



Minimal-F

ed. 18.10.2024

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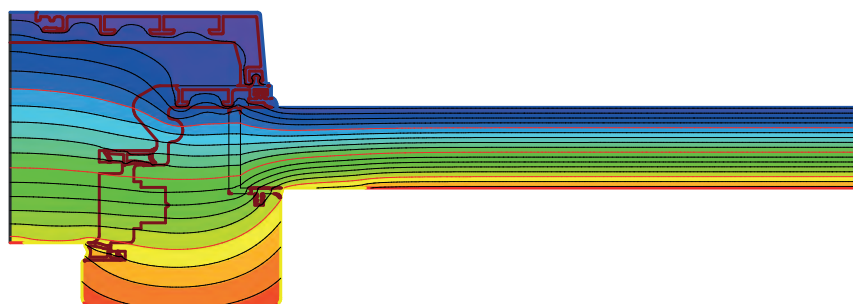
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SISTEMA Minimal-F

Nel sistema Minimal-F, i profili in alluminio vengono applicati al legno attraverso l'utilizzo di clips avvitati sul telaio del serramento.



Sistema Minimal-F
design minimalista ed essenziale



telaio: 69.5X80
anta: 69X69

Legno Tenero Soft Wood

$U_f = 1,4 \text{ (W/m}^2\text{K)}$

Legno Duro Hard Wood

$U_f = 1,6 \text{ (W/m}^2\text{K)}$

	U_f	U_g	$\psi_g \text{ 0,04}$	$\psi_g \text{ 0,06}$
triplo vetro	1,3 W/(m ² K)	0,5	$U_w=0,9 \text{ W/(m}^2\text{K)}$	$U_w=0,9 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	0,6	$U_w=0,9 \text{ W/(m}^2\text{K)}$	$U_w=1,0 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	0,7	$U_w=1,0 \text{ W/(m}^2\text{K)}$	$U_w=1,0 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	0,8	$U_w=1,1 \text{ W/(m}^2\text{K)}$	$U_w=1,1 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	0,9	$U_w=1,1 \text{ W/(m}^2\text{K)}$	$U_w=1,1 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	1	$U_w=1,2 \text{ W/(m}^2\text{K)}$	$U_w=1,2 \text{ W/(m}^2\text{K)}$
	1,3 W/(m ² K)	1,1	$U_w=1,3 \text{ W/(m}^2\text{K)}$	$U_w=1,3 \text{ W/(m}^2\text{K)}$
doppio vetro	1,4 W/(m ² K)	1,2	$U_w=1,4 \text{ W/(m}^2\text{K)}$	$U_w=1,4 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,3	$U_w=1,4 \text{ W/(m}^2\text{K)}$	$U_w=1,5 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,4	$U_w=1,5 \text{ W/(m}^2\text{K)}$	$U_w=1,5 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,5	$U_w=1,6 \text{ W/(m}^2\text{K)}$	$U_w=1,6 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,6	$U_w=1,6 \text{ W/(m}^2\text{K)}$	$U_w=1,7 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,7	$U_w=1,7 \text{ W/(m}^2\text{K)}$	$U_w=1,7 \text{ W/(m}^2\text{K)}$
	1,4 W/(m ² K)	1,8	$U_w=1,8 \text{ W/(m}^2\text{K)}$	$U_w=1,8 \text{ W/(m}^2\text{K)}$

	U_f	U_g	$\psi_g \text{ 0,04}$	$\psi_g \text{ 0,06}$
triplo vetro	1,3 W/(m ² K)	0,5	$U_w=1,0 \text{ W/(m}^2\text{K)}$	$U_w=1,0 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	0,6	$U_w=1,0 \text{ W/(m}^2\text{K)}$	$U_w=1,1 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	0,7	$U_w=1,1 \text{ W/(m}^2\text{K)}$	$U_w=1,1 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	0,8	$U_w=1,2 \text{ W/(m}^2\text{K)}$	$U_w=1,2 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	0,9	$U_w=1,2 \text{ W/(m}^2\text{K)}$	$U_w=1,3 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	1	$U_w=1,3 \text{ W/(m}^2\text{K)}$	$U_w=1,3 \text{ W/(m}^2\text{K)}$
	1,6 W/(m ² K)	1,1	$U_w=1,4 \text{ W/(m}^2\text{K)}$	$U_w=1,4 \text{ W/(m}^2\text{K)}$
doppio vetro	1,7 W/(m ² K)	1,2	$U_w=1,4 \text{ W/(m}^2\text{K)}$	$U_w=1,5 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,3	$U_w=1,5 \text{ W/(m}^2\text{K)}$	$U_w=1,5 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,4	$U_w=1,6 \text{ W/(m}^2\text{K)}$	$U_w=1,6 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,5	$U_w=1,6 \text{ W/(m}^2\text{K)}$	$U_w=1,7 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,6	$U_w=1,7 \text{ W/(m}^2\text{K)}$	$U_w=1,7 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,7	$U_w=1,8 \text{ W/(m}^2\text{K)}$	$U_w=1,8 \text{ W/(m}^2\text{K)}$
	1,7 W/(m ² K)	1,8	$U_w=1,8 \text{ W/(m}^2\text{K)}$	$U_w=1,9 \text{ W/(m}^2\text{K)}$

NOTE: Calcolo eseguito secondo UNI EN 10077-2:2004 e UNI EN 10077-1:2007.

Dimensioni del campione come da UNI EN ISO 12567-1:2002 (Finestra ad 1 anta LxH:1230x1480mm)

Calcolato sui sistemi standard in riferimento alle sezioni riportate nel catalogo tecnico Uniform.

Il presente calcolo è stato effettuato sulla base delle normative di seguito riportate a puro titolo di analisi e verifica interna.

I risultati ottenuti non costituiscono criterio di conformità, tali risultati potranno essere emessi esclusivamente da un istituto notificato.

Uniform SpA non si assume alcuna responsabilità sui valori indicati né sul loro utilizzo.

Uniform SpA si riserva il diritto di apporre modifiche in qualsiasi momento senza alcun obbligo di preavviso.

Normative di riferimento: UNI EN 10077-1:2007; UNI EN 10077-2:2004; UNI EN 12524:2001; UNI EN 673:2011;

	✓	⊘	i
I)Traverso intermedio anta D)Sprossen in Flügel E)Travesanos intermedios de la hoja F)Traverses intermédiaires vantail UK)Sash intermediate rails		•	
I)Inglesine(con incollaggio al vetro) D)Vorsatzsprosse E)Travesanos F)Traverses UK)Attachment crossbar		•	
I)Anta maggiorata per maniglia passante D)Verbreiteter Flügel für Griff E)Hoja mayorada para manilla pasante F)Vantail augmenté pour poignée à l'extérieure UK)Sash enlarged for exterior handle	•		
I)Finestra con sopra/sottoluca fisso D)Fenster mit Ober/Unterlicht fix E)Ventana con sobreluz/antepecho fijo F)Fenêtre avec partie fixe sous/au-dessus de la traverse UK)Fixed glazing	•		
I)Finestra con fisso laterale D)Fenster mit seitlichen Fixelement E)Ventana con fijo lateral F)Fenêtre avec fixe latéral UK)Side-fixed glazing	•		
I)Piantoni e traversi intermedi telaio D)Rahmen mit Kämpfer und Setzholz E)Montantes y travesaños intermedios del marco F)Meneaux et traverses intermédiaires du dormant UK)Sash intermediate mullions and transoms	•		
I)Finestre accoppiate D)Gekoppelte Fenster E)Ventanas acopladas F)Fenêtres assemblées UK)Assembled windows	•		
I)Inserimento per tapparelle D)Rolladenführungsprofile E)Encaje para celosías F)Prédisposition pour insérer les volets roulants UK)Arrangement for roller shutters	•		
I)Inserimento zanzariere D)Einführung Fliegengitter E)Encaje para mosquiteras F)Prédisposition pour insérer les moustiquaires UK)Arrangement for fly screens	•		
I)Telaio per ristrutturazione D)Rahmen für Renovierung E)Marco para rehabilitación F)Cadre pour rénovation UK)Frame for renovation	•		
I)Inserimento in facciata D)Einspannelement für Fassade E)Encaje en fachada F)Prédisposition pour l'insertion en façade UK)Insertion window for curtain wall	•		
I)Scorrevole parallelo D)Paralle-Schiebefenster E)Corredera paralela F)Couissant parallèle UK)Parallel-sliding windows	•		
I)Bilico orizzontale D)Schwingfenster E)Basculante horizontal F)Fenetre basculant pivotant horizontal UK)Swing windows	•		Vedere sistema Easy-Flat See Easy-Flat system
I)Apertura esterna/antipánico D)Fenster/Türen nach aussen öffnend E)Apertura exterior antipánico F)Ouverture vers l'extérieure/antipanique UK)Window/Door opening outwards	•		Vedere sistema Easy-Flat See Easy-Flat system
I)Alzante scorrevole D)Hebe/Shiebetüren E)Corredera elevadora F)Levant-couissant UK)Lifting sliding door	•		Vedere catalogo HS sistema Flat See Lift-Sliding catalogue Flat system
I)Fuorisquadra D)Schrägelement E)Fuera de squadra F)Hors-équerre UK)Out-of-square window	•		
I)Serramento ad arco D)Rundbogenfenster E)Cerramiento curvado F)Châssis cintré UK)Curved window	•		

Sistema MINIMA-F

uniform

Requisiti	Norma di classificazione	Caratteristiche
Trasmittanza termica nodo finestra(Uf)	UNI EN ISO 10077-2	1,4 W/m ² · K
Tenuta all'acqua	UNI EN 1027-12208	Classe 9A
Permeabilità all'aria	UNI EN 1026-12207	Classe 4
Resistenza al carico di vento	UNI EN 12211-12210	C4
Capacità portante del dispositivo di sicurezza	UNI EN 14351-1	350 N

Struttura in legno

La struttura in legno è predisposta per l'utilizzo di ferramenta antieffrazione con asse 13mm.

La struttura, internamente, prevede l'utilizzo di almeno una guarnizione centrale su tutto il perimetro dell'anta o del telaio.

Le specifiche tecniche delle battute e della squadratura sono indicate nel seguente catalogo. Le geometrie interne e la tipologia di vetro sono a discrezione del produttore.

Telai in alluminio

I profili in alluminio vengono realizzati in lega EN AW6060 T5 forniti come da EN 12020-1 e tolleranze EN 12020-2.

Verniciatura secondo regolamento Qualicoat o con trattamento di ossidazione anodica in classe 15 secondo specifiche del marchio EURA EWAA QUALONOD.

Fissaggio dei telai e altri accessori

Il fissaggio del telaio alla parte in legno avviene ad incastro e successivamente, a discrezione del produttore, con viti, clips o chiodi.

Il fissaggio dell'anta alla parte in legno avviene con viti.

Guarnizioni

Sull'anta viene montata una guarnizione in EPDM coestruso con componente espanso in appoggio sul vetro.

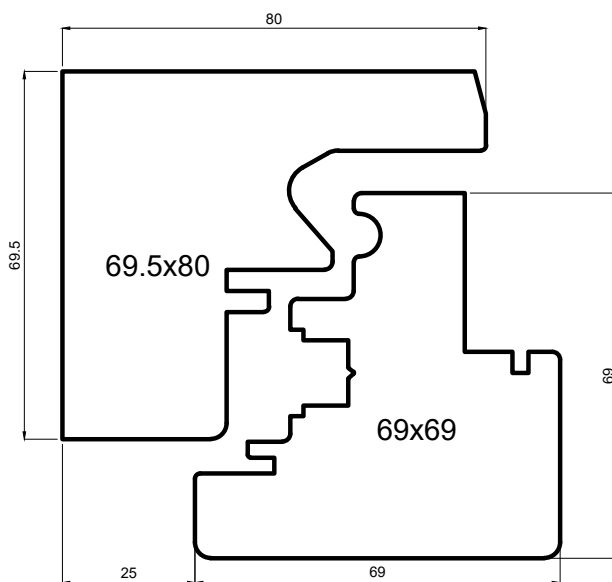
Sul profilo telaio alluminio viene montata una guarnizione in EPDM coestruso per evitare il contatto diretto tra le componenti metalliche.

Sistema MINIMAL-F

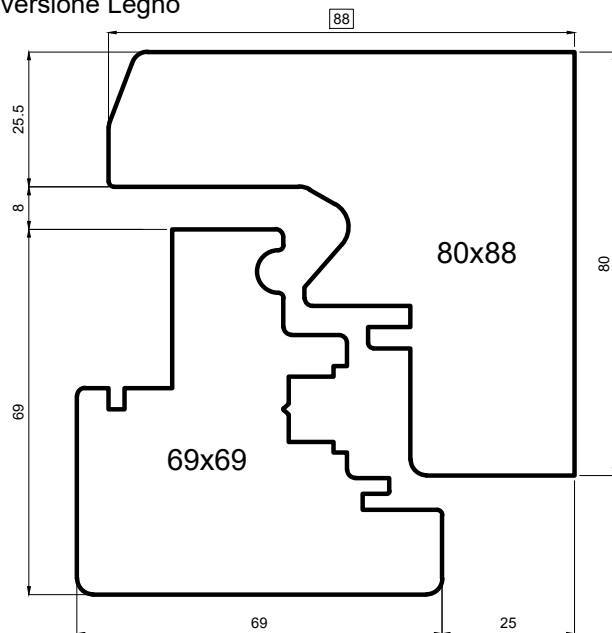
uniform

- ① Testo di capitolato
- ② Ausschreibungstext
- ③ Texto de condiciones
- ④ Texte de cahier des charges
- ⑤ Technical specifications

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Sezione

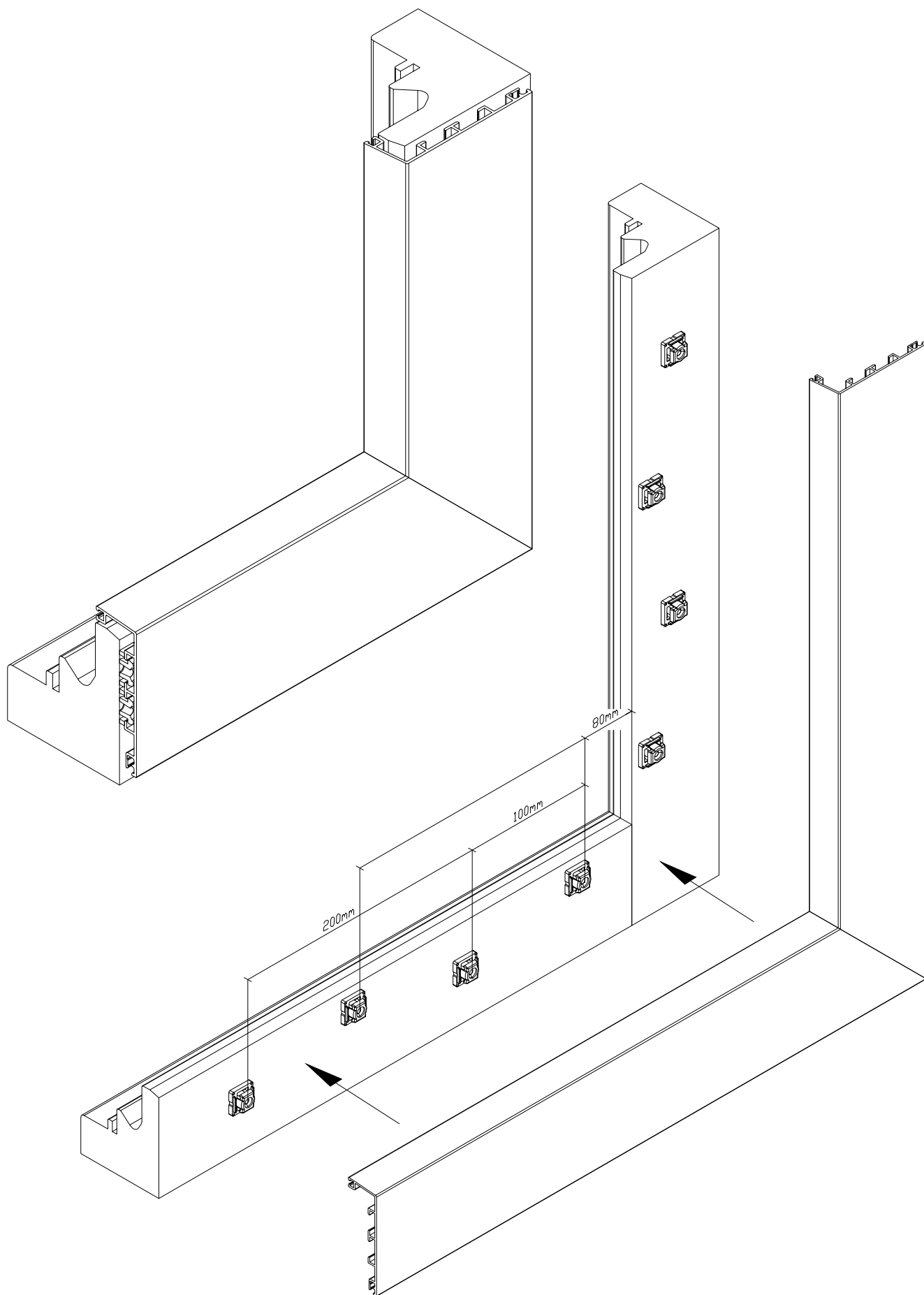


Sistema MINIMAL-F

uniform

Scala 0.7:1

- ①** Sezioni per serramento in legno e Legno/Alluminio
UK Wood and Wood/Aluminium window's sections



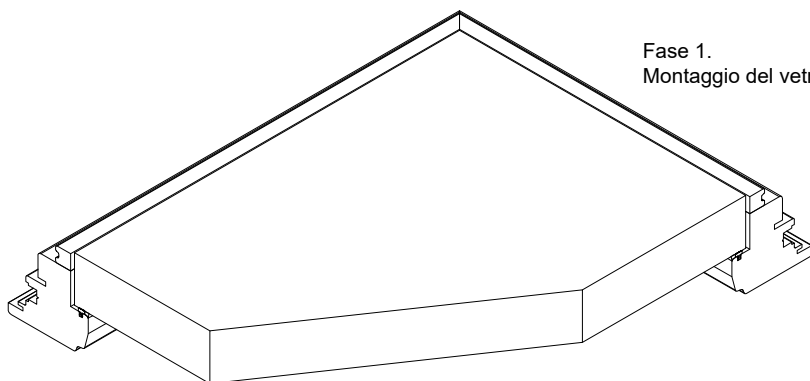
Sistema MINIMAL-F

uniform

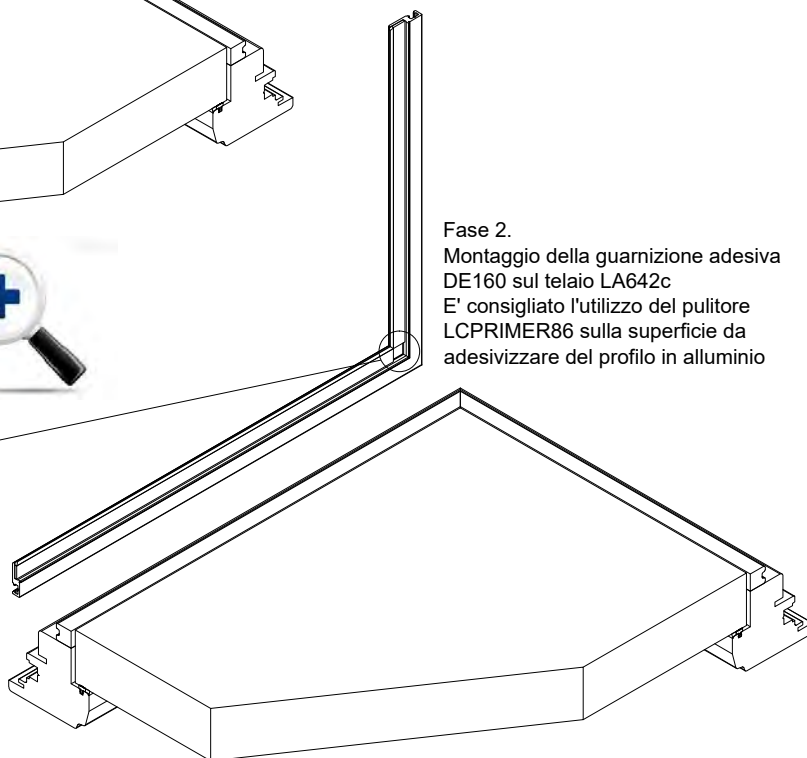
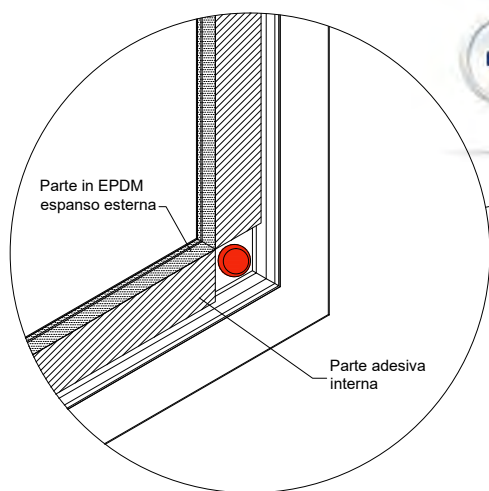
- ① Montaggio del telaio
- ② Montage der rahmen
- ③ Montaje del marco
- ④ Montage de dormant
- UK Installation of the frame

Fasi di montaggio per profilo anta LA642c

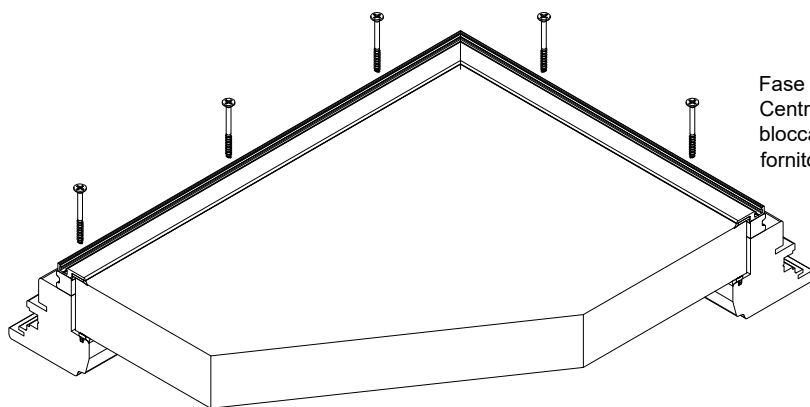
Fase 1.
Montaggio del vetro e spessoramento



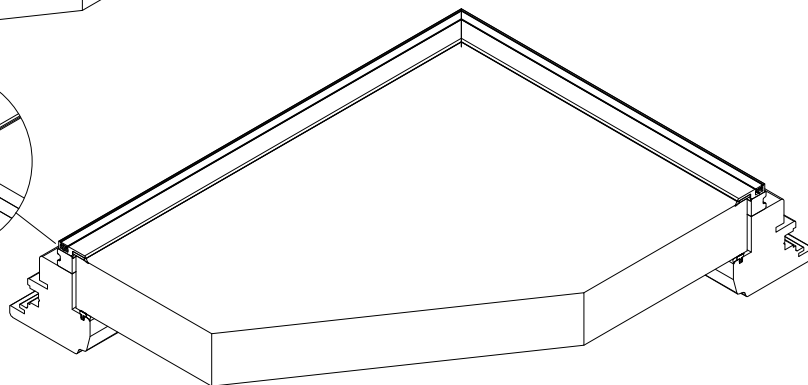
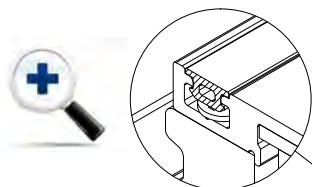
Fase 2.
Montaggio della guarnizione adesiva
DE160 sul telaio LA642c
E' consigliato l'utilizzo del pulitore
LCPRIMER86 sulla superficie da
adesivizzare del profilo in alluminio



Fase 3.
Centraggio del telaio in alluminio e
bloccaggio con viti LVP104 (Profilo già
fornito con fori a passo 150mm)



Fase 4.
Montaggio della guarnizione di copertura
cava DE144



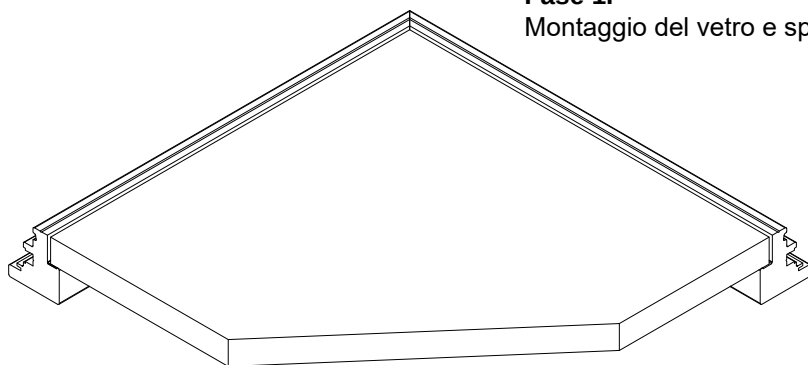
Sistema MINIMAL-F

uniform

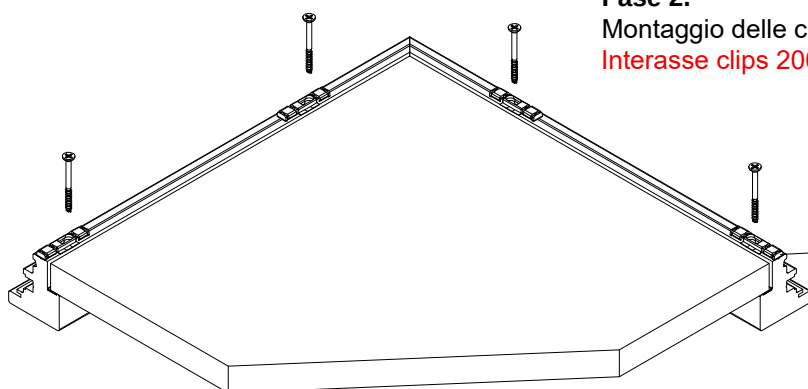
- ① Istruzioni per il montaggio
- ② Einbauanleitung
- ③ Instrucciones de instalacion
- ④ Instructions d'installation
- ⑤ Installation instructions

Fasi di montaggio per profilo anta LA645-LA648

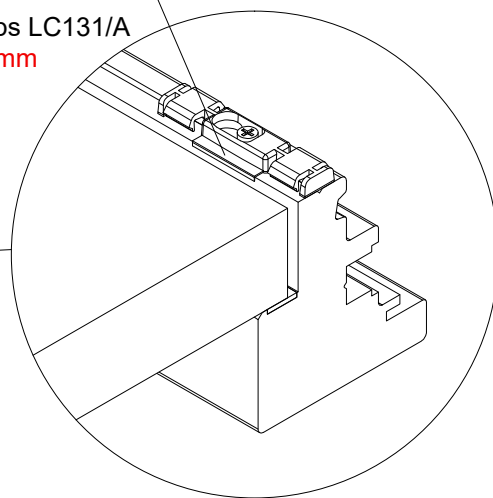
Fase 1. Montaggio del vetro e spessoramento



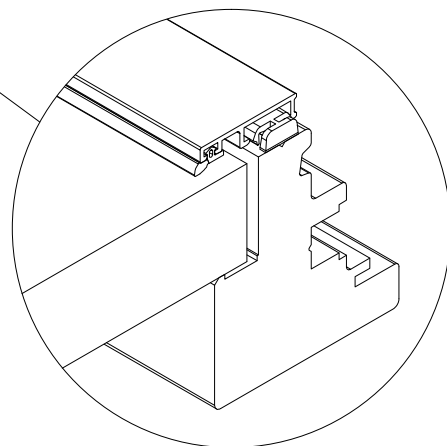
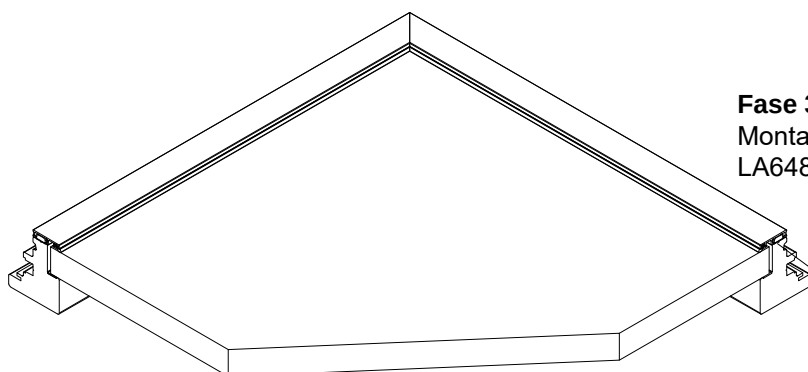
Fase 2. Montaggio delle clips LC131/A Interasse clips 200mm



Aggancio per
posizionamento



Fase 3. Montaggio a pressione del telaio LA648 o LA645



Parte in EPDM
espanso esterna

Parte adesiva
interna

Nel caso di utilizzo del profilo LA645 è
necessario applicare la guarnizione
adesiva DE160.
E' consigliato l'utilizzo del pulitore
LCPRIMER86 sulla superficie da
adesivizzare del profilo in alluminio

Sistema MINIMAL-F

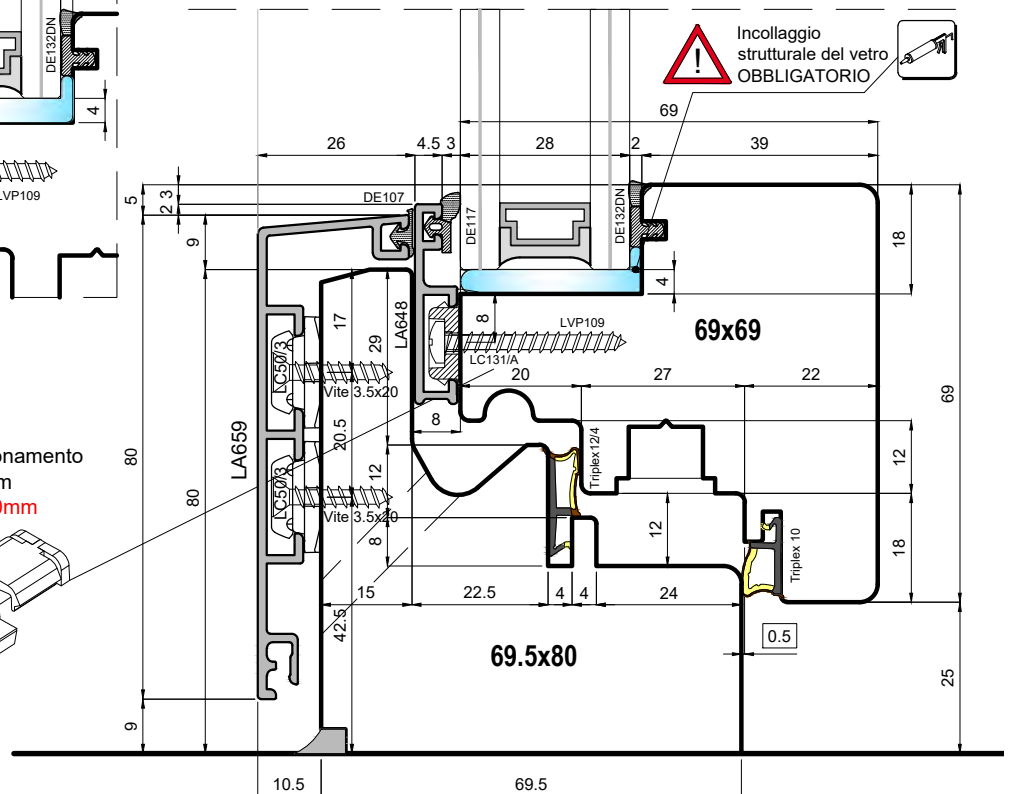
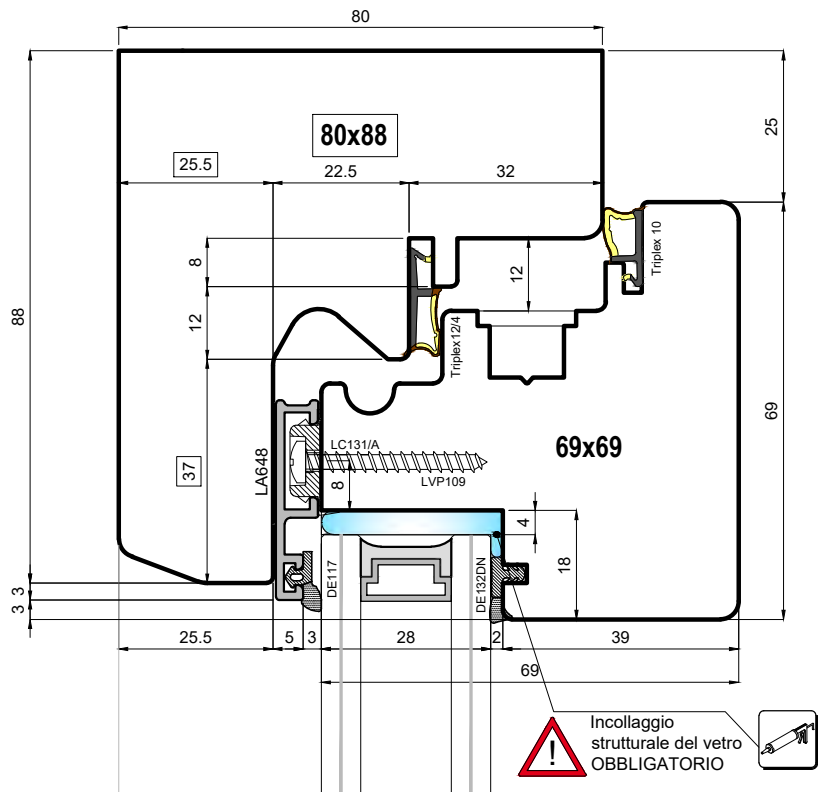
uniform

- ① Istruzioni per il montaggio
- ② Einbauanleitung
- ③ Instrucciones de instalacion
- ④ Instructions d'installation
- ⑤ Installation instructions

Tavole tecniche

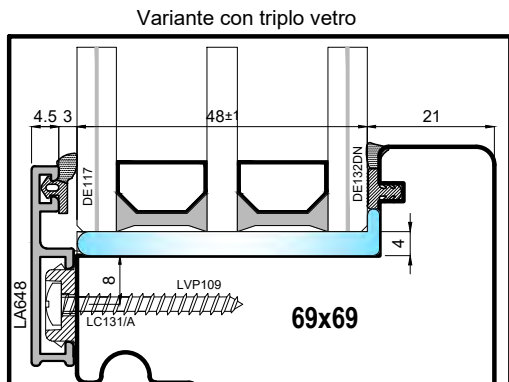
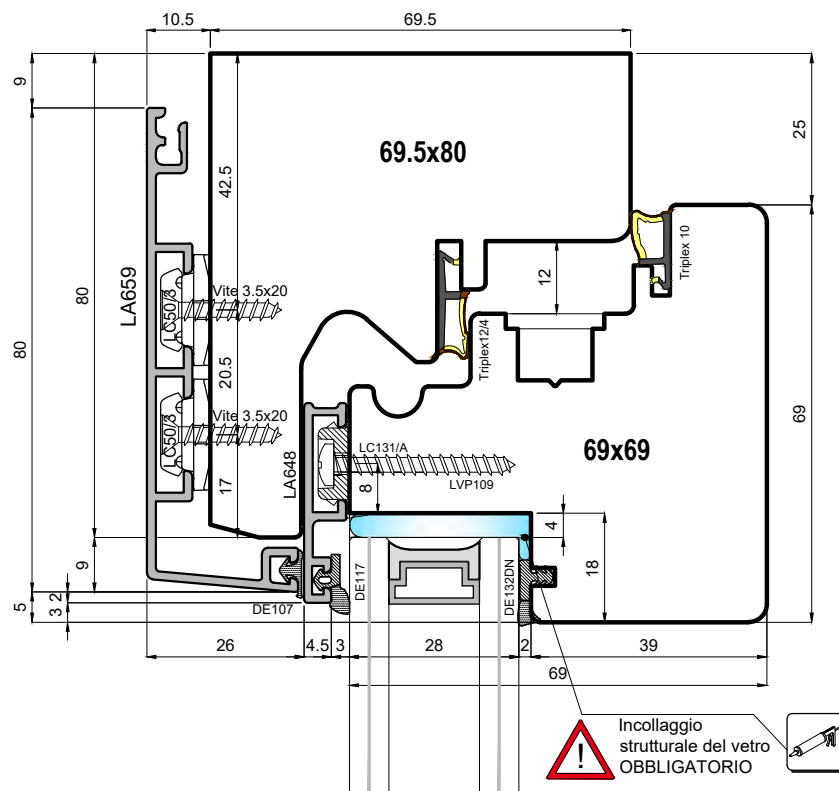
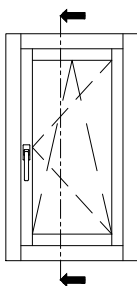
Technical Drawings

A diagram of a closed door. A vertical dashed line represents the sound wave front. Two thick black arrows point horizontally towards the door from the left, indicating the direction of sound propagation. Inside the room, several diagonal lines represent the reflected sound waves.

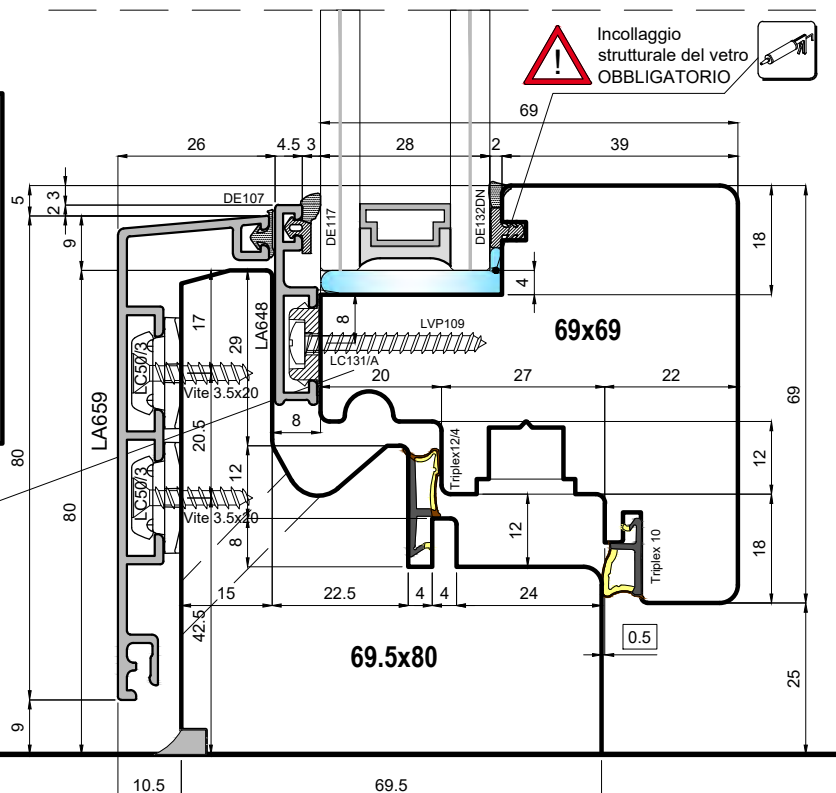
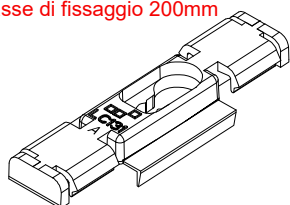


uniform

☐ I Sezione verticale finestra
☐ D Vertikalschnitt Fenster
☐ E Sección vertical de la ventana
☐ F Coupe verticale fenêtre
☒ UK Window vertical section



Clips a scatto con posizionamento automatico interasse 8mm
Interasse di fissaggio 200mm



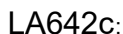
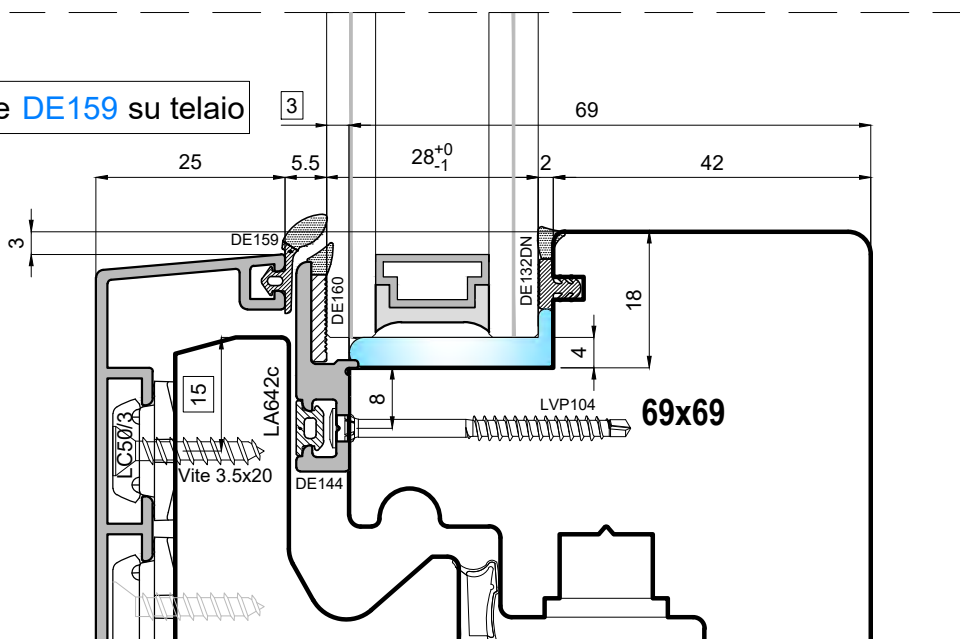
Sistema MINIMAL-F

uniform

Scala 0.8:1

- ① Sezione verticale finestra
- ② Vertikalschnitt Fenster
- ③ Sección vertical de la ventana
- ④ Coupe verticale fenêtre
- ⑤ Window vertical section

- Profilo NON Assemblabile meccanicamente
- Telaio saldato
- Fissaggio con vite passo 150mm
- Guarnizione DE160 adesiva



Profilo NON assemblabile.

La fornitura della guarnizione DE160 è a metri. La guarnizione NON viene pre-montata sul telaio LA642c

This profile can not be assembled using metal joints.

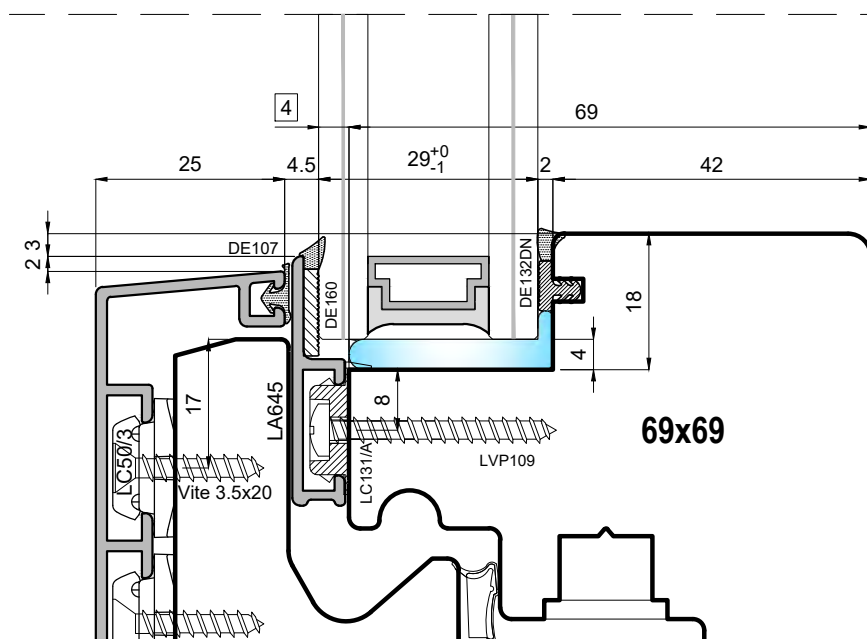
DE160 gasket is supplied in linear meters according to the overall requirement of the order: this gasket is NOT factory fitted to LA642c

uniform

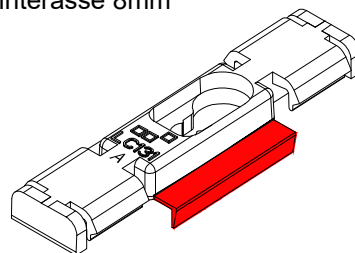
☐ I Sezione verticale finestra
☐ D Vertikalschnitt Fenster
☐ E Sección vertical de la ventana
☐ F Coupe verticale fenêtre
☒ UK Window vertical section

Profilo anta **LA645** con clips a scatto:

- Assemblabile meccanicamente con cianfrinatura laterale
- Telaio saldato
- Clips di fissaggio a scatto (**Interasse 200mm**)
- Guarnizione DE160 adesiva

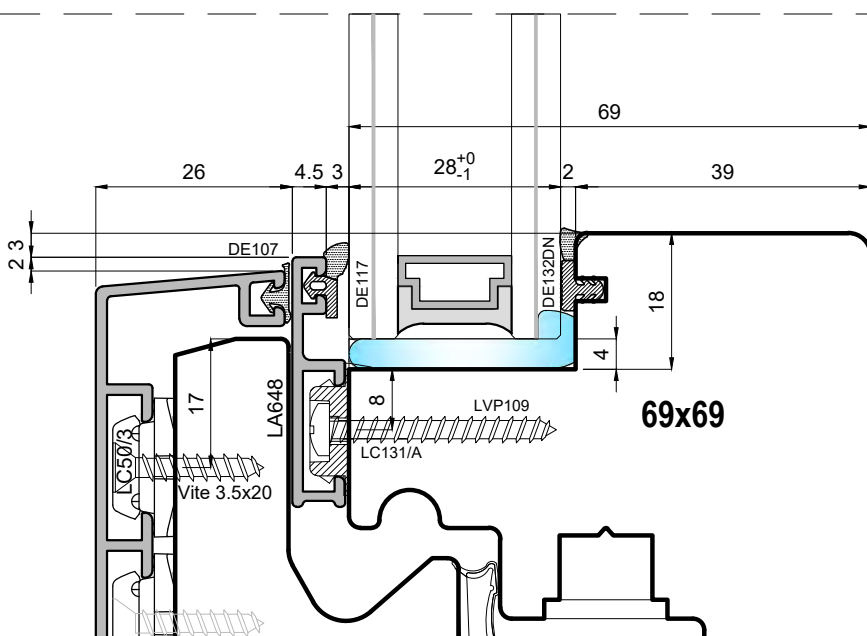


LC131/A:
Clips a scatto con
posizionamento automatico
interasse 8mm

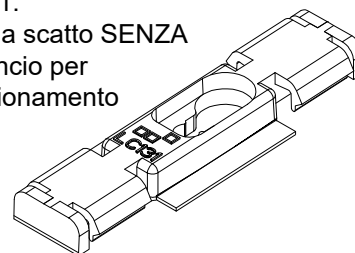


Profilo anta **LA648** con clips a scatto:

- Assemblabile meccanicamente con cianfrinatura laterale
- Telaio saldato
- Clips di fissaggio a scatto (**Interasse 200mm**)
- Guarnizione DE117 pre-assemblata sul telaio



LC131:
Clips a scatto **SENZA**
aggancio per
posizionamento

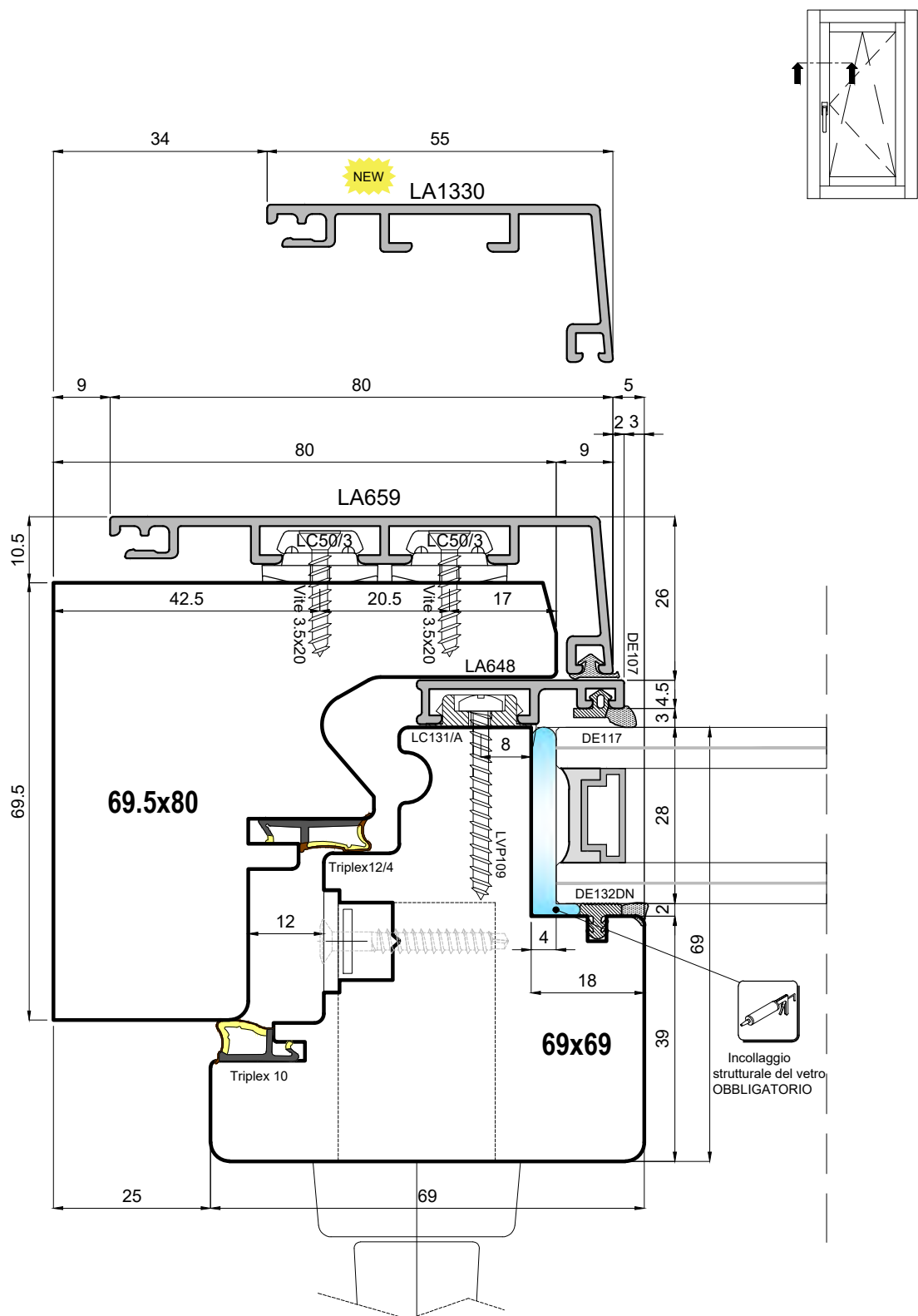


Sistema MINIMAL-F

uniform

Scala 1:1

- ① Sezione verticale finestra
- ② Vertikalschnitt Fenster
- ③ Sección vertical de la ventana
- ④ Coupe verticale fenêtre
- ⑤ Window vertical section

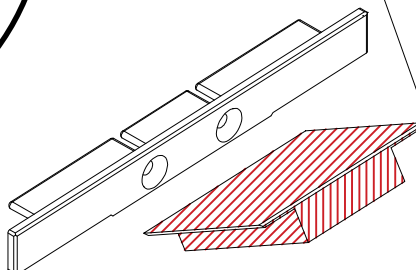
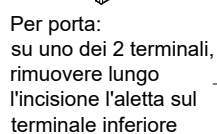
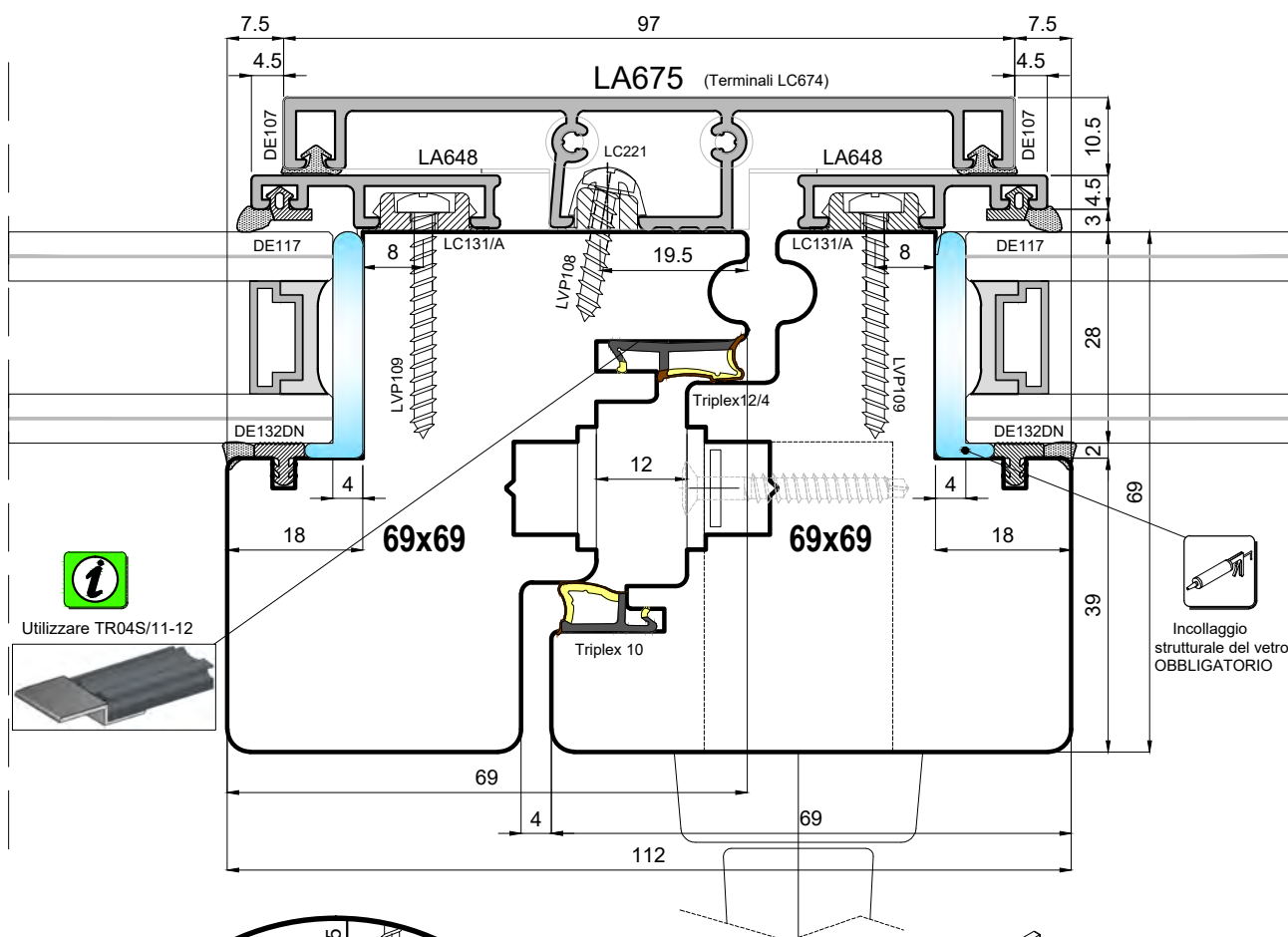


Sistema MINIMAL-F

uniform

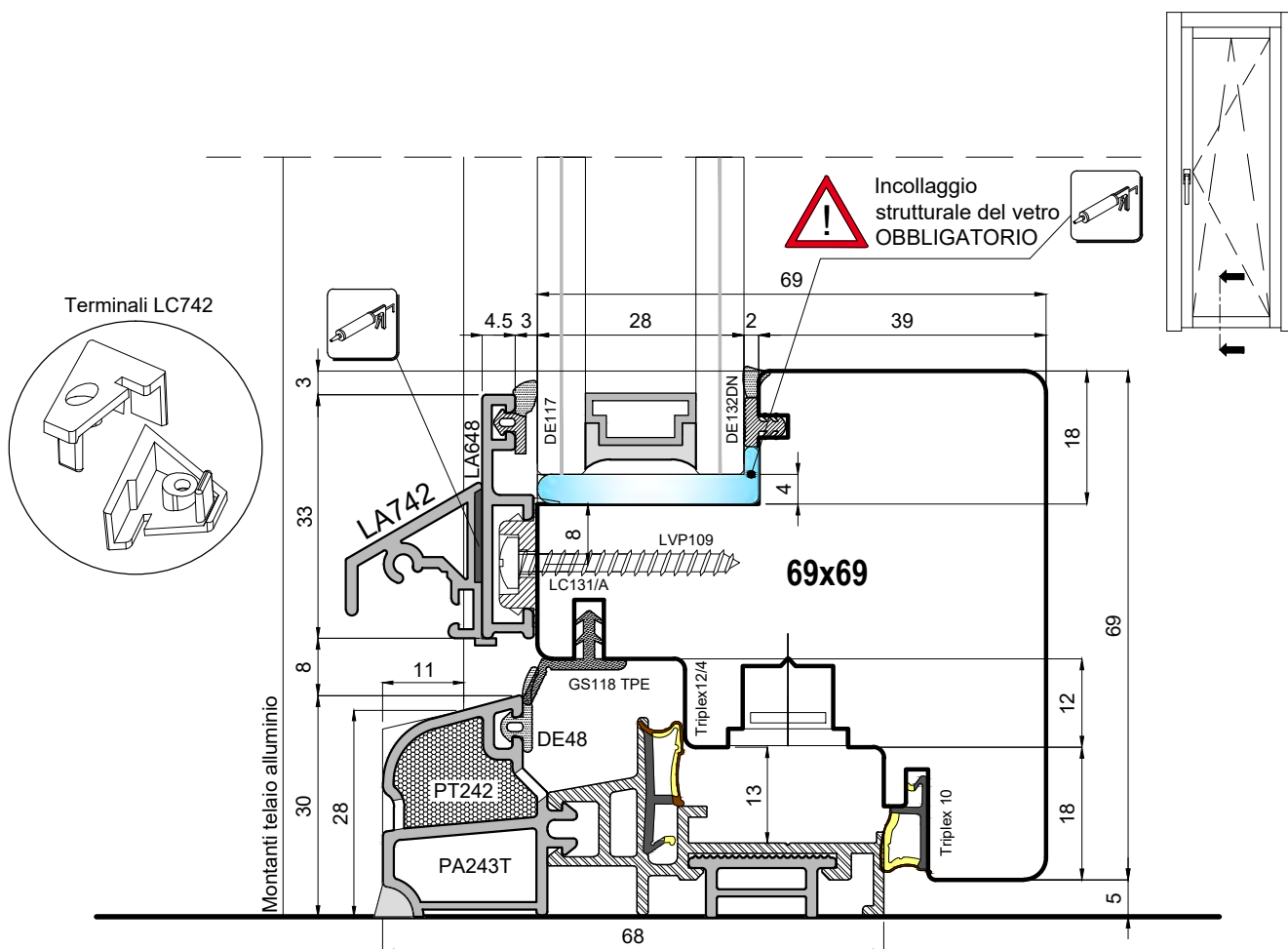
Scala 1:1

- ① Sezione orizzontale montante laterale
- ② Horizontalschnitt senkrecht seitlich
- ③ Sección horizontal de montante lateral
- ④ Coupe horizontal montant latéral
- ⑤ Horizontal section of the lateral jamb



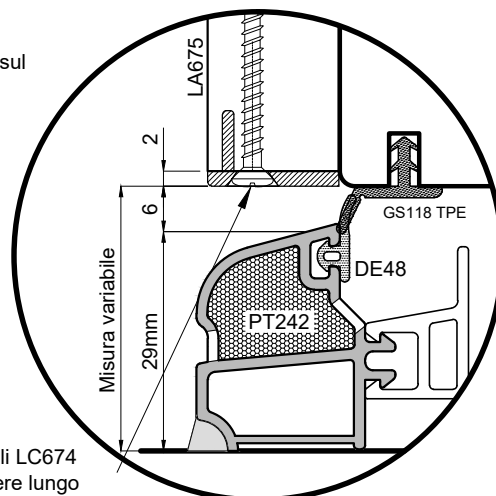
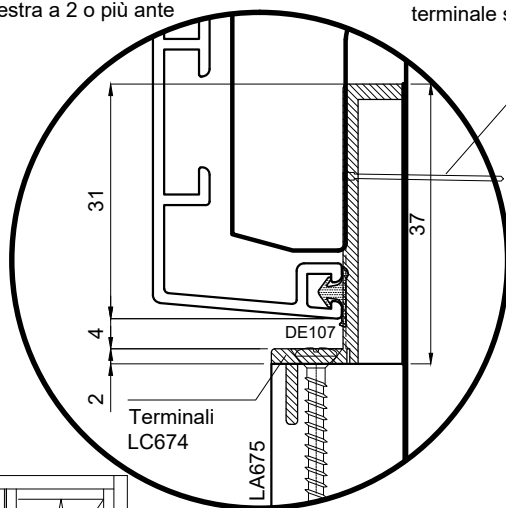
uniform

☒ **I** Sezione orizzontale chiusura centrale con profilo LA674
☐ **D** Horizontalschnitt Stulpprofil LA674
☐ **E** Sección horizontal del cierre central con perfil LA674
☐ **F** Coupe horizontale battement central avec profil LA674
☐ **UK** Horizontal section of the middle clamp with profile LA674

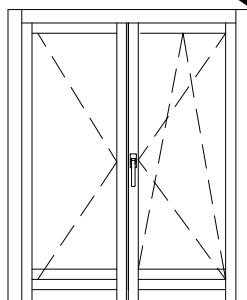


Specifica di taglio profilo chiusura centrale LA674 nel caso di portafinestra a 2 o più ante

IMPORTANTE:
bloccare la fascetta sul terminale superiore



Terminali LC674
(rimuovere lungo l'incisione l'aletta sul terminale inferiore)



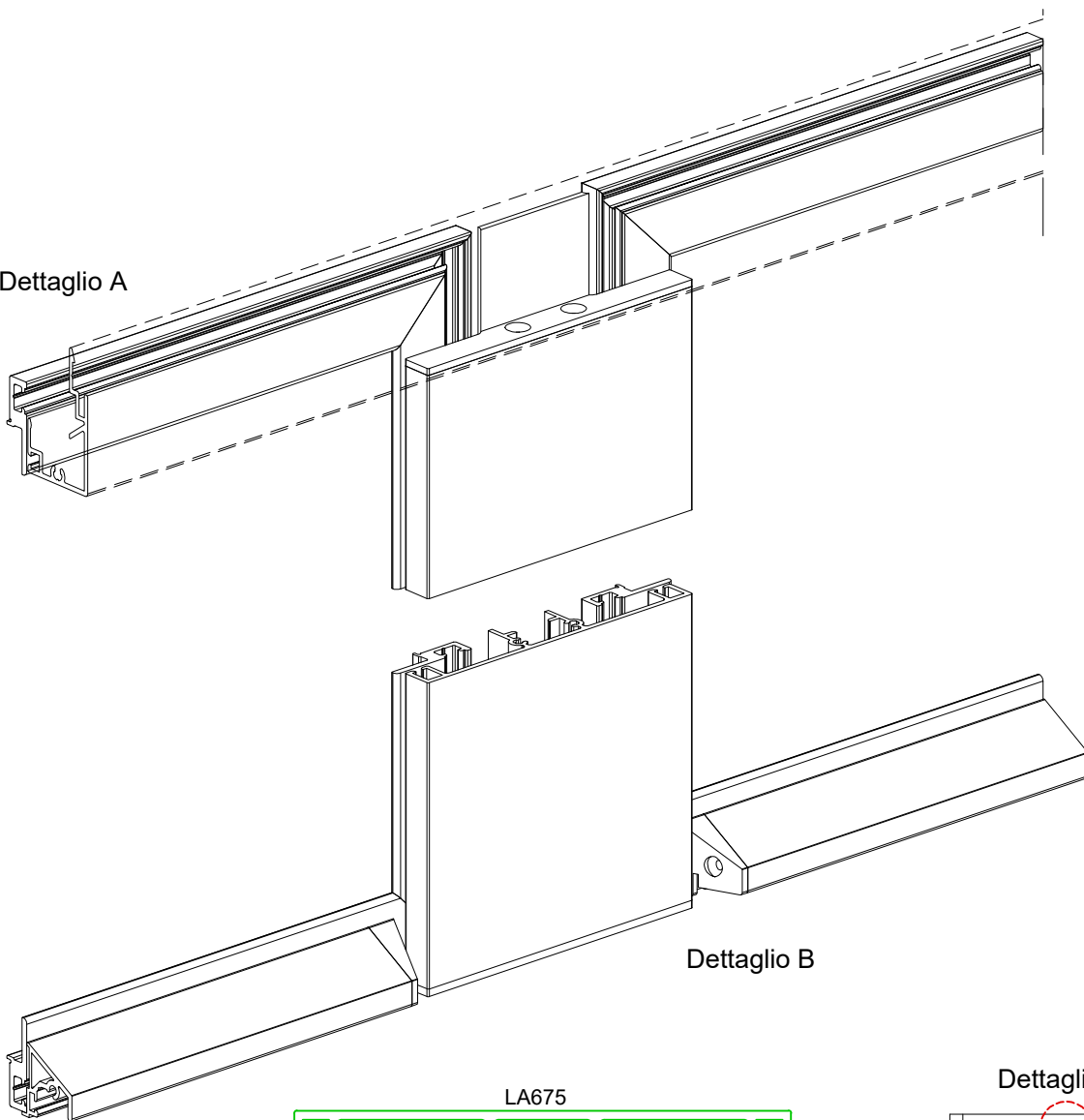
Sistema MINIMAL-F

uniform

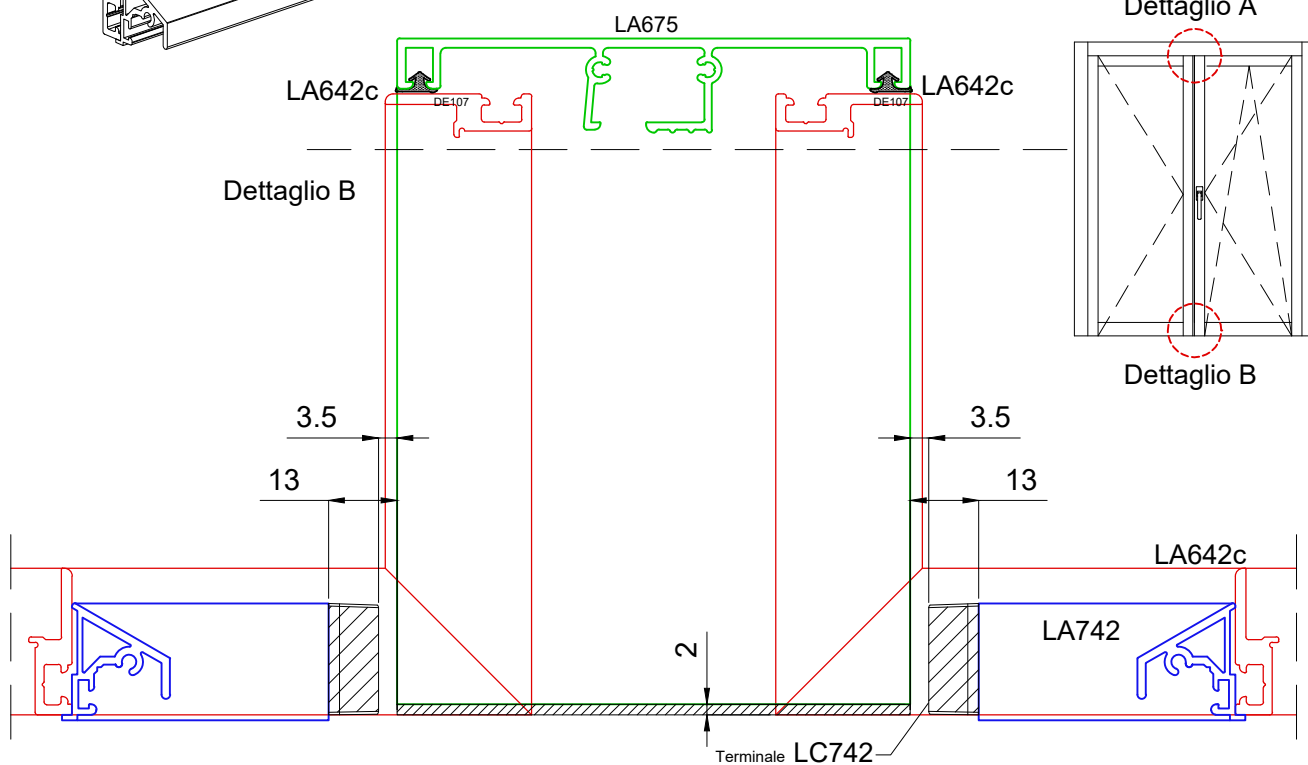
Scala 1:1

- ① Sezione verticale traverso inferiore portabalcone
- ② Vertikalschnitt Balkontür quer unten
- ③ Sección vertical travesaño inferior puertaventana
- ④ Section verticale traverse inférieure porte-balcon
- ⑤ Vertical section of the balcony door's lower ledger

Dettaglio A



Dettaglio B

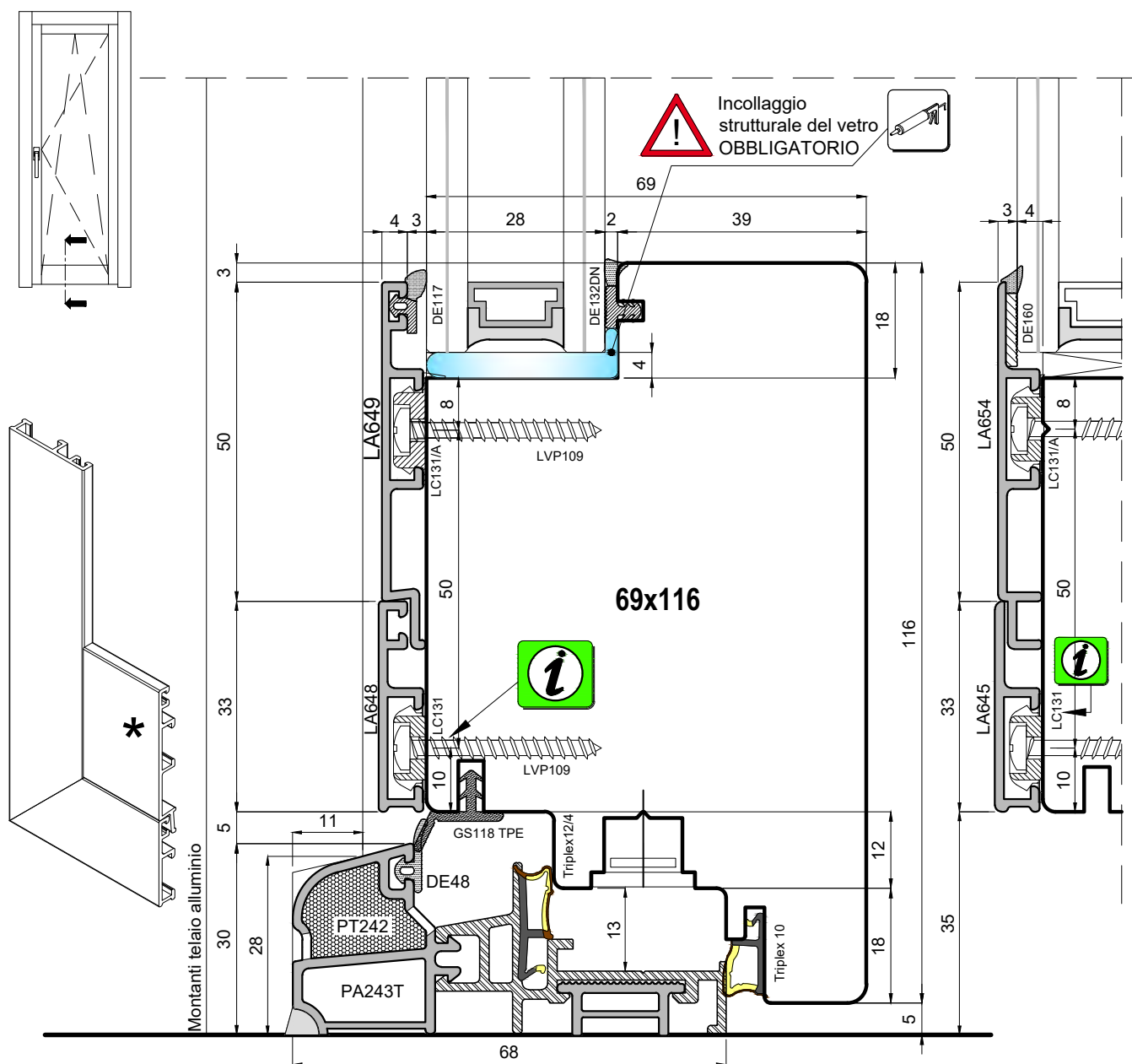


Sistema MINIMAL-F

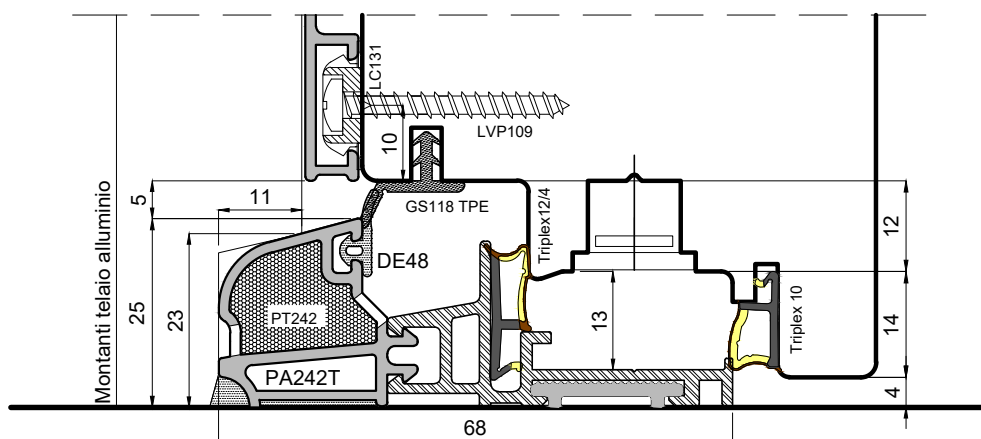
uniform

Scala -

- ① Sezione trasverso inferiore portabalcone
- ② Schnitt Balkontür quer unten
- ③ Sección travesaño inferior puertaventana
- ④ Section traverse inférieure porte-balcon
- ⑤ Section of the balcony door's lower ledger



* Profilo LA649 o LA654 fornito puntato oppure tagliato a misura (NON assemblabile)

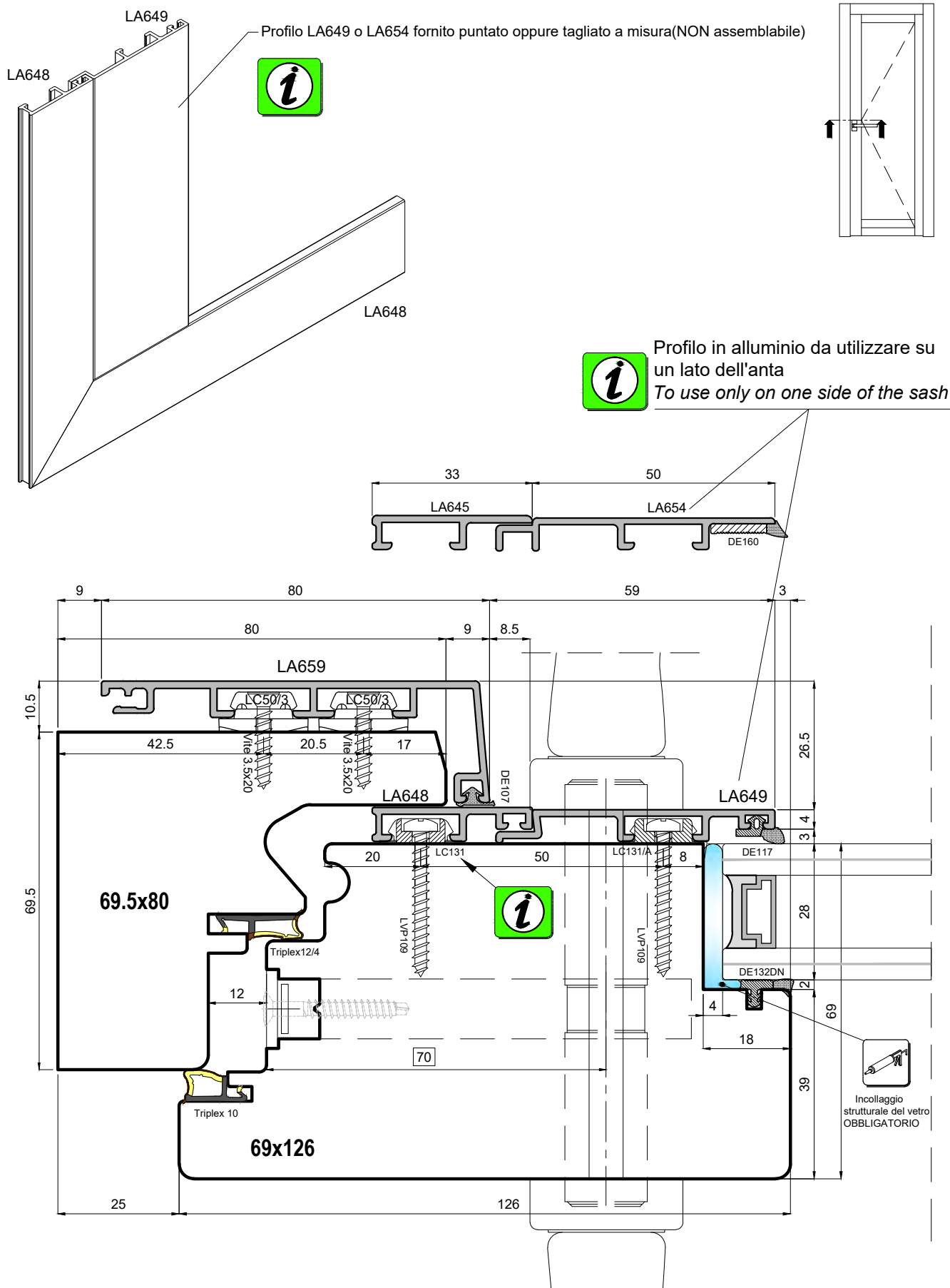


Sistema MINIMAL-F

uniform

Scala 1:1

- ① Sezione verticale traverso inferiore portabalcone
- ② Vertikalschnitt Balkontür quer unten
- ③ Sección vertical travesaño inferior puertaventana
- ④ Section verticale traverse inférieure porte-balcon
- ⑤ Vertical section of the balcony door's lower ledger

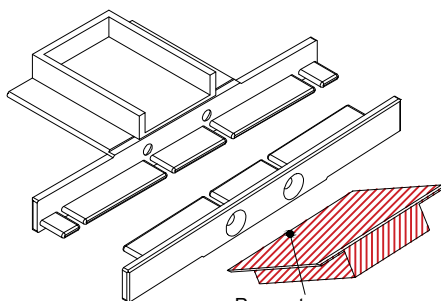


Sistema MINIMAL-F

uniform

Scala 0.9:1

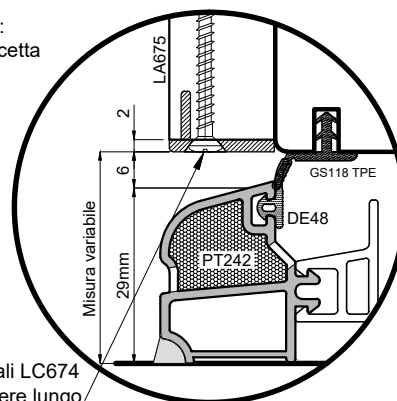
- ① Sezione orizzontale montante laterale portabalcone con maniglia passante
- Ⓓ Horizontalschnitt seitlich für von aussen sperrbare Balkonttür mit Schloss
- Ⓔ Sección horizontal de montante lateral de puerta ventana con manija pasante
- Ⓕ Coupe horizontal montants latéraux porte-balcon avec poignée à l'extérieur
- Ⓖ Horizontal section of the lateral jambs of balcony door with passing-by handle



Profilo in alluminio da utilizzare
su un lato dell'anta
*To use only on one side of the
sash*



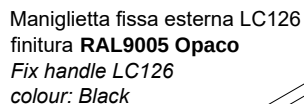
IMPORTANTE:
bloccare la fascetta
sul terminale
superiore



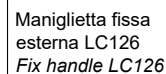
Terminali LC674
(rimuovere lungo
l'incisione l'aletta sul
terminale inferiore)

uniform

☒ I Sezione orizzontale chiusura centrale con maniglia passante
☐ D Horizontalschnitt Stulpprofil
☐ E Sección horizontal del cierre central
☐ F Coupe horizontale battement central
☐ UK Horizontal section of the middle clamp

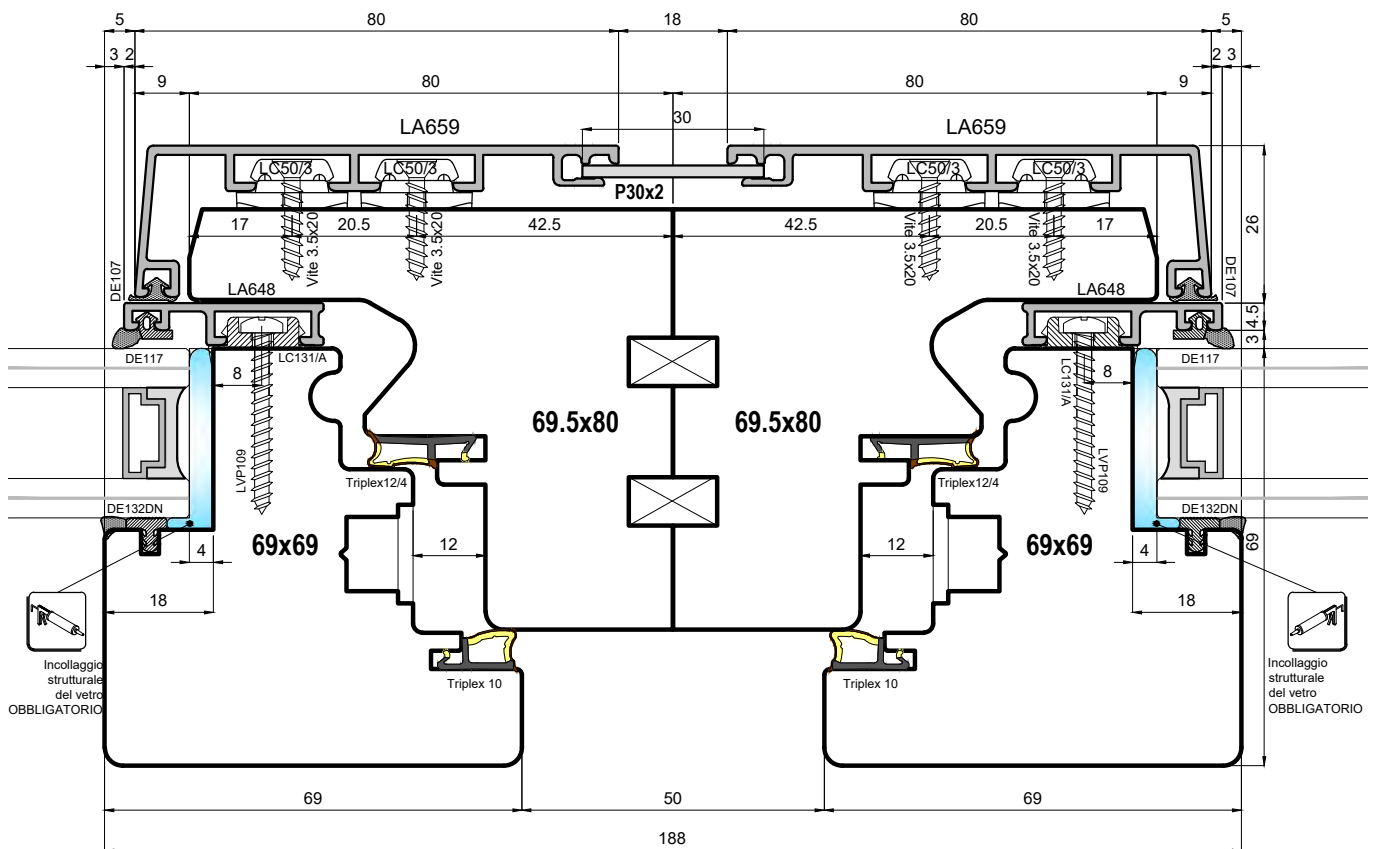
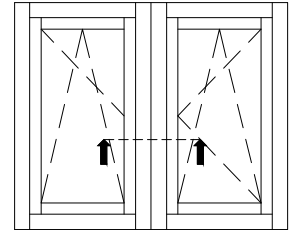


80 mm



uniform

I Sezione orizzontale montante laterale portabalcone con maniglia fissa esterna
D Horizontalschnitt seitlich für von aussen sperrbare Balkonttür mit Schloss
E Sección horizontal de montante lateral de puerta ventana con manija
F Coupe horizontale montants latéraux porte-balcon avec poignée
UK Horizontal section of the lateral jambs of balcony door with fix handle

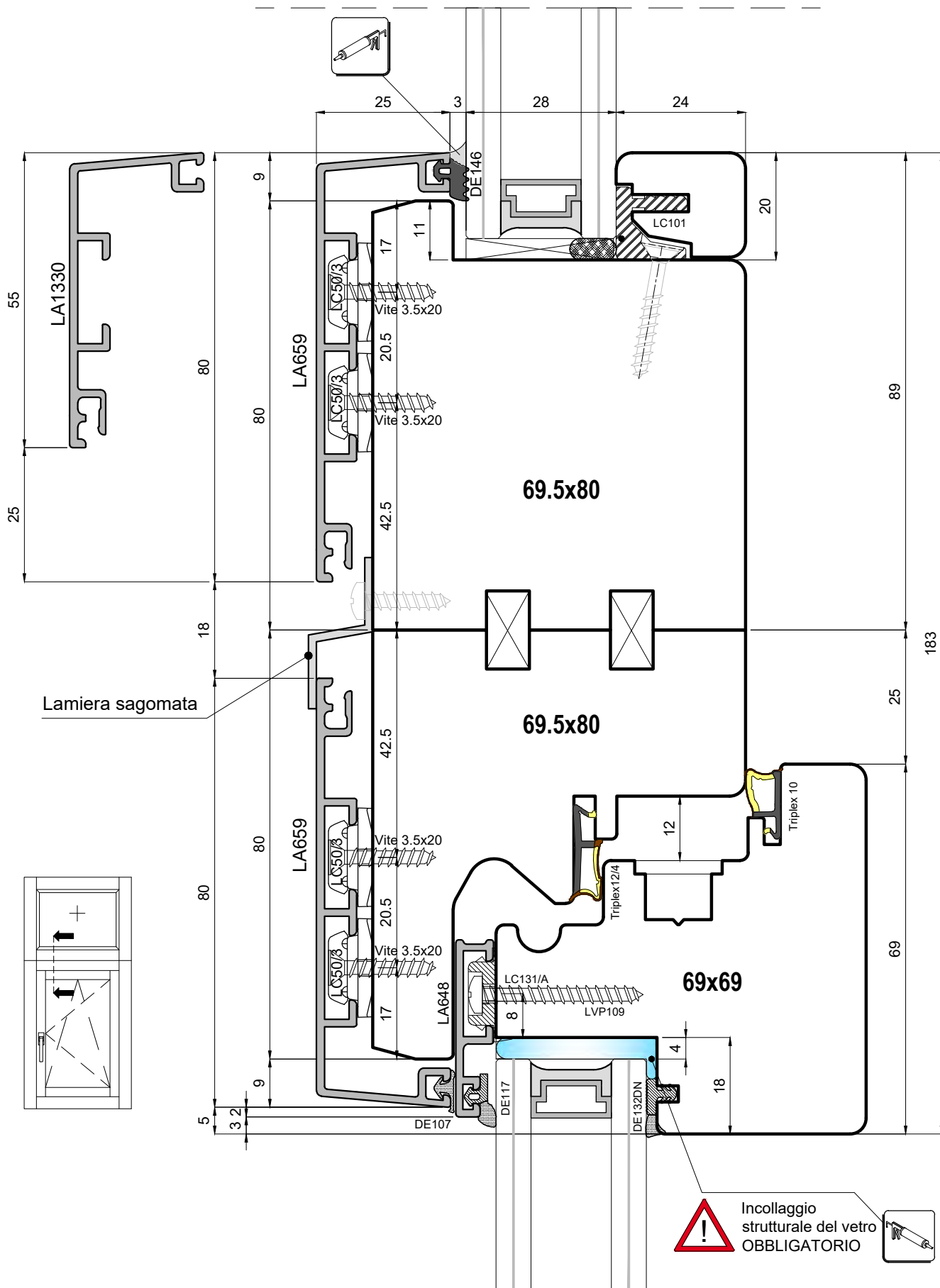


Sistema MINIMAL-F

uniform

Scala 0.8:1

- ① Sezione orizzontale montanti intermedi telaio
- ② Horizontalschnitt Setzholz Rahmen
- ③ Sección horizontal montantes intermedios del marco
- ④ Coupe horizontal montants intermédiaires dormant
- ⑤ Horizontal section of the frame's mullions

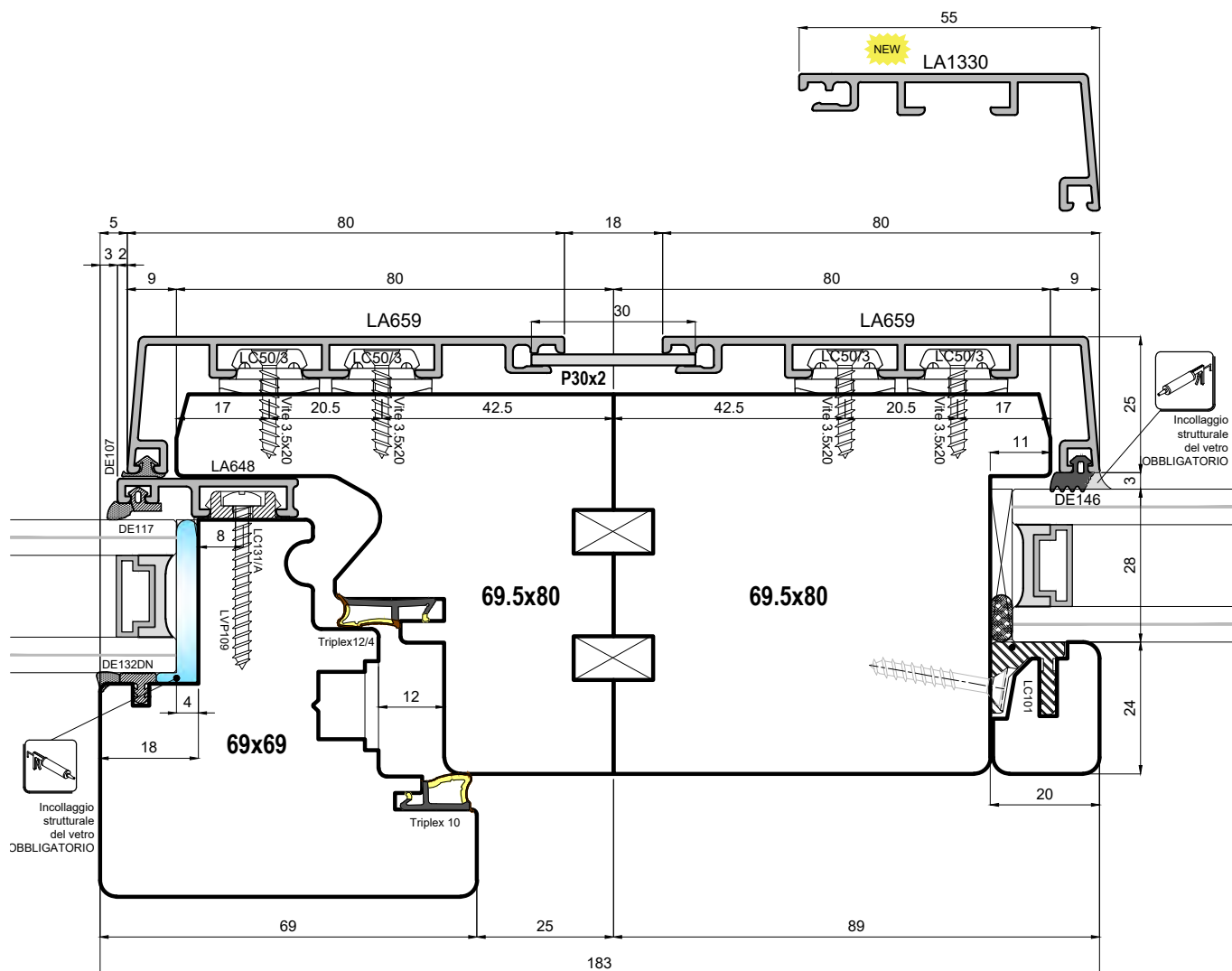
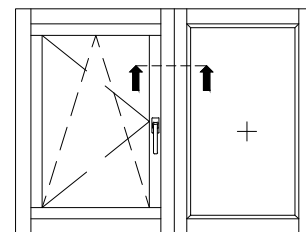


Sistema MINIMAL-F

uniform

Scala 1:1

- ① Sezione verticale traverso intermedio telaio
- ② Vertikalschnitt Kämpfer
- ③ Sección vertical travesaño intermedio del marco
- ④ Coupe verticale des traverse intermédiaire du dormant
- ⑤ Vertical section of the frame's intermediate transom



Sistema MINIMAL-F

uniform

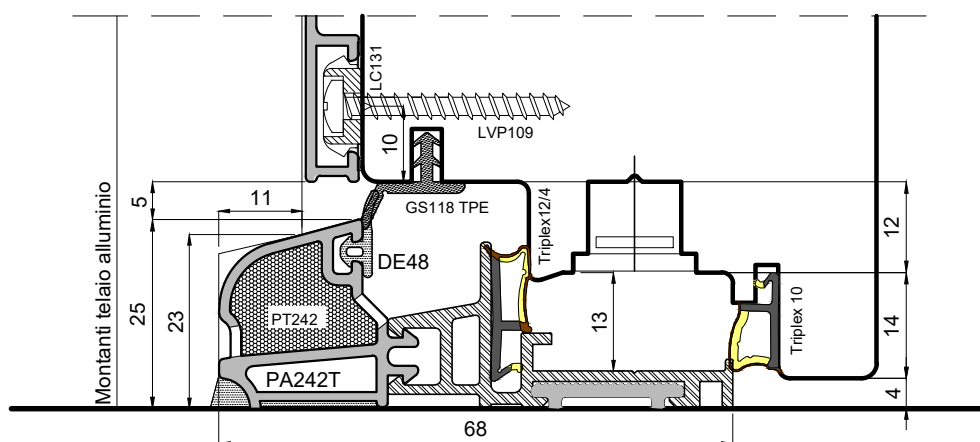
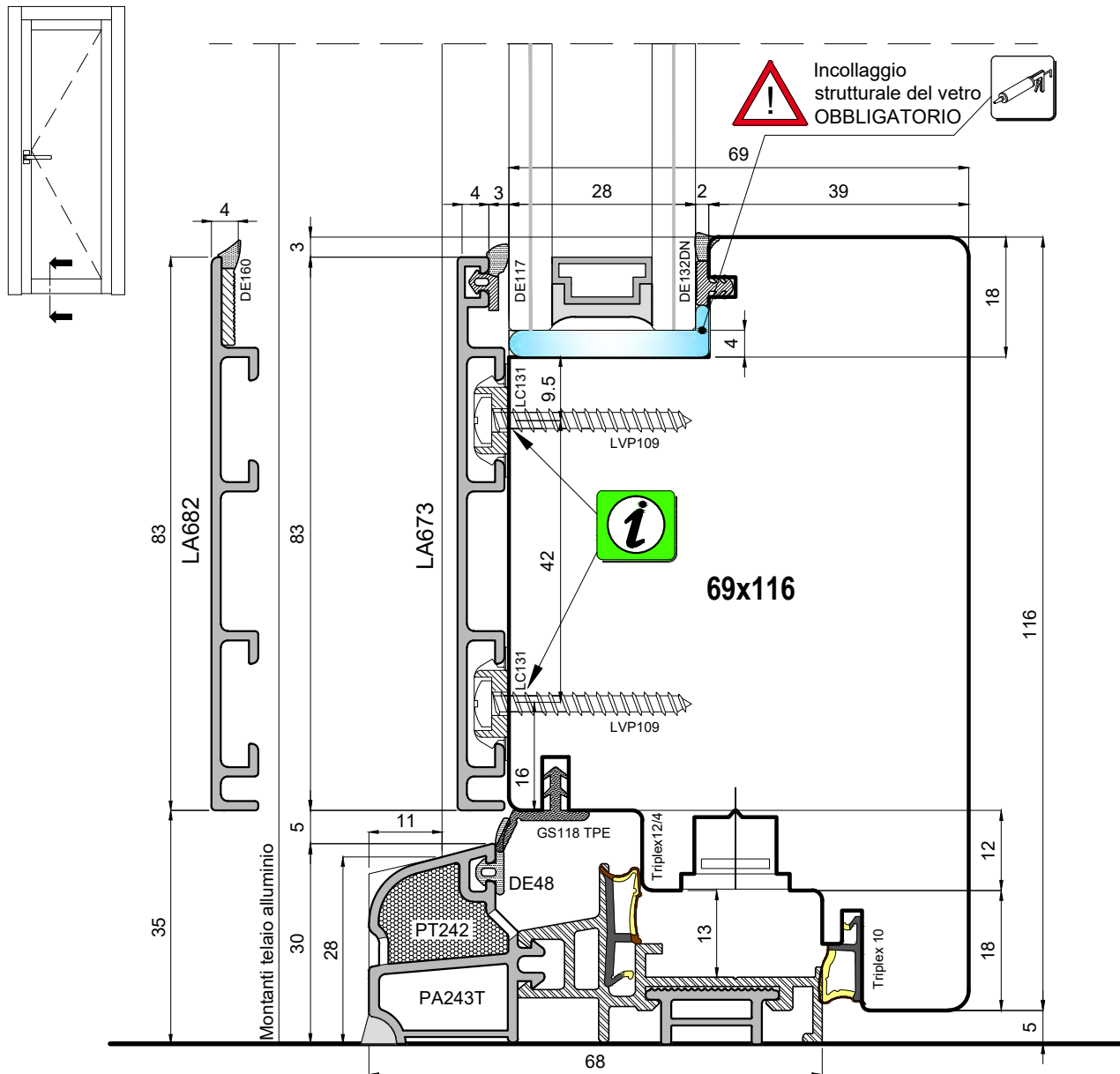
Scala 0.8:1

- ① Sezione orizzontale montanti intermedi telaio
- ② Horizontalschnitt Setzholz Rahmen
- ③ Sección horizontal montantes intermedios del marco
- ④ Coupe horizontal montants intermédiaires dormant
- ⑤ Horizontal section of the frame's mullions



uniform

- I** Portoncino d'ingresso
- D** Haustür
- E** Portillo de entrada
- F** Porte d'entrée
- UK** Entrance door



Sistema MINIMAL-F

uniform

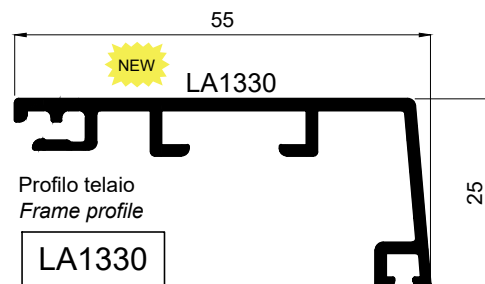
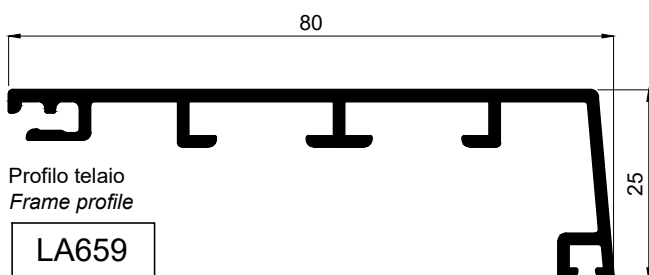
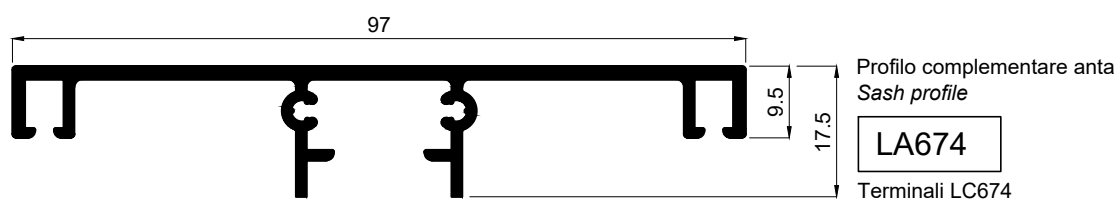
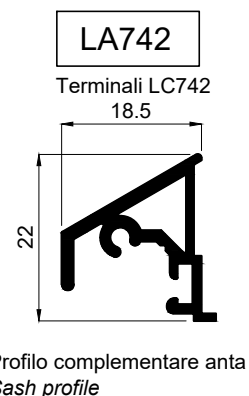
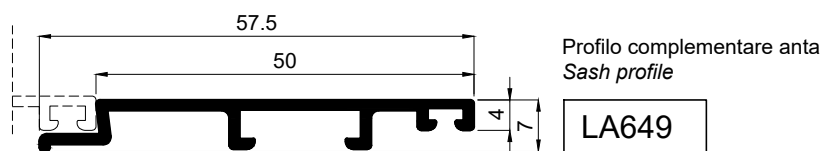
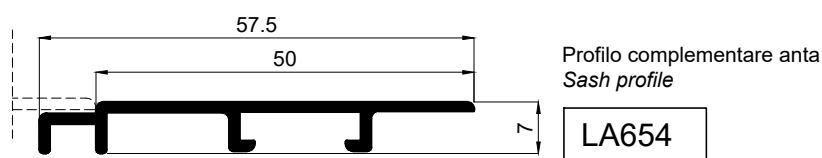
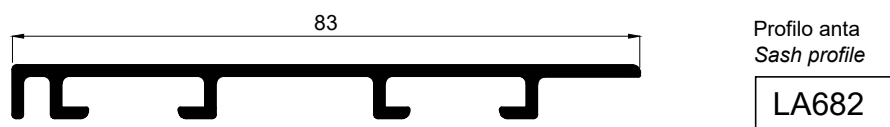
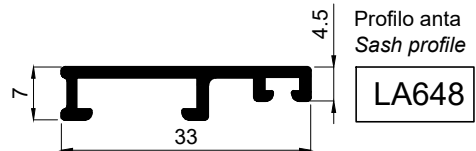
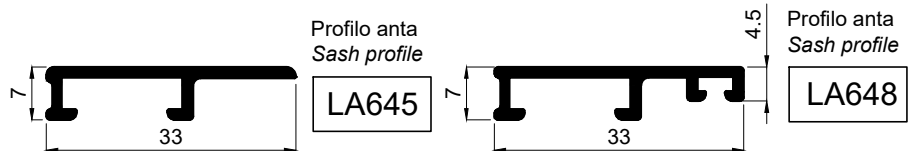
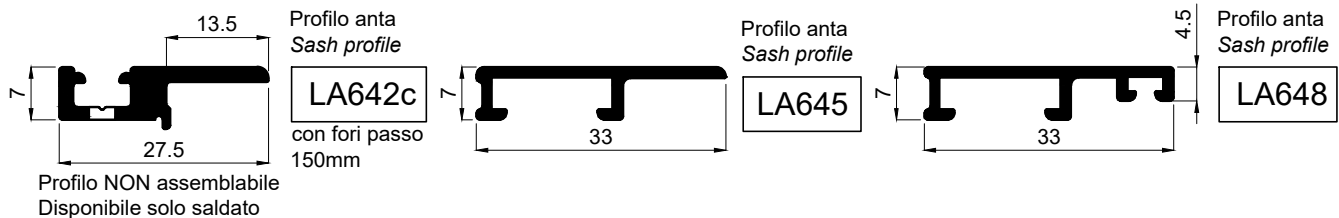
Scala 1:1

- ① Portoncino d'ingresso
- ② Haustür
- ③ Portillo de entrada
- ④ Porte d'entrée
- ⑤ Entrance door

Indice riepilogo

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Attrezzature ed utensili	Pag. 37-38
<i>Spare parts and tools</i>	



Profili Sistema MINIMAL-F

uniform

Scala 1:1

30

- ① Profili in alluminio sistema MINIMAL
- ② Aluprofil für System MINIMAL
- ③ Perfiles en aluminio serie MINIMAL
- ④ Profils du aluminium de la gamme MINIMAL
- ⑤ Aluminium profiles MINIMAL system

Aluminium profiles



Alumium frame profile Minimal-F system

Profilo / Profile

Cianfrinatrice / Crimping machine

Slitta / Sledge

Supporti banco/

Supporto slitta / Support of the sledge

Portapunzoni / Punches platform

unzoni / Punches

Spessore superiore / Upper spacer

Sanadretto 1 / Joint 1

Tipo / Type

10

Squadretta 4 / Joint 4

(in sostituzione s.d. Tipo "C") /

(in sostituzione sq. Tipo "C") /

LA
LA

L	
L	

	IN
	IN

E	
E	

03	
03	

11

P12

00

S20



Squadretta per
allineamento da incollare
Alignment joint

©

Squadretta da cianfrinare
*Processed with pneumatic
crimping press*

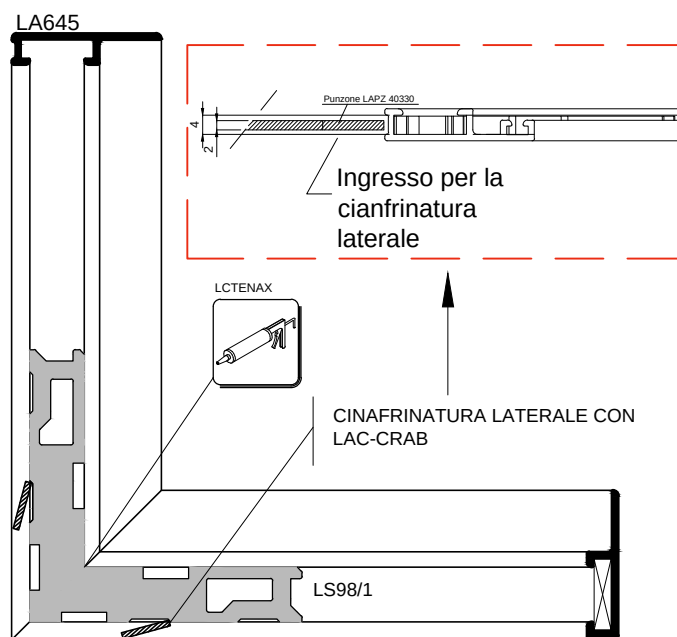
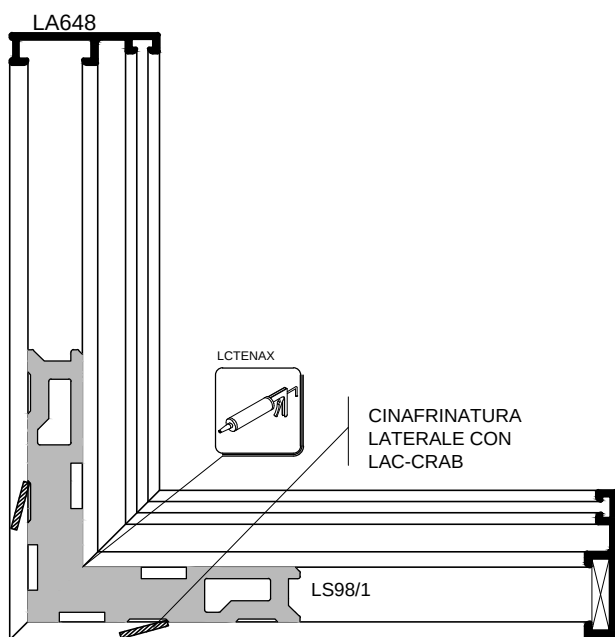
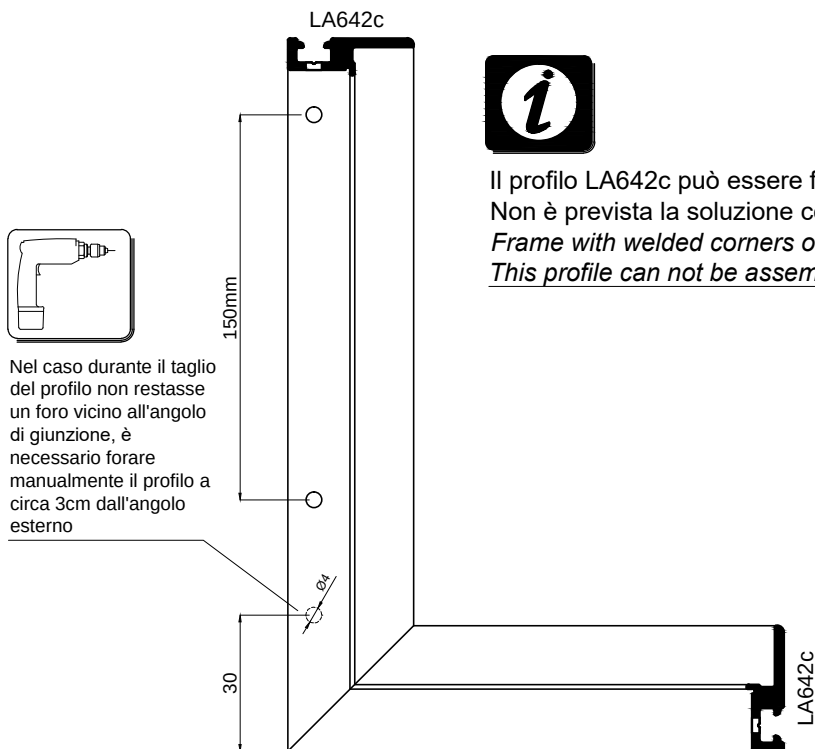
V



Squadretta per
assemblaggio a vite
Screwing joint

uniform

- ☒ I Profili serie MINIMAL
- ☐ D Profil für System MINIMAL
- ☐ E Perfiles serie MINIMAL
- ☐ F Profils de la gamme MINIMAL
- ☐ UK MINIMAL profiles



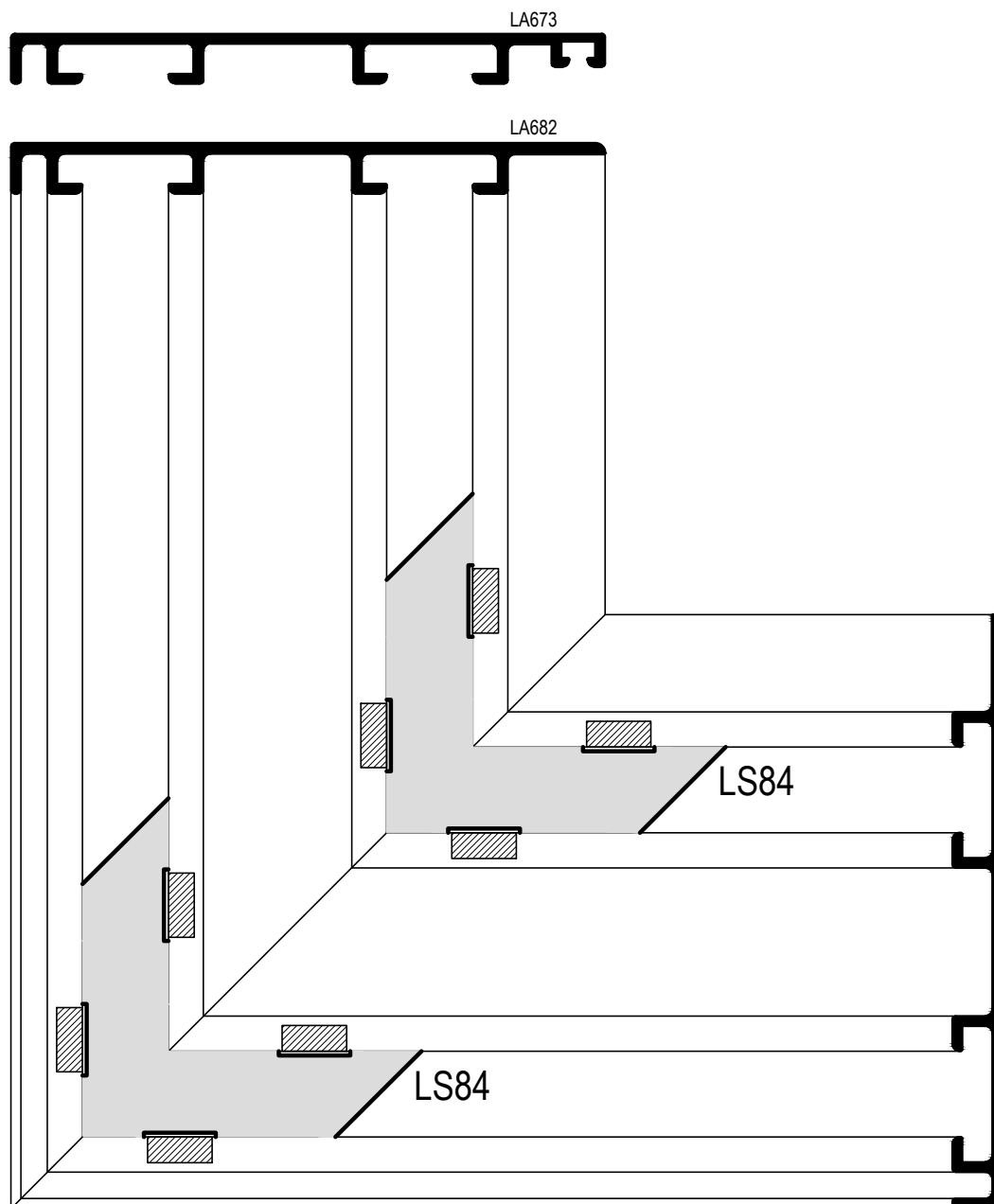
Profilo / Profile	Cianfrinatrice / Crimping machine	Slitta / Sledge	Supporto slitta / Support of the sledge	Portapunzoni / Punches platform	Punzoni / Punches	Spessore superiore / Upper spacer	Squadretta 1 / Joint 1	Tipo / Type	Squadretta 2 / Joint 2	Tipo / Type	Squadretta 3 / Joint 3	Tipo / Type	Squadretta 4 / Joint 4	Tipo / Type	Squadretta a vite per 45° (in sostituzione sq. Tipo "C") / Screwable joint for 45° corners (replacing type "C" joints)	Squadretta a vite per fuorisquadra (in sostituzione sq. Tipo "C") / Screwable joint for oblique corners (replacing type "C" joints)
LA645	LAC-CRAB	-	-	-	LAPZ 40330	-	LS98/1	C	-	-	-	-	-	-	-	-
LA648	LAC-CRAB	-	-	-	LAPZ 40330	-	LS98/1	C	-	-	-	-	-	-	-	-

Assemblaggi Sistema MINIMAL-F

uniform

Scala 0.6:1

- ① Profili serie MINIMAL
- ② Profil für System MINIMAL
- ③ Perfiles serie MINIMAL
- ④ Profils de la gamme MINIMAL
- ⑤ MINIMAL profiles

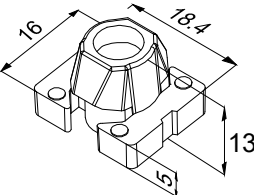
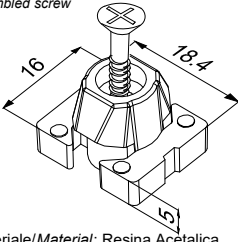
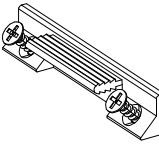
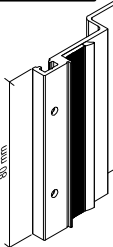
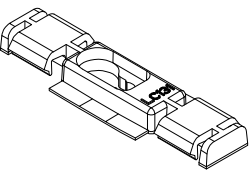
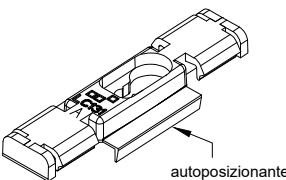
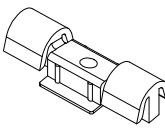
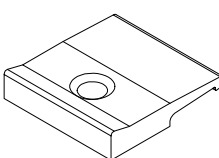
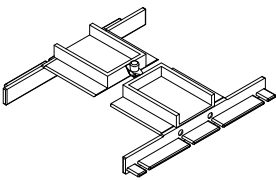
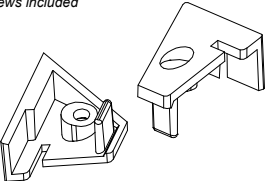
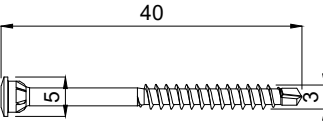
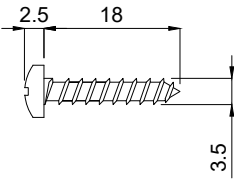
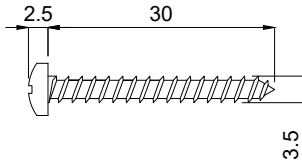


Profilo / Profile	Cianfrinatrice / Crimping machine	Slitte / Sledge	Supporti banco/ Supports	Supporto slitte / Support of the sledge	Portapunzoni / Punches platform	Punzoni / Punches	Spessore superiore / Upper spacer	Squadretta 1 / Joint 1	Tipo / Type	Squadretta 2 / Joint 2	Tipo / Type	Squadretta 3 / Joint 3	Tipo / Type	Squadretta 4 / Joint 4	Tipo / Type	Squadretta a vite per 45° (in sostituzione sq. Tipo "C") / Screwable joint for 45° corners (replacing type "C" joints)	Squadretta a vite per fuorisquadra (in sostituzione sq. Tipo "C") / Screwable joint for oblique corners (replacing type "C" joints)
LA673	LACV-98	LAC SL15	IN DOTAZIONE	-	MVX42603	LAPZ 5000	LAC-SP4,5	LS84	C	LS84	C	-	-	-	-	NO	NO
LA682	LACV-98	LAC SL15	IN DOTAZIONE	-	MVX42603	LAPZ 5000	LAC-SP4,5	LS84	C	LS84	C	-	-	-	-	NO	NO

Sistema MINIMAL-F

uniform

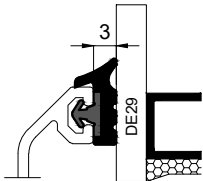
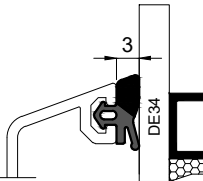
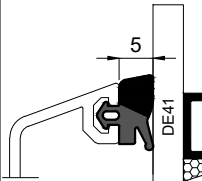
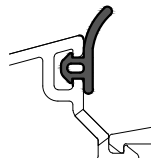
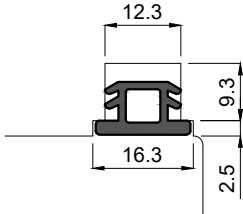
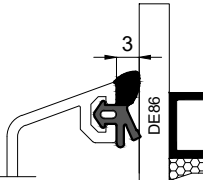
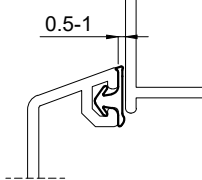
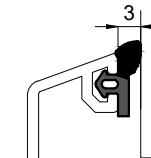
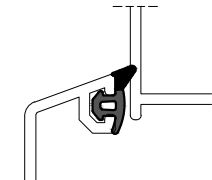
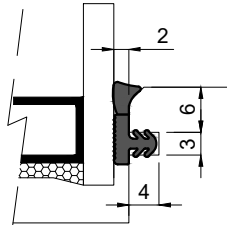
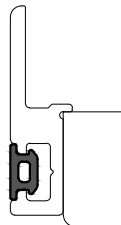
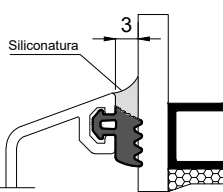
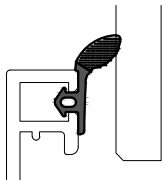
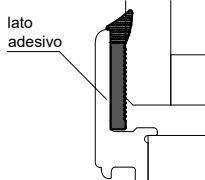
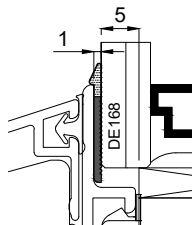
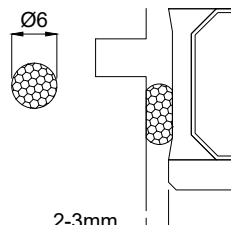
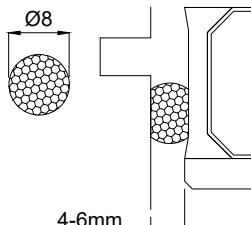
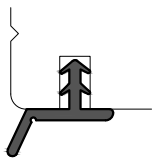
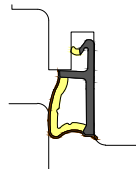
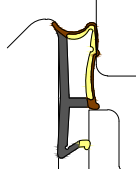
- ① Assemblaggi
- ② Montage
- ③ Ensembles
- ④ Assemblages
- ⑤ Assembly

LC62 Confezione/Package: 300 pz. 5000 pz.  Materiale/Material: Resina Acetalica Colore/Colour: Nero/Black Clip a scatto/Snap clip	LC62-V Confezione/Package: 300 pz. 1000 pz. vite pre-montata assembled screw  Materiale/Material: Resina Acetalica Colore/Colour: Nero/Black Clip a scatto/Snap clip	LC101 Confezione/Package: 100 pz. viti incluse screws included  Materiale/Material: Nylon Colore/Colour: Nero/Black Clip porta fermavetro/Glass bead clip	LC126 Confezione/Package: 1 pz. viti incluse screws included  Materiale/Material: Alluminio/Aluminium Colore/Colour: Nero Maniglia fissa esterna/External fixed handle
LC131 Confezione/Package: 100 pz.  Materiale/Material: Resina acetalica Colore/Colour: Nero/Black Clip a scatto/Snap clip	LC131-A Confezione/Package: 100 pz.  Materiale/Material: Resina acetalica Colore/Colour: Nero/Black Clip a scatto/Snap clip	LC221 Confezione/Package: 200 pz.  Materiale/Material: Nylon Colore/Colour: Nero/Black Clip a scatto per LA675/ Snap clip	LC251 Confezione/Package: 300 pz.  Materiale/Material: Resina acetalica Colore/Colour: Bianco/White Clip a scatto/Clip holder
LC674 Coppia Pair Confezione/Package: 20 coppie viti incluse screws included  Materiale/Material: ABS Colore/Colour: Nero/Black-Bianco/White Terminali per LA674/End caps	LC742 Coppia Pair Confezione/Package: 20 coppie viti incluse screws included  Materiale/Material: ABS Colore/Colour: Nero-Bianco/Black-White Terminali per LA742/End caps		
LVP104 Confezione/Package: 500 pz.  Materiale/Material: Acciaio zincato/Steel Colore/Colour: Inox Vite 3x40mm testa autof. svasata piana/ 3x40mm Screw	LVP108 Confezione/Package: 1000 pz.  Materiale/Material: Acciaio zincato/Steel Colore/Colour: Inox Vite per LC131/A-3.5x18mm testa piana/ 3.5x18mm LC131/A Screw	LVP109 Confezione/Package: 1000 pz.  Materiale/Material: Acciaio zincato/Steel Colore/Colour: Inox Vite per LC131/A-3.5x30mm testa piana/ 3.5x30mm LC131/A Screw	

Accessori e clips

uniform

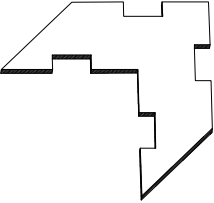
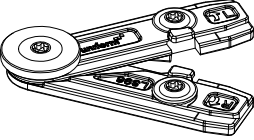
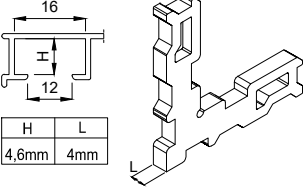
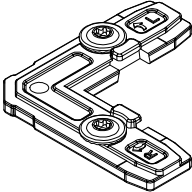
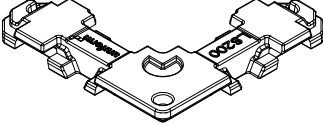
- ① Clips di fissaggio e accessori
- ② Befestigungsklips und Zubehör
- ③ Clips de fijación y accesorios
- ④ Clips de fixation et accessoires
- ⑤ Fixing clips and spare-parts

DE29  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE34  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE41  Confezione/Package: 200 mt.	DE48  Confezione/Package: 400 mt.
DE53  Confezione/Package: 120 mt. Materiale/Material: TPE Colore/Colour: Nero-Marrone/Black-Brown	DE86  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE107  Confezione/Package: 300 mt. Materiale/Material: EPDM Colore/Colour: Nero/Black	DE117  Confezione/Package: 250 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black
DE125  Confezione/Package: 300 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE132N  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE144  Confezione/Package: 400 mt. Materiale/Material: EPDM Colore/Colour: Nero/Black	DE146  Confezione/Package: 250 mt. Materiale/Material: EPDM Colore/Colour: Nero/Black
DE159  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE160  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	DE168  Confezione/Package: 200 mt. Materiale/Material: EPDM coestruso Colore/Colour: Nero/Black	FG06  Confezione/Package: 200 mt. Materiale/Material: Polietileno espanso Colore/Colour: Grigio/Gray
FG08  Confezione/Package: 900 mt. Materiale/Material: Polietileno espanso Colore/Colour: Grigio/Gray	GS118TPE  Confezione/Package: 150 mt. Materiale/Material: TPE Colore/Colour: Marrone/Brown Bianco/White	Triplex10  Confezione/Package: 200 mt. Materiale/Material: TPE coestruso Colore/Colour: Nero/Black Bianco/White Marrone/Brown	Triplex12/4  Confezione/Package: 150 mt. Materiale/Material: TPE coestruso Colore/Colour: Nero/Black Bianco/White Marrone/Brown

Guarnizioni

uniform

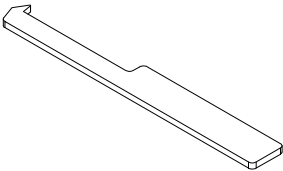
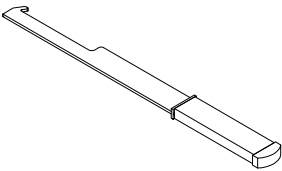
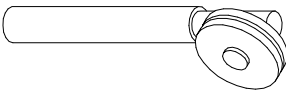
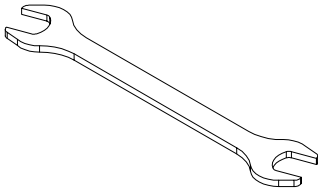
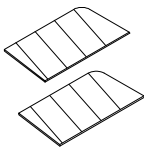
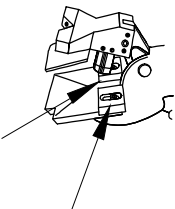
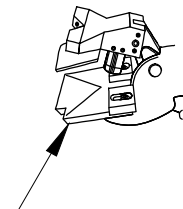
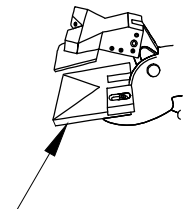
- ① Guarnizioni
- ② Dichtung
- ③ Juntas
- ④ Joints
- ⑤ Gaskets

LS84 Confezione/Package: 100 pz.  Materiale/Material: Alluminio/Aluminium Colore/Colour: Grezzo/Raw Squadretta per cianfrinatura verticale/ Corner joint to be crimping	LS96 Confezione/Package: 50 pz.  Materiale/Material: Alluminio/Aluminium Colore/Colour: Grezzo/Raw Squadretta angolo variabile/Adjustable angle joint	LS98-1 Confezione/Package: 50 pz. 500 pz.  Materiale/Material: Alluminio/Aluminium Colore/Colour: Grezzo/Raw Squadretta cianfrinatura laterale e allineamento/ Corner joint to be crimping	LS119 Confezione/Package: 250 pz.  Materiale/Material: Alluminio/Aluminium Colore/Colour: Grezzo/Raw Squadretta assemblaggio a vite degli angoli/ Corner joint to be screwed
LS200 Confezione/Package: 50 pz. 200 pz.  Materiale/Material: Alluminio/Aluminium Colore/Colour: Grezzo/Raw Squadretta cianfrinatura degli angoli/ Corner joint to be crimping			

Squadrette ed accessori

uniform

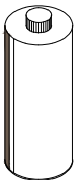
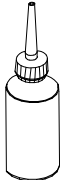
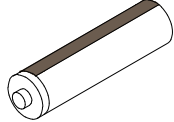
- ① Squadrette per assemblaggio profili in alluminio
- ② Eckwinkel für Verbindung von Aluminium Profile
- ③ Escuadras para el ensamblaje de los perfiles en aluminio
- ④ Equerres pour l'assemblage des profils en aluminium
- ⑤ Squares for the assembly of aluminium profiles

LD03  Materiale/Material: Acciaio/Steel Chiave per clips LC4-LC4/7-LC5-LC81 /Wrench for pivot clips LC4-LC4/7-LC5-LC81	LD03A  Materiale/Material: Acciaio/Steel Chiave per clips LC4-LC4/7-LC5-LC81 /Wrench for pivot clips LC4-LC4/7-LC5-LC81	LD04  Materiale/Material: Acciaio/Steel Rullino per montaggio guarnizioni /Gasket roller	LD13  Materiale/Material: Acciaio/Steel Chiave per clips LC26-LC50-LC62-LC80/Wrench for clips LC26-LC50-LC62-LC80
LD46  Materiale/Material: Acciaio/Steel Chiave per clips LC26-LC50-LC62-LC80 /Wrench for clips LC26-LC50-LC62-LC80			
LF1  Forbice per il taglio delle guarnizioni/Scissor for cutting the gaskets	LF2  Forbice per taglio a 45° delle guarnizioni/Scissor for cutting 45° the gaskets	LF2A  Coppia di lame per LF2 e LF4/Pair of blades for LF2 and LF4	LF2B  Inserto sagomato di ricambio per LF2/Upper blade for LF2
LF2C  Coppia di blocchetti di riscontro per LF2 e LF4/Template	LF2D  Base in Teflon di ricambio per LF2/Teflon support for LF2	LF4  Forbice per taglio a 45° delle guarnizioni sull'anta/Scissor for cutting 45° the gasket on the sash	LF4D  Base in Teflon di ricambio per LF4/Teflon support for LF4

Attrezzature

uniform

- ① Accessori e attrezzature
- ② Zubehör und Werkzeuge
- ③ Accesorios y utiles
- ④ Accessoires et outillages
- ⑤ Spare-parts and tools

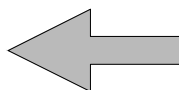
ALUGLIT  Detergente per la pulizia dei profili in alluminio grezzi da 250ml/ <i>Raw aluminium profiles cleaner</i>	ALUGLIT PAINT  Detergente per la pulizia dei profili in alluminio verniciati da 250ml/ <i>Coated aluminium profiles cleaner</i>	LC-PRIMER86  Primer per alluminio/ <i>Aluminium Primer</i>	LC-RE  Colla cianoacrilica per l'incollaggio di guarnizioni in EPDM/ <i>Glue for EPDM gaskets</i>
LC-TENAX  Colla per l'assemblaggio dei profili in alluminio/ <i>Glue for the assembly of the aluminum profiles corners</i>	LCPROTEX  Anticorrosivo per alluminio/ <i>Anti-corrosive for aluminum</i>		

LAC-CRAB CIANFRINATRICE PNEUMATICA ORIZZONTALE
NOTA: Comprensiva di rulliera e punzoni universali

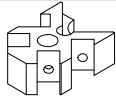
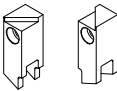
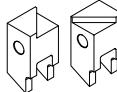
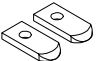
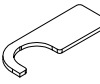
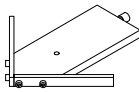
Per assemblaggio meccanico dei profili LA645 e LA648

ACCESSORI e RICAMBI PER LAC-CRAB

LAPZ-40330	2 coppie	Coppia di punzoni sp. 2mm
LAPZ-40332	2 coppie	Coppia di punzoni sp. 4mm



LACV-98 CIANFRINATRICE PNEUMATICA VERTICALE
NOTA: Comprensiva del portapunzoni MVX42603, punzoni LAPZ-UNI (montanti) e della slitta LAC-SL15

Ricambi per LACV-98/ <i>Parts for LACV-98 punching machine</i>			
Punzoni <i>Punches</i>	MVX42603	Testa portapunzoni standard <i>standard punches-platform</i>	
	LAPZ-44	Coppia punzoni H=44mm(set di 2pz) <i>pair of punches H=44mm</i>	
	LAPZ-5000	Coppia punzoni H=38mm(set di 2pz) <i>pair of punches H=38mm</i>	
Spessori sup. <i>Upper spacers</i>	LAC-SP4.5	Spessore superiore 4.5mm <i>upper spacer 4.5mm thick</i>	
	LAC-SP12	Spessore superiore 12mm <i>upper spacer 12mm thick</i>	
Slitte e supporti <i>Sledges, supports</i>	LAC-SL15	Slitta spessore 15mm <i>15mm thick sledge</i>	



Attrezzature

uniform

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- ④ Accessoires et outillages
- ⑤ Spare-parts and tools

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