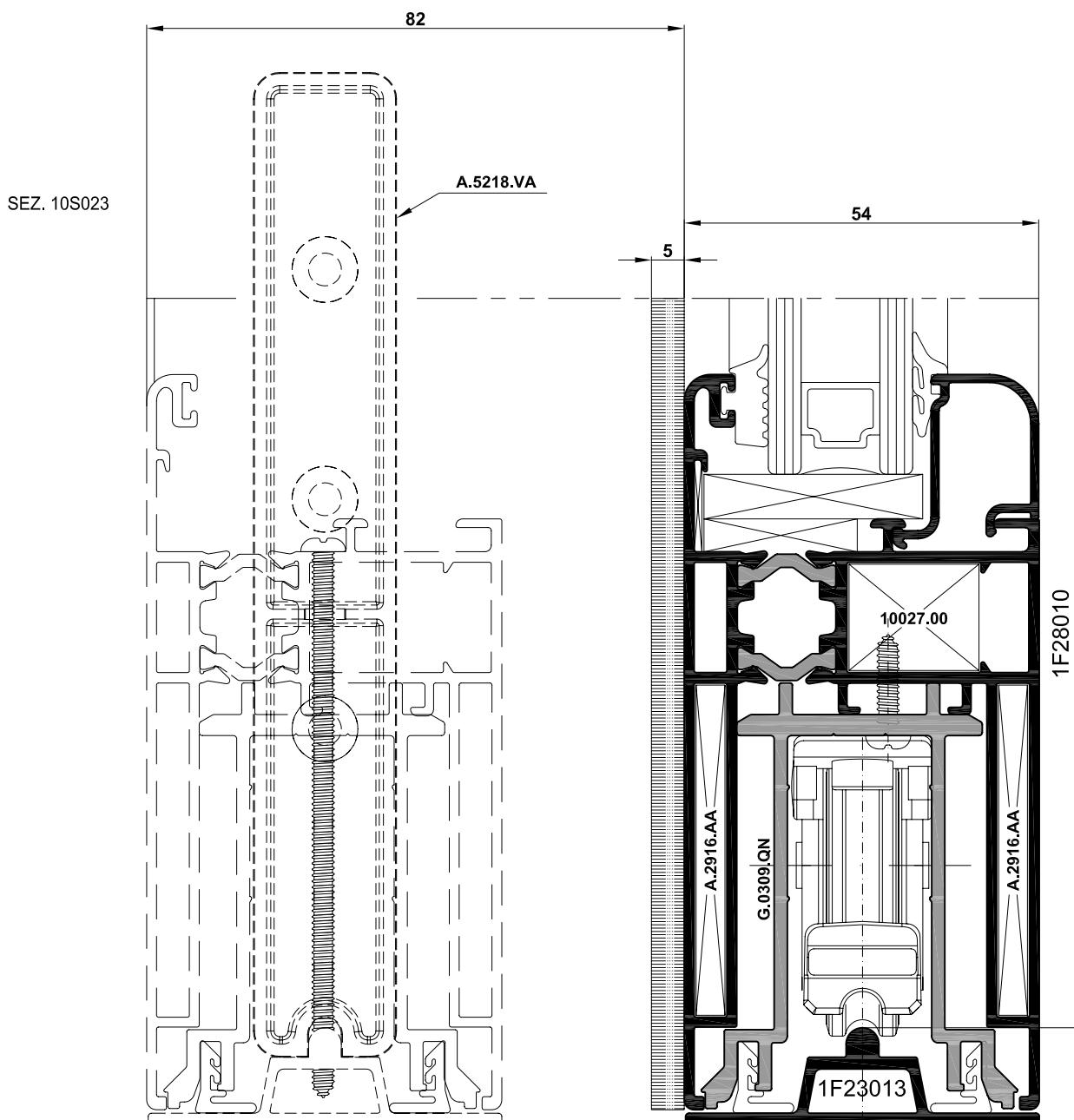


Schema K



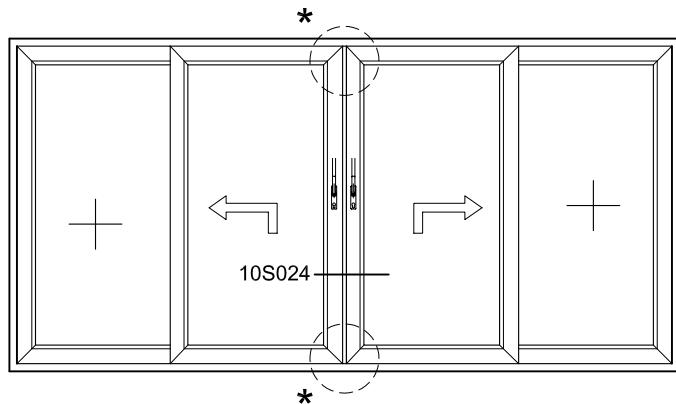


Schema A



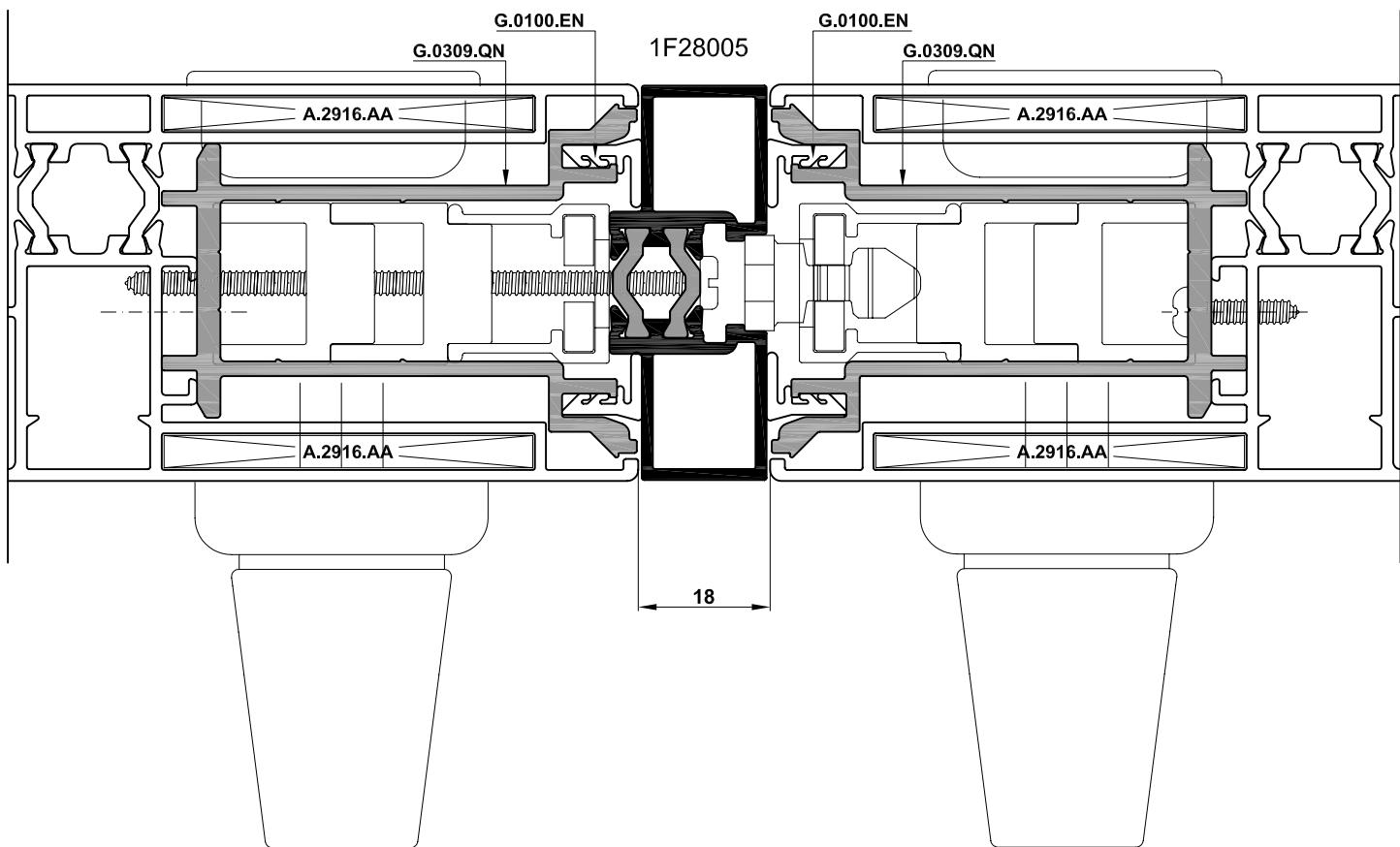
NB: La soluzione con binario "basso" 1F23013 deve essere utilizzata solamente nel caso in cui il serramento sia protetto da pensilina e non esposto, in quanto non viene garantita la perfetta tenuta agli agenti atmosferici.

*Lower track solution 1F23013 must be used only when the casement widow is not directly exposed.
 As perfect sealing to atmospheric agents cannot be guaranteed.*



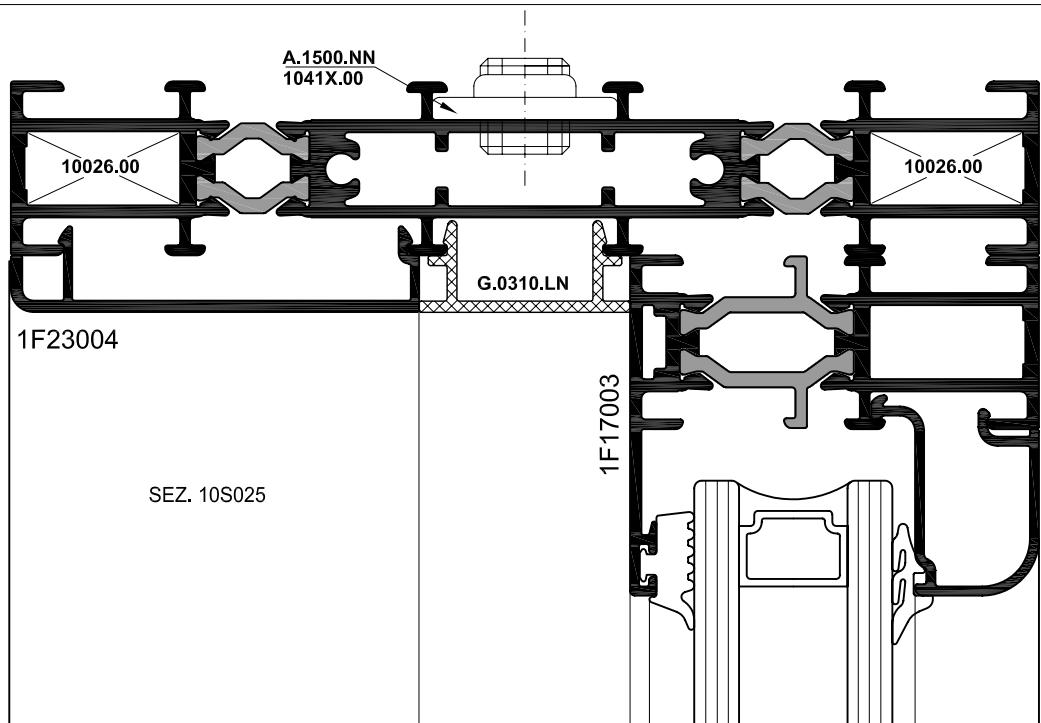
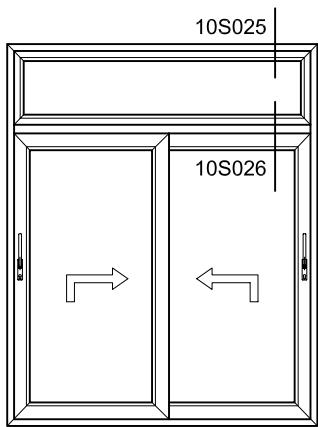
* ART. A.2185.TN : COPPIA TAPPI SU PROFILATO 1F28005
 * ART. A.2185.TN : PAIR OF PLUGS ON SECTION 1F28005

SEZ. 10S024

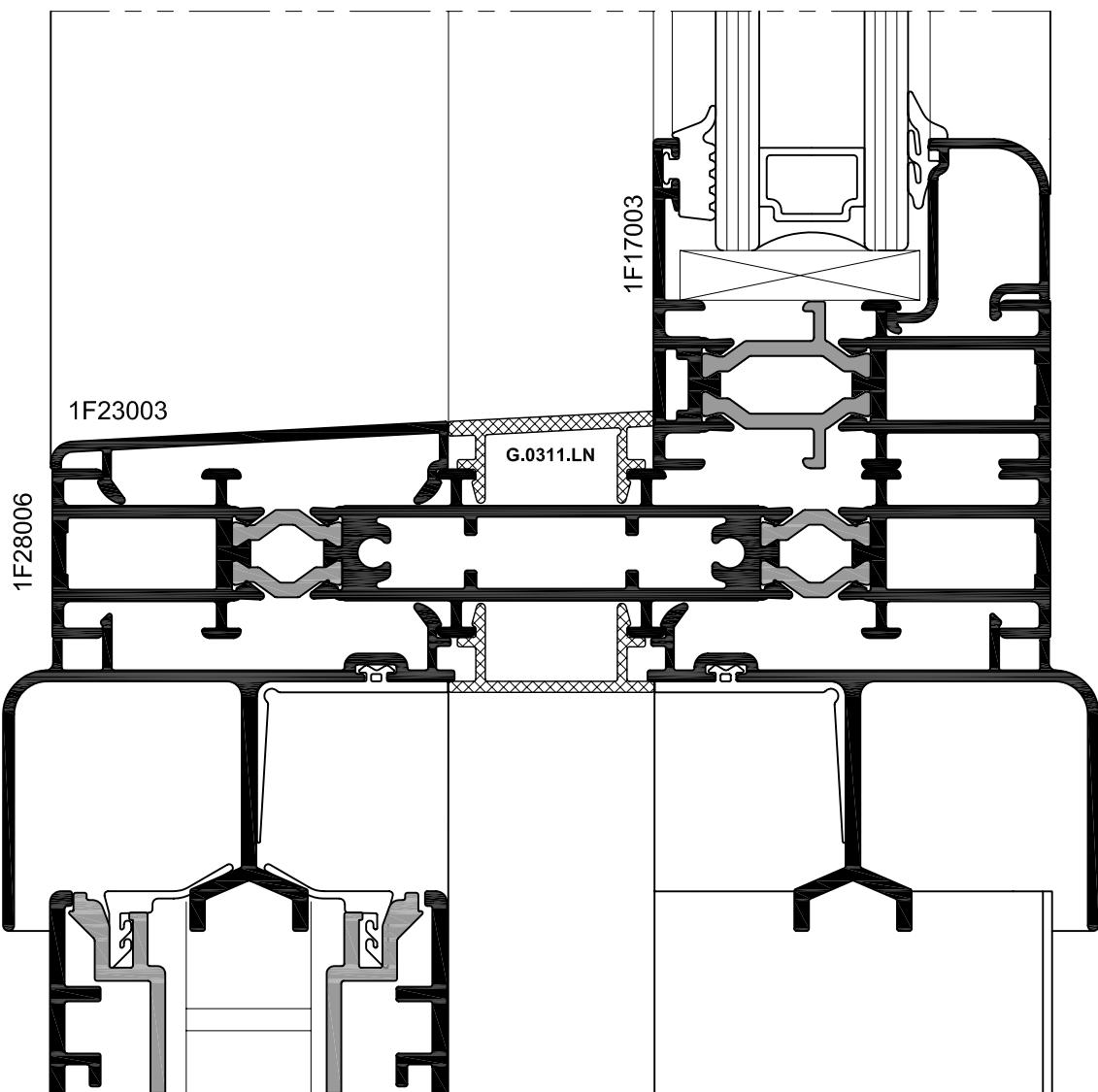


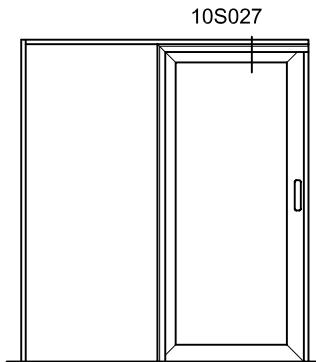
SEZIONI - FINESTRA 2 ANTE CON SOPRALUCE
SECTIONS - TWO-WINGS WINDOWS WITH FANLIGHT

WIN 140sa^{TT}
 SYSTEM

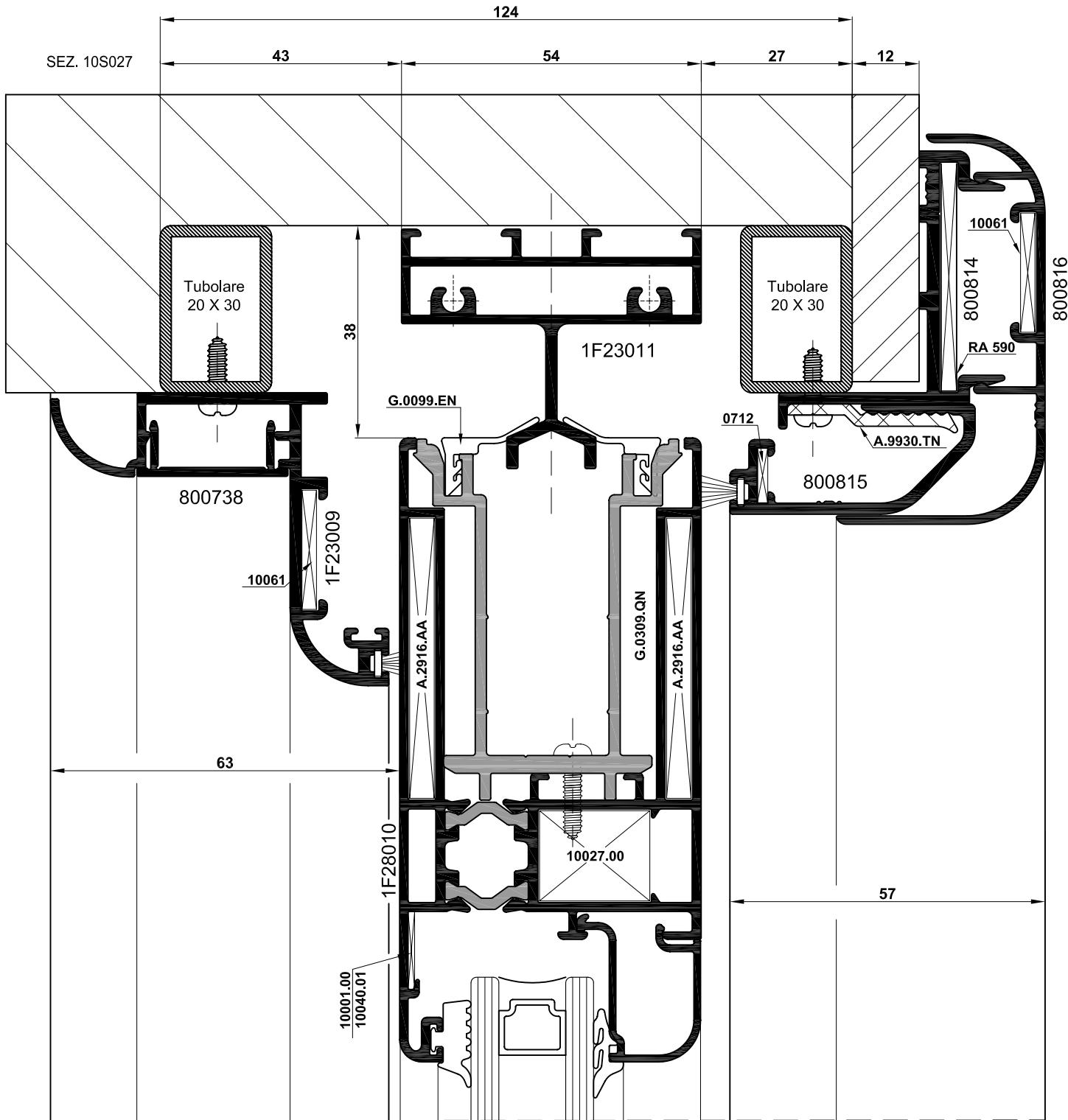


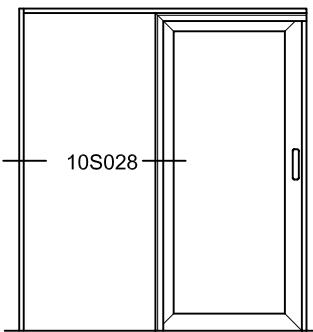
SEZ. 10S026



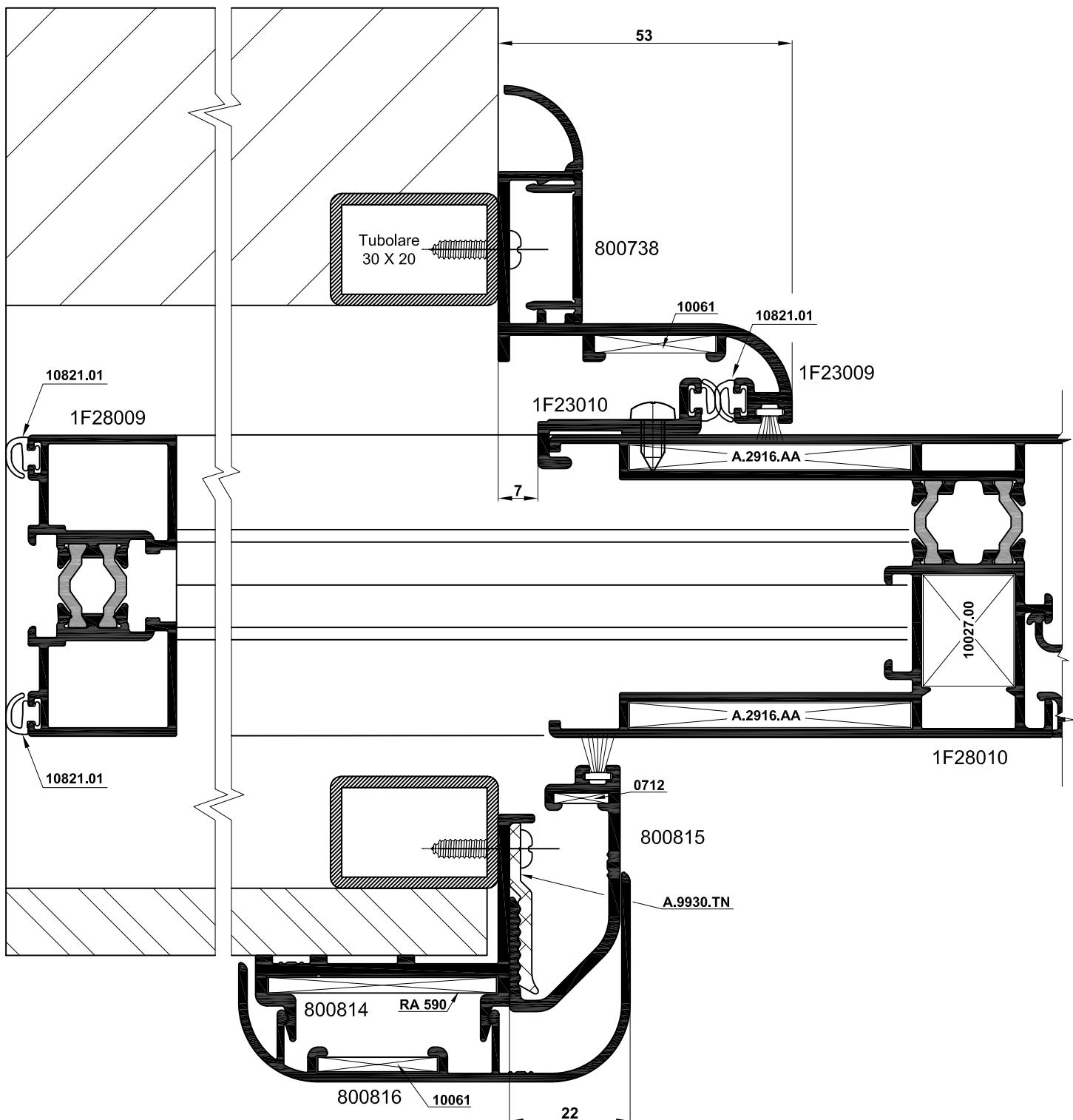


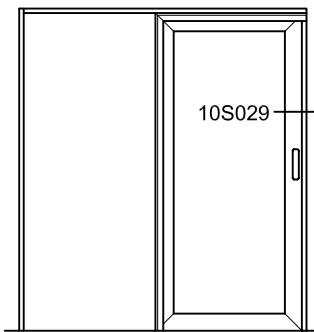
Per accessori e guarnizioni non indicati consultare catalogo Mr-Hide.
 For accessories and weatherstrips not indicated see catalogue Mr-Hide.



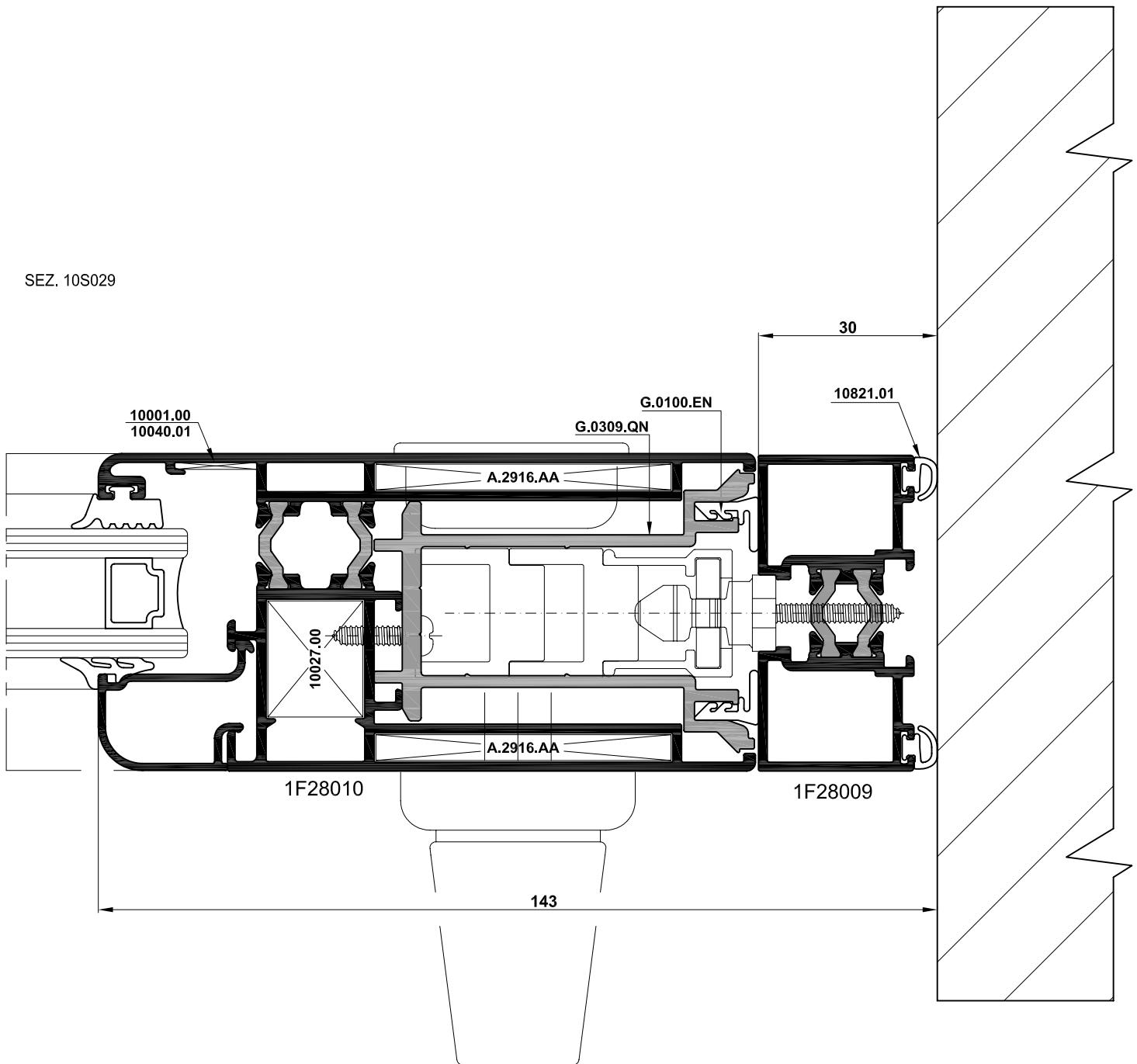


SEZ. 10S028



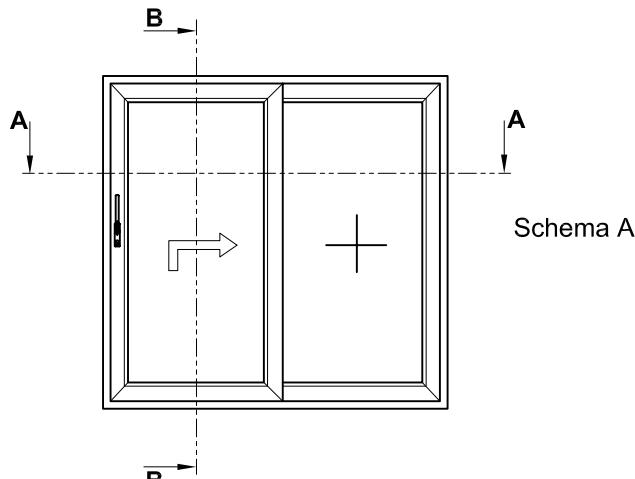


SEZ. 10S029



N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
 Pertanto è necessario verificare sempre le dimensioni dei profili prima di effettuare i tagli.
 Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

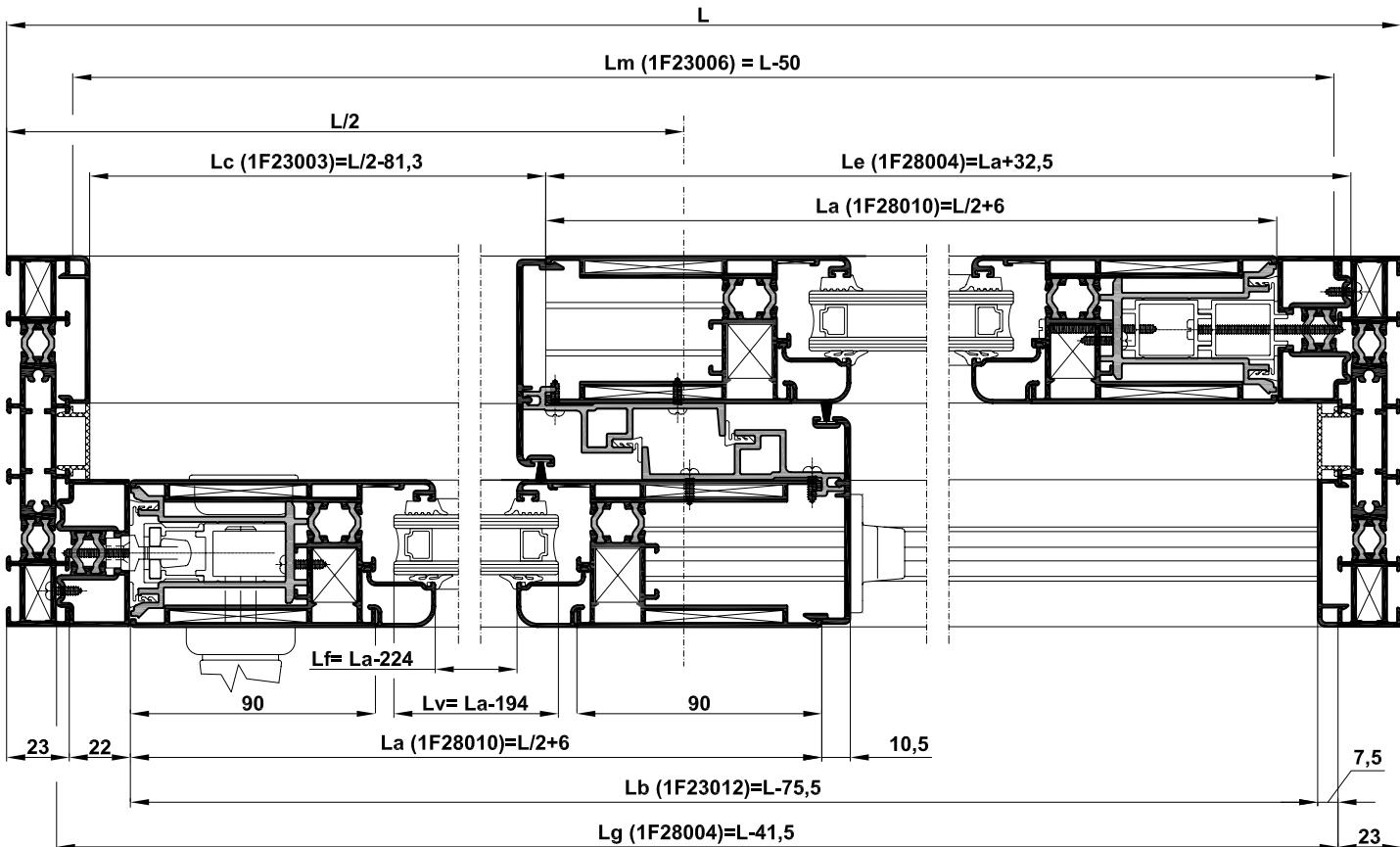
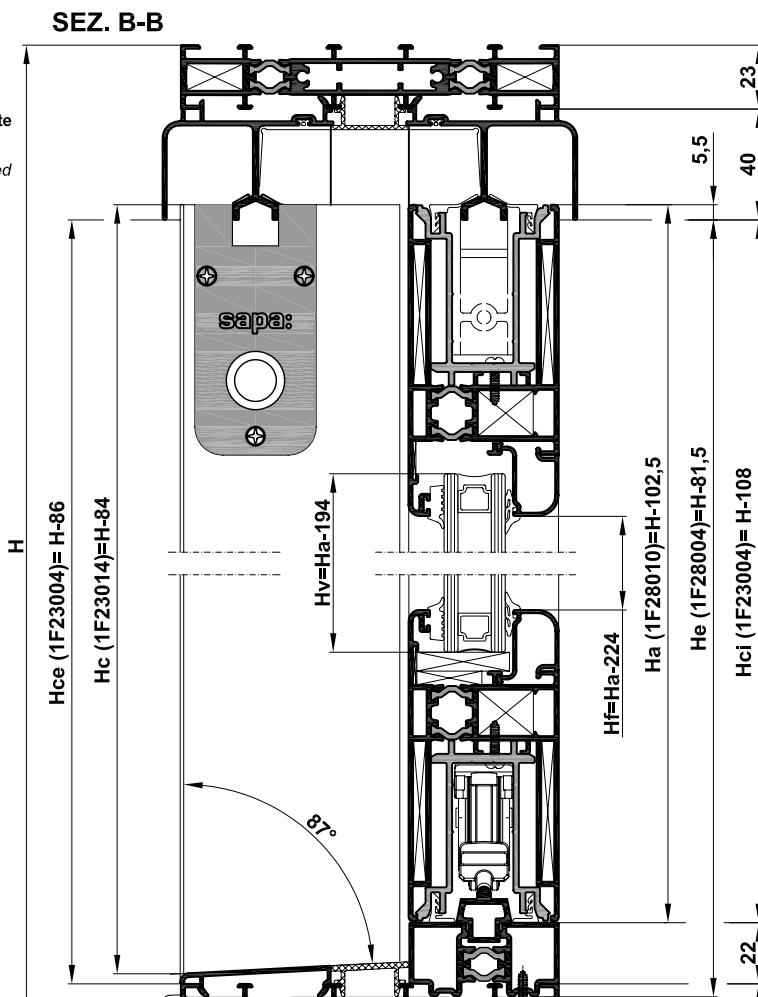
N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
 It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
 Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



DIMENSIONI VETRO
 GLASS SIZE

N. 2 PEZZI	N.B.: Spessore vetro considerato 20 mm (4+12+4) Gioco perimetrale tra profilo e vetro 7 mm For glass with 20 mm thickness Space between glass and profile 7 mm
Ha - 194	
La - 194	

SEZ. A-A



PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
1F28006	2		2	
1F28004	2		1	
			1	
1F23012 G.0319.LN			1	
1F23003			1	
1F23004	1			
	1			
1F23006			2	
1F23014	1			
	1			
1F28010	4		4	
1F14013	4		4	

ACCESSORI
ACCESSORIES

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	8	A.2169.NN	Kit tappi terminali guida superiore (1F23006) Plug terminal kit for superior track (1F23006)	1	A.52XX.XX	Serratura altezza Lifting locking	1
10026.00	Squadretta ad avvitare mm 9,8x20,3 (telaio) Corner joint to be screwed 9,8x20,3 mm (frame)	8	A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on wing	16	A.520X.KA	Barra di collegamento Linking bar	1
10027.00	Squadretta ad avvitare mm 16,8x20,3 (anta) Corner joint to be screwed 16,8x20,3 mm (wing)	8	A.9899.VA	Kit bloccaggio anta fissa Blocking kit for fix wing	4	A.2201.NN	Cappella drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage cover (See page F8-140sa-A.03)	
A.1500.NN	Basetta unificata per regolablock Unified plate for adjustabel block	16	A.5200.VA	Kit base movimentazione un'anta Basic kit for one wing movement	1	A.2202.NN	Boccola drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage bush (See page F8-140sa-A.03)	
10410.01	Regolablock mm 16,5 Adjustable block mm 16,5	16	A.5213.XX	Maniglia con coprifossetta e conchiglia corta Single handle with short basin	1	10545.XX	Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading	8
			A.5217.VA	Perno di chiusura su piastra (Vedi schema) Pin to lock on plane (See the scheme)	1	A.5219.XX	Paracolpo In zama su anta Buffer in zamak	1

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglunto su prof. 1F28004 Weatherstrip coverjoint on 1F28004 section	1H	* G.0309.QN	Guida di contenimento accessori Accessories guide	2H 4La	10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	4H 2L
G.0098.EN	Guarnizione copriglunto su prof. 1F23006 Weatherstrip coverjoint on 1F23006 section	2L	G.0310.LN	Copriglunto verticale e superiore Vertical and upper coverjoint	2H 1L	10861.01	Guarnizione tenuta interna vetro Internal glazing weatherstrip	4H 2L
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	G.0311.LN	Copriglunto inferiore Inferior coverjoint	1L	G.0167.HA	Spazzolino Hi-Fin su prof. 1F23014 Protective fiber Hi-Fin on profile 1F23014	2H
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	6H 2L	G.0312.QN	Riparto centrale Central filling	2H			

* Consigliamo di tagliare il profilo in poliammide a 45°, unitamente all' 1F28010
We recommend cutting polyamide profile at 45°, toggether with 1F28010

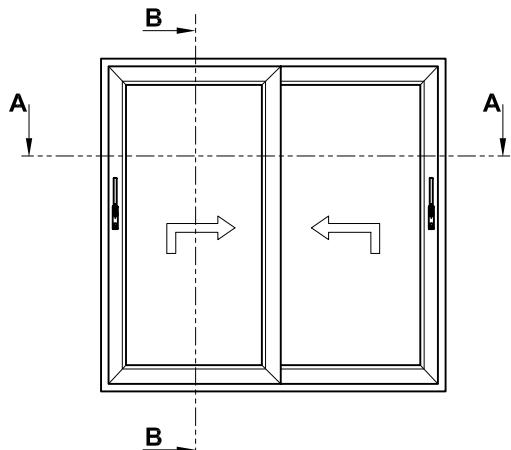
DISTINTE DI TAGLIO - FINESTRA 2 ANTE - APRIBILI

CUT LIST - 2 WINGS WINDOW - BOTH OPEN

WIN 140sa^{TT}
SYSTEM

N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profili prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



Schema D

DIMENSIONI VETRO GLASS SIZE

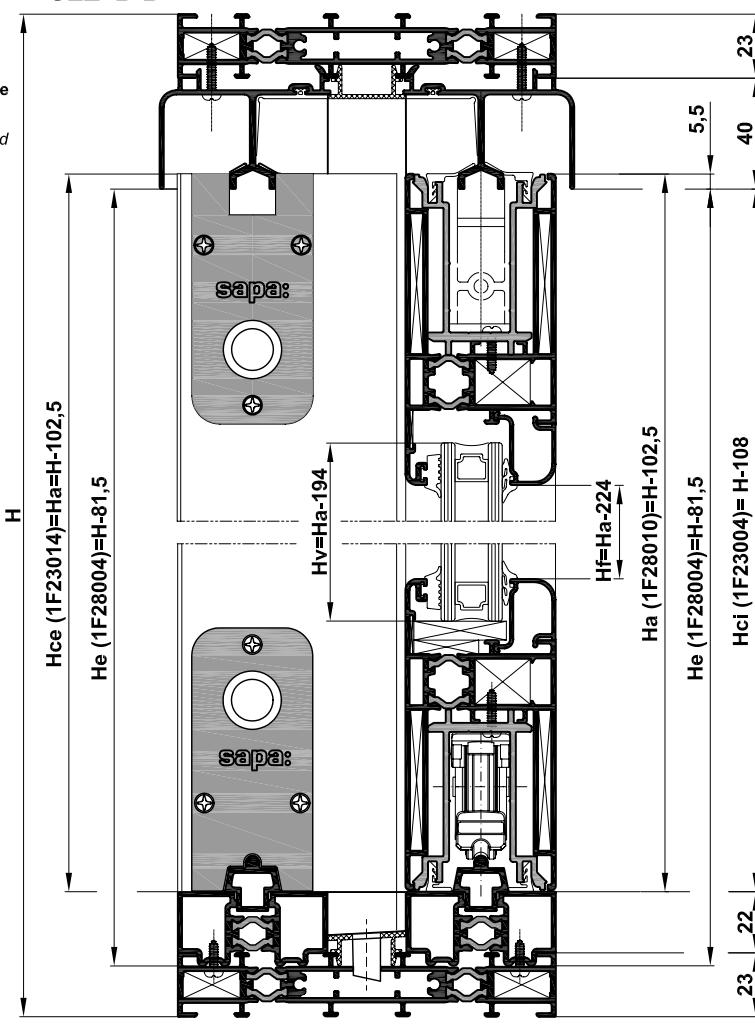
N. 2 PEZZI

N.B.: Spessore vetro considerato
20 mm (4+12+4)
Gioco perimetrale tra
profilo e vetro 7 mm
For glass with 20 mm thickness
Space between glass
and profile 7 mm

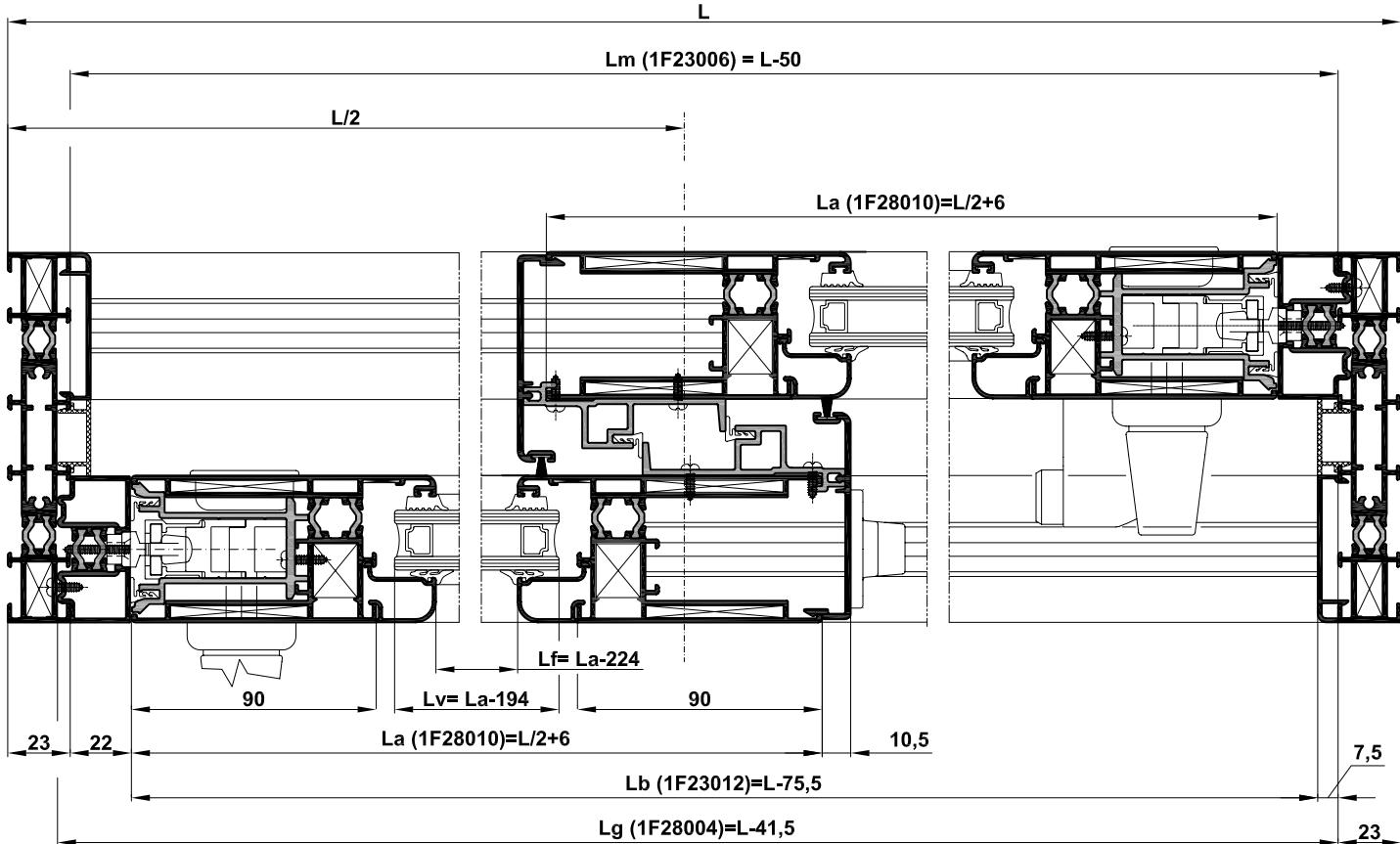
Ha - 194

La - 194

SEZ. B-B



SEZ. A-A



PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
1F28006	2		2	
1F28004	2		2	
1F23012 G.0319.LN			2	
1F23004	2			
1F23006			2	
1F23014	2			
1F28010	4		4	
1F14013	4		4	

ACCESSORI
ACCESSORIES

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	8	A.2169.NN	Kit tappi terminali guida superiore (1F23006) Plug terminal kit for superior track (1F23006)	1	A.520X.KA	Barra di collegamento Linking bar	2
10026.00	Squadretta ad avvitare mm 9,8x50,3 mm (telalo) Corner joint to be screwed 9,8x50,3 mm (frame)	8	A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on fin wing	16	A.2201.NN	Cappello drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage cover (See page F8-140sa-A.03)	
10027.00	Squadretta ad avvitare mm 16,8x20,3 (anta) Corner joint to be screwed 16,8x20,3 mm (wing)	8	A.5200.VA	Kit base movimentazione un'anta Basic kit for one wing movement	2	A.2202.NN	Boccolla drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage bush (See page F8-140sa-A.03)	
A.1500.NN	Baseatta unificata per regolo mobile Unified plate for adjustabel block	16	A.5219.XX	Paracolpo in zama su anta Buffer in zamak	1	10545.XX	Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading	8
10410.01	Regolo mobile da 16,5 mm Adjustable block mm 16,5	16	A.5213.XX	Maniglia con coprifossetta e conchiglia corta Single handle with short basin	2			
			A.52XX.XX	Serratura alzante Lifting locking	2			

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglubo su prof. 1F28004 Weatherstrip coverjoint on 1F28004 section	1H	* G.0309.QN	Guida di contenimento accessori Accessories guide	2H 4La	10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	4H 2L
G.0098.EN	Guarnizione copriglubo su prof. 1F23006 Weatherstrip coverjoint on 1F23006 section	2L	G.0310.LN	Copriglubo verticale e superiore Vertical and upper coverjoint	2H 1L	10861.01	Guarnizione tenuta interna vetro Internal glazing weatherstrip	4H 2L
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	G.0311.LN	Copriglubo inferiore Inferior coverjoint	1L	G.0167.HA	Spazzolino Hi-Fin su prof. 1F23014 Protective fiber Hi-Fin on profile 1F23014	2H
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	6H 2L	G.0312.QN	Riporto centrale Central filling	2H			

* Consigliamo di tagliare il profilato in poliammide a 45°, unitamente all' 1F28010
 We recommend cutting polyamide profile at 45°, togther with 1F28010

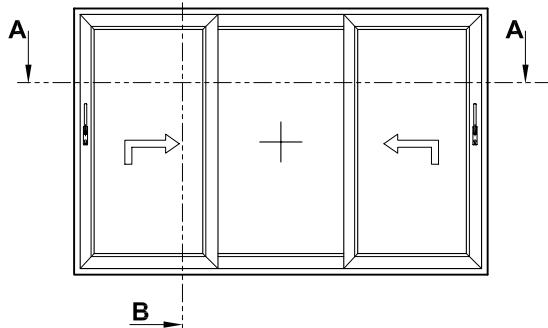
DISTINTE DI TAGLIO - FINESTRA 3 ANTE - APRIBILI + FISSO CUT LIST - 3 WINGS WINDOW - OPEN + FIX

WIN | 140sa^{TT}
SYSTEM

N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni del profilati prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter

B | Schema K

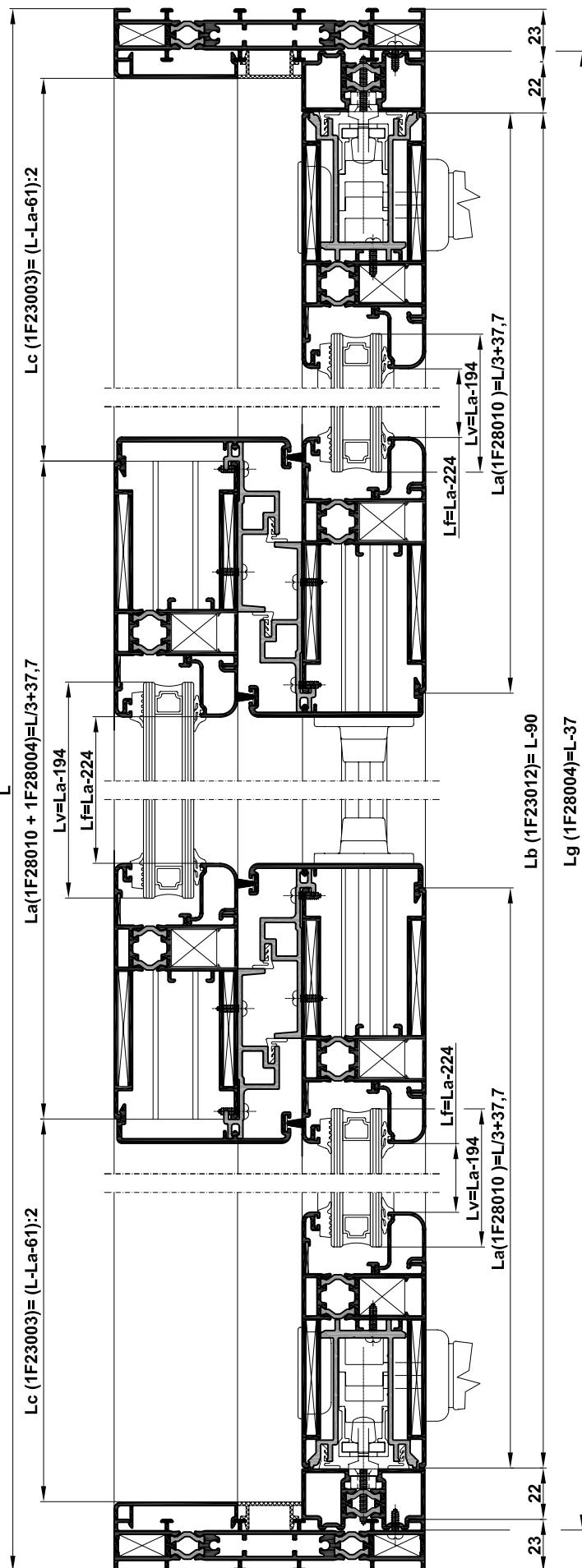
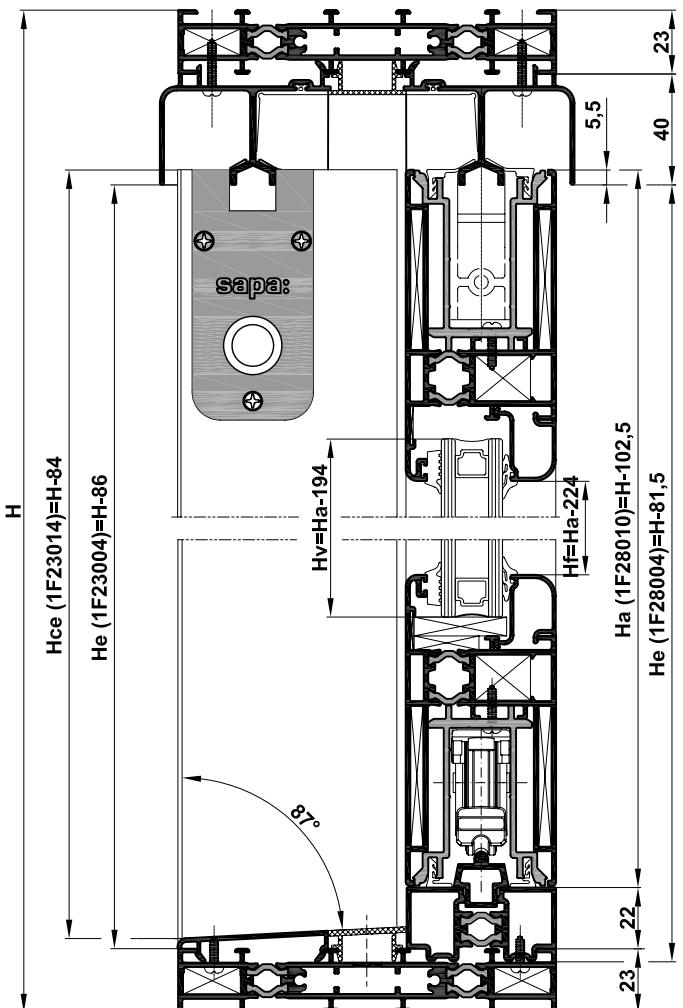


SEZ. A-A

**DIMENSIONI VETRO
GLASS SIZE**

<u>N. 3 PEZZI</u>	N.B.: Spessore vetro considerato 20 mm (4+12+4) Gioco perimetrale tra profilo e vetro 7 mm
Ha - 194	For glass with 20 mm thickness Space between glass and profile 7 mm
La - 194	

SEZ. B-B



PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
1F28006	2		2	
1F28004	2		1	
			1	
1F23012 G.0319.LN			1	
1F23003			1	
1F23004	2			
1F23006			2	
1F23014	2			
	1			
	1			
1F28010	4		4	
1F14013	4		4	

ACCESSORI
ACCESSORIES

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	12	A.2169.NN	Kit tappi terminali guida superiore (1F23006) Plug terminal kit for superior track (1F23006)	1	A.52XX.XX	Serratura alzante Lifting locking	2
10026.00	Squadretta ad avvitare mm 9,8x20,3 (telaio) Corner joint to be screwed 9,8x20,3 mm (frame)	8	A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on fin wing	24	A.520X.KA	Barra di collegamento Linking bar	2
10027.00	Squadretta ad avvitare mm 16,8x20,3 mm (telaio) Corner joint to be screwed 16,8x20,3 mm (frame)	12	A.9899.VA	Kit bloccaggio anta fissa Blocking kit for fix wing	3	A.2201.NN	Cappella drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage cover (See page F8-140sa-A.03)	
A.1500.NN	Basetta unificata per regolo mobile Unified plate for adjustablock	16	A.5200.VA	Kit base movimentazione un'anta Basic kit for one wing movement	2	A.2202.NN	Boccolla drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage bush (See page F8-140sa-A.03)	
10410.01	Regolo mobile da 16,5 mm Adjustable block mm 16,5	16	A.5213.XX	Maniglia con coprirossetta e conchiglia corta Single handle with short basin	2	10545.XX	Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading	12

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglubo su prof. 1F23004 Weatherstrip coverjoint on 1F23004 section	1H	* G.0309.QN	Guida di contenimento accessori Accessories guide	2H 6La	10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	6H 2L
G.0098.EN	Guarnizione copriglubo su prof. 1F23006 Weatherstrip coverjoint on 1F23006 section	2L	G.0310.LN	Copriglubo verticale e superiore Vertical and upper coverjoint	2H 1L	10861.01	Guarnizione tenuta interna vetro Internal glazing weatherstrip	6H 2L
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	G.0311.LN	Copriglubo inferiore Inferior coverjoint	1L	G.0167.HA	Spazzolino Hi-Fi su prof. 1F23014 Protective fiber Hi-Fin on profile 1F23014	4H
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	8H 2L	G.0312.QN	Riporto centrale Central filling	4H			

* Consigliamo di tagliare il profilo in poliammide a 45°, unitamente all' 1F28010
We recommend cutting polyamide profile at 45°, togther with 1F28010

DISTINTE DI TAGLIO - FINESTRA 4 ANTE - APRIBILI + FISSI CUT LIST - 4 WINGS WINDOW - OPEN + FIX

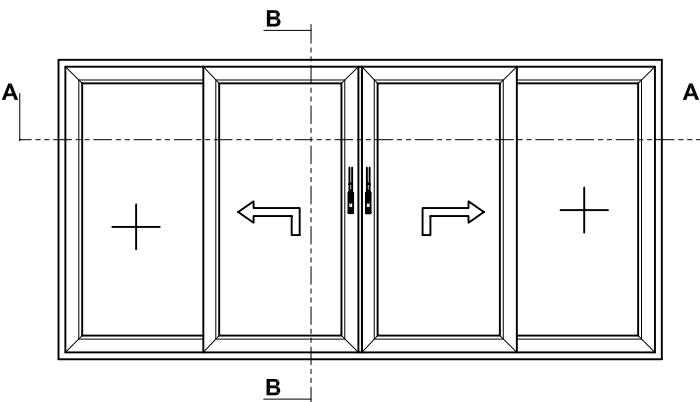
WIN 140sa^{TT}
SYSTEM

N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profili prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter.

DIMENSIONI VETRO GLASS SIZE

N. 4 PEZZI		N.B.: Spessore vetro considerato 20 mm (4+12+4) Giacco perimetrale tra profilo e vetro 7 mm For glass with 20 mm thickness Space between glass and profile 7 mm
Ha - 194		
La - 194		



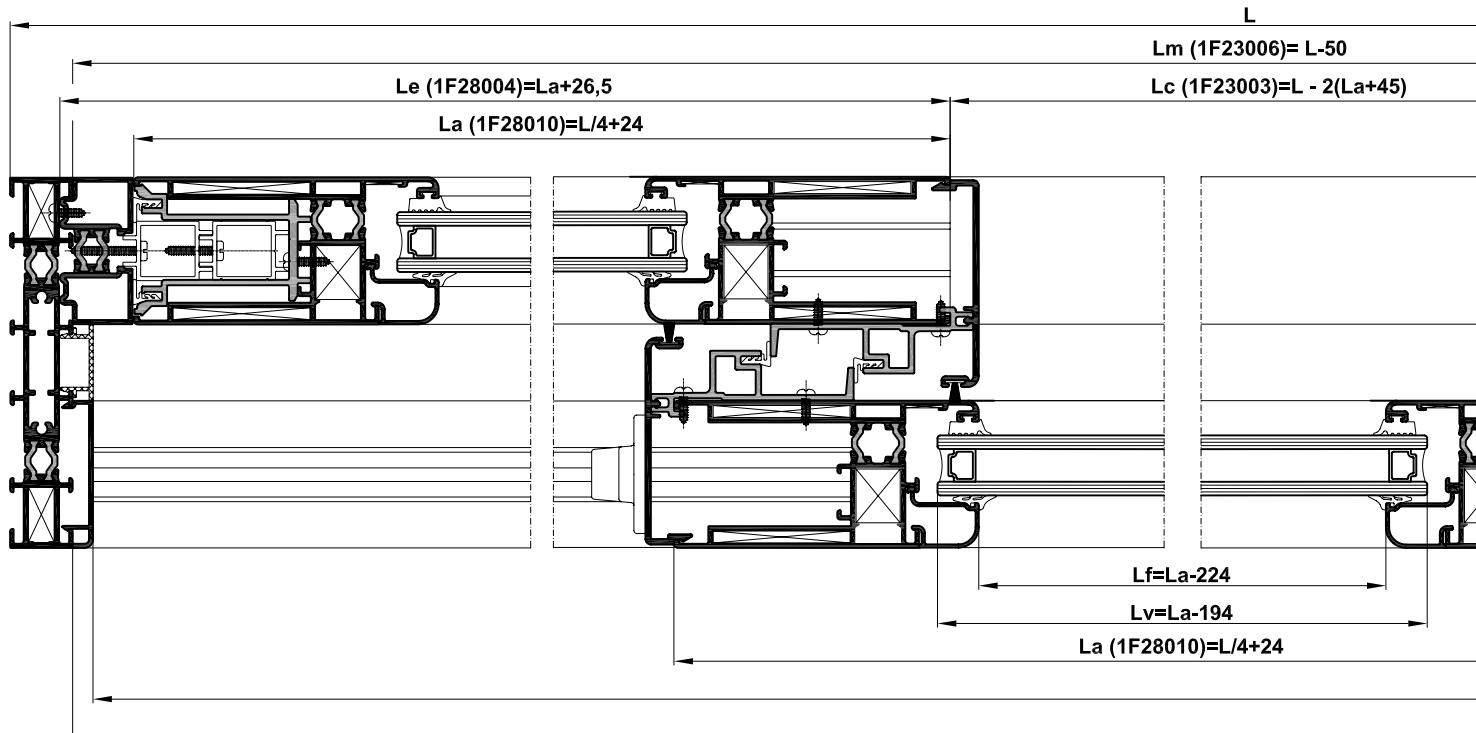
ACCESSORI ACCESSORIES

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	16	A.2169.NN	Kit tappi terminali guida superiore (1F23006) Plug terminal kit for superior track (1F23006)	1	A.5219.XX	Paracolpo in zama su anta Buffer in zamak	2
10026.00	Squadretta ad avvitare mm 9,8x20,3 (telaio) Corner joint to be screwed 9,8x20,3 mm (frame)	8	A.9899.VA	Kit bloccaggio anta fissa Blocking kit for fix wing	8	A.2185.TN	Kit tappi terminali su profilo 1F28005 Plug terminal kit on profile 1F28005	1
10027.00	Squadretta ad avvitare mm 16,8x20,3 (anta) Corner joint to be screwed 16,8x20,3 mm (wing)	16	A.5200.VA	Kit base movimentazione un'anta Basic kit for one wing movement	2	A.2201.NN	Cappello drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage cover (See page F8-140sa-A.03)	
A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on fin wing	32	A.5213.XX	Maniglia con coprifossetta e conchiglia corta Single handle with short basin	2	A.2202.NN	Boccola drenaggio acqua (Ved. pag. F8-140sa-A.03) Water drainage bush (See page F8-140sa-A.03)	
A.1500.NN	Basesta unificata per regolo mobile Unified plate for adjustabel block	16	A.52XX.XX	Serratura alzante Lifting locking	2	10545.XX	Angolo stampato per fermavetri arrotondato Moulded for snap-on rounded glass beading	16
10410.01	Regolo mobile da 16,5 mm Adjustable block mm 16,5	16	A.520X.KA	Barra di collegamento Linking bar	2	A.5222.ZA	Delimitatore per 4 Ante Delimiter for four wing	2

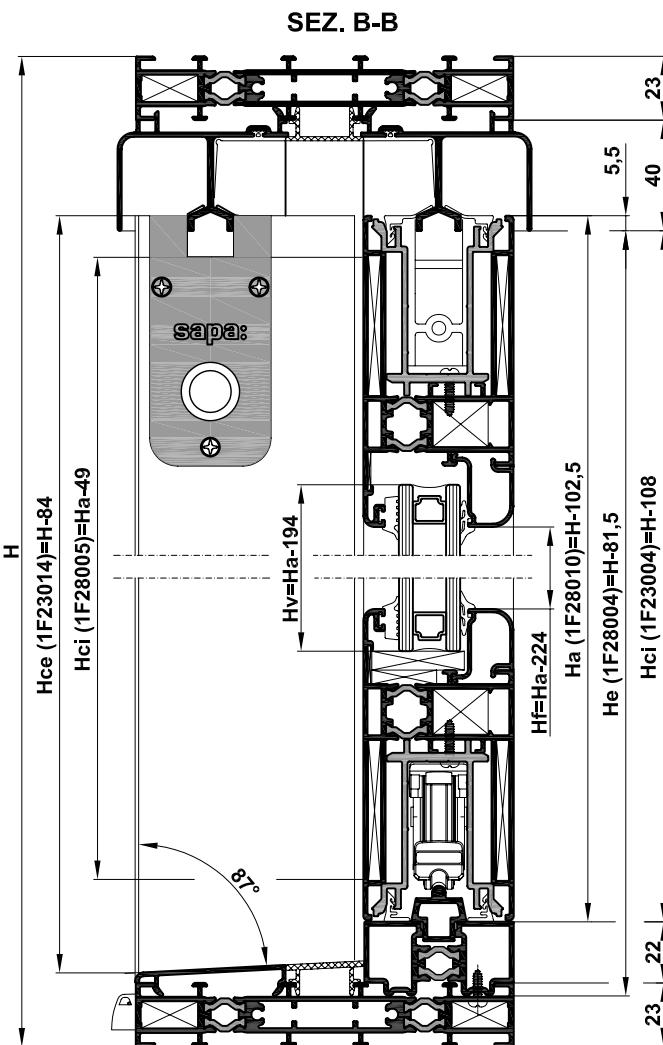
GUARNIZIONI WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglunto su prof. 1F28005 Weatherstrip coverjoint on 1F28005 section	1H	* G.0309.QN	Guida di contenimento accessori Accessories guide	4H 8La	10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	8H 2L
G.0098.EN	Guarnizione copriglunto su prof. 1F23006 Weatherstrip coverjoint on 1F23006 section	2L	G.0310.LN	Copriglunto verticale e superiore Vertical and upper coverjoint	2H 1L	10861.01	Guarnizione tenuta interna vetro Internal glazing weatherstrip	8H 2L
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	G.0311.LN	Copriglunto inferiore Lower coverjoint	1L	G.0167.HA	Spazzolino Hi-Fin su prof. 1F23014 Protective fiber Hi-Fin on profile 1F23014	4H
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	8H 2L	G.0312.QN	Riporto centrale Central filling	4H			

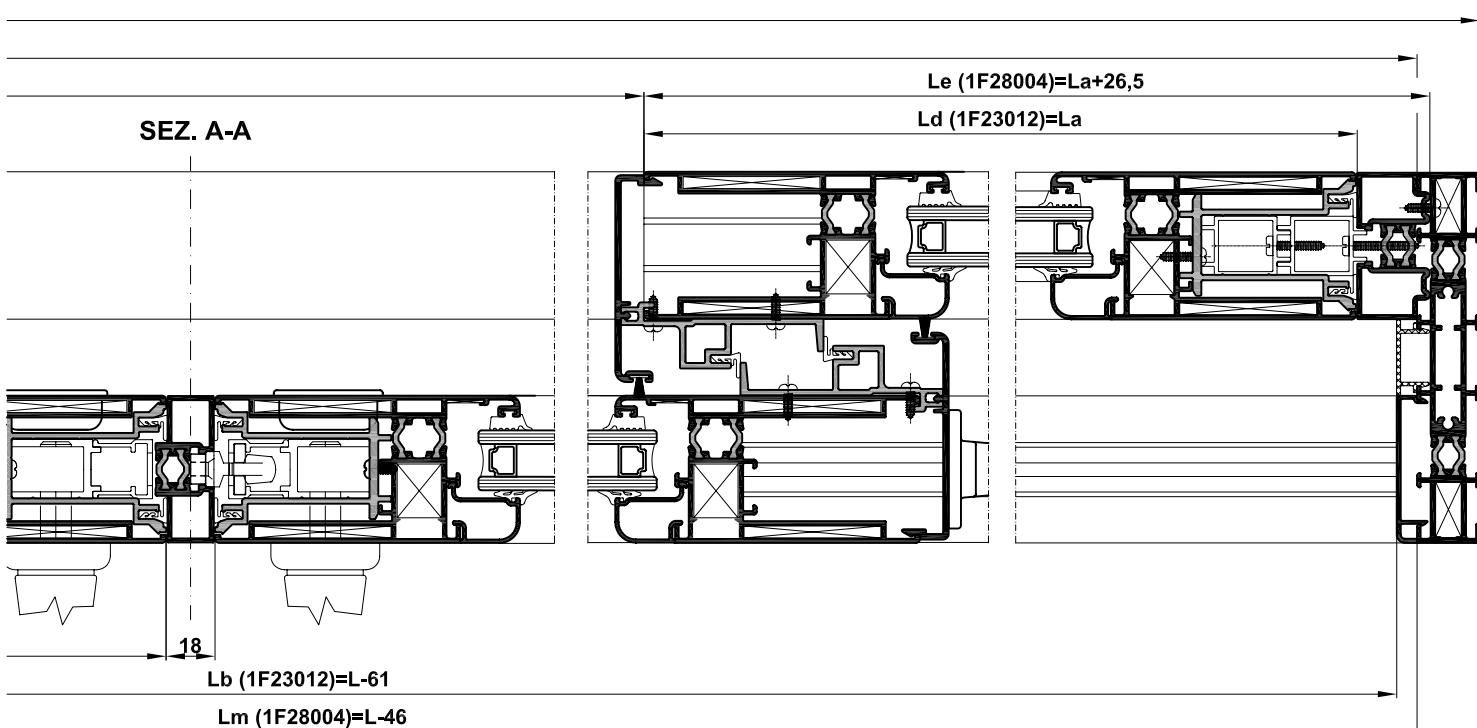
* Consigliamo di tagliare il profilo in poliammide a 45°, unitamente all' 1F28010
We recommend cutting polyamide profile at 45°, together with 1F28010



PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
1F28006	2	H	2	L
1F28004	2	H - 81,5	2	La + 26,5
1F23012 G.0319.LN			1	L - 46
1F23003			1	La
1F23006			1	L - 2 (La + 45)
1F23004	2	H - 108	2	L - 50
1F23014	2	Ha = H - 102,5		
	1	H - 84		
	1	H - 84		
1F28010	8	Ha = H - 102,5	8	La = L/4 + 24
1F14013	8	Ha - 224	8	La - 224
1F28005	1	Ha - 49		



SEZ. A-A



DISTINTE DI TAGLIO - FINESTRA 4 ANTE - APRIBILI + FISSI CUT LIST - 4 WINGS WINDOW - OPEN + FIX

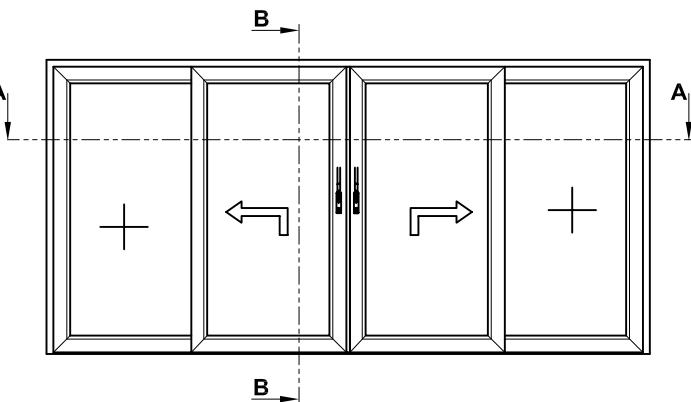
WIN 140sa^{TT}
SYSTEM

N.B.: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profili prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B.: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter.

DIMENSIONI VETRO GLASS SIZE

N. 4 PEZZI	N.B.: Spessore vetro considerato 20 mm (4+12+4) Gioco perimetrale tra profilo e vetro 7 mm For glass with 20 mm thickness Space between glass and profile 7 mm
Ha - 194	
La - 194	



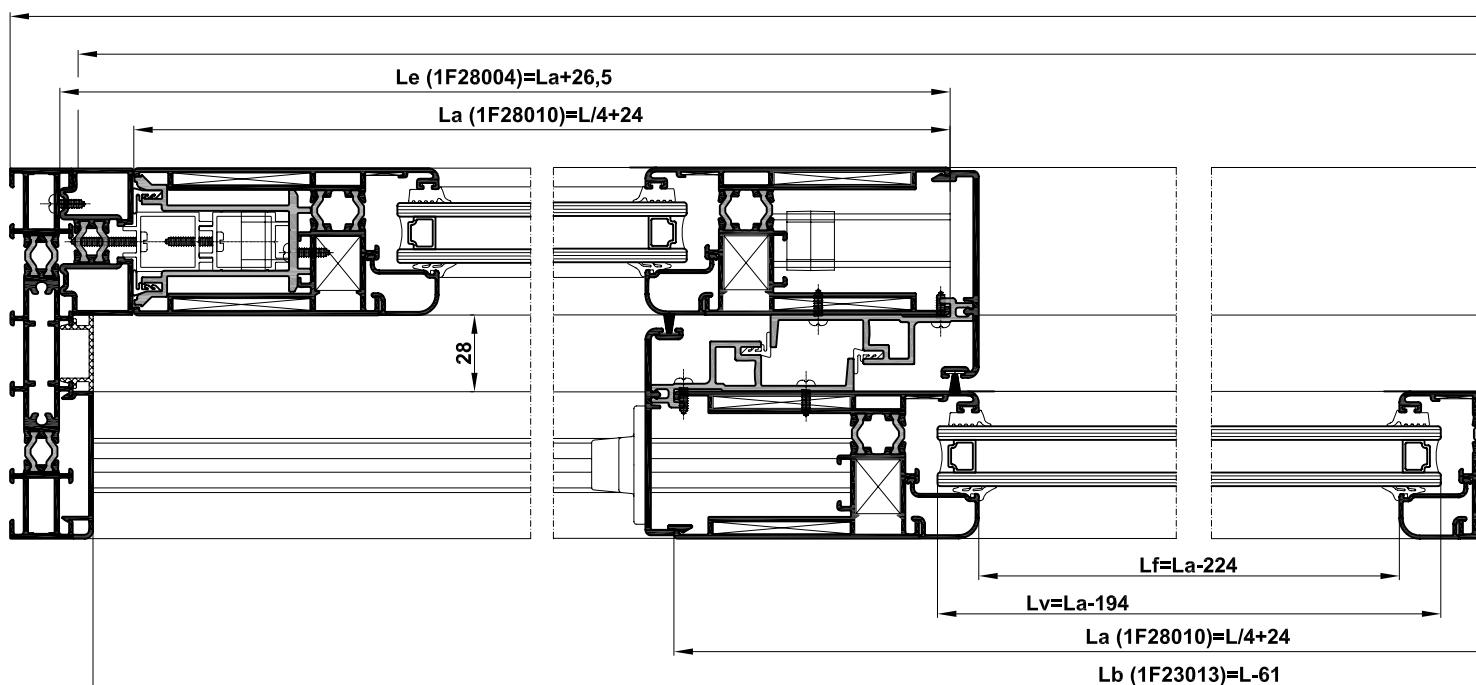
ACCESSORI ACCESSORIES

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	16	10410.01	Regolo mobile da 16,5 mm Adjustable block mm 16,5	16	A.52XX.XX	Serratura alzante Lifting locking	2
10026.00	Squadretta ad avvitare mm 9,8x20,3 (telaio) Corner joint to be screwed 9,8x20,3 mm (frame)	4	A.2169.NN	Kit tappi terminali guida superiore (1F23006) Plug terminal kit for superior track (1F23006)	1	A.520X.KA	Barra di collegamento Linking bar	2
10027.00	Squadretta ad avvitare mm 16,8x20,3 (anta) Corner joint to be screwed 16,8x20,3 mm (wing)	16	A.9899.VA	Kit bloccaggio anta fissa Blocking kit for fix wing	8	A.5219.XX	Paracolpo in zama su anta Buffer in zamak	2
A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on fin wing	32	A.5200.VA	Kit base movimentazione un'anta Basic kit for one wing movement	2	A.2185.TN	Kit tappi terminali su profilo 1F28005 Plug terminal kit on profile 1F28005	1
A.1500.NN	Basetta unificata per regolo mobile Unified plate for adjustabel block	16	A.5213.XX	Maniglia con coprifossetta e conchiglia corta Single handle with short basin	2	10545.XX	Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading	16
			A.5222.ZA	Delimitatore per 4 Ante Delimiter for four wing	2	A.5218.VA	Guida posizionamento Ante Guide wing placement	4

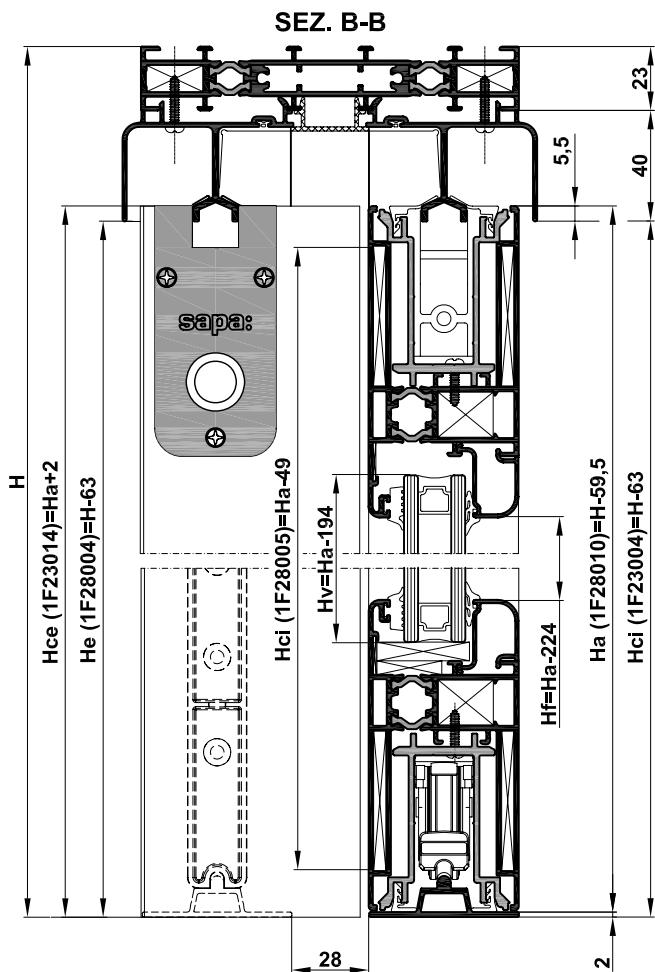
GUARNIZIONI WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglunto su prof. 1F28005 Weatherstrip coverjoint on 1F28005 section	1H	* G.0309.QN	Guida di contenimento accessori Accessories guide	4H 8La	10861.01	Guarnizione tenuta Interna vetro Internal glazing weatherstrip	8H 2L
G.0098.EN	Guarnizione copriglunto su prof. 1F23006 Weatherstrip coverjoint on 1F23006 section	2L	G.0310.LN	Copriglunto verticale e superiore Vertical and upper coverjoint	2H 1L	G.0167.HA	Spazzolino Hi-Fin su prof. 1F23014 Protective fiber Hi-Fin on profile 1F23014	4H
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	G.0312.QN	Riporto centrale Central filling	4H			
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	8H 2L	10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	8H 2L			

* Consigliamo di tagliare il profilo in poliammide a 45°, unitamente all' 1F28010
We recommend cutting polyamide profile at 45°, together with 1F28010



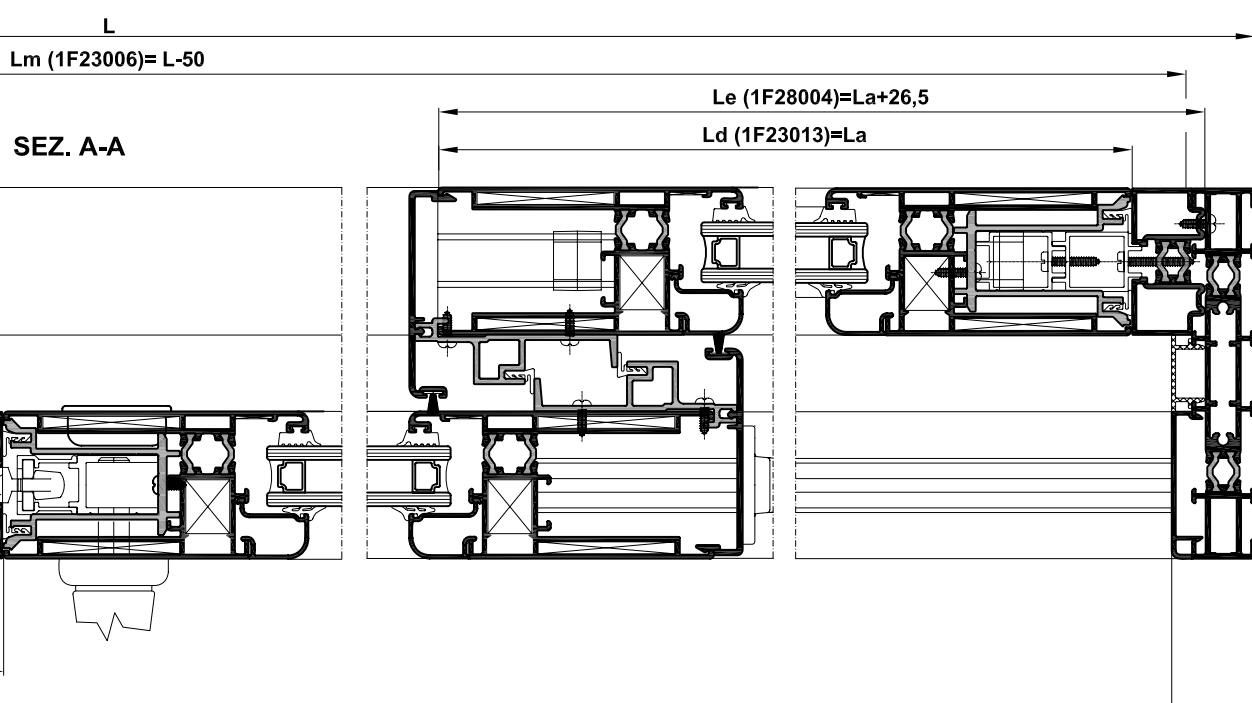
PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
1F28006	2	H	1	L
1F28004	2	H - 63		
1F23013			1	L - 61
			2	L a
1F23004	2	H - 63		
1F23006			2	L - 50
1F23014	2	Ha		
	2	Ha + 2		
1F28010	8	Ha = H - 59,5	8	La = L/4 + 23,5
1F14013	4	Ha - 224	4	La - 224
1F28005	1	Ha - 49		

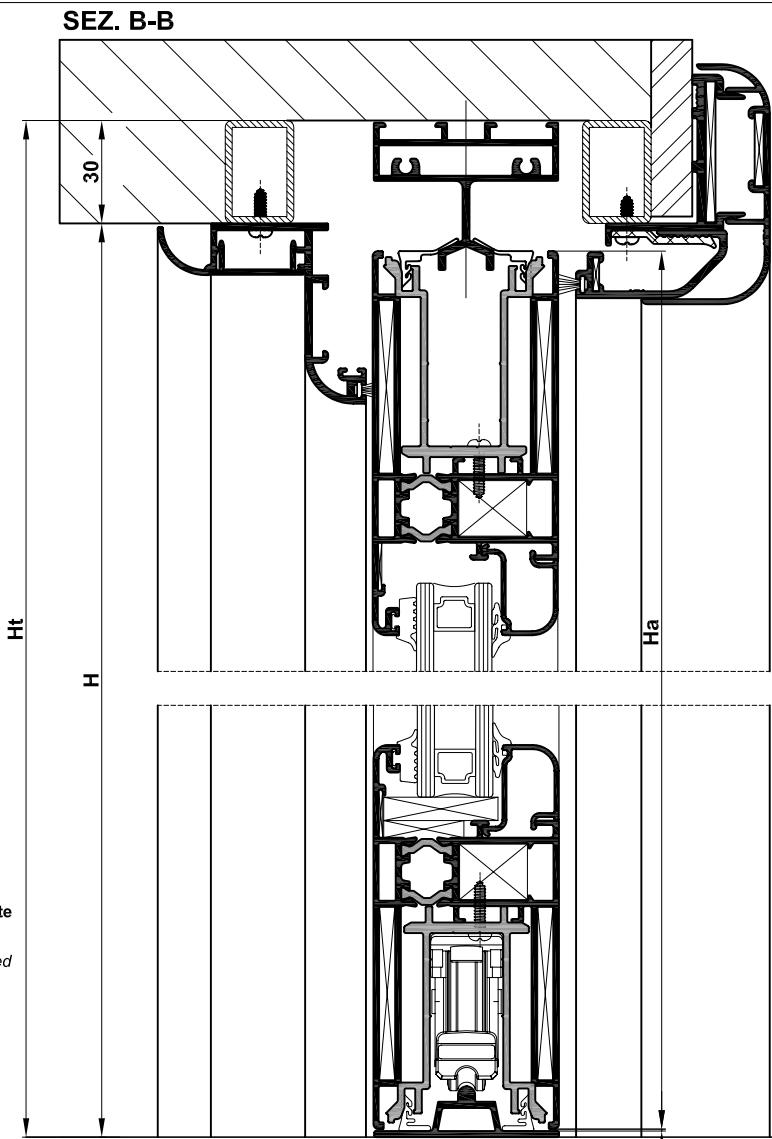
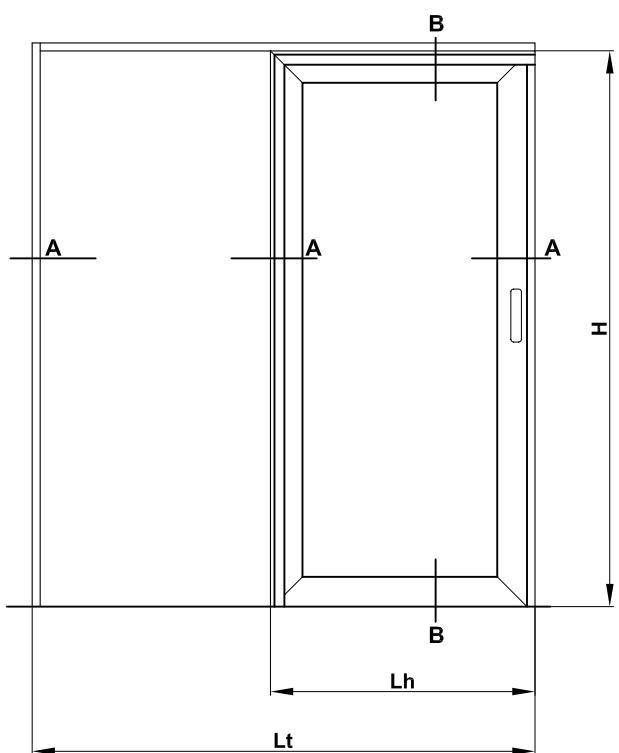


NB: La soluzione con binario "basso" 1F23013 deve essere utilizzata solamente nel caso in cui il serramento sia protetto da pensilina e non esposto, in quanto non viene garantita la perfetta tenuta agli agenti atmosferici.

Lower track solution 1F23013 must be used only when the casement widow is not directly exposed.

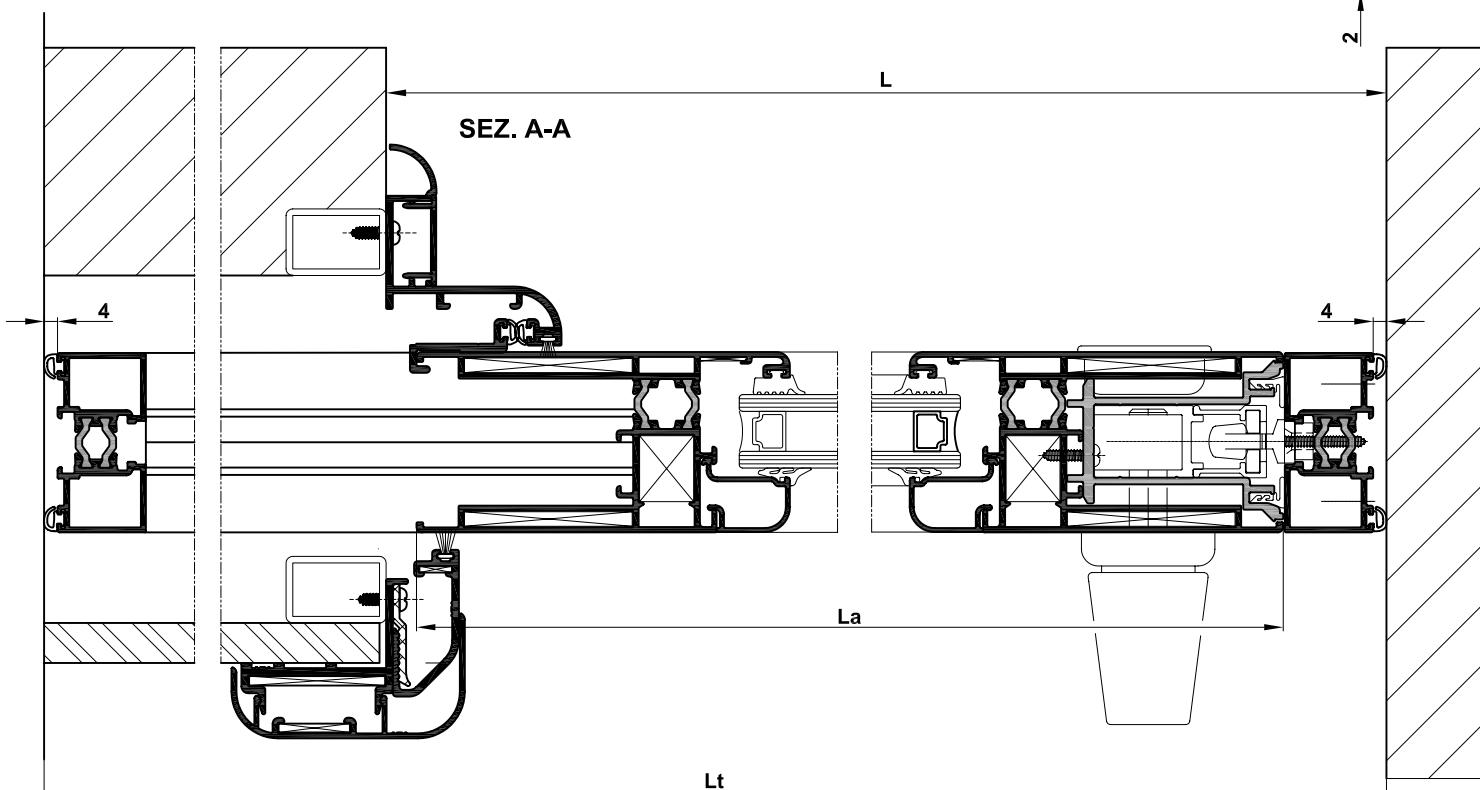
As perfect sealing to atmospheric agents cannot be guaranteed.





N.B: - Le dimensioni di taglio e di lavorazione indicate nelle pagine seguenti sono state ottenute considerando le quote teoriche.
Pertanto è necessario verificare sempre le dimensioni dei profili prima di effettuare i tagli.
Sapa declina ogni responsabilità per errori dovuti al mancato controllo da parte del costruttore.

N.B: - The cutting and processing dimensions, indicated in the following pages, are obtained considering theoretical values.
It is, therefore, always necessary to check the dimensions of the profiles before executing the cutting.
Sapa declines any responsibility from errors caused from the missing dimensional check of the carpenter



DISTINTE DI TAGLIO - PORTA SCORREVOLE A SCOMPARSA
CUT LIST - WINGS WINDOW - SLIDING HIDDEN DOOR

WIN 140sa^{TT}
 SYSTEM

PROFILATO SECTION	N.Pz N.Pz	TAGLIO CUT	N.Pz N.Pz	TAGLIO CUT
800814	1	L + 43	1	H + 43
800815	1	L - 2	1	H - 2
800816	1	L + 46	1	H + 46
1F23009	1	L	1	H
800738	1	L - 5	1	H - 5
1F28009			2	Ht (H + 30)
1F23011	1	Lt - 60		
1F23013	1	Lt - 60		
1F28010	2	La = L - 40	2	Ha = H - 8
1F14012	2	La - 224	2	Ha - 224
1F23010			1	Ha
* G.0309.QN	2	La	1	Ha

ACCESSORI
ACCESSORIES

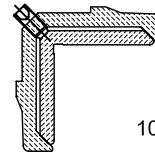
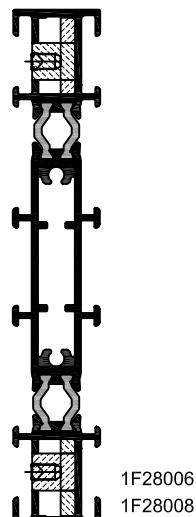
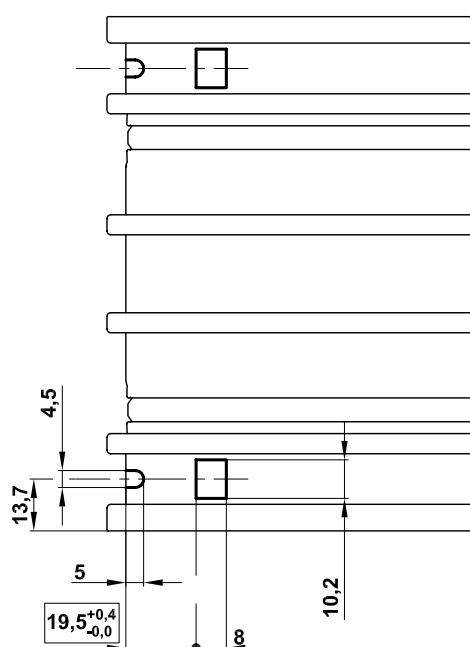
ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
10001.00	Squadretta allineamento aletta Alignment corner joint on fin.	4	A.5200.VA	Kit base movimentazione un'anta Basic Kit for one wing movement	1	RA 590	Squadretta allineamento su profilato 800814 Alignment corner joint on section 800814	1
10027.00	Squadretta ad avvitare mm 16,8x20,3 (anta) Corner joint to be screwed 16,8x20,3 mm (wing)	4	A.5213.XX	Maniglia con coprirossetta e conchiglia corta Single handle with short basin	1	0712	Squadretta allineamento su profilato 800815 Alignment corner joint on section 800815	1
A.1500.NN	Basetta unificata per regolo mobile Unified plate for adjustabel block	8	A.52XX.XX	Serratura alzante Lifting locking	1	A.9930.TN	Mollella per aggancio compensatore 800815 Clips to compensator for section 800815	20
10410.01	Regolo mobile da 16,5 mm Adjustable block mm 16,5	8	A.520X.KA	Barra di collegamento Linking bar	1	10061	Squadretta allineamento su profilato 800816 Alignment corner joint on section 800816	1
A.2916.AA	Squadretta allineamento aletta anta Alignment corner joint on fin wing	8	10545.XX	Angolo stampato per fermavetri arrotondati Moulded for snap-on rounded glass beading	4			

GUARNIZIONI
WEATHERSTRIPS

ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.	ARTICOLO ITEM	DESCRIZIONE DESCRIPTION	N.
G.0097.EN	Guarnizione copriglizzo su prof. 1F28009 Weatherstrip coverjoint on 1F28009 section	1H	10861.01	Guarnizione tenuta interna vetro Internal glazing weatherstrip	2H 2L			
G.0099.EN	Guarnizione tenuta guida superiore Sealing weatherstrip upper slide guide	2L	10821.01	Guarnz. prof. 1F28009 - 1F23009 - 1F23010 Weatherstrip to 1F28009 - 1F23009 - 1F23010	4H			
G.0100.EN	Guarnizione tenuta perimetrale Sealing weatherstrip perimeter	2H 2L		Spazzollino 4,8x8mm Protective fiber 4,8x8mm	2H 2L			
10851.01	Guarnizione tenuta esterna vetro External glazing weatherstrip	2H 2L						

* Consigliamo di tagliare il profilato in poliammide a 45°, unitamente all' 1F28010
 We recommend cutting polyamide profile at 45°, toggether with 1F28010

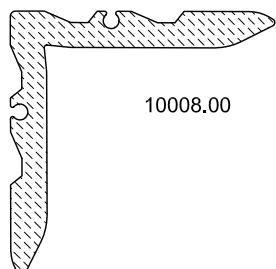
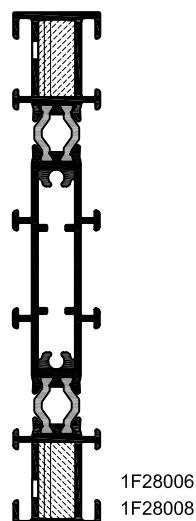
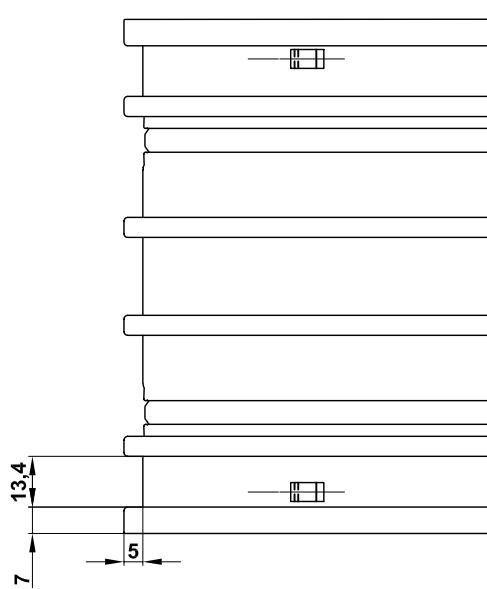
SQUADRETTA AD AVVITARE
CORNERS JOINTS TO BE SCREWED



10026.00

Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

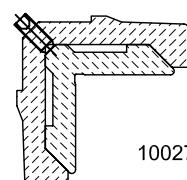
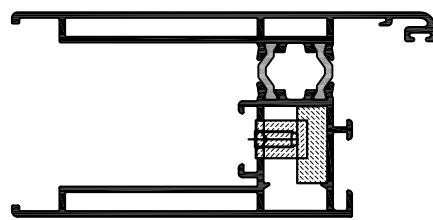
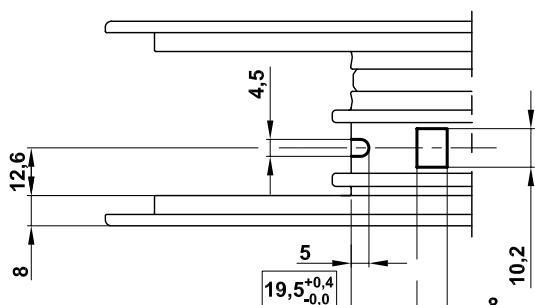
SQUADRETTA A CIANFRINARE
CORNERS JOINTS TO BE CRIMPED



10008.00

Attrezzatura: CIANFRINATRICE
Tooling: CRIMPING MACHINE

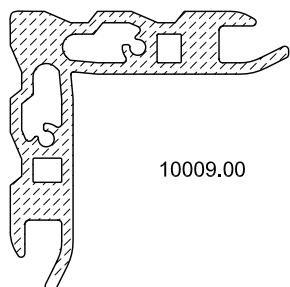
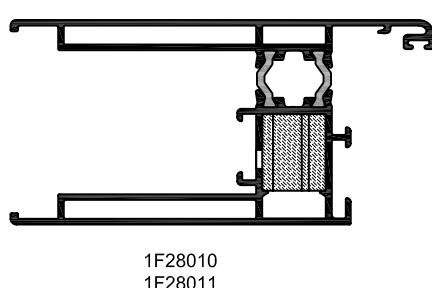
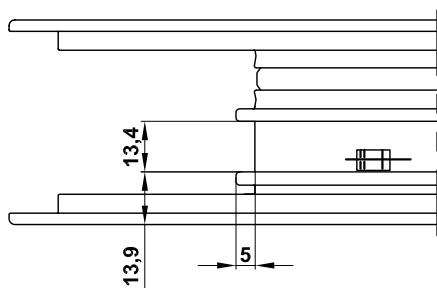
SQUADRETTA AD AVVITARE
CORNERS JOINTS TO BE SCREWED



10027.00

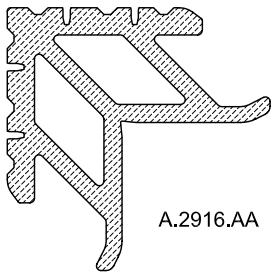
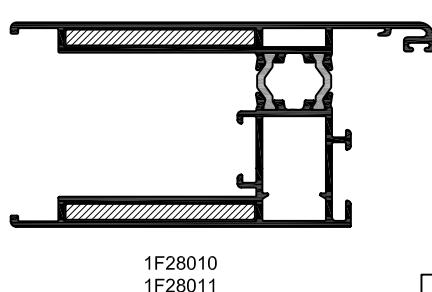
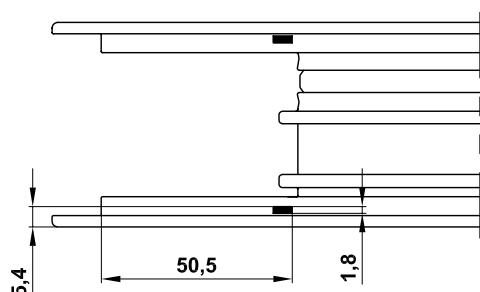
Attrezzatura: PUNZONATRICE
Tooling: PUNCHING MACHINE

SQUADRETTA A CIANFRINARE
CORNER JOINTS TO BE CRIMPED



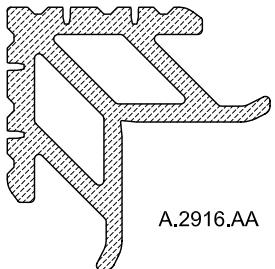
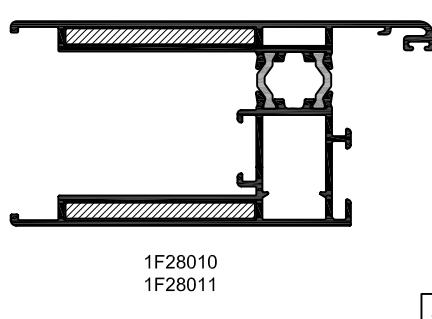
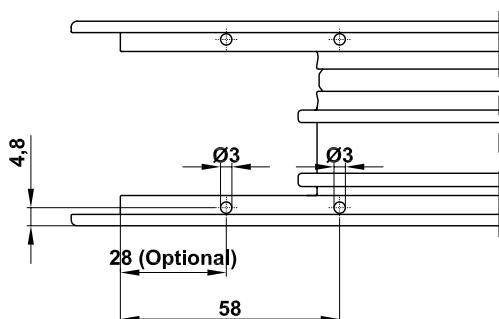
SQUADRETTA A CIANFRINARE
CORNER JOINTS TO BE CRIMPED

Attrezzatura: CIANFRINATRICE
Tooling: CRIMPING MACHINE



SQUADRETTA A SPINARE
CORNER JOINTS TO BE PINNED

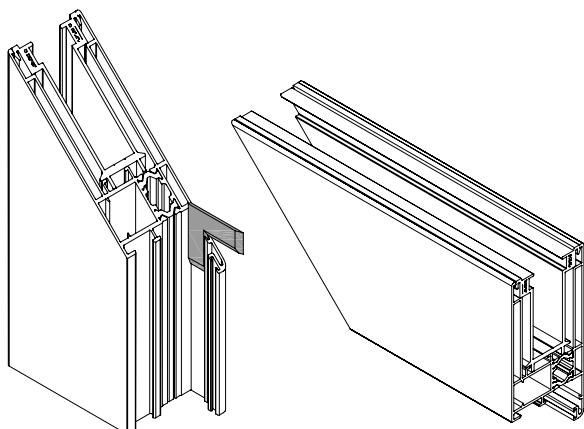
Attrezzatura: CIANFRINATRICE
Tooling: CRIMPING MACHINE



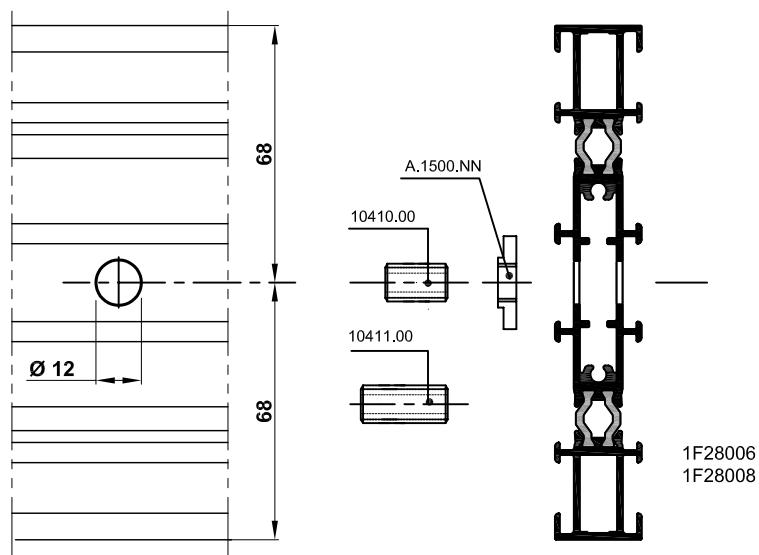
SPINA 092 Monticelli

Attrezzatura: TRAPANO
Tooling: DRILL

SQUADRETTA ALLINEAMENTO ALETTA
CORNER JOINT FOR ALIGNMENT RABBET



REGOLO MOBILE
ADJUSTABLE FIXING

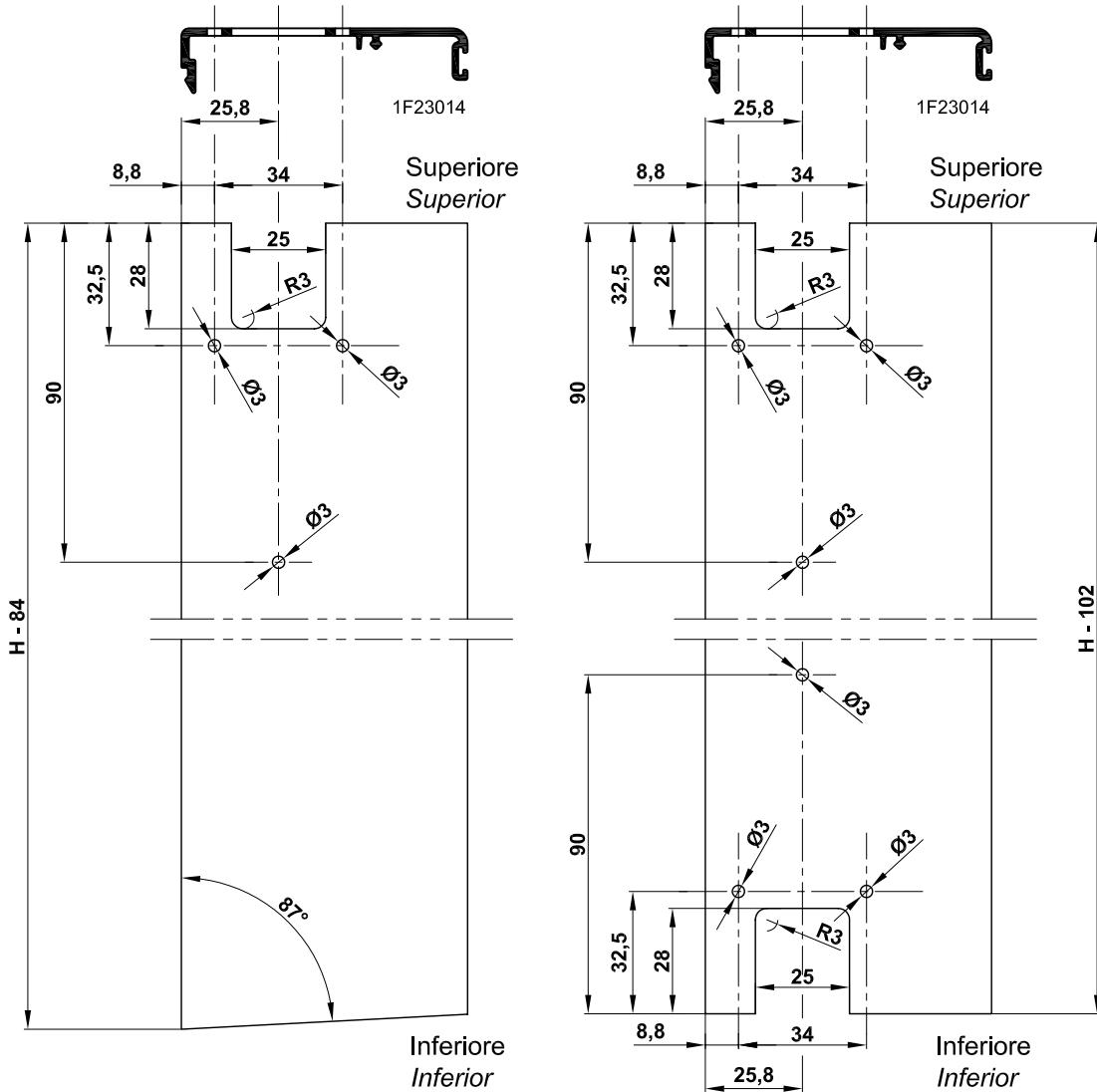


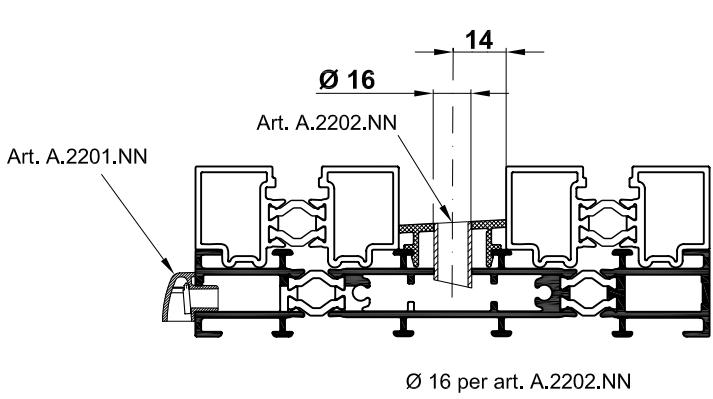
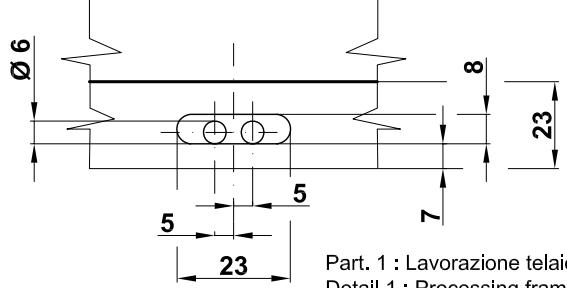
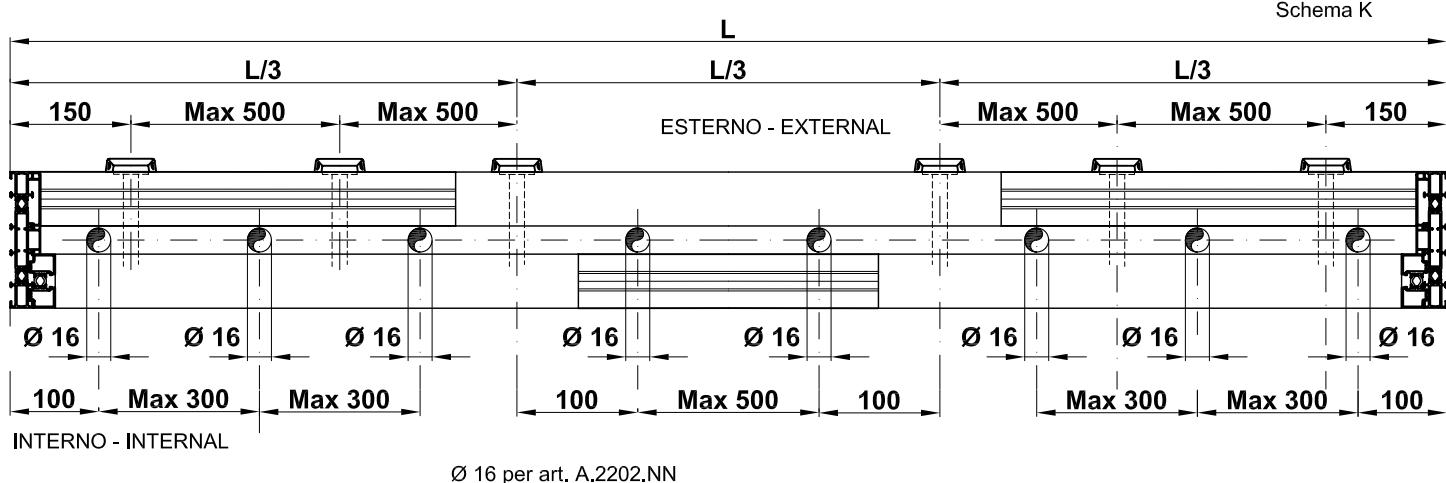
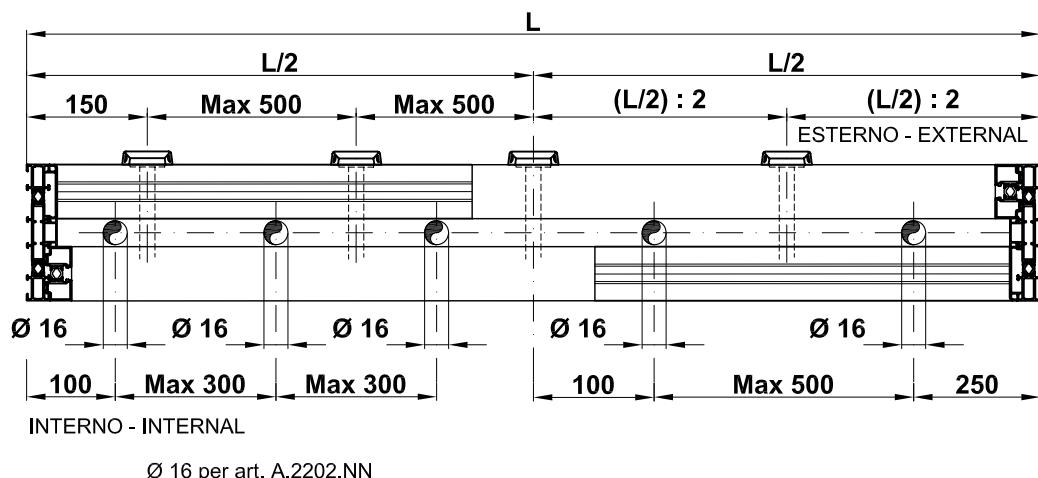
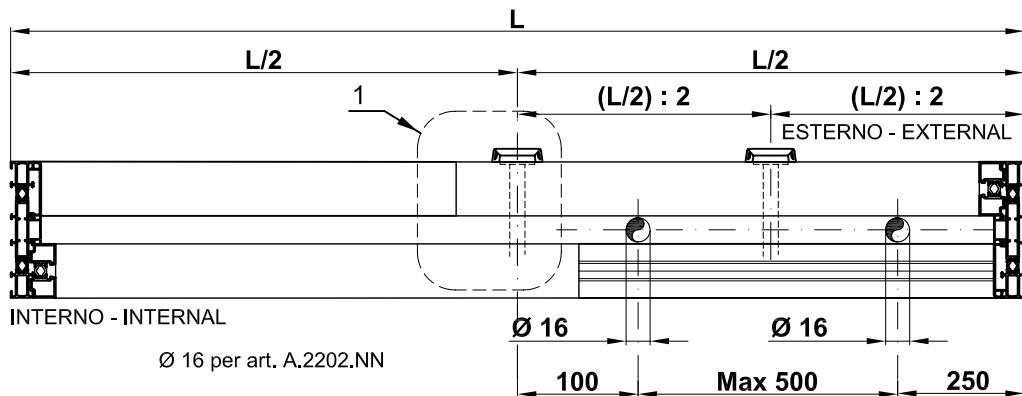
LAVORAZIONI PROFILATO 1F23014
PROCESSING SECTION 1F23014

Attrizzatura: TRAPANO
Tooling: DRILL

Lavorazione per Schema A e K
Processing for scheme A and K

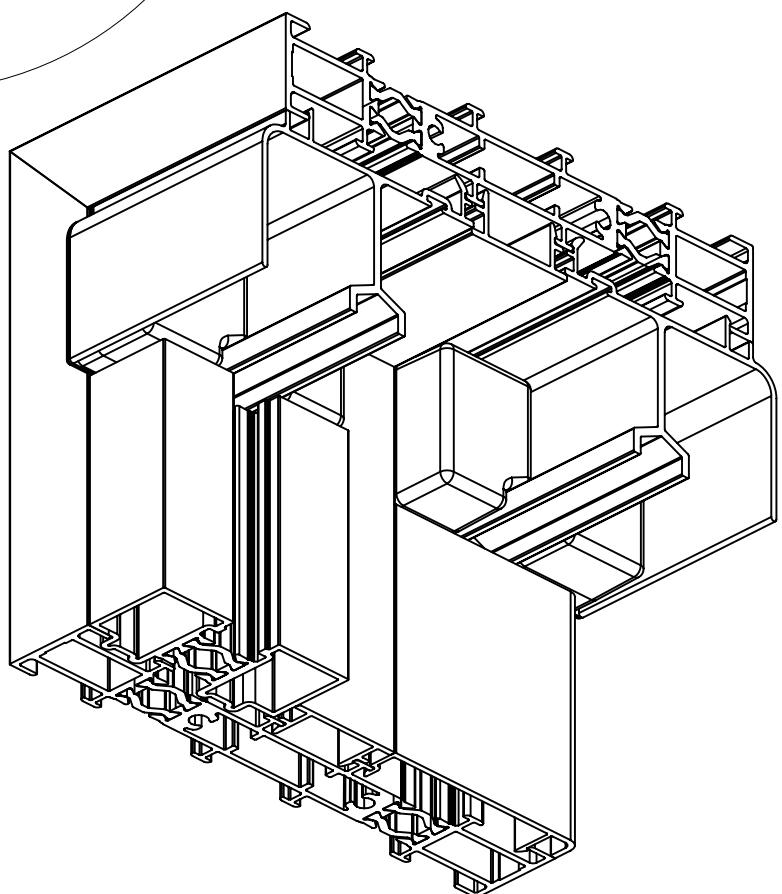
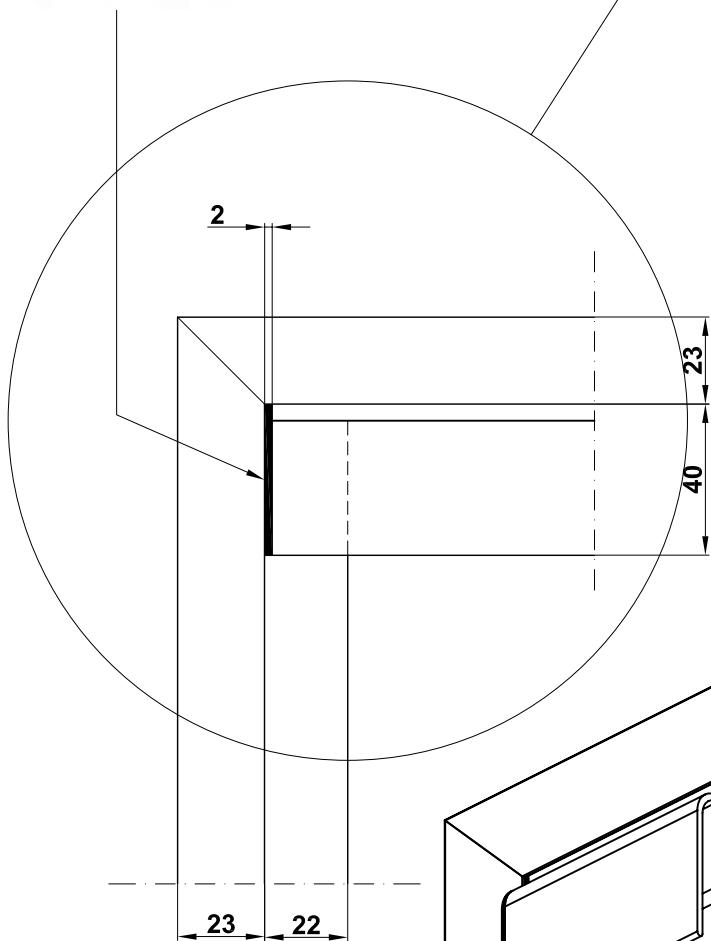
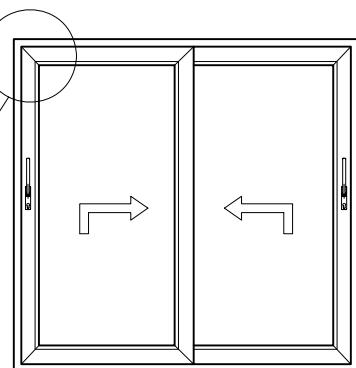
Lavorazione per Schema D
Processing for scheme D

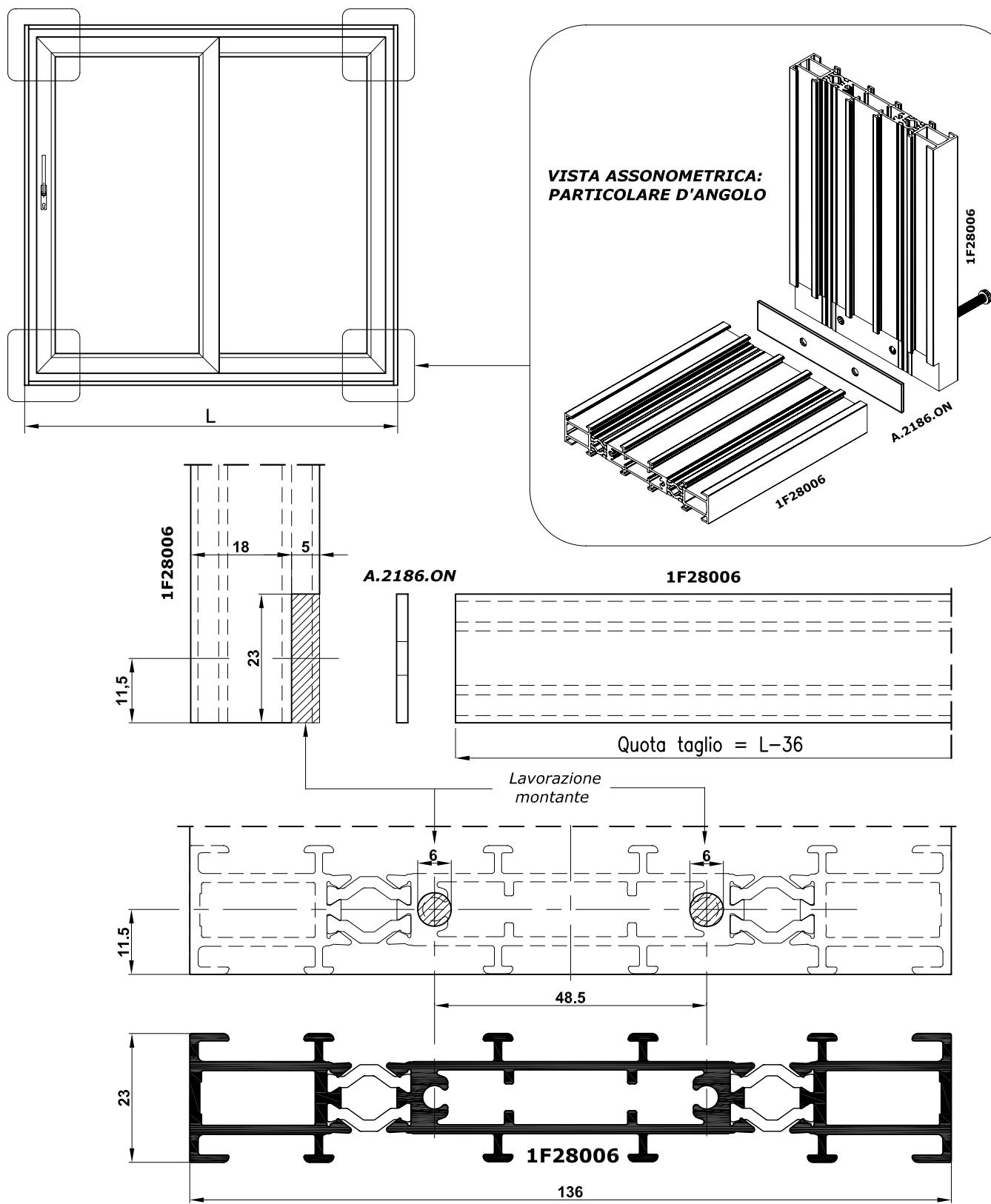




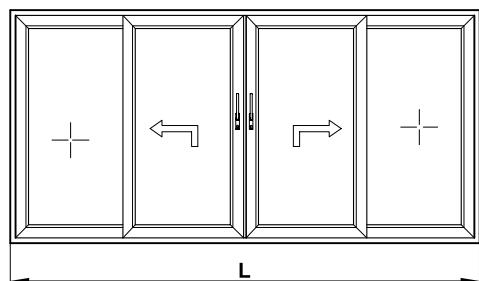


A.2169.NN

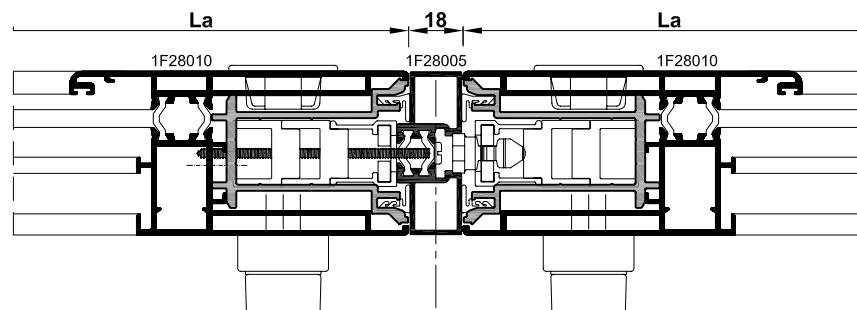
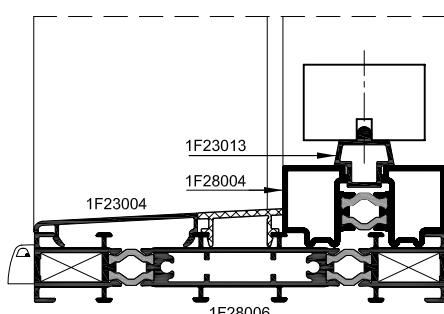




FORATURA BINARIO 1F23013 TRAMITE DIMA U.5290.YA
DRILL OF THE TRACK 1F23013 TROUGH TEMPLATE U.5290.YA



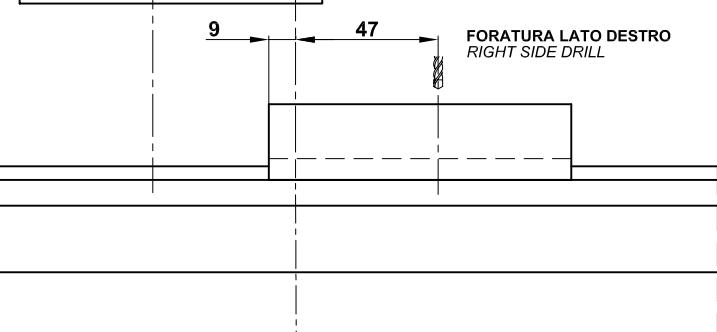
U.5290.YA



FORATURA LATO SINISTRO
LEFT SIDE DRILL

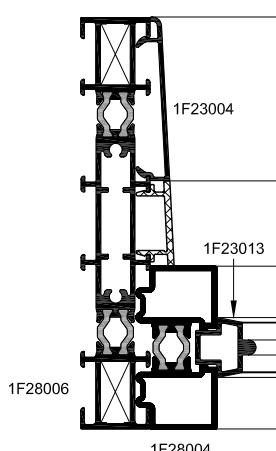


FORATURA LATO DESTRO
RIGHT SIDE DRILL

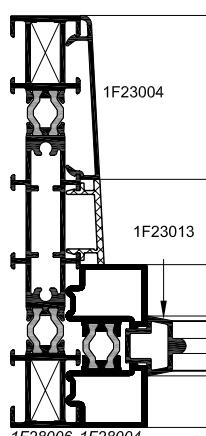
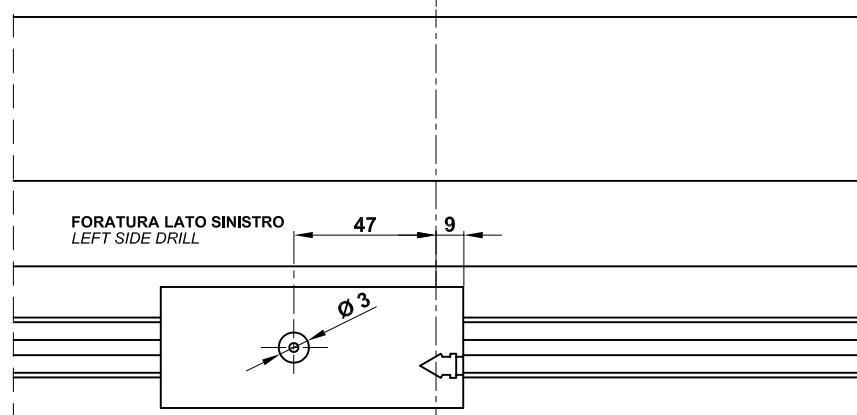


L/2

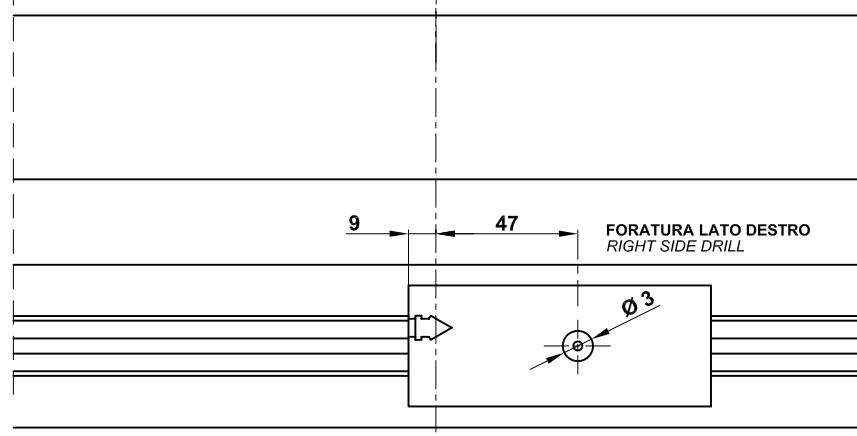
L/2

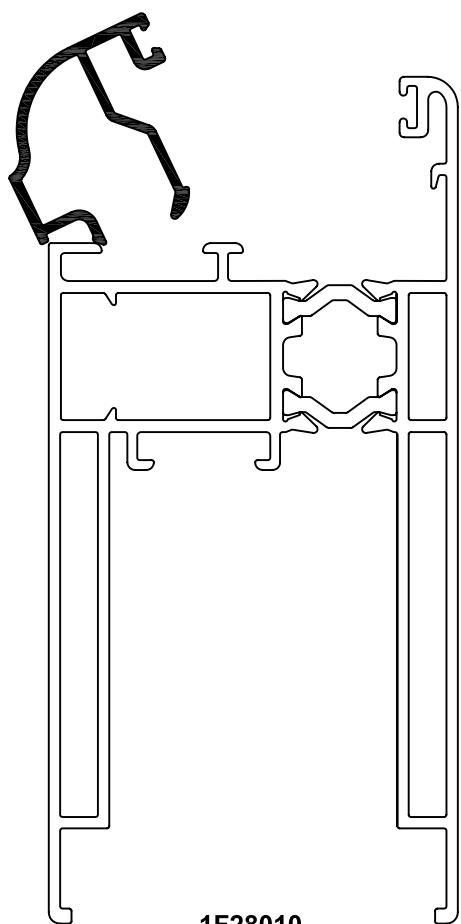
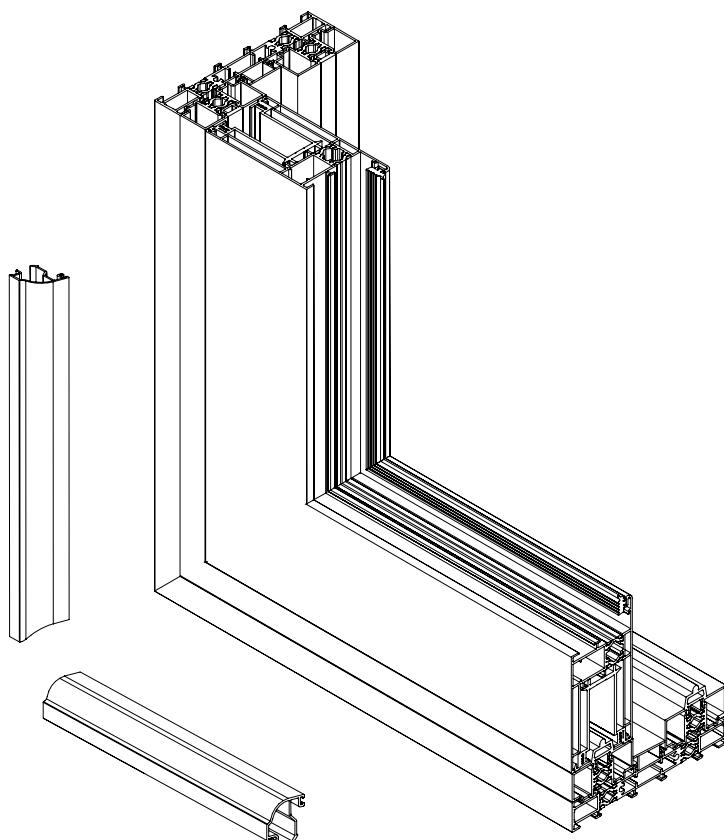


FORATURA LATO SINISTRO
LEFT SIDE DRILL

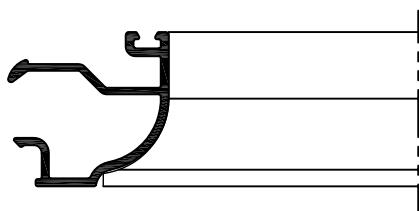
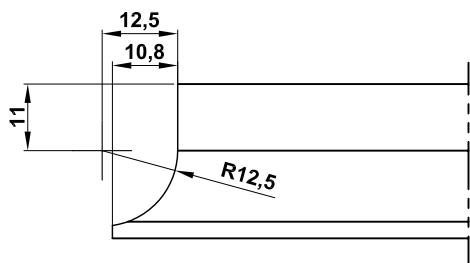


FORATURA LATO DESTRO
RIGHT SIDE DRILL



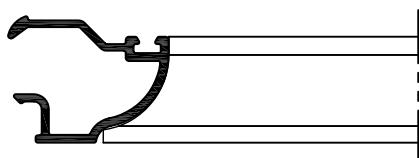
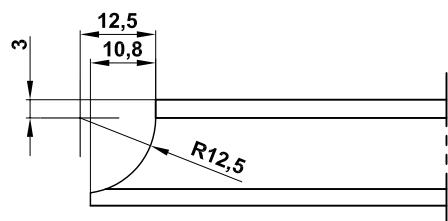


INTESTATURA FERMAVETRO "1F14072"
GLASS BEADING "1F14072" BUTTING



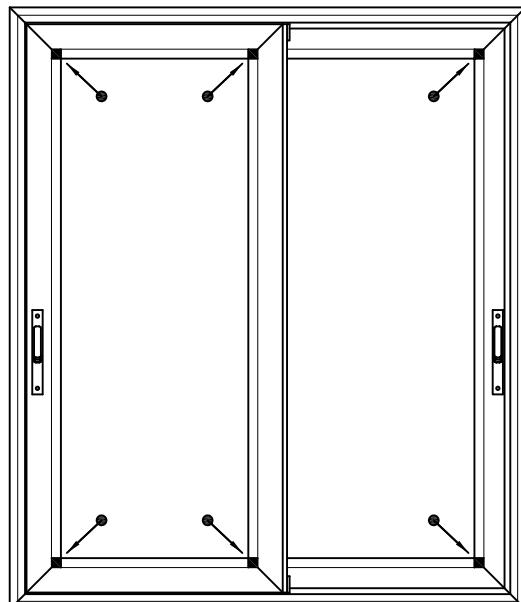
INTESTATURA FERMAVETRO "1F14073"
GLASS BEADING "1F14073" BUTTING

Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP



Attrezzatura: GRUPPO FRESE
Tooling: MILLING CUTTER GROUP

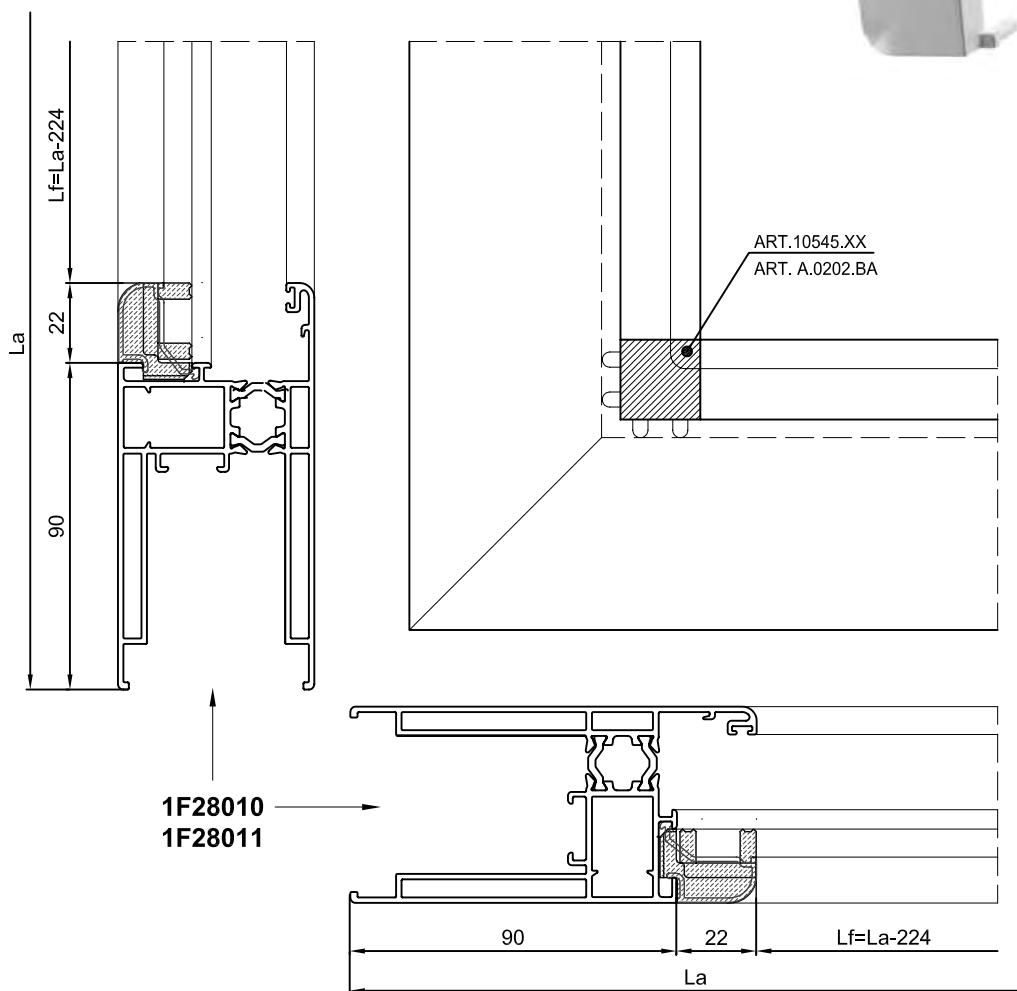
APPLICAZIONE ANGOLO STAMPATO PER FERMAVETRI ARROTONDATI A SCATTO
MOULDED CORNER FOR SNAP-ON ROUNDED GLASS BEADING APPLICATION

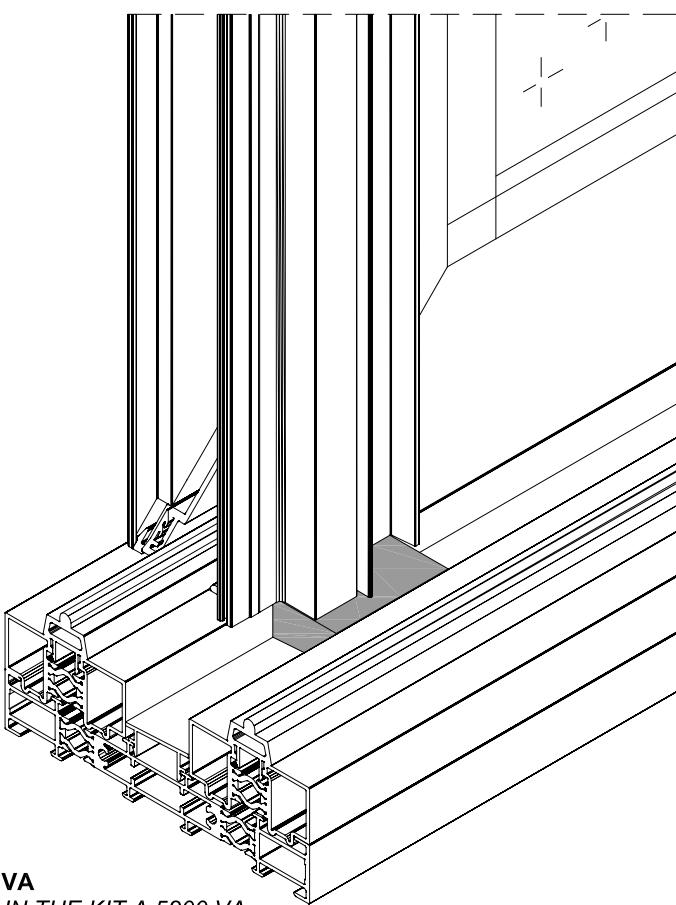
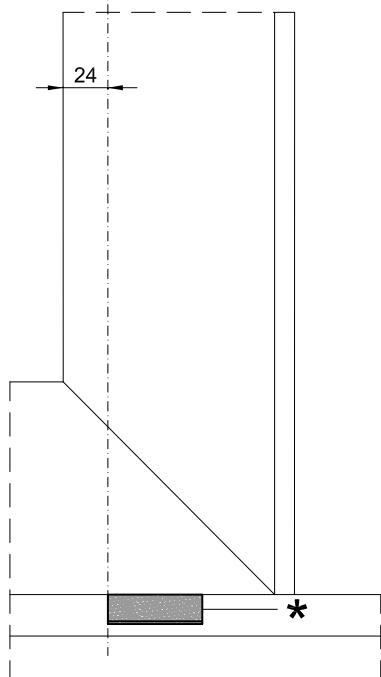
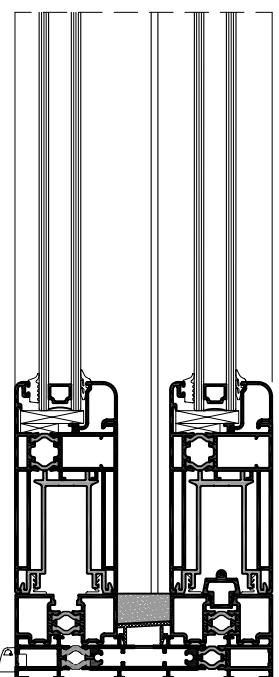
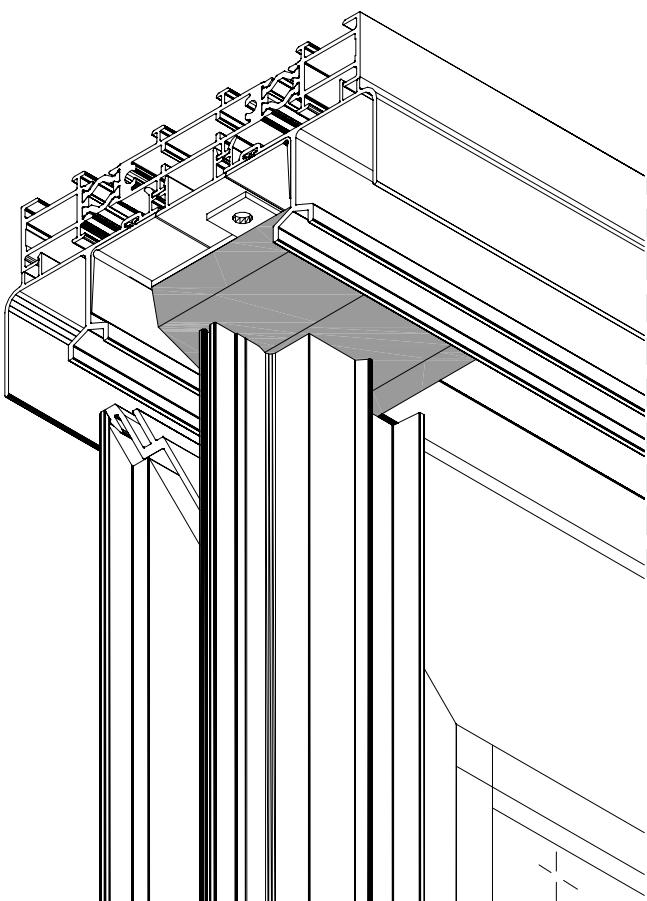
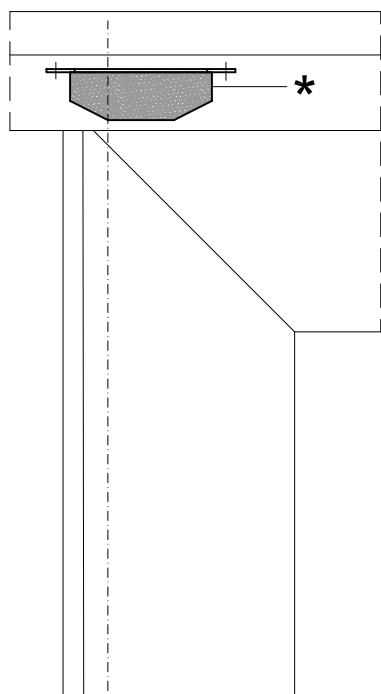
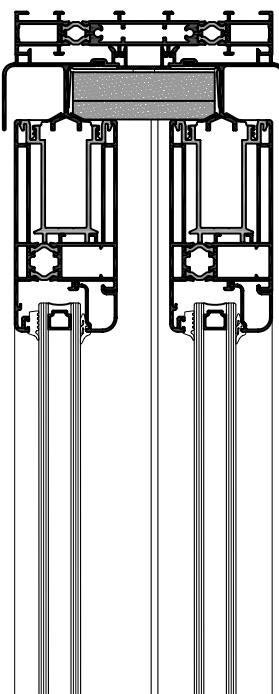


Angolo stampato per fermavetri arrotondati anta 1F28010
Moulded for snap-on rounded glass beading wing 1F28010
● ART.10545.XX



Angolo stampato per fermavetri arrotondati anta 1F28011
Moulded for snap-on rounded glass beading wing 1F28011
● ART. A.0202.BA



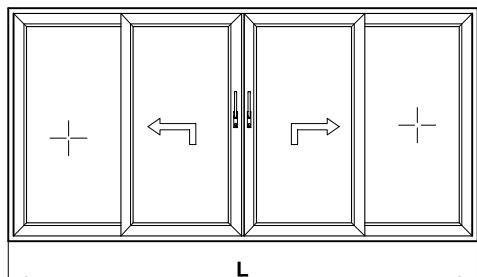


* I TAPPI DI TENUTA SONO COMPRESI NEL KIT BASE A.5200.VA

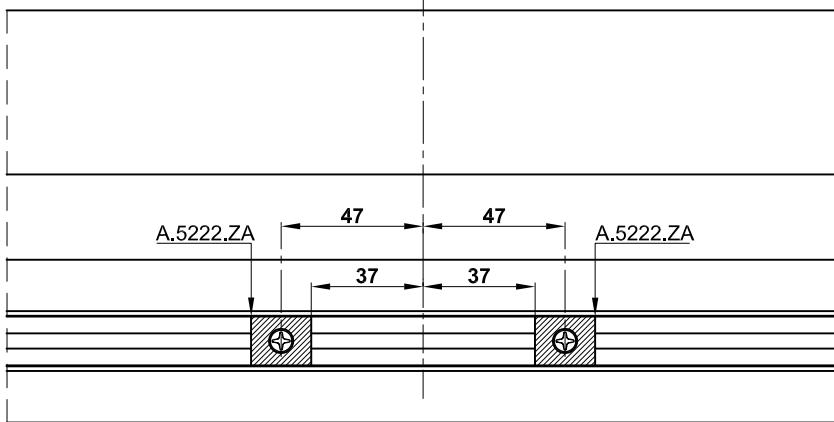
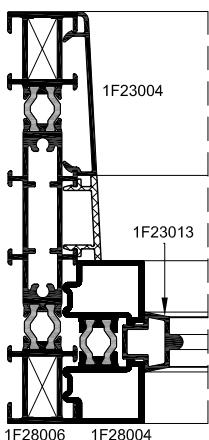
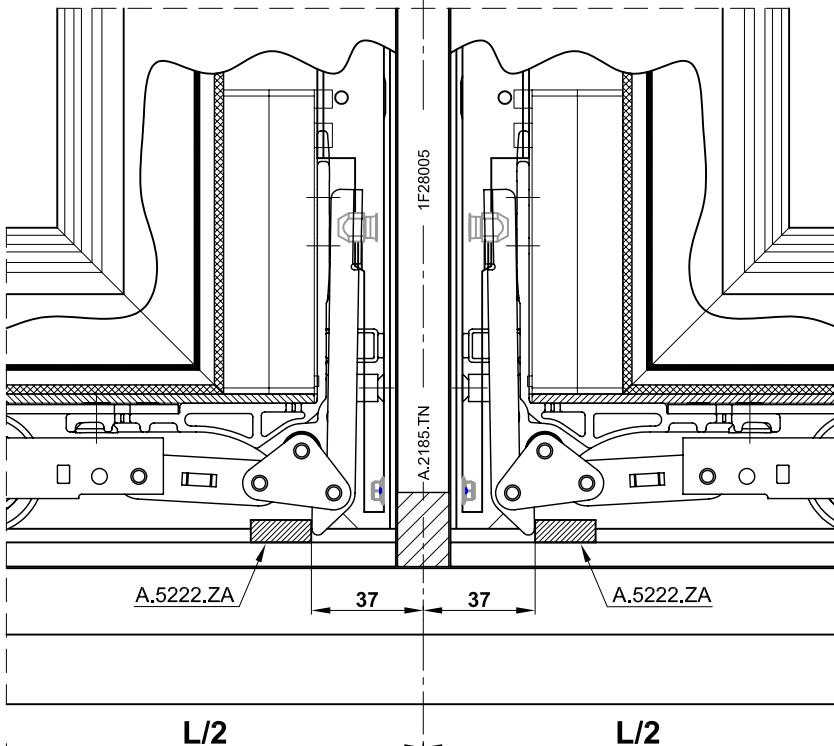
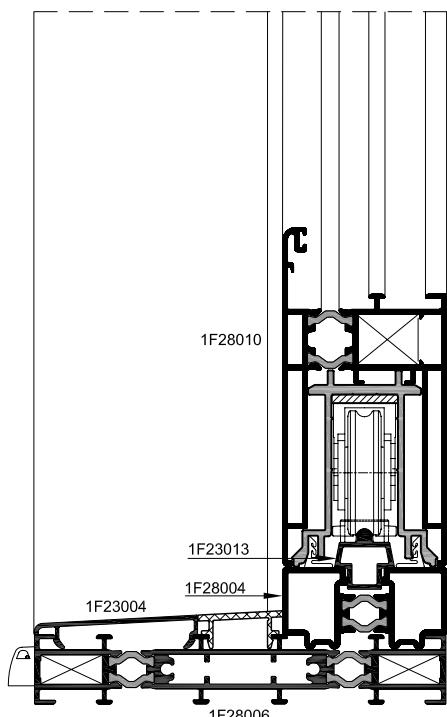
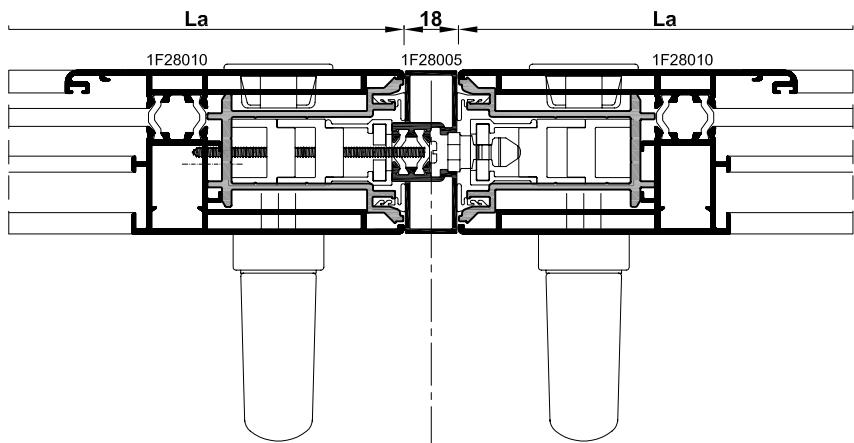
THE UPPER AND LOWER PLUGS AIR-TIGHT ARE INCLUDED IN THE KIT A.5200.VA

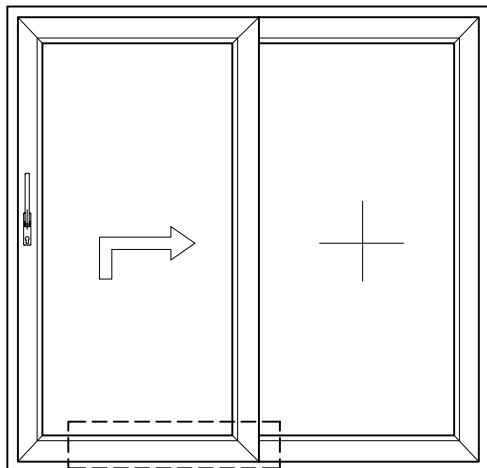
ACCESSORIO DELIMITATORE DI APERTURA PER 4 ANTE A.5222.ZA
OPENING DELIMITING ACCESSORY FOR 4 WING A.5222.ZA

WIN **140sa^{TT}**
 SYSTEM



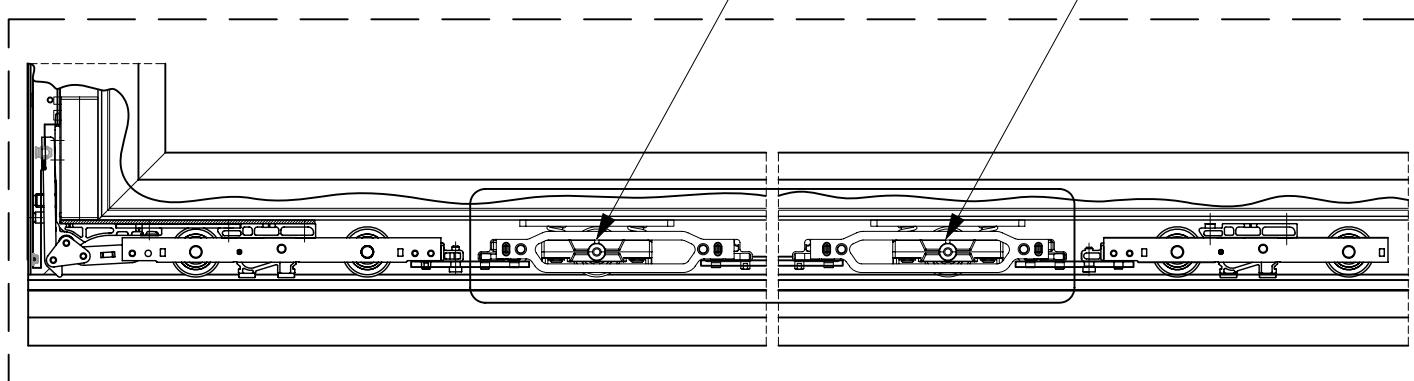
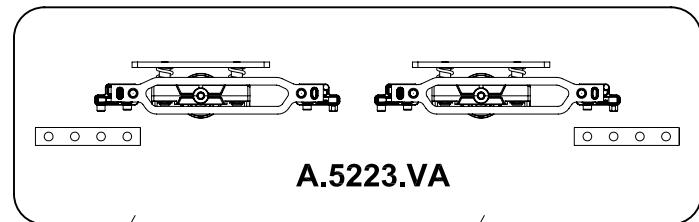
A.5222.ZA





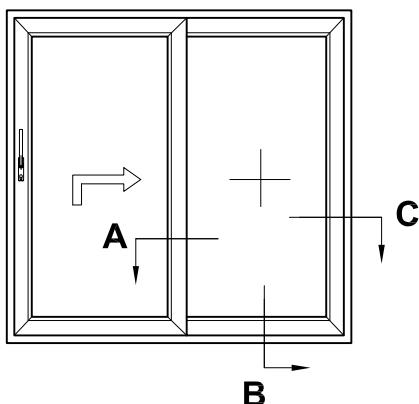
Kit A.5223.VA da utilizzare in aggiunta al Kit base A.5202.VA, per aumentare il peso dell' anta sino a 400 Kg.

Kit A.5223.VA to be used in addition to the standard kit A.5202.VA, to increase the weight of the wing up to 400 Kg.

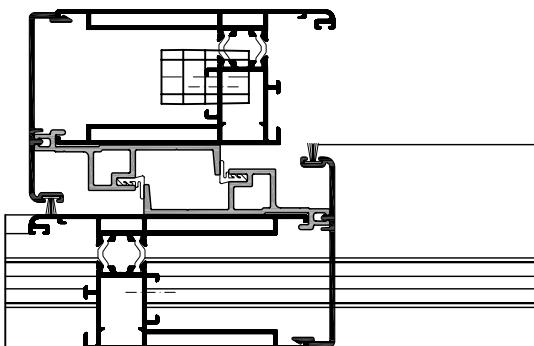


Asta di collegamento Linking bar

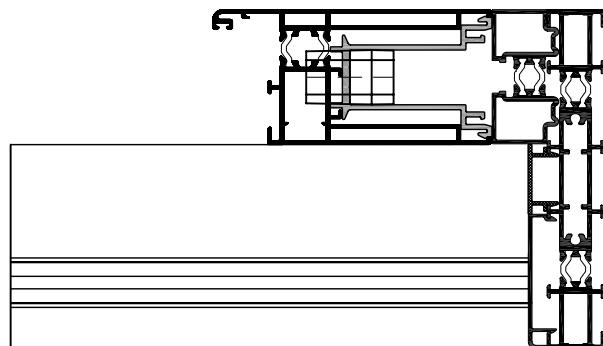
A.5201.KA	Lanta= 1200-1770	130mm (min 80mm)
A.5202.KA	Lanta= 1700-2275	130mm (min 80mm)
A.5203.KA	Lanta= 2200-2780	130mm (min 80mm)
A.5204.KA	Lanta = 2705-3280	130mm (min 80mm)
A.5205.KA	Lanta= 3210-3385	130mm (min 80mm)



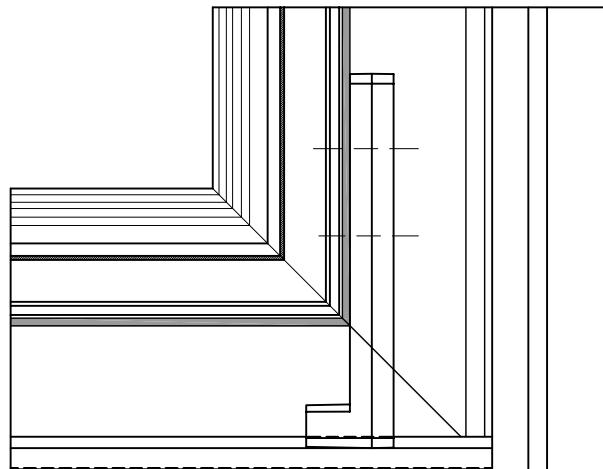
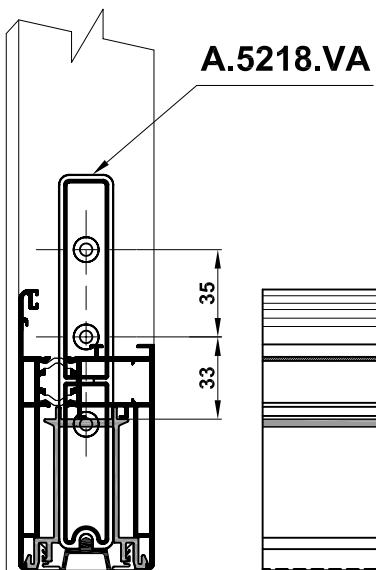
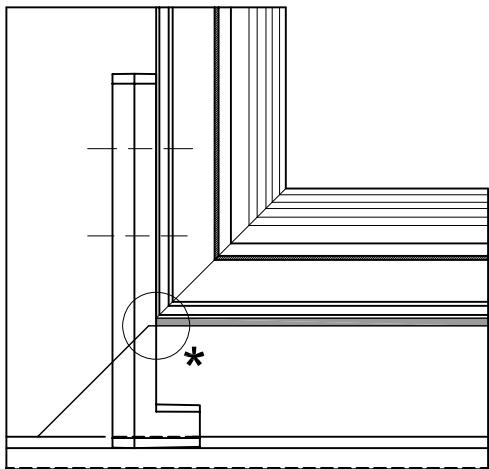
SEZ A-A



SEZ C-C



SEZ B-B



* TAGLIARE LA GUARNIZIONE G.0309.QN IN CORRISPONDENZA DELLA TUBOLARITA' DEL PROFILATO 1F28010
 CUT G.0309.QN IN CORRESPONDENCE OF THE 1F28010 PROFILE'S TUBULARITY