EMMAUS S.N.C.
RIVENDITORE SPECIALIZZATO SISTEMI ALUMINCO

# CATALOGO 2020

Crystalline®
railing system

## Sistemi di supporto vetro



# INDICE TIPOLOGIE

| TIPOLOGIE | MONTAGGIO | | | SPESSORE VETRO | CARICO |
|---|---|---|---|---|---|
| | Sul pavimento | Laterale | Guida interrata | | |
| **Tipo A** | ■ | | | 17.52 mm | ≤ 1 kN/m |
| **Tipo A10** | ■ | | | 10.76 mm | ≤ 0.5 kN/m |
| **Tipo A20** | ■ | | | 17.52 mm | ≤ 0.5 kN/m |
| **Tipo A20U** | | | ■ | 17.52 mm | ≤ 0.5 kN/m |
| **Tipo B** | ■ | | | 17.52 / 21.52 mm | ≤ 1 kN/m |
| **Tipo C2** | ■ | | | 17.52 / 21.52 mm | ≤ 1 kN/m |
| **Tipo C2U** | | | ■ | 17.52 / 21.52 mm | ≤ 1 kN/m |
| **Tipo D** | | ■ | | 17.52 / 21.52 mm | ≤ 1 kN/m |
| **Tipo DS** | | ■ | | 17.52 / 21.52 mm | ≤ 1 kN/m |
| **Tipo DC** | | ■ | | 17.52 / 21.52 mm | ≤ 0.5 kN/m |
| **DC LINE NO DRILL** | | ■ | | 17.52 / 21.52 mm | ≤ 0.5 kN/m |
| Tipo **E** | ■ | | | 17.52 - 25.52 mm | ≤ 3 kN/m |
| **Tipo L** | ■ | ■ | | 17.52 - 21.52 mm | ≥ 3 kN/m |
| **Tipo SLIM LINE** | ■ | ■ | ■ | 11.52 - 21.52 mm | ≤ 1 kN/m |

1. VETRO STRATIFICATO TEMPERATO



| Tipo | CAMPI DI IMPIEGO* | | | TESTATI & APPROVATI | | | | | PAGINA |
|---|---|---|---|---|---|---|---|---|---|
| | Privati | Commerciali | Pubblici | IFT Rosenheim | BBRI | FTL | Instituto Giordano | Intertek | |
| A | ■ | ■ | | ■ | | | ■ | | 5 |
| A10 | ■ | | | ■ | | | | | 11 |
| A20 | ■ | | | | ■ | | | | 19 |
| A20U | ■ | | | | | | | | 25 |
| B | ■ | ■ | | | ■ | | ■ | | 31 |
| C2 | ■ | ■ | | ■ | | ■ | ■ | | 39 |
| C2U | ■ | ■ | | | | | | | 47 |
| D | ■ | ■ | | | | | ■ | | 55 |
| DS | ■ | ■ | | | | | ■ | | 63 |
| DC | | | | | | | | | 69 |
| DC nd | ■ | | | | ■ | | | | 75 |
| E | ■ | ■ | ■ | ■ | ■ | ■ | | | 81 |
| L | ■ | ■ | ■ | | ■ | | | ■ | 89 |
| SLIM | ■ | ■ | | ■ | | | | | 119 |

*. PRIVATI: spazi come case e ville residenziali
COMMERCIALI: spazi come uffici, negozi ecc
PUBBLICI: spazi come centri commerciali, stadi, aereoporti ecc



# Informazioni generali

## Alluminio

Nessun altra tipologia di materiale ha le caratteriche dell'alluminio: leggerezza dei profili ma resistenza allo stesso tempo anche ai climi più severi, soprattutto grazie allo strato di ossido che protegge il metallo dalla corrosione. Questo strato è ulteriormente rinforzato dall'anodizzazione che garantisce maggiore resistenza agli agenti atmosferici. L'alluminio è riciclabile al 100% e atossico. Essendo facilmente malleabile alle lavorazioni di foratura, piegatura, verniciatura è molto utilizzato negli ambienti sia interni che esterni.

Pulizia: Le ringhiere in alluminio si puliscono con acqua tiepida e sapone neutro.



## L' utilizzo del vetro nelle ringhiere CrystalLine

Nel sistema di ringhiere Crystal possono essere impiegate diverse tipologie di vetro , con vari spessori e caratteristiche diverse in base ai campi di impiego e in accordo alle leggi EN12543 e EN12600 dell'Unione Europea sul trattamento termico del vetro.



*VETRO TEMPERATO E STRATIFICATO*



*VETRO TEMPERATO*

La legge EN12543 specifica l'ultilizzo del vetro temperato e stratificato con membrane PVB in quanto ha le seguenti caratteristiche:

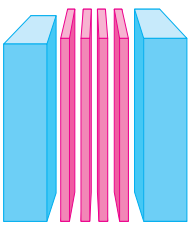
a) in caso di rottura, il vetro si frantuma in piccoli pezzi non taglienti

b) i pezzi rimangono attaccati alle membrane di

PVB senza mettere in pericolo le persone nelle vicinanze.

Le membrane PVB permettono di unire diversi strati di vetro per ottenere pessori di vetro diversi.

Nelle immagini a fianco mostrano la diversa tipologia di rottura



*Vetro*
*PVB*

## Certificazioni ALUMINCO

- Certificazione sistema di qualità EN ISO 9001:2015
- Certificazione del sistema di gestione ambientale

EN ISO 14001:2004)

Certificazione sistema di verniciatura profili e accessori QUALICOAT

- Certificazione sistema di anodizzazione QUALANOD

## Membrane PVB

Le membrane del PVB (termine tecnico: polyvinyl butyral), sono inserite tra gli strati di vetro tramite delle presse a rullo che permettono di eliminare tutte le bolle d'aria. Dopo di che, riscaldano il vetro a 70° in un bagno d'olio che uniscedefinitivamente tutti gli strati. Lo spessore di una membrana è 0,38mm e possono essere anche colorate per dare tocchi particolari alle costruzioni moderne. In accordo alla legge Europea EN12600 il minimo numero di memebrane richiesto per le ringhiere è due anche se Aluminco consiglia almeno 4 per una sicurezza maggiore secondo il campo di utilizzo.



# A·line

CERTIFIED BY ift ROSENHEIM CERTIFIÉ PAR

CERTIFIED BY ISTITUTO GIORDANO CERTIFIÉ PAR

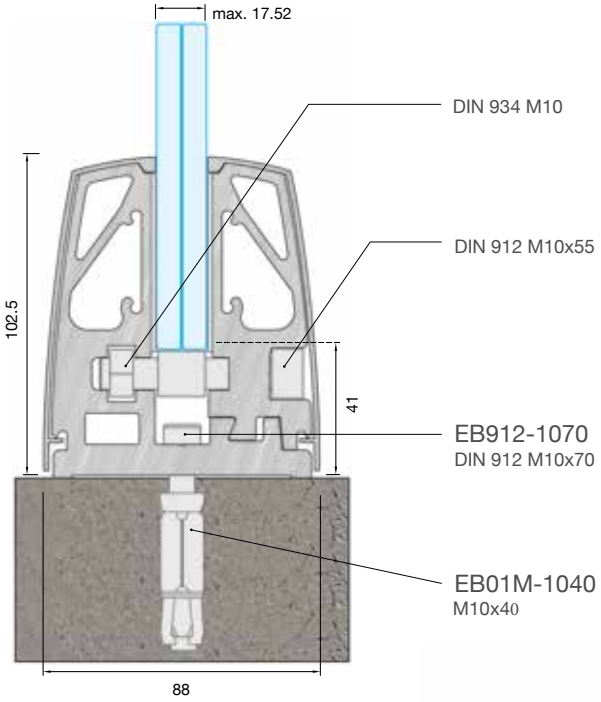


## Supporto vetro su pavimento



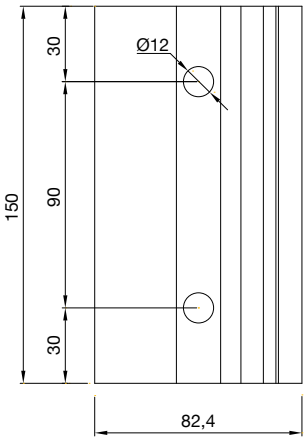
# A•line
## Sistema a pavimento

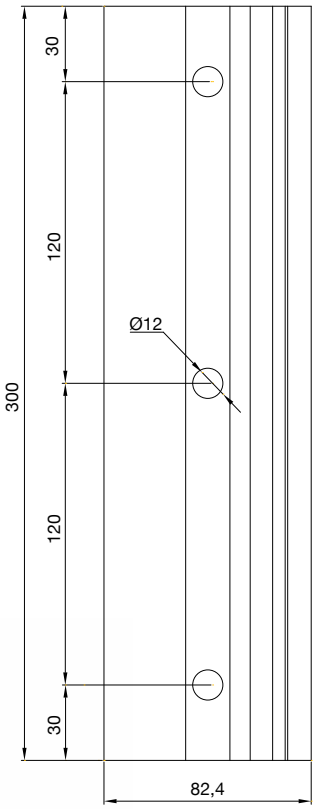
### Fissaggio delle basi



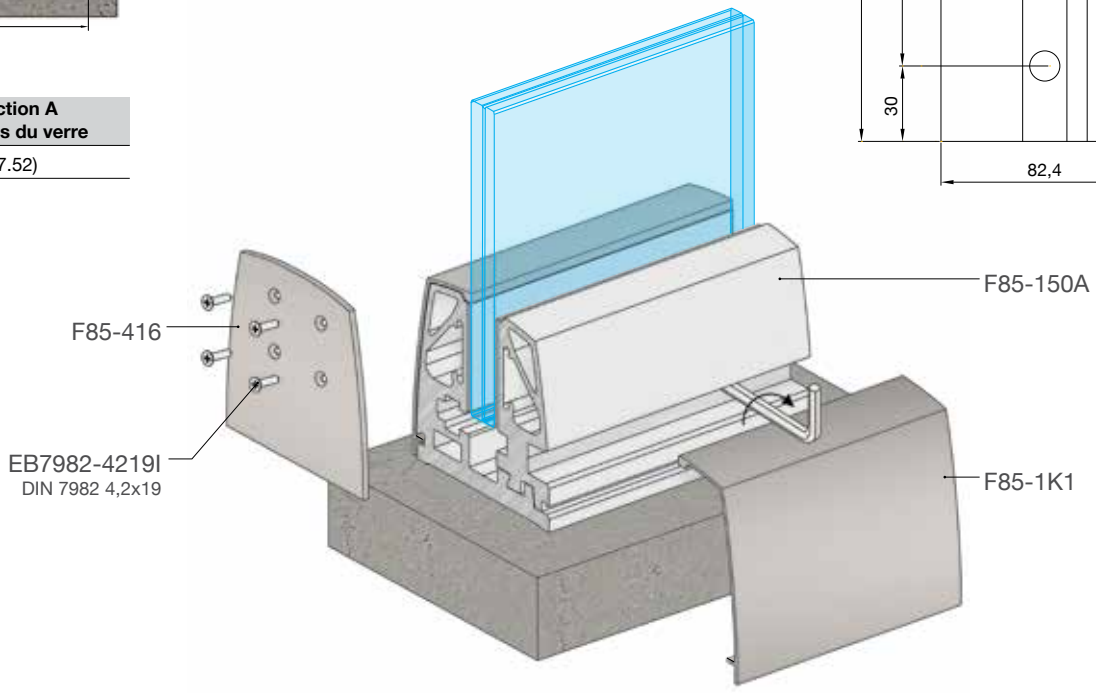

**Misure basi**

| F85-150A | F85-300A |
|---|---|



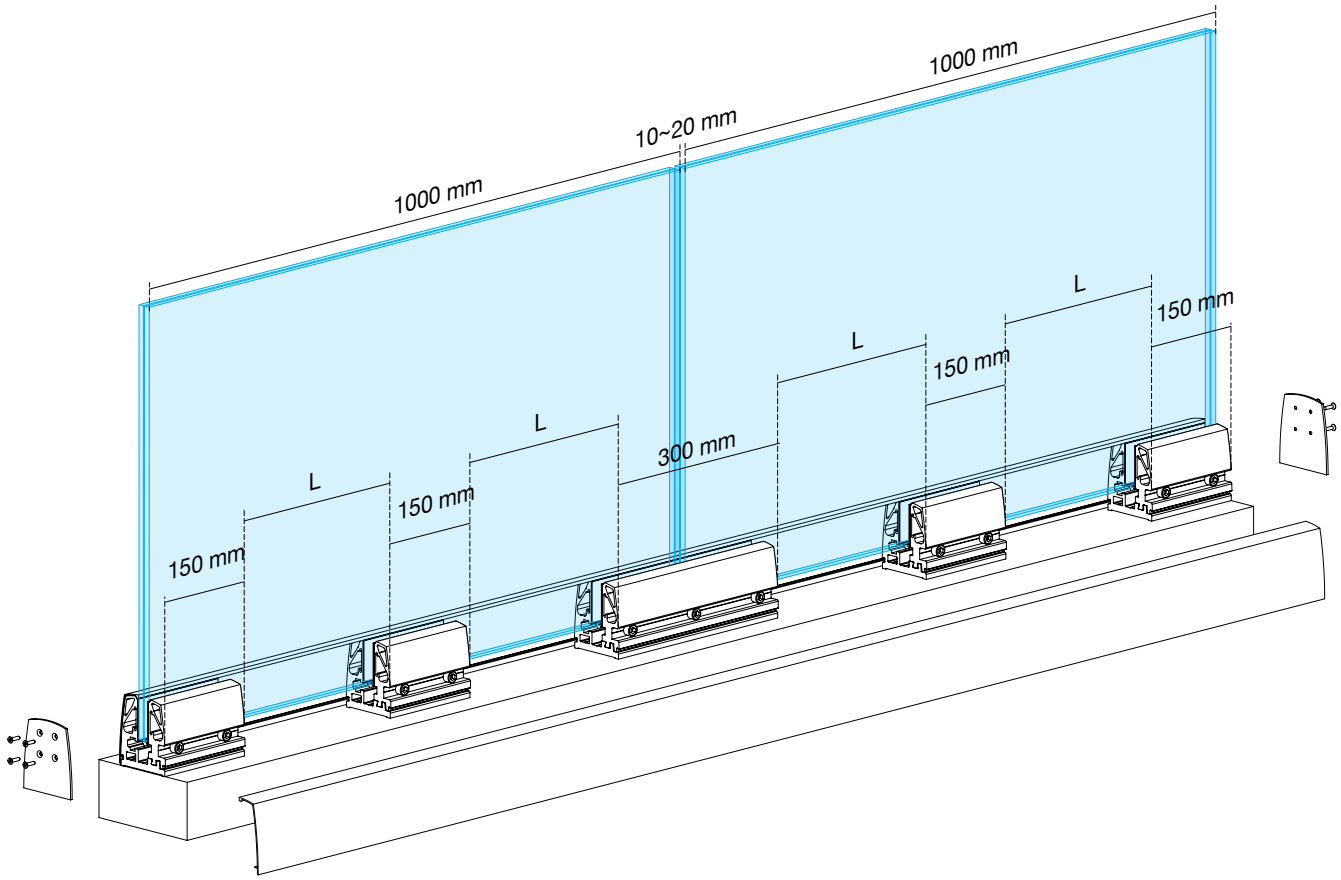




| Glass section A<br>Specifications du verre |
|---|
| 8.8.4 (17.52) |




| Tipo A | Tipologia vetro | Altezza ringhiera | Categoria di carico statico (Carico orizzontale) | Categoria di carico dinamico (Prova di spinta) |
|---|---|---|---|---|
| Crystalline-A | 8.8.4 | 1200 mm | Privati e commerciali | Privati e commerciali |

## Montaggio profilo



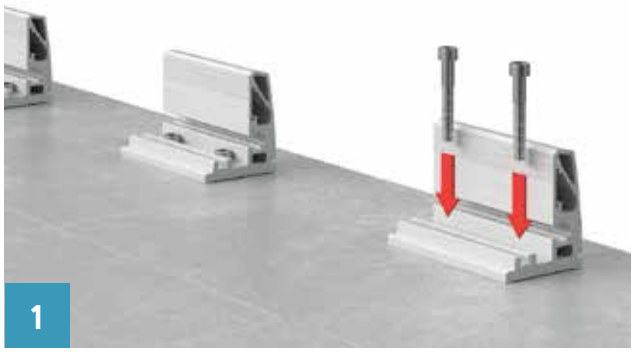


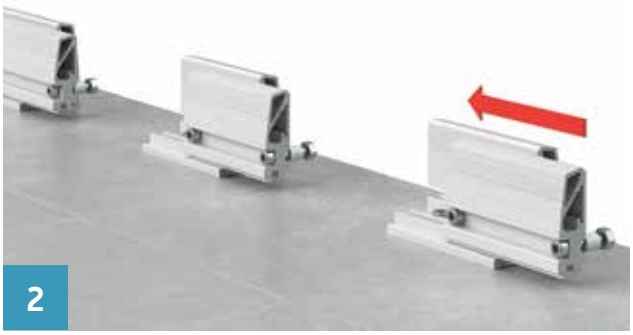

**Numero raccomandato di basi**

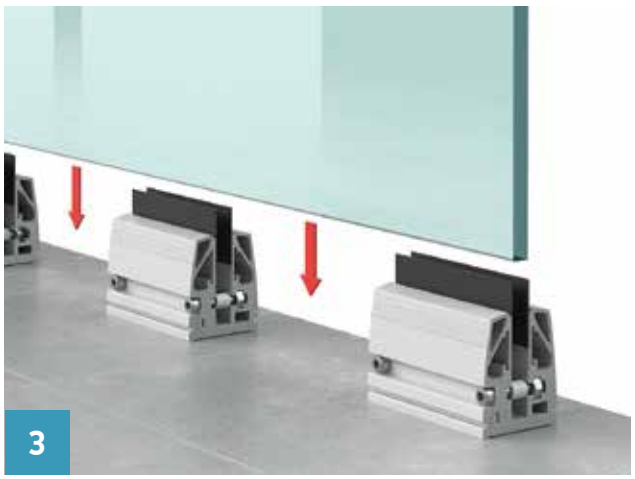
| 8.8.4 (17.52) | | | |
|---|---|---|---|
| Altezza Vetro | Corrimano | Numero di basi al ml | L |
| 600 mm | - | 3 | 275 mm |
| | F85-203 | 2 | 700 mm |
| | F85-204 | 2 | 700 mm |
| 1000 mm | - | 3 | 275 mm |
| | F85-203 | 3 | 275 mm |
| | F85-204 | 3 | 275 mm |
| 1100 mm | - | 4 | 133 mm |
| | F85-203 | 3 | 275 mm |
| | F85-204 | 3 | 275 mm |
| 1200 mm | - | 5 | 62,5 mm |
| | F85-203 | 4 | 133 mm |
| | F85-204 | 4 | 133 mm |

A•line

## Fasi di montaggio












A•line

## Fissaggio basi

Le basi comprendono le viti di fissaggio, guarnizioni di pressione.

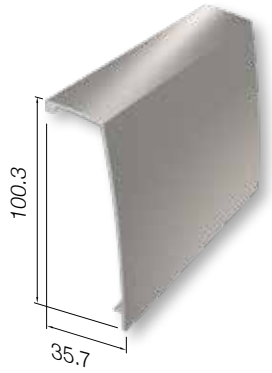



| Base vetro 150mm | |
|---|---|
| Cod | **F85-150A** |
| Conf. | 12 pz |




| Base vetro 300mm | |
|---|---|
| Cod | **F85-300A** |
| Conf. | 6 pz |

## Profili & accessori



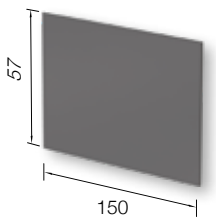

| Cover per basi | |
|---|---|
| Cod | **F85-1K1** |
| Peso | 550gr/m |
| Lunghezza | 6 m |




| Tappo finale cieco | |
|---|---|
| Cod | **F85-416** |
| Conf. | 20 pz |

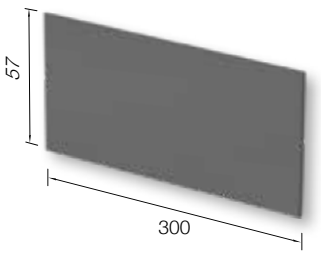



| Tappo scarico acqua | |
|---|---|
| Cod | **F85-416L** (8.8.4) |
| Conf. | 20 pz |




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-E009** |
| Colore | Nero |
| Lunghezza | 150 mm |

*Inclusi nelle basi F85-150A ma disponibili separatamente*




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-E010** |
| Colore | Nero |
| Lunghezza | 300 mm |

*Inclusi nelle basi F85-300A ma disponibili separatamente*



# A10·line

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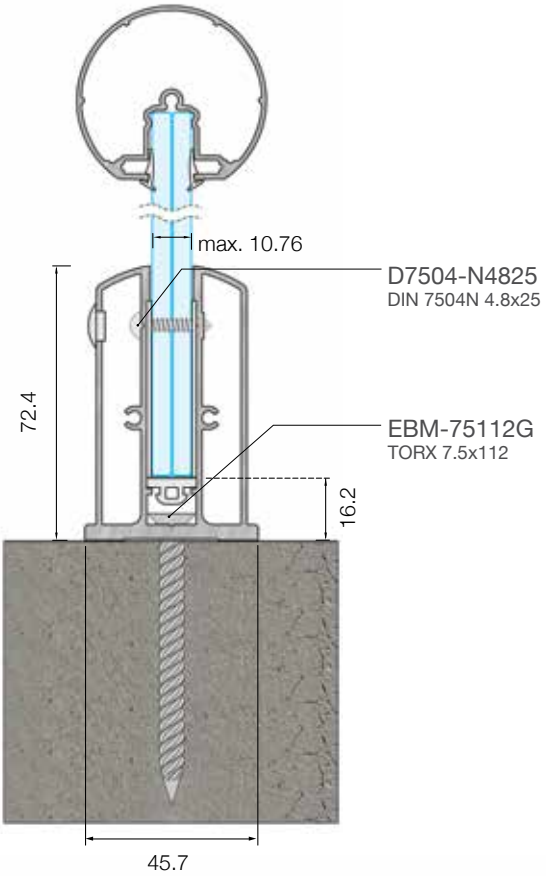
## Sistema a pavimento con vetro da 10 mm

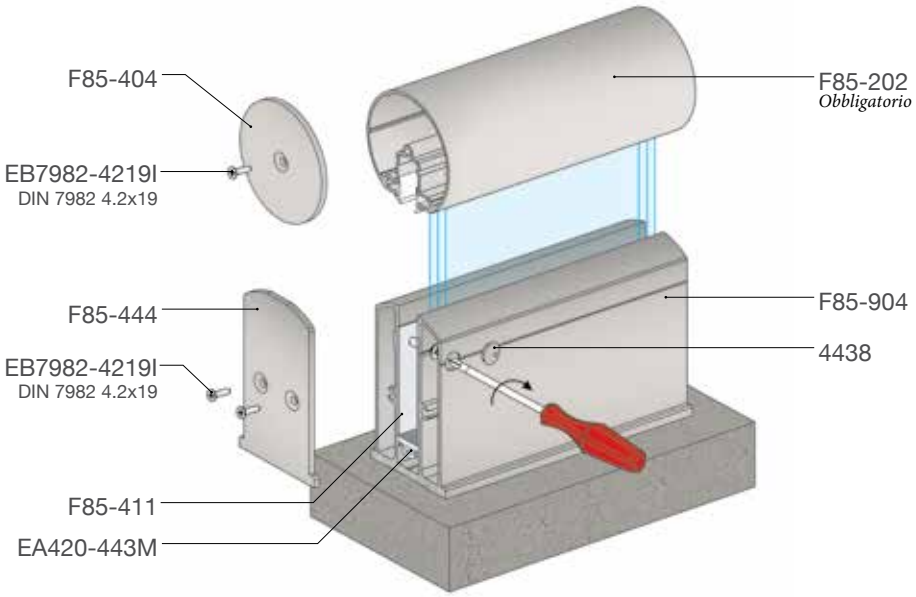



ALTex


B
OKER

**Tipologia vetro**
5.5.2 (10.76)

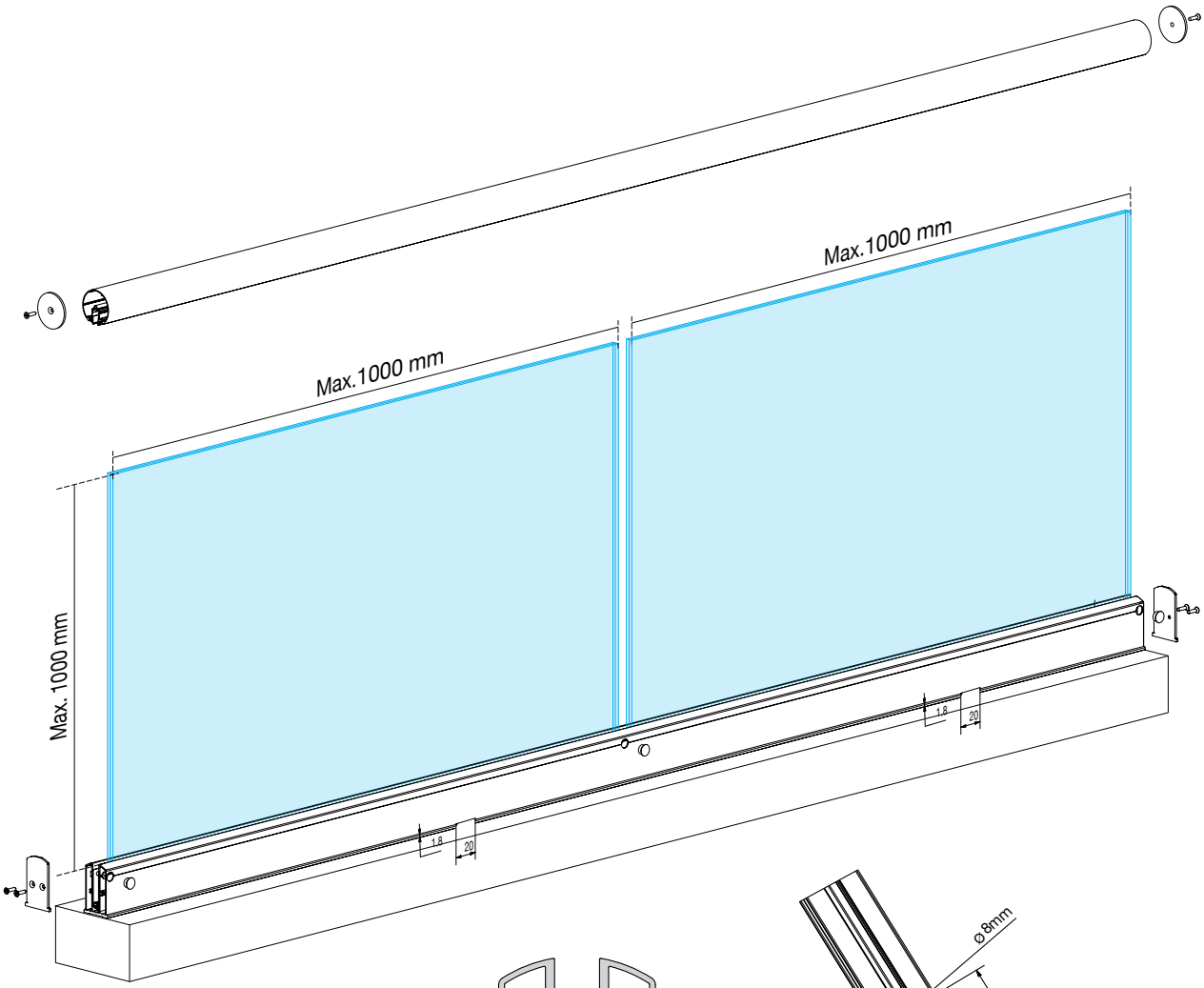


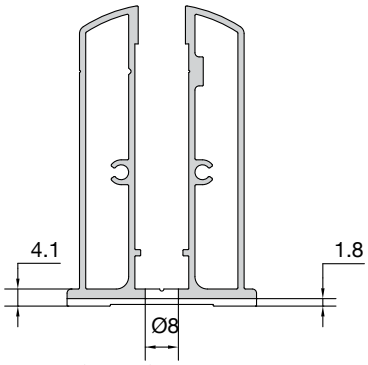





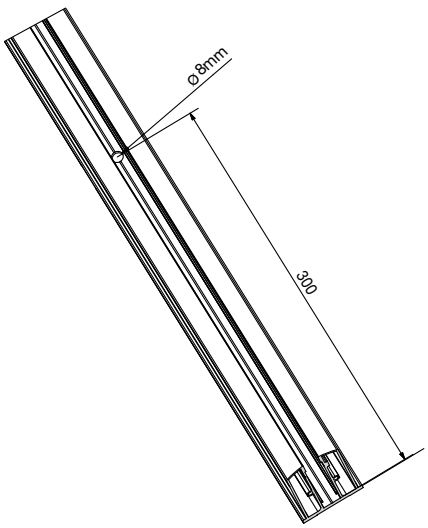

| Tipologia | Tipologia Vetro | Altezza ringhiera | categoria di carico statico ( carico orizzantale) | categoria di carico dinamico (prova di spinta) |
|---|---|---|---|---|
| Crystalline-A10 | 5.5.2 | 1000 mm (Solo con corrimano) | Privati (uso residenziale) | Privati (uso residenziale) |

## Montaggio profilo



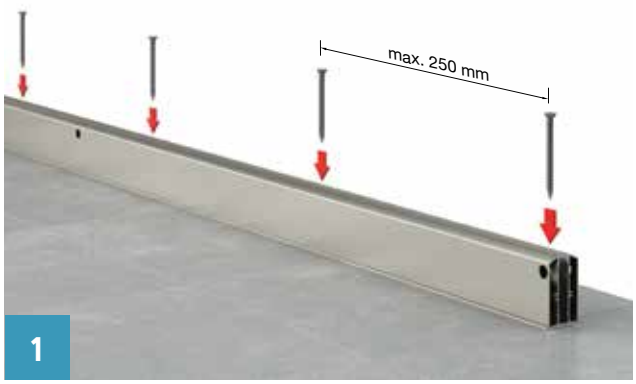

Taglio per drenaggio acqua




Attenzione!

a) Altezza massima vetro 1000 mm
b) Montaggio con corrimano F85-202
c) Utilizzare fissaggio a paviento ogni metro

## Fasi di montaggio





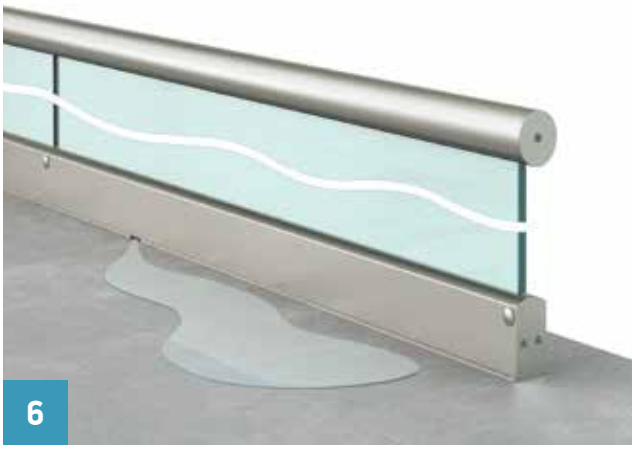




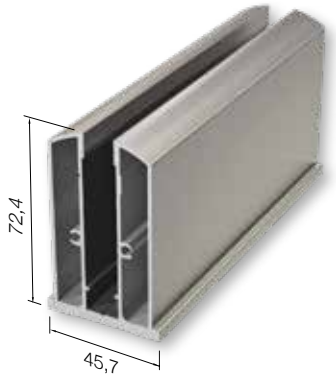






## Base a pavimento




| Base a pavimento | |
|---|---|
| Cod | **F85-904** |
| Peso | 1796 gr/m |
| Lunghezza | 6 m |



## Profili & accessori



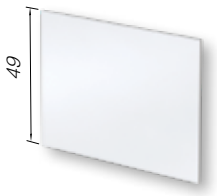

| Corrimano Ø50 | |
|---|---|
| Cod | **F85-202** |
| Peso | 721 gr/m |
| Lunghezza | 6 m |




| Tappo finale | |
|---|---|
| Cod | **F85-444** |
| Conf. | 20 pz |

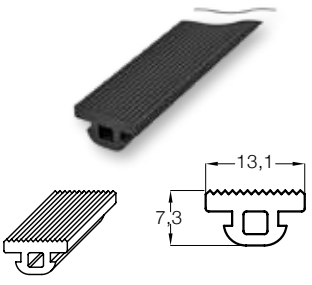



| Tappo Copriforo | |
|---|---|
| Cod | **4438** |
| Conf. | 50 pz |

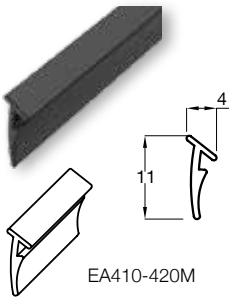



| Foglio PVC 1 mm | |
|---|---|
| Cod | **F85-411** |
| Colore | Bianco |
| Lunghezza | 2 m |

## Guarnizioni




| Guarnizione della base | |
|---|---|
| Cod | **EA420-443M** |
| Lunghezza | 150 m |




| Guarnizione corrimano | |
|---|---|
| Cod | **EA410-420M** |
| Lunghezza | 350 m |



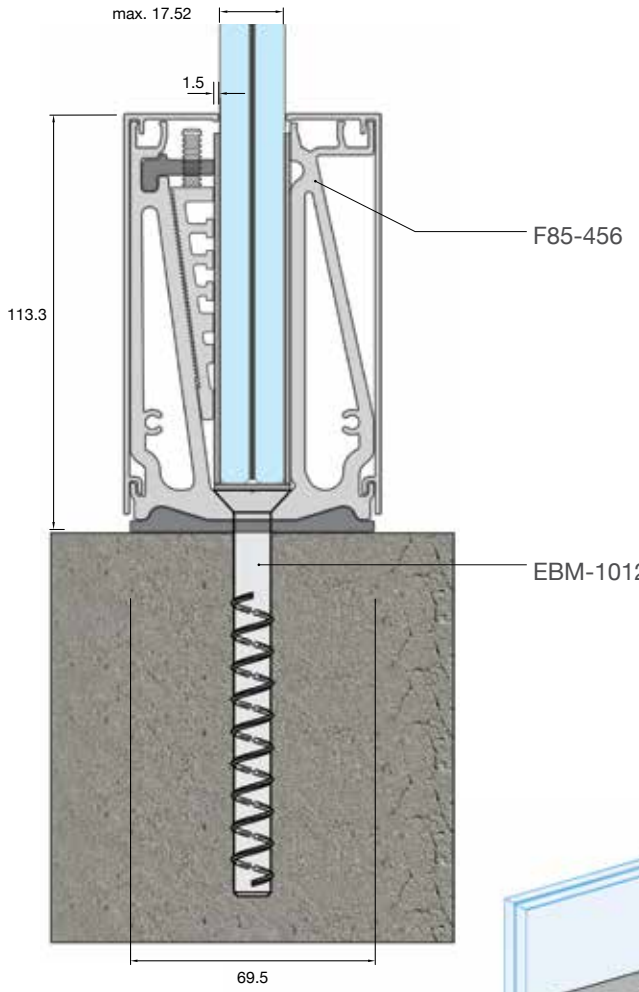
# A20·line

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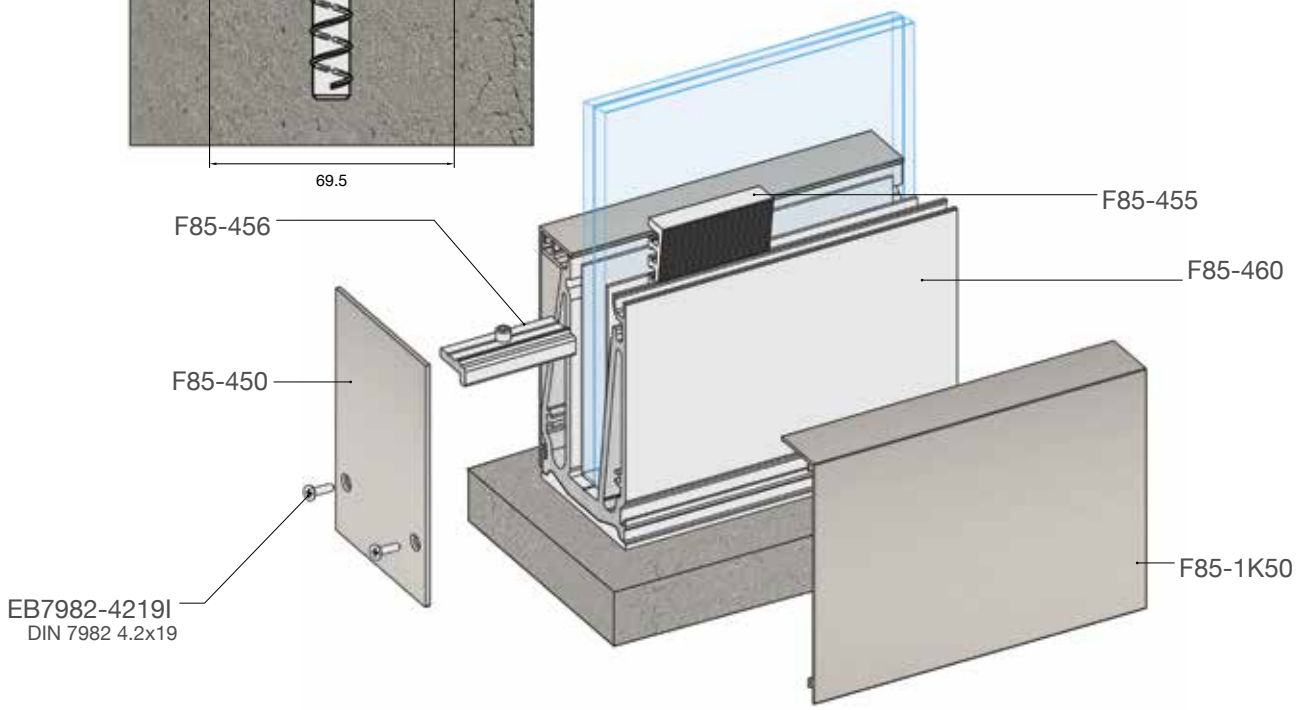
## Sistema a pavimento





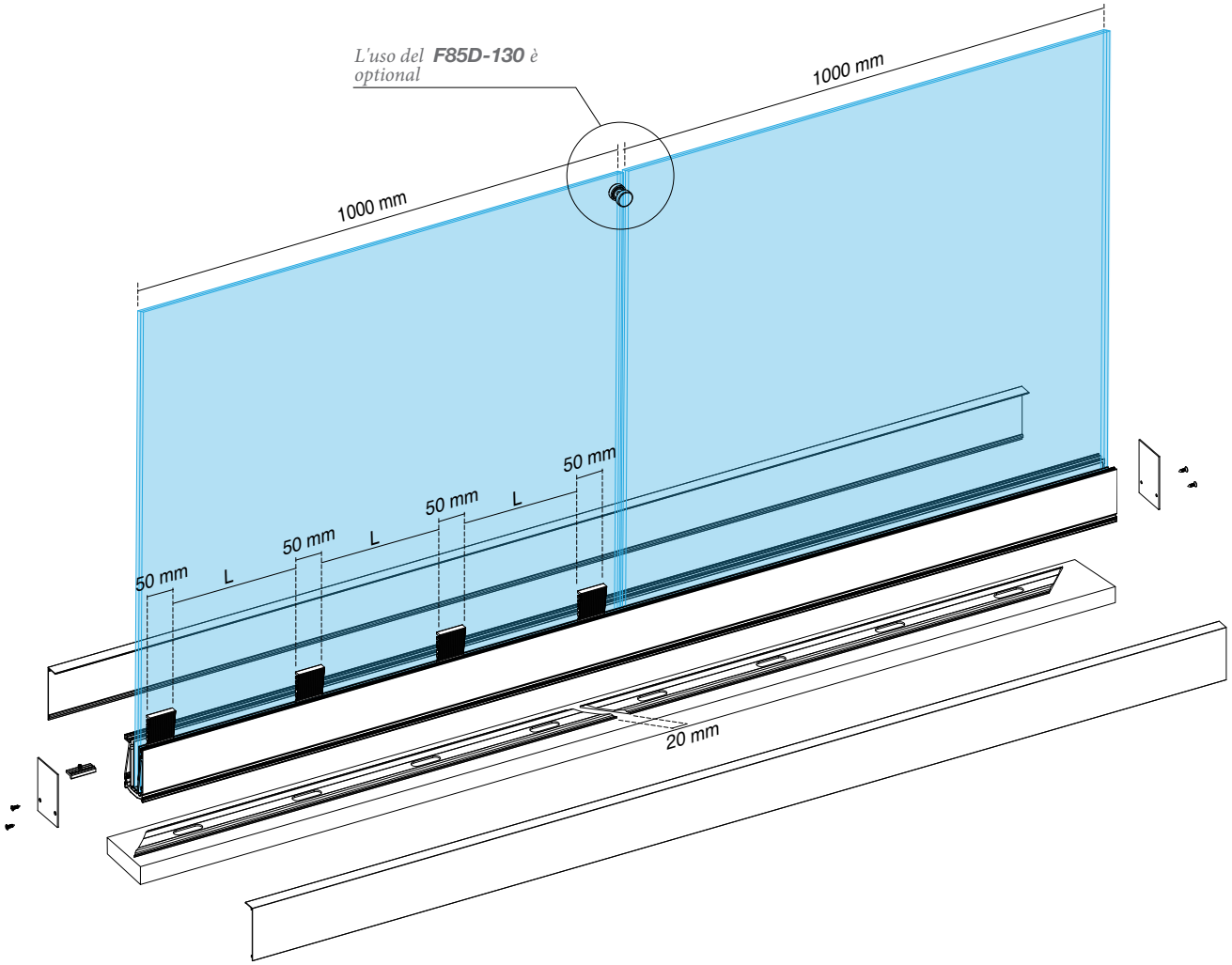

| Tipologia vetro |
|---|
| 8.8.4 (17.52) |






| Tipologia | Tipologia vetro | Altezza vetro | categoria di carico statico (carico orizzontale) | categoria di carico dinamico (prova di spinta) |
|---|---|---|---|---|
| Crystalline-A20 | 8.8.2 (DG41) | 1200 mm | Privati (uso residenziale) | Privati (uso residenziale) |

## Montaggio profilo

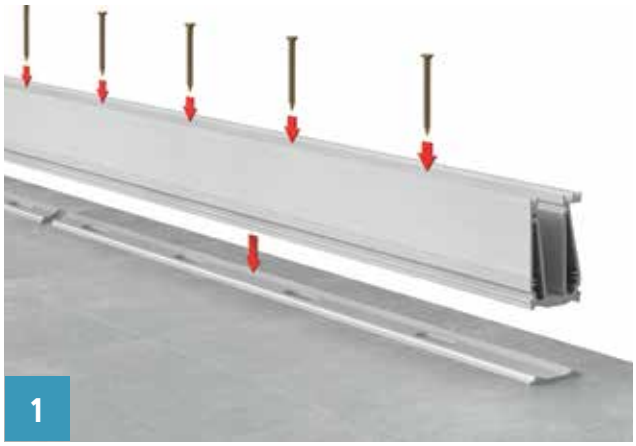


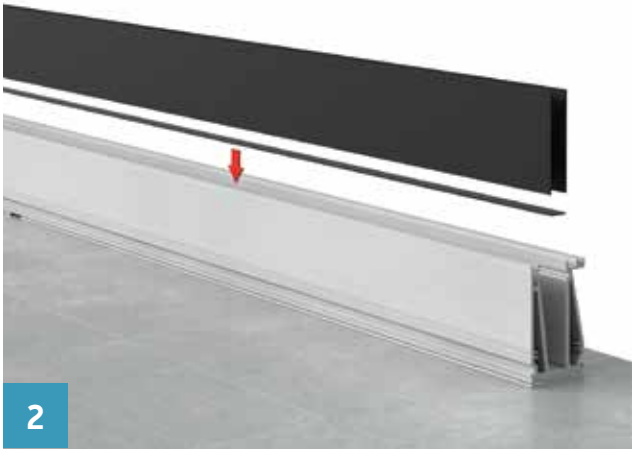



**Numero di basi raccomandati al metro**

| 8.8.4 (17.52) | | | |
|---|---|---|---|
| Altezza Vetro | Corrimano | Numero basi al ml | L |
| 600 mm | - | 4 | 265 mm |
| | F85-203 | 4 | 265 mm |
| | F85-204 | 4 | 265 mm |
| 1000 mm | - | 5 | 190 mm |
| | F85-203 | 4 | 265 mm |
| | F85-204 | 4 | 265 mm |
| 1200 mm | - | 5 | 190 mm |
| | F85-203 | 5 | 190 mm |
| | F85-204 | 5 | 190 mm |

## Fasi di montaggio







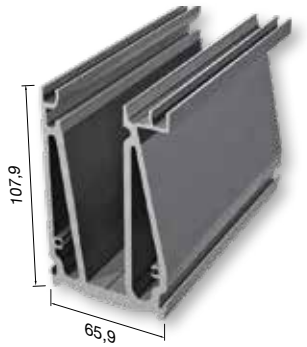








## Base a pavimento

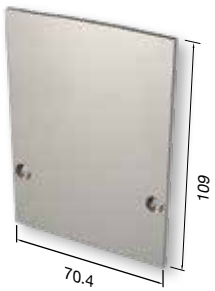



| Base a pavimento | |
|---|---|
| Cod | **F85-460** |
| Lunghezza | 3 m |

## Accessori




| Cuneo | |
|---|---|
| Cod | **F85-455** |
| Conf. | 20 pz |




| Tappo finale | |
|---|---|
| Cod | **F85-450** |
| Conf. | 20 pz |



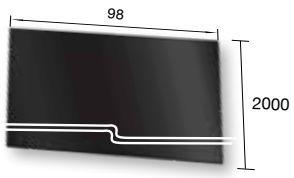

| Cover base | |
|---|---|
| Cod | **F85-1K50** |
| Peso | 572 gr/m |
| Lunghezza | 6 m |



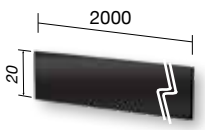
| Profilo di drenaggio | |
|---|---|
| Cod | **F85-457** |
| Lunghezza | 1 m |
| Conf. | 10 pz |




| Piastra di pressione | |
|---|---|
| Cod | **F85-456** |
| Conf. | 20 pz |




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-459** |
| Colore | Nero |
| Lunghezza | 2 m |




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-458** |
| Colore | Nero |
| Lunghezza | 2 m |



| Viti TORX 10X120 | |
|---|---|
| Cod | **EBM-10120G/2** |



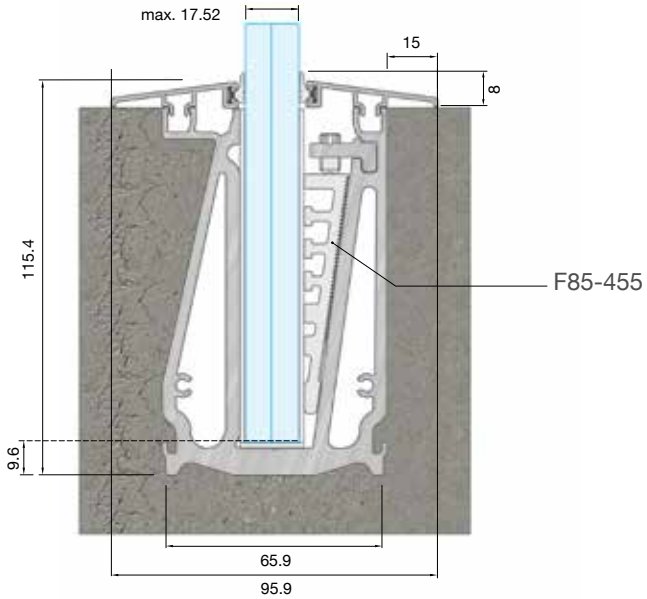
# A20u·line

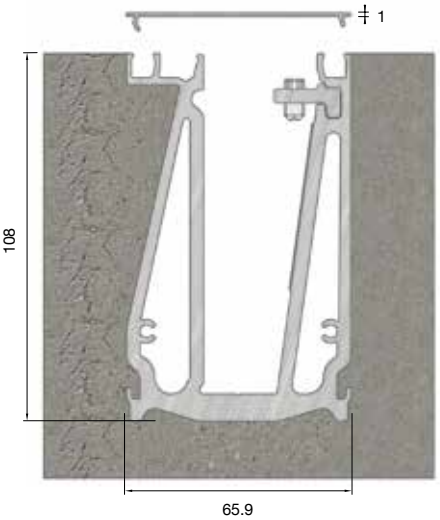
25

## Sistema guida interrata

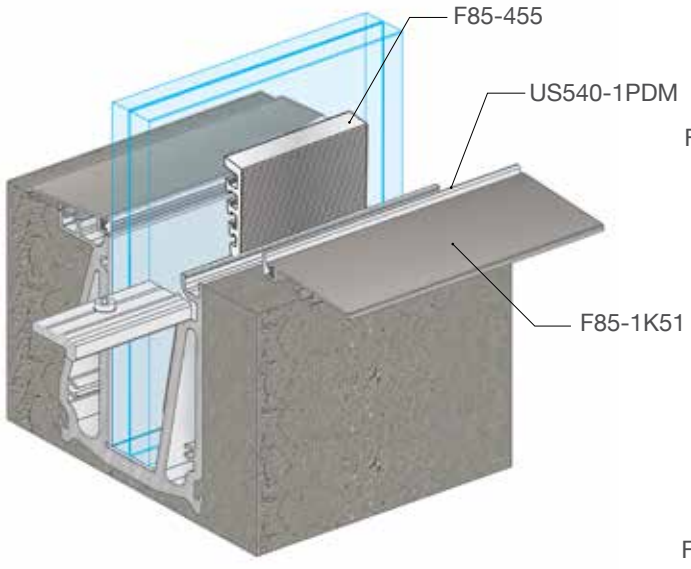


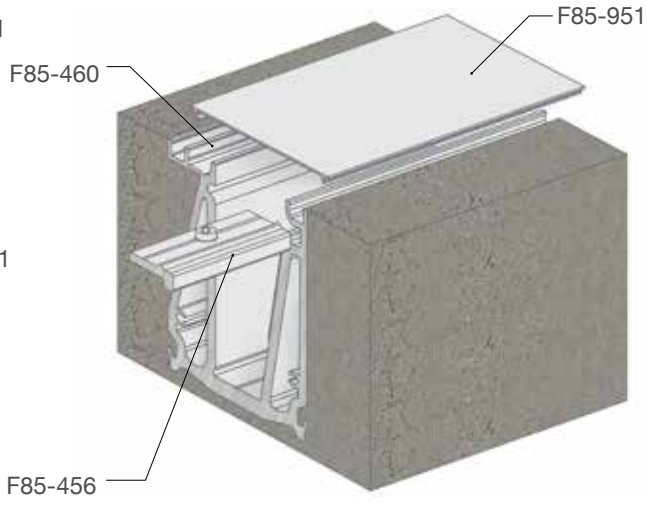
| Tipologia vetro |
| --- |
| 8.8.4 (17.52) |



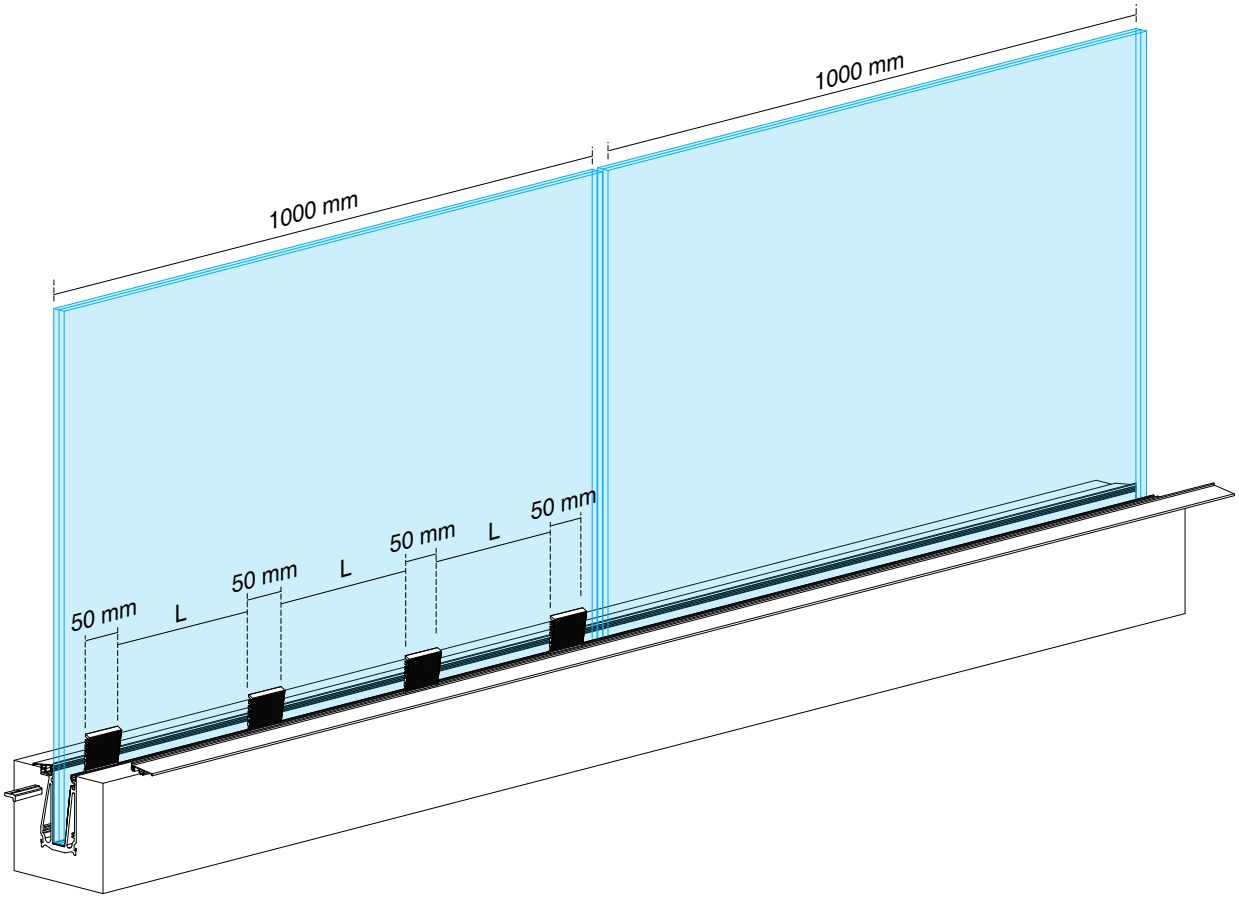





## Montaggio profilo



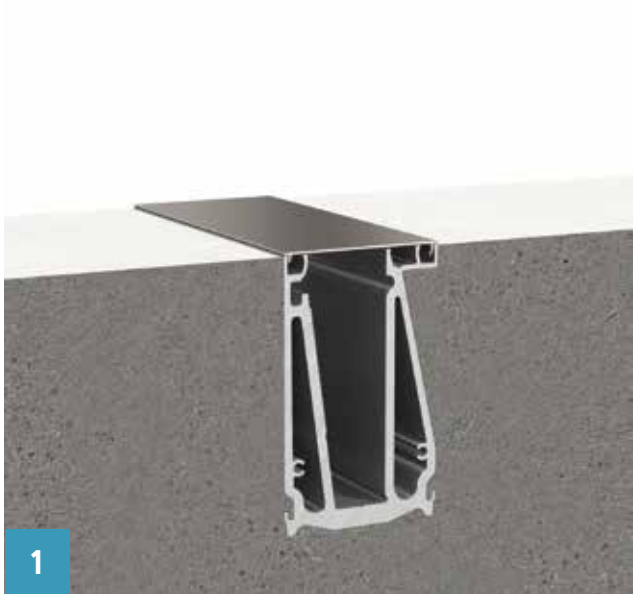


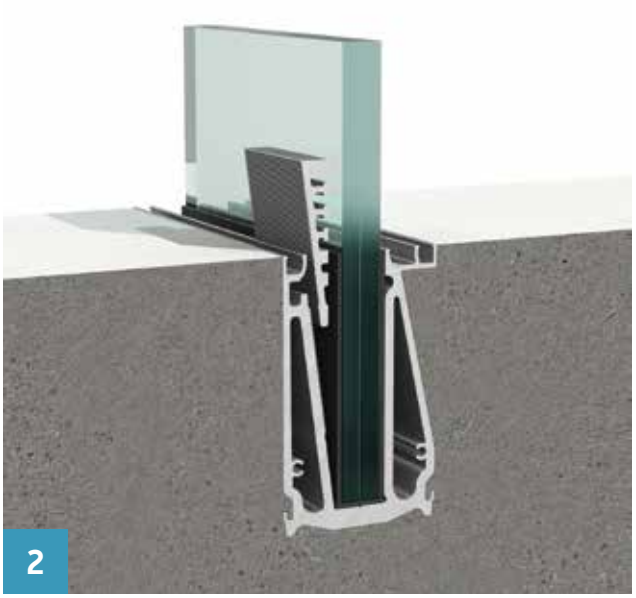

| Numero raccomandato di basi al metro | 8.8.4 (17.52) | | | |
|---|---|---|---|---|
| | Altezza vetro | Corrimano | Numero di basi al ml | L |
| | 600 mm | - | 4 | 265 mm |
| | | **F85-203** | 4 | 265 mm |
| | | **F85-204** | 4 | 265 mm |
| | 1000 mm | - | 5 | 190 mm |
| | | **F85-203** | 4 | 265 mm |
| | | **F85-204** | 4 | 265 mm |
| | 1200 mm | - | 5 | 190 mm |
| | | **F85-203** | 5 | 190 mm |
| | | **F85-204** | 5 | 190 mm |

Attenzione!

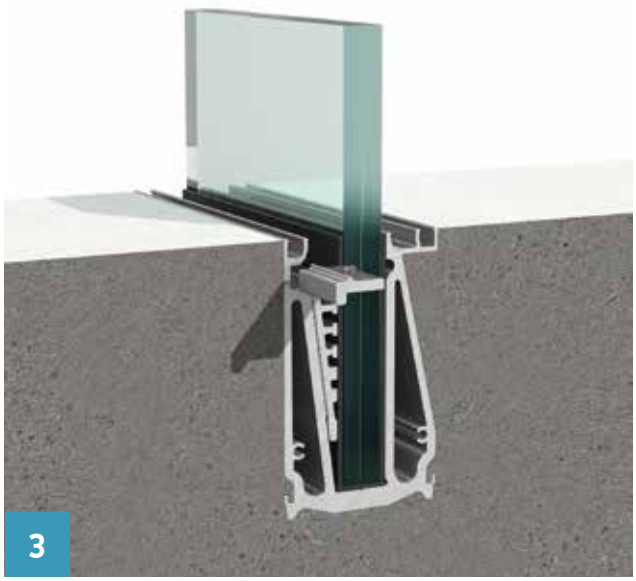
Le piastre di pressione devono essere inserite prima del fissaggio finale.

## Fasi di montaggio



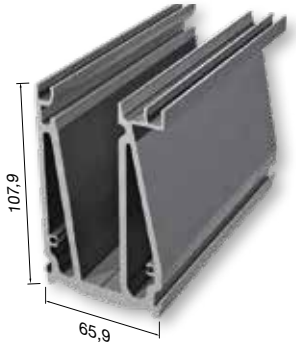





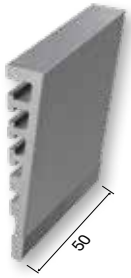






## Basi di supporto & Accessori




| Profilo base | |
|---|---|
| Cod | **F85-460** |
| Lunghezza | 3 m |




| Cuneo | |
|---|---|
| Cod | **F85-455** |
| Conf. | 20 pz |



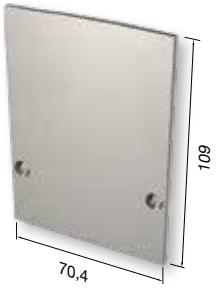

| Piastra di pressione | |
|---|---|
| Cod | **F85-456** |
| Conf. | 20 pz |



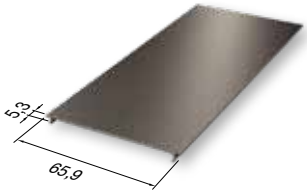

| Cover base finale | |
|---|---|
| Cod | **F85-1K51** |
| Peso | 216 gr/m |
| Lunghezza | 6 m |

## Accessori & guarnizioni

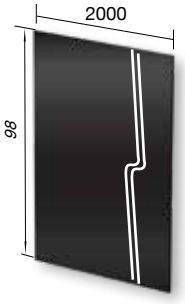




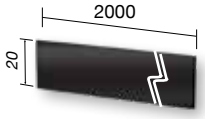

| Tappo finale | |
|---|---|
| Cod | **F85-450** |
| Conf. | 20 pz |



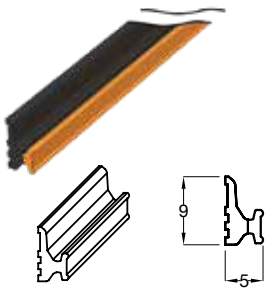

| Cover per F85-460 | |
|---|---|
| Cod | **F85-951** |
| Peso | 235 gr/m |
| Lunghezza | 6 m |




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-459** |
| Colore | Nero |
| Lunghezza | 2 m |




| Foglio PVC 1.5 mm | |
|---|---|
| Cod | **F85-458** |
| Colore | Nero |
| Lunghezza | 2 m |




| Guarnizione | |
|---|---|
| Cod | **US540-1PD** |
| Lunghezza | 200 m |



# B·line

CERTIFIED BY ISTITUTO GIORDANO CERTIFIÉ PAR

CERTIFIED BY bbri.be CERTIFIÉ PAR



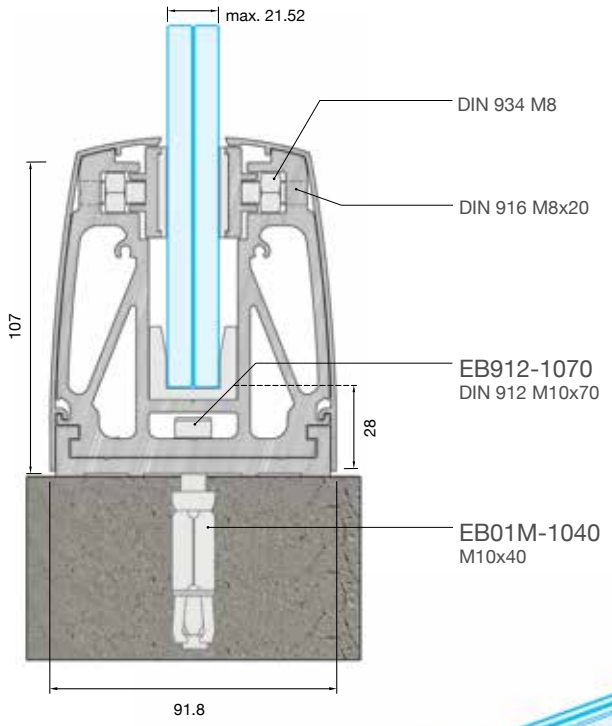
## Sistema a pinze regolabili



B•line



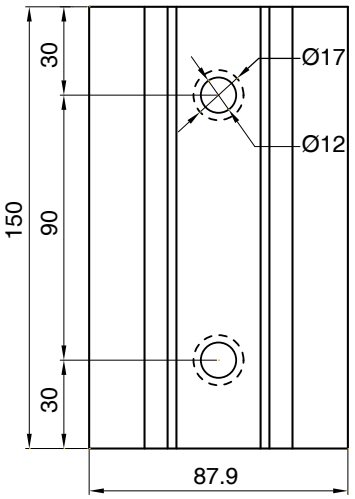





| Sezione vetro Tipo **B** |
|---|
| 8.8.4 (17.52) |
| 8.8.2 (16.76) |
| 10.10.4 (21.52) |

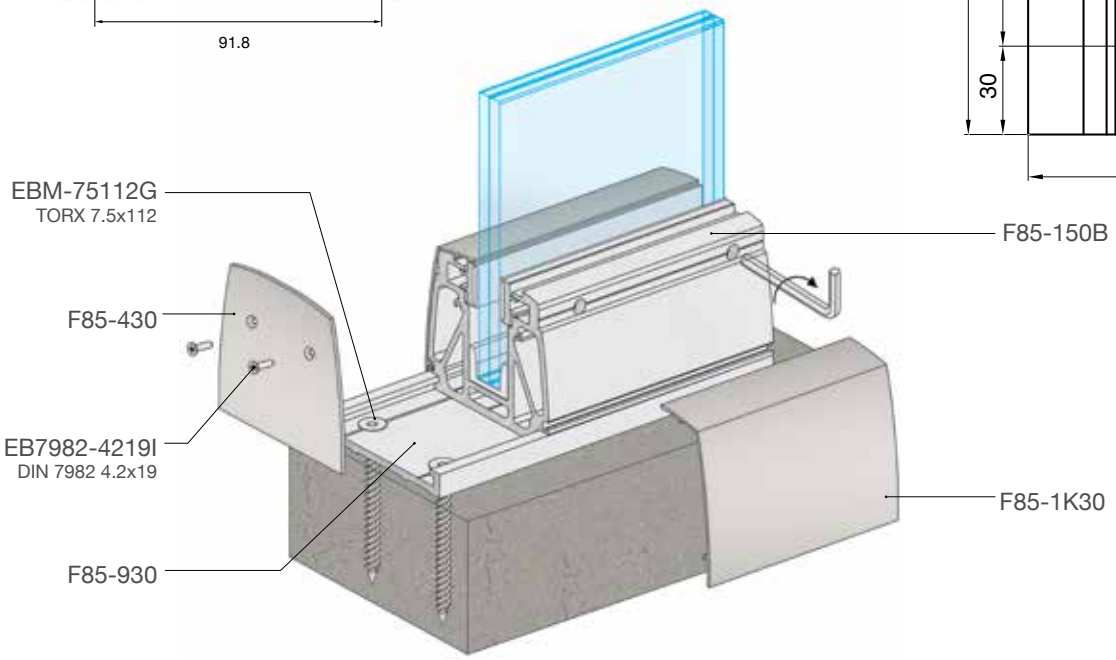
**Fissaggio pinze**

| F85-150B/16 | F85-150B/20 |
|---|---|



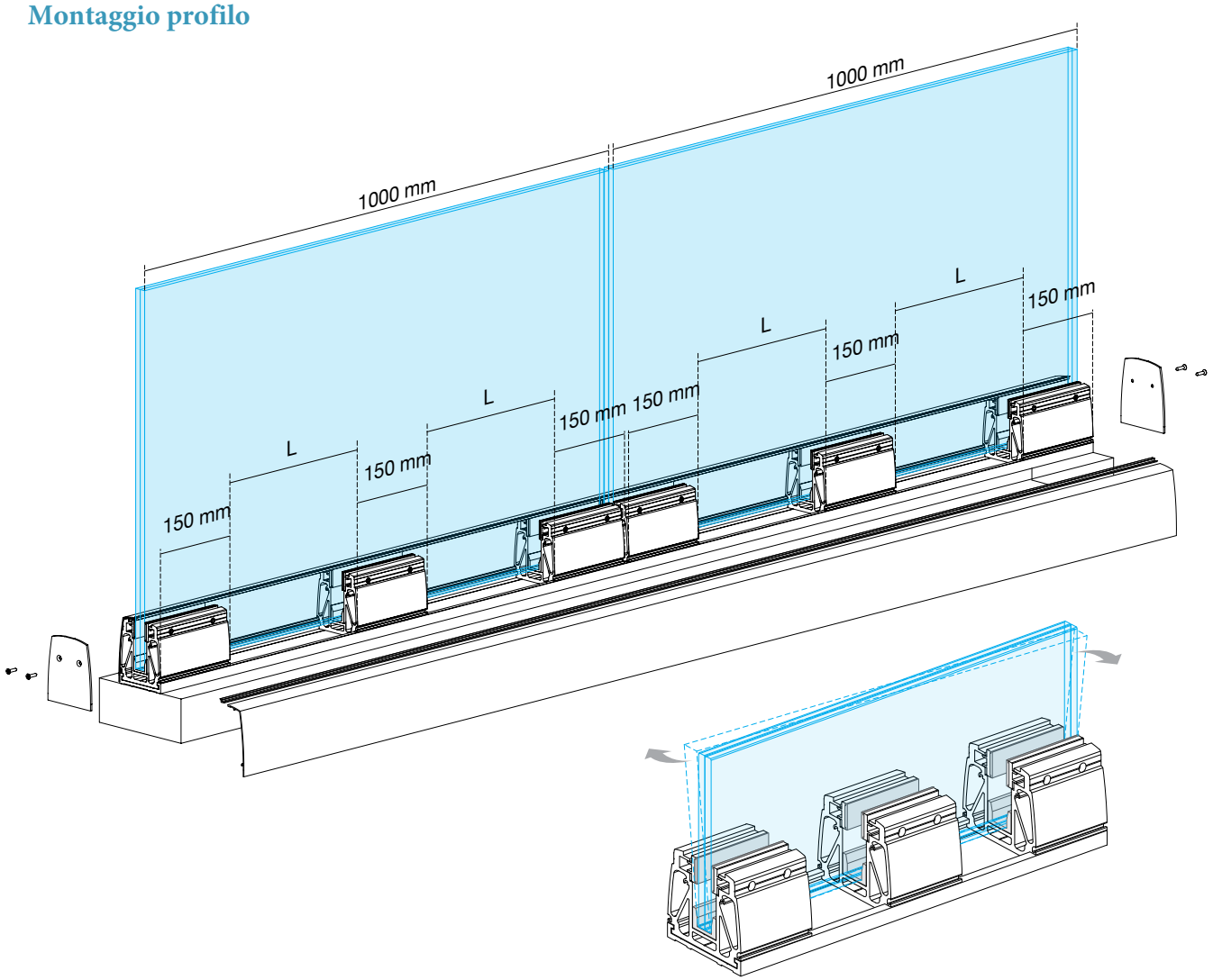

EB912-1070
DIN 912 M10x70






| Tipologia | Tipologia vetro | Altezza Vetro_ | Categoria di carico statico (carico orizzontale) | Categoria di carico dinamico (prova di spinta) |
|---|---|---|---|---|
| Crystalline-B | 8.8.4 | 1000 mm | Privati e commerciali | Privati e commerciali |
| Crystalline-B | 8.8.2 (DG41) | 1200 mm | Uso residenziale | Uso residenziale |
| Crystalline-B | 8.8.2 (DG41) | 1200 mm | Uso residenziale con carico del vento fino a 700 Pa | Uso residenziale |
| Crystalline-B | 10.10.4 | 1200 mm | Privati e commerciali | Uso residenziale |
| Crystalline-B | 10.10.4 temperato e stratificato | 1200 mm | Privati e commerciali | Uso residenziale |

## Montaggio profilo



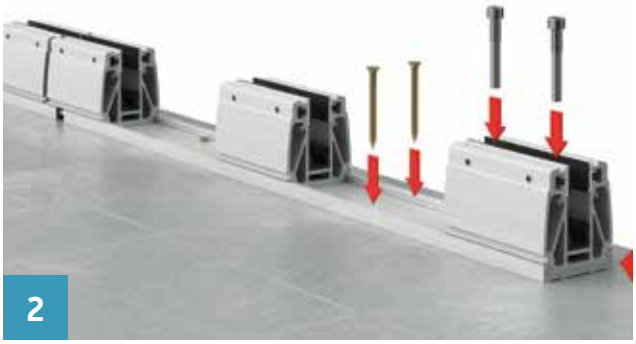



**Numero di basi raccomandate al ml**

| 8.8.4 (17.52) | | | | 10.10.4 (21.52) | | | |
|---|---|---|---|---|---|---|---|
| Altezza vetro | Corrimano | N° di basi / m | L | Altezza vetro | Corrimano | N° di basi / m | L |
| 600 mm | - | 3 | 275 mm | 600 mm | - | 3 | 275 mm |
| | F85-203 | 2 | 700 mm | | F85-203 | 2 | 700 mm |
| | F85-204 | 2 | 700 mm | | F85-204 | 2 | 700 mm |
| 1000 mm | - | 3 | 275 mm | 1000 mm | - | 3 | 275 mm |
| | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| 1100 mm | - | 4 | 133 mm | 1100 mm | - | 4 | 133 mm |
| | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| 1200 mm | - | 5 | 62.5 mm | 1200 mm | - | 5 | 62.5 mm |
| | F85-203 | 4 | 133 mm | | F85-203 | 4 | 133 mm |
| | F85-204 | 4 | 133 mm | | F85-204 | 4 | 133 mm |

## Fasi di montaggio







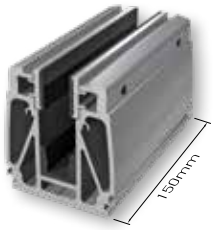








Basi per vetro

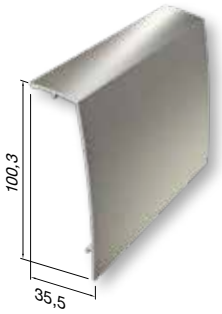



| Basi per vetro | |
|---|---|
| Cod | **F85-150B/01/16** (per vetro 16 mm)<br>**F85-150B/03/16** (8.8.4) |
| Conf. | 12 pz |

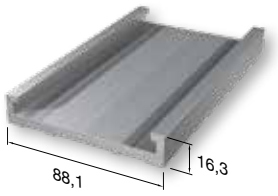



| Basi per vetro | |
|---|---|
| Cod | **F85-150B/02/20** (per vetro 20 mm)<br>**F85-150B/04/20** (10.10.4) |
| Conf. | 12 pz |

## Profili & accessori




| Cover per basi | |
|---|---|
| Cod | **F85-1K30** |
| Peso | 559 gr/m |
| Lunghezza | 6 m |




| Profilo per basi vetro | |
|---|---|
| Cod | **F85-930** |
| Peso | 1565 gr/m |
| Lunghezza | 6 m |

*Disponibile solo in Ral 9006*

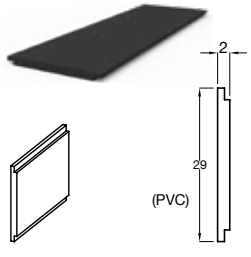



| Tappo finale cieco | |
|---|---|
| Cod | **F85-430** |
| Conf. | 20 pz |



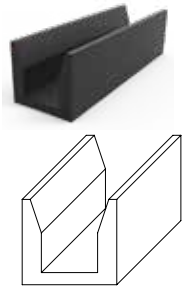

| Tappo scarico acqua | |
|---|---|
| Cod | **F85-430L** (8.8.4)<br>**F85-430M** (10.10.4) |
| Conf | 20 pz |

## Guarnizioni



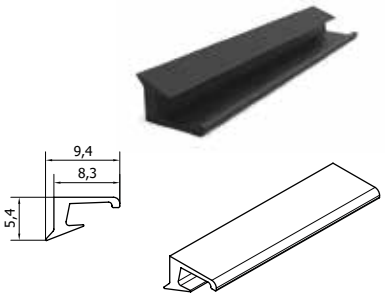

| Guarnizioni laterali | |
|---|---|
| Cod | **F85-421 (F85-431)** |
| Lunghezza | 150 m |

*Inclusi nelle basi F85-150B ma disponibili separatamente*



| Guarnizioni di supporto vetro | |
|---|---|
| Cod | **F85-427** (8.8.4)<br>**F85-432** (per vetro16 mm)<br>**F85-433** (per vetro 20 mm)<br>**F85-420** (per vetro10.10.4) |

*Inclusi nelle basi F85-150B ma disponibili separatamente*




| Guarnizione per base | |
|---|---|
| Cod | **F85-434** |
| Lunghezza | 250 m |

*L'uso di questa guarnizione speciale è consigliata solo per il montaggio di un vetro 8 mm+4PVB+8 mm e 16mm*



# C2·line

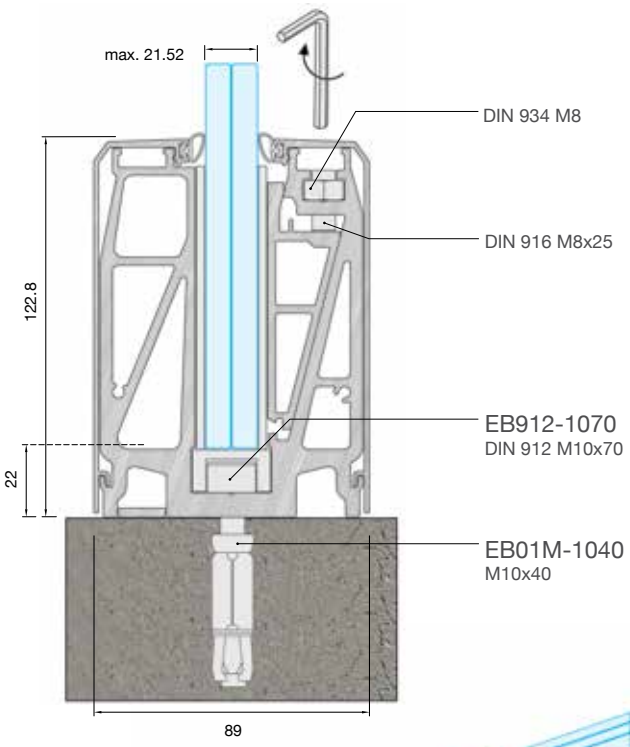
39
Info

## Sistema su pavimento




C2•line

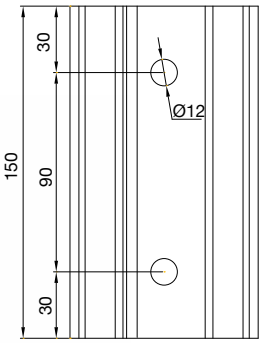


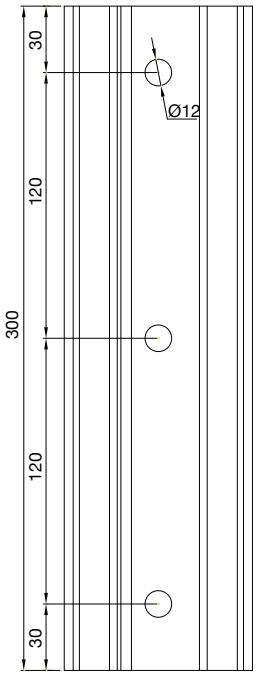


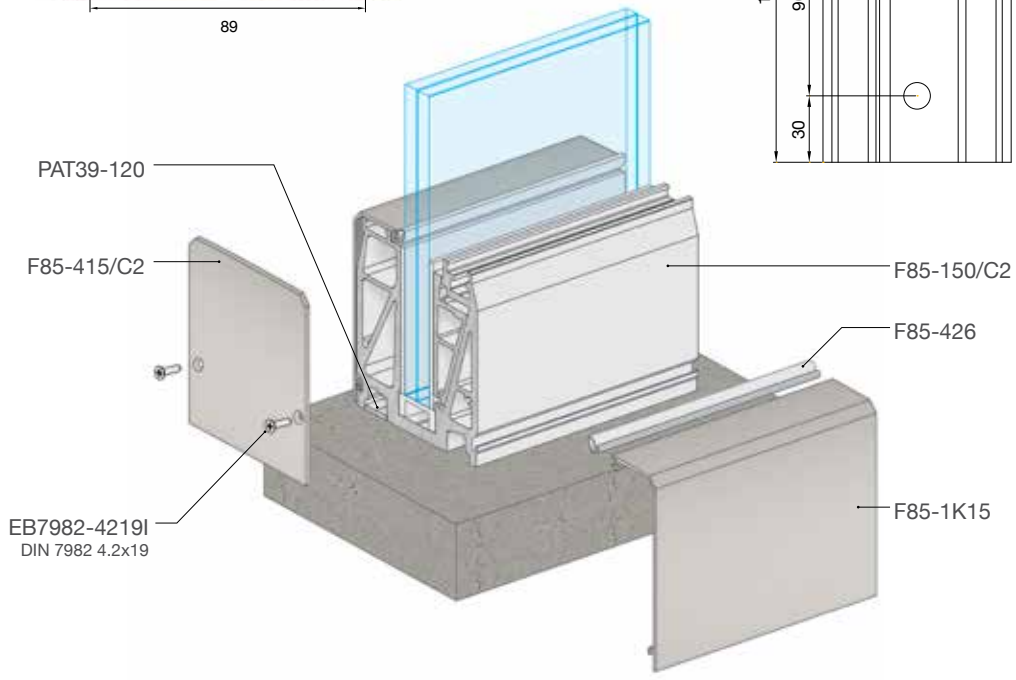

| Tipologia vetro **C2** |
|---|
| 8.8.4 (17.52) |
| 10.10.4 (21.52) |

**Fori pinze**

| | |
|---|---|
| **F85-150C2/16**<br>**F85-150C2/20** | **F85-300C2/16**<br>**F85-300C2/20** |



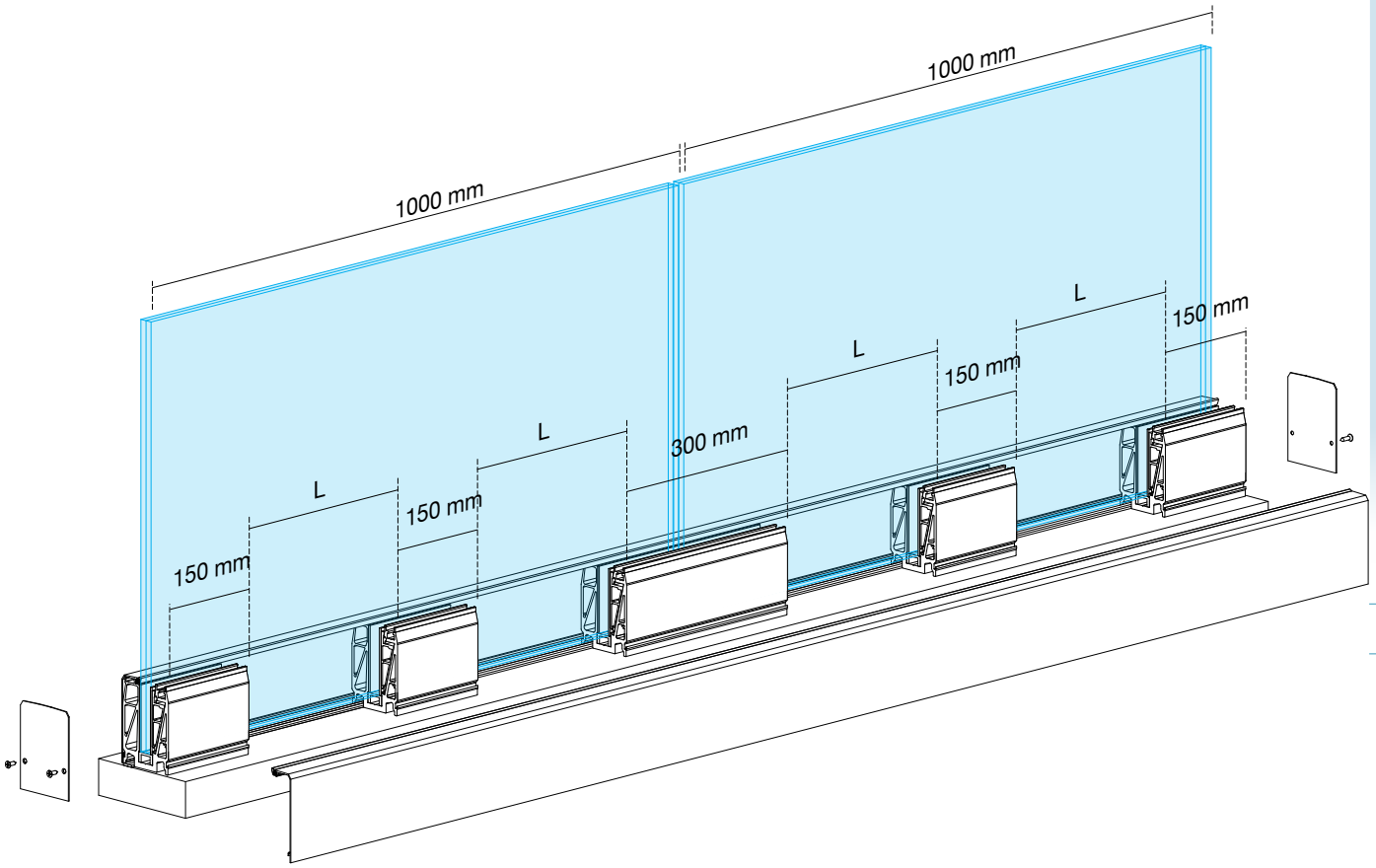






| Tipologia Ringhiera | Tipologia vetro | Altezza Ringhiera | Categoria di resistenza al carico statico (carico orizzontale) | Categoria di resistenza al carico dinamico ( prova di spinta) |
|---|---|---|---|---|
| Crystalline-C2 | 8.8.4 | 1000 mm | Privato e commerciale | Privato e commerciale |
| Crystalline-C2 | 10.10.4 | 1100 mm | | Privato e commerciale |
| Crystalline-C2 | 8.8.4 | 1100 mm | Privato e commerciale | Privato e commerciale per 4,5kg ASTM -E1996 |

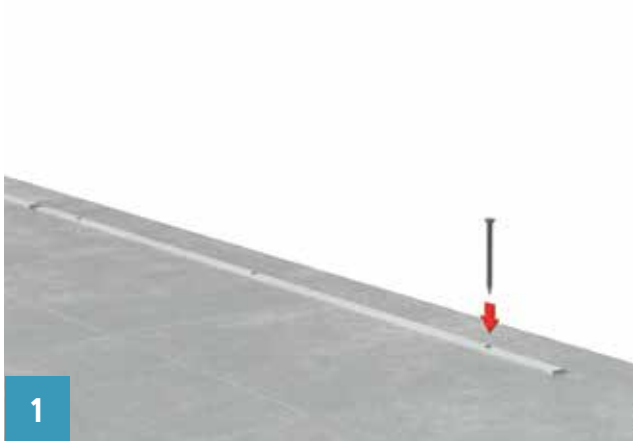
## Montaggio profilo






| Numero di basi raccomandate al metro lineare | 8.8.4 (17.52) | | | | 10.10.4 (21.52) | | | |
|---|---|---|---|---|---|---|---|---|
| | Altezza vetro | Corrimano | N° di basi | L | Altezza vetro | Corrimano | N° di basi | L |
| | 600 mm | - | 3 | 275 mm | 600 mm | - | 3 | 275 mm |
| | | F85-203 | 2 | 700 mm | | F85-203 | 2 | 700 mm |
| | | F85-204 | 2 | 700 mm | | F85-204 | 2 | 700 mm |
| | 1000 mm | - | 3 | 275 mm | 1000 mm | - | 3 | 275 mm |
| | | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| | 1100 mm | - | 4 | 133 mm | 1100 mm | - | 4 | 133 mm |
| | | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| | 1200 mm | - | 5 | 62.5 mm | 1200 mm | - | 5 | 62.5 mm |
| | | F85-203 | 4 | 133 mm | | F85-203 | 4 | 133 mm |
| | | F85-204 | 4 | 133 mm | | F85-204 | 4 | 133 mm |

## Fasi di montaggio













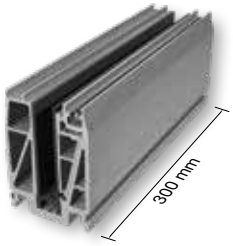





## Basi di supporto vetro



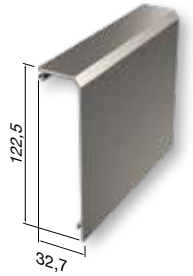

| Base di supporto vetro | |
|---|---|
| Cod | **F85-150C2/16** (8.8.4)<br>**F85-150C2/20** (10.10.4) |
| Conf. | 12 pz |




| Base di supporto vetro | |
|---|---|
| Cod | **F85-300C2/16** (8.8.4)<br>**F85-300C2/20** (10.10.4) |
| Conf. | 6 pz |

## Accessori & guarnizioni





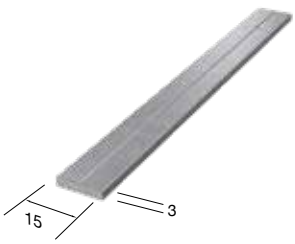

| Cover per basi | |
|---|---|
| Cod | **F85-1K15** |
| Peso | 705 gr/m |
| Lunghezza | 6 m |



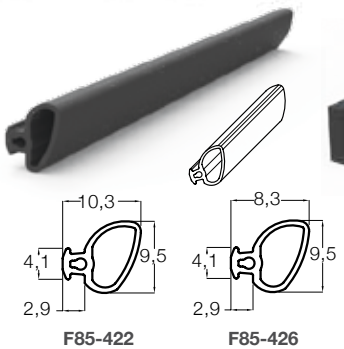

| Tappo finale cieco | |
|---|---|
| Cod | **F85-415/C2** |
| Conf. | 20 pz |



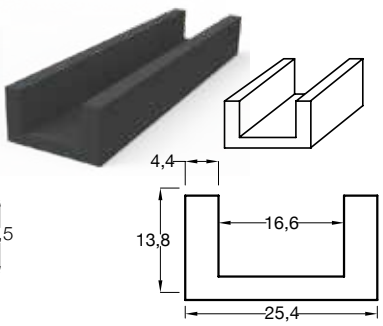

| Tappo per scarico acqua | |
|---|---|
| Cod | **F85-415/C2 L** (8.8.4)<br>**F85-415/C2 M** (10.10.4) |
| Conf. | 20 pz |




| Profilo di allineamento | |
|---|---|
| Cod | **PAT39-120** |
| Peso | 121 gr/m |
| Lunghezza | 6 m |

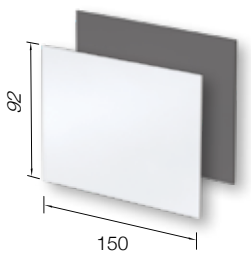



| Guarnizione per cover F85-1K15 | |
|---|---|
| Cod | **F85-422** (8.8.4)<br>**F85-426** (10.10.4) |



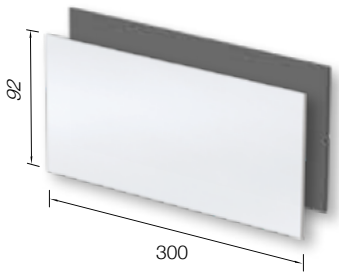

| Guarnizione di supporto vetro | |
|---|---|
| Cod | **F85-436** |

*Inclusi nelle basi F85-150/300C ma disponibili separatamente*




| Foglio PVC | |
|---|---|
| Cod | **F85-E020** ● (1 mm)<br>**F85-E022** ● (3 mm) |
| Colore | bianco/nero |
| Lunghezza | 150 mm |

*Inclusi nelle basi F85-150C ma disponibili separatamente*




| Foglio PVC | |
|---|---|
| Cod | **F85-E021** ● (1 mm)<br>**F85-E023** ● (3 mm) |
| Colore | Bianco/nero |
| Lunghezza | 300 mm |

*Inclusi nelle basi F85-300C ma disponibili separatamente*



C2u·line

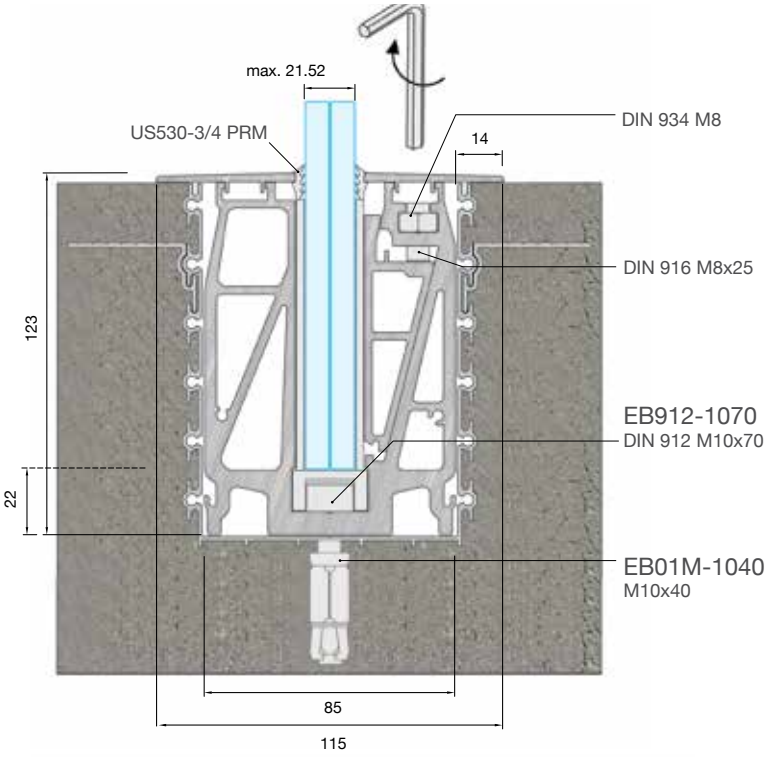


# Supporto interrato

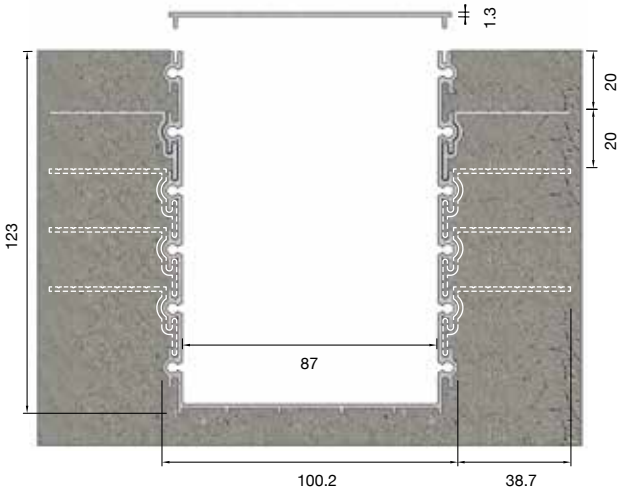



C2u•line

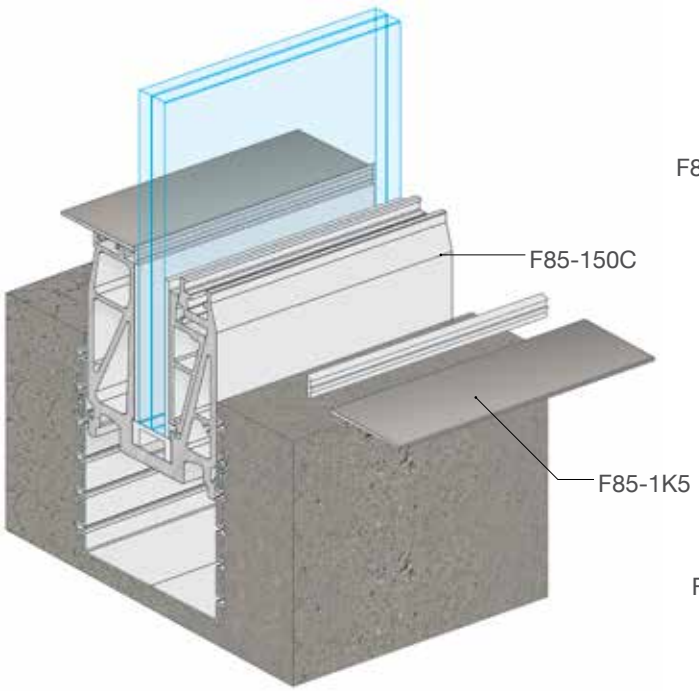


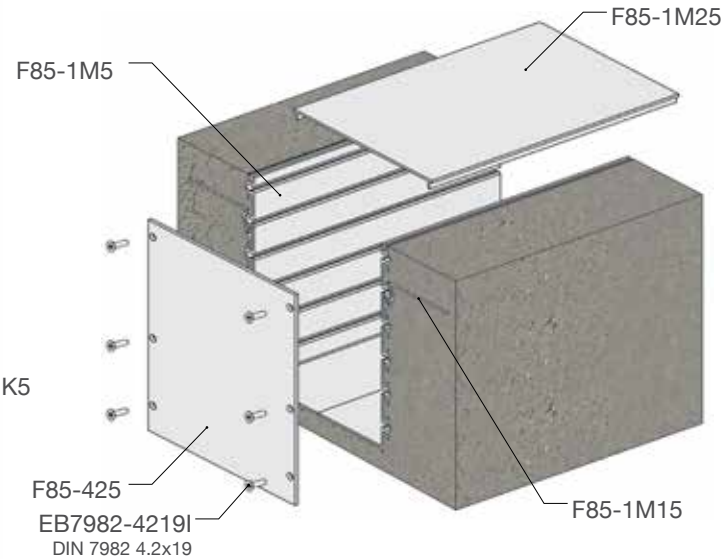



| Tipologia vetro **C2** |
|---|
| 8.8.4 (17.52) |
| 10.10.4 (21.52) |

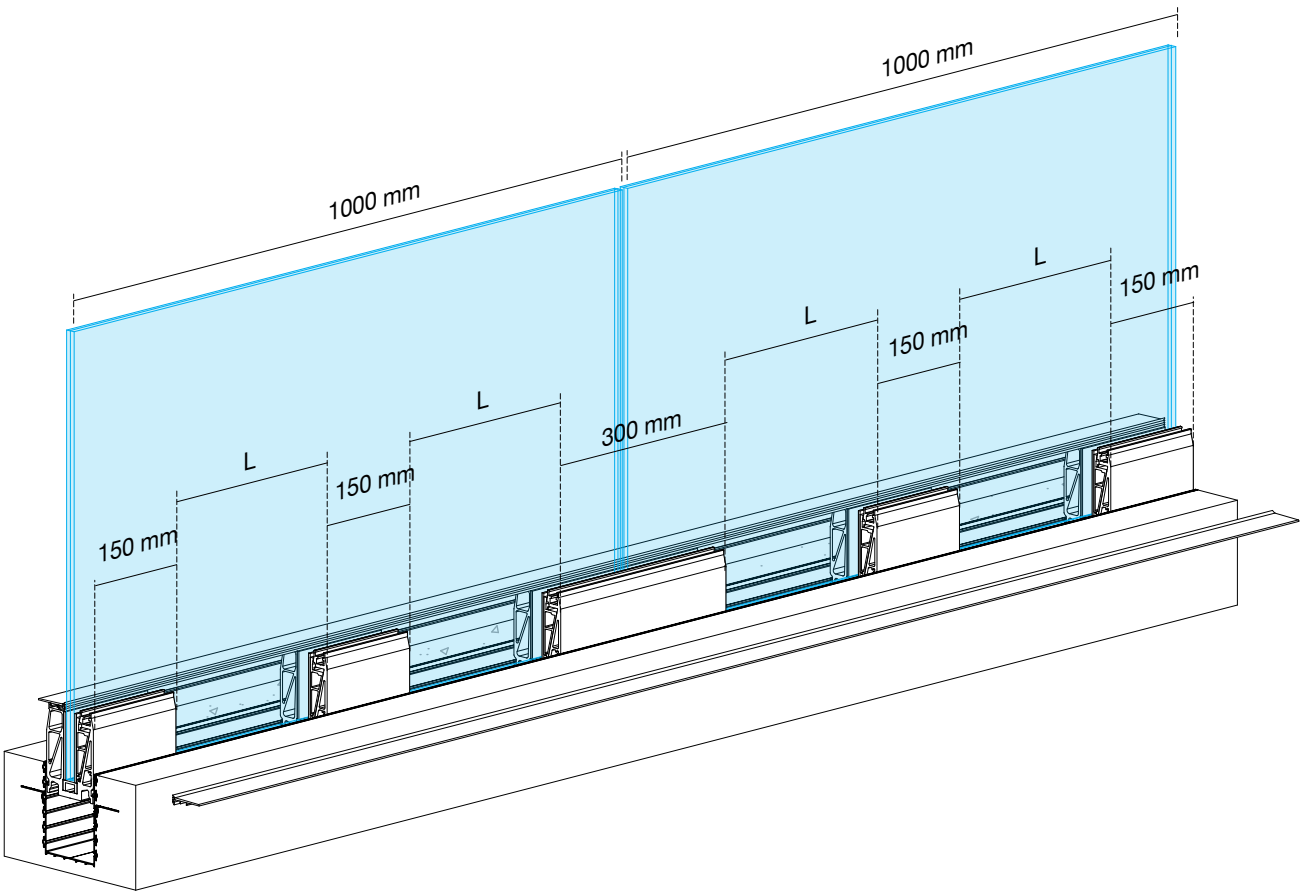




## Montaggio profilo

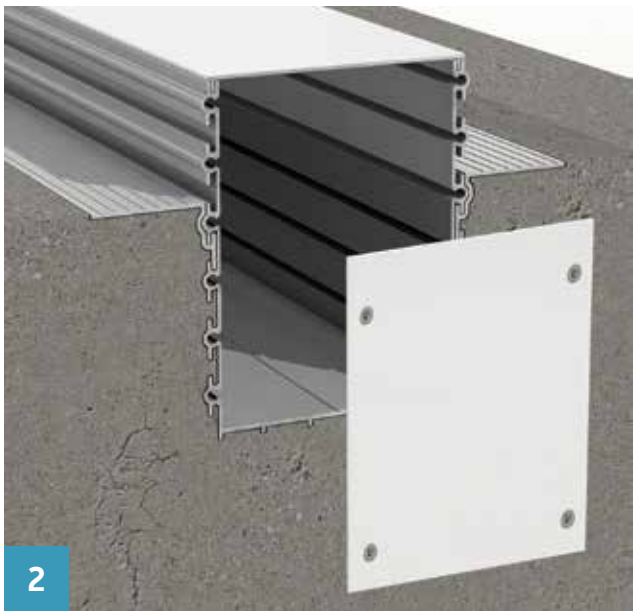




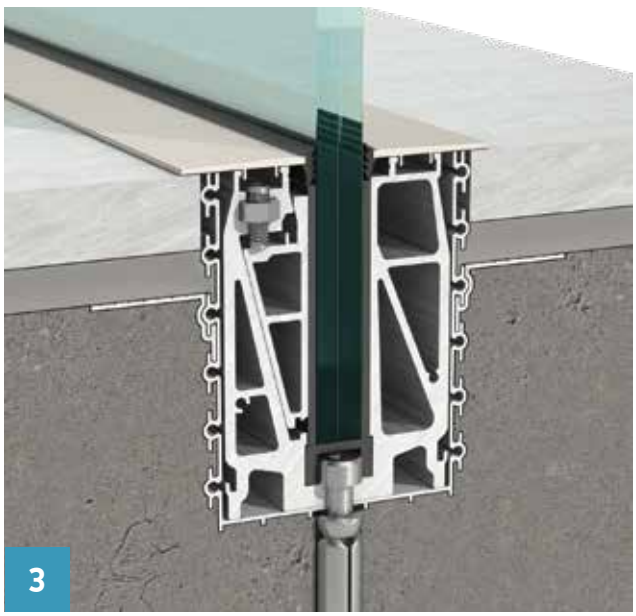

| Numero raccomandato di basi al metro lineare | 8.8.4 (17.52) | | | | 10.10.4 (21.52) | | | |
|---|---|---|---|---|---|---|---|---|
| | Altezza vetro | Corrimano | N° di basi/m | L | Altezza vetro | Corrimano | N° di basi/m | L |
| | 600 mm | - | 3 | 275 mm | 600 mm | - | 3 | 275 mm |
| | | F85-203 | 2 | 700 mm | | F85-203 | 2 | 700 mm |
| | | F85-204 | 2 | 700 mm | | F85-204 | 2 | 700 mm |
| | 1000 mm | - | 3 | 275 mm | 1000 mm | - | 3 | 275 mm |
| | | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| | 1100 mm | - | 4 | 133 mm | 1100 mm | - | 4 | 133 mm |
| | | F85-203 | 3 | 275 mm | | F85-203 | 3 | 275 mm |
| | | F85-204 | 3 | 275 mm | | F85-204 | 3 | 275 mm |
| | 1200 mm | - | 5 | 62.5 mm | 1200 mm | - | 5 | 62.5 mm |
| | | F85-203 | 4 | 133 mm | | F85-203 | 4 | 133 mm |
| | | F85-204 | 4 | 133 mm | | F85-204 | 4 | 133 mm |

## Fasi di montaggio



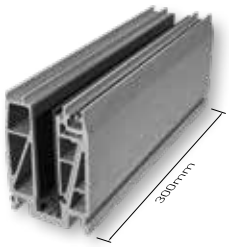





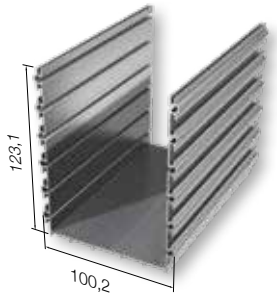






| Basi di supporto vetro | |
|---|---|
| Cod | **F85-150C2/16** (8.8.4)<br>**F85-150C2/20** (10.10.4) |
| Conf. | 12 pz |



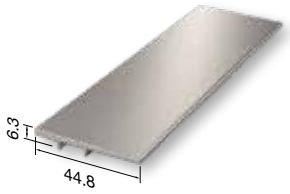

| Basi di supporto vetro | |
|---|---|
| Cod | **F85-300C2/16** (8.8.4)<br>**F85-300C2/20** (10.10.4) |
| Conf. | 6 pz |




| Guida da interrare | |
|---|---|
| Cod. | **F85-1M5** |
| Peso | 1976 gr/m |
| Lunghezza | 6 m |

## Accessori & guarnizioni

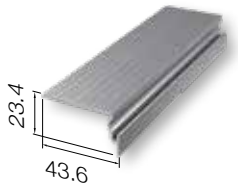




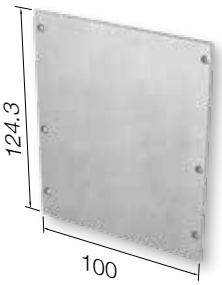

| Cover per base | |
|---|---|
| Cod | **F85-1K5** |
| Peso | 295 gr/m |
| Lunghezza | 6 m |



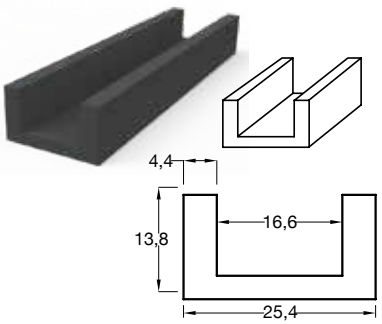

| Cover per guida interrata | |
|---|---|
| Cod | **F85-1M25** |
| Peso | 360 gr/m |
| Lunghezza | 6 m |




| Profilo supplementare per guida interrata | |
|---|---|
| Cod | **F85-1M15** |
| Peso | 281 gr/m |
| Lunghezza | 6 m |

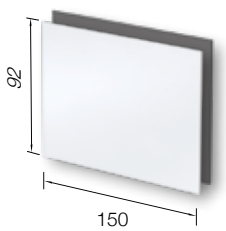



| Tappo per guida interrata | |
|---|---|
| Cod | **F85-425** |
| Conf. | 20 pz |



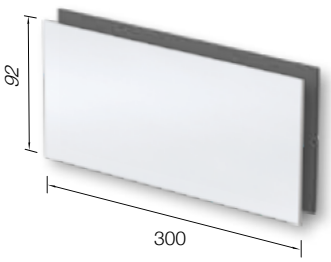

| Guarnizione di supporto vetro | |
|---|---|
| Cod | **F85-436** |

*Inclusi nelle basi F85-150/300C ma disponibili separatamente*




| Foglio in PVC | |
|---|---|
| Cod | **F85-E020** • (1 mm)<br>**F85-E022** • (3 mm) |
| Colore | Bianco/Nero |
| Lunghezza | 150 mm |

*Inclusi nelle basi F85-150C ma disponibili separatamente*




| Foglio in PVC | |
|---|---|
| Cod | **F85-E021** • (1 mm)<br>**F85-E023** • (3 mm) |
| Colore | Bianco/Nero |
| Lunghezza | 300 mm |

*Inclusi nelle basi F85-300C ma disponibili separatamente*



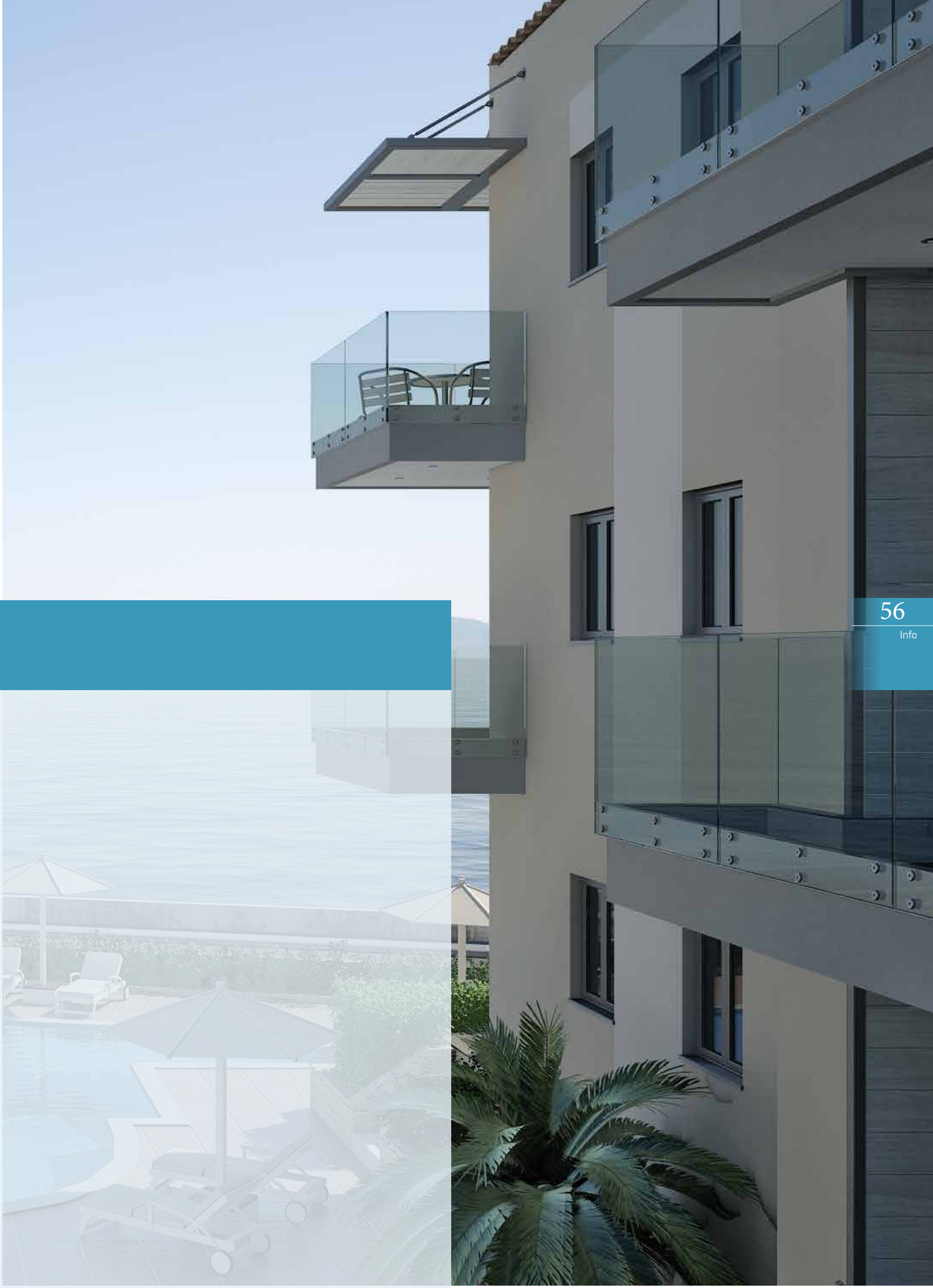
| Guarnizione per base F85-1K5 | |
|---|---|
| Cod | **US530–3PRM** (10.10.4)<br>**US530–4PRM** (8.8.4) |



# D·line

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## Sistema esterno muro





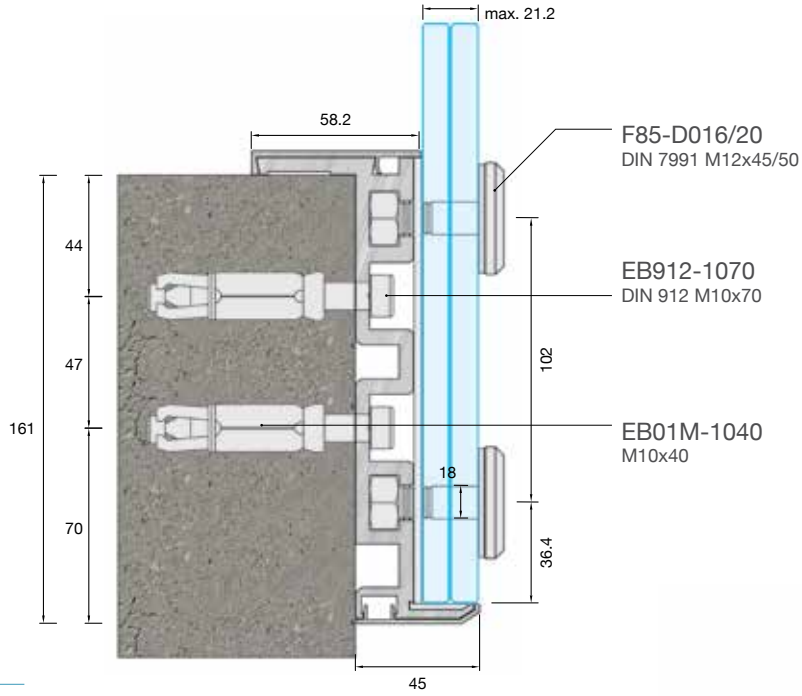



MIRANO
50%
REDUCERE
50%
REDUCERE



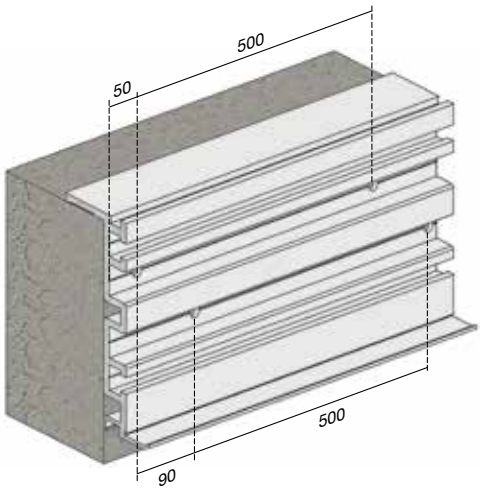


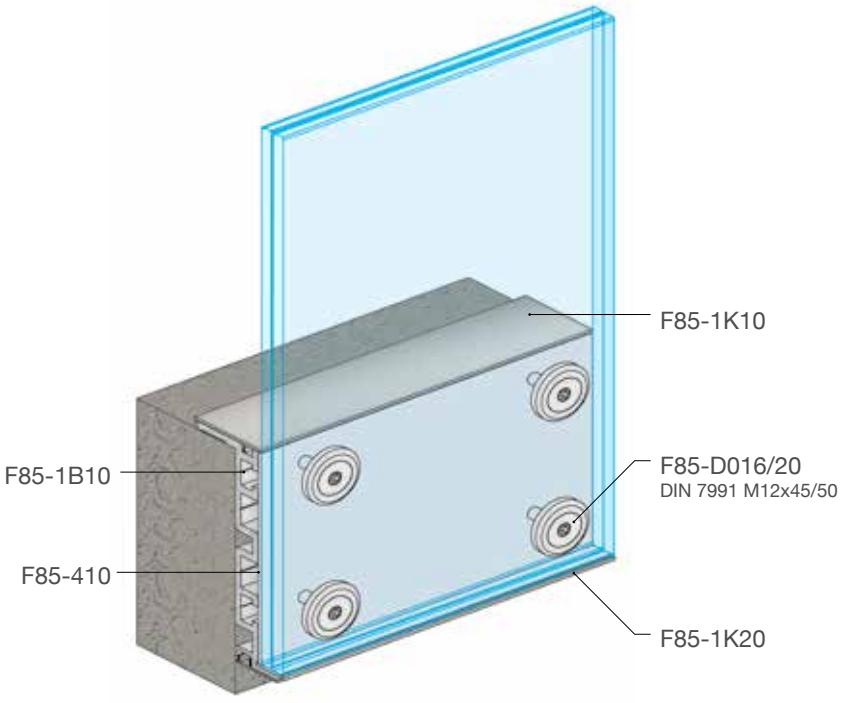

ZARA




| Tipologia vetro D |
|---|
| 8.8.4 (17.52) |
| 10.10.4 (21.52) |

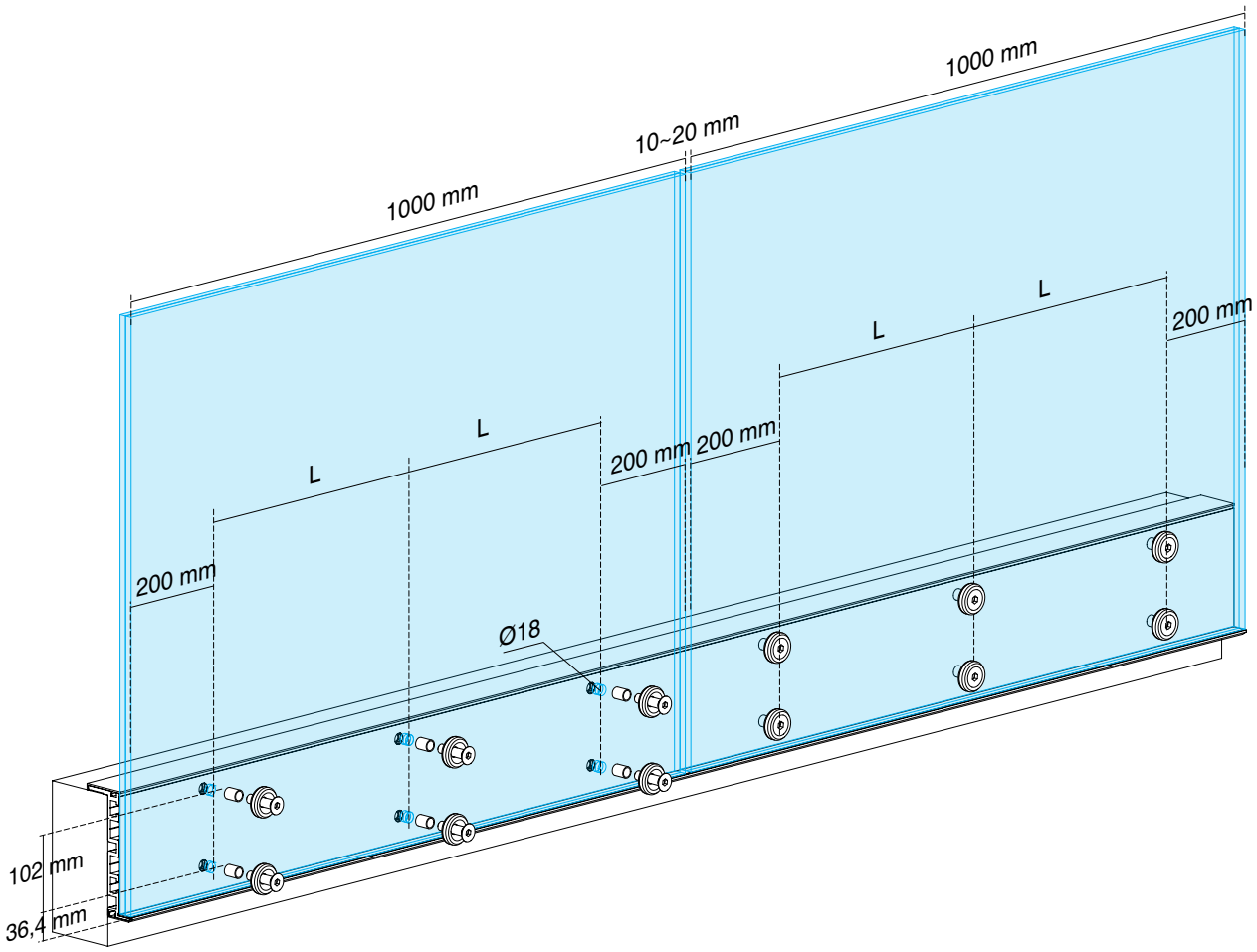





| Tipologia ringhiera | Tipologia vetro | Altezza Ringhiera | Categoria di resistenza al carico statico ( carico orizzontale) | Categoria di resistenza al carico dinamico( prova di spinta) |
|---|---|---|---|---|
| Crystalline-D | 8.8.4 | 1100 mm Vetro | Privati & commerciale | Privati & commerciale |

## Installazione






**Numero raccomandato di basi al metro lineare**

| 8.8.4 (17.52) | | | |
|---|---|---|---|
| Altezza vetro | Corrimano | N° di basi / m | L |
| 600 mm | - | 2 | 600 mm |
| | F50-200 | 2 | 600 mm |
| 1000 mm | - | 3 | 300 mm |
| | F50-200 | 2 | 600 mm |
| 1200 mm | - | 4 | 200 mm |
| | F50-200 | 3 | 300 mm |

| 10.10.4 (21.52) | | | |
|---|---|---|---|
| Altezza vetro | Corrimano | N° di basi / m | L |
| 600 mm | - | 2 | 600 mm |
| | F50-200 | 2 | 600 mm |
| 1000 mm | - | 3 | 300 mm |
| | F50-200 | 2 | 600 mm |
| 1100 mm | - | 4 | 200 mm |
| | F50-200 | 3 | 300 mm |

## Fasi di montaggio





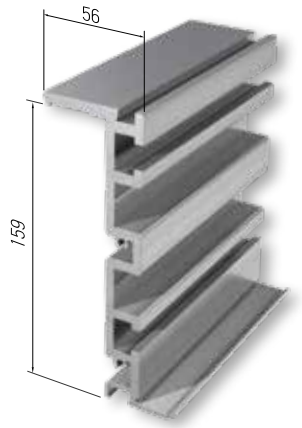






D•line

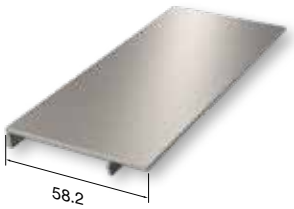
## Supporto a muro



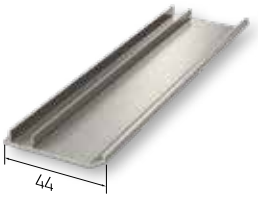

| Base a muro | |
|---|---|
| Cod | **F85-1B10** |
| Peso | 4740 gr/m |
| Lunghezza | 6 m |



## Profili & accessori



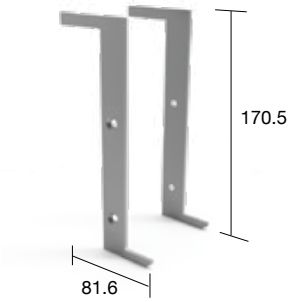

| **Cover superiore** | |
|---|---|
| Cod | **F85-1K10** |
| Peso | 366 gr/m |
| Lunghezza | 6 m |




| Cover inferiore | |
|---|---|
| Cod | **F85-1K20** |
| Peso | 220 gr/m |
| Lunghezza | 6 m |



| Supporto vetro | |
|---|---|
| Cod | **F85-D016** (8.8.4)<br>**F85-D020** (10.10.4) |
| Conf. | 20 pz |



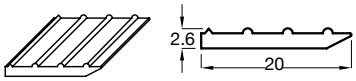

| Tappi finali | |
|---|---|
| Cod | **F85-447** |
| Peso | 70 gr/la coppia |




| Foglio PVC 1 mm | |
|---|---|
| Cod | **F85-410** |
| Colore | Bianco/nero |
| Lunghezza | 2 m |

## Guarnizione






| Guarnizione della base | |
|---|---|
| Cod | **F85-437** |
| Lunghezza | 200 m |

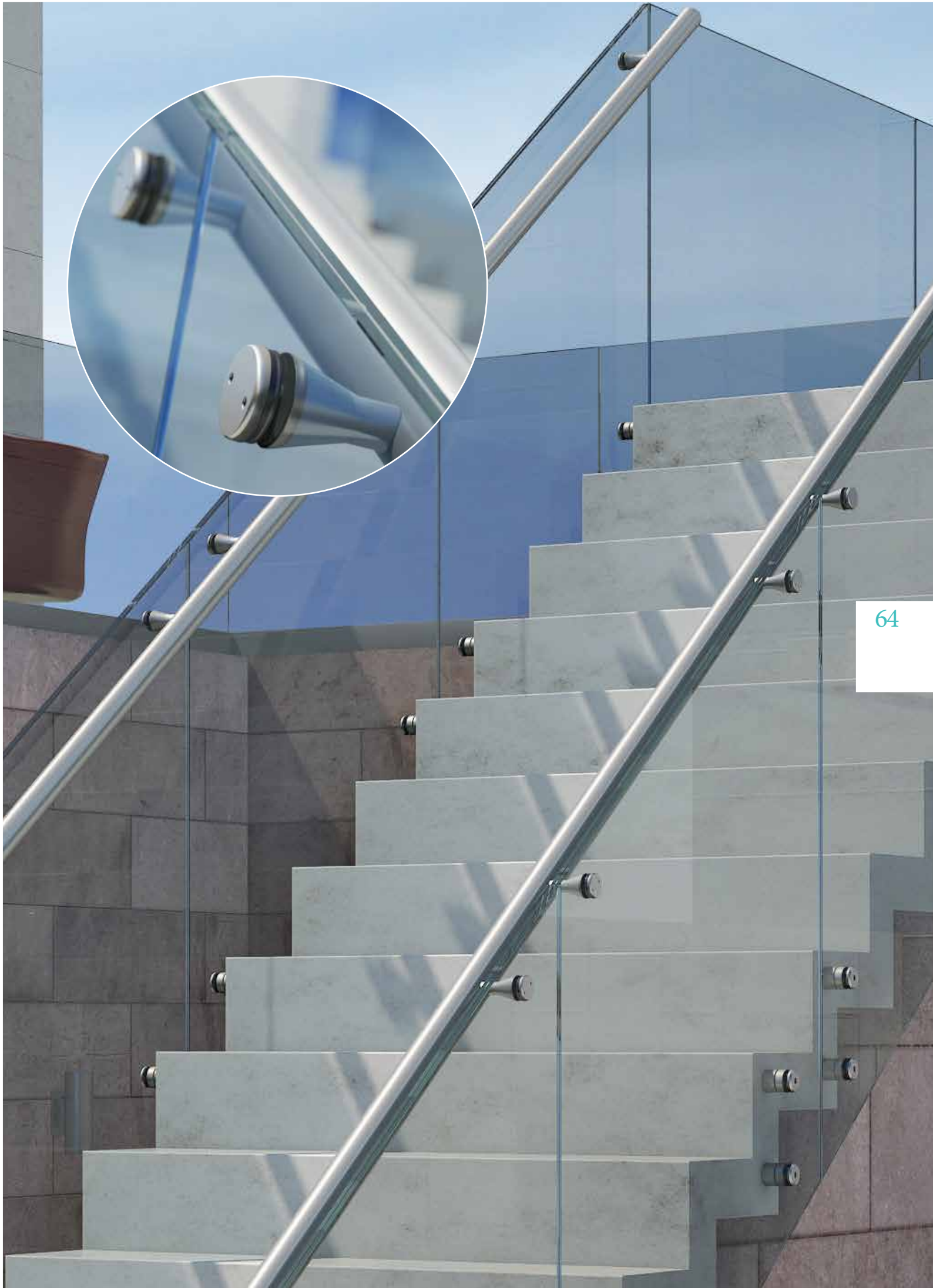


# Ds·line

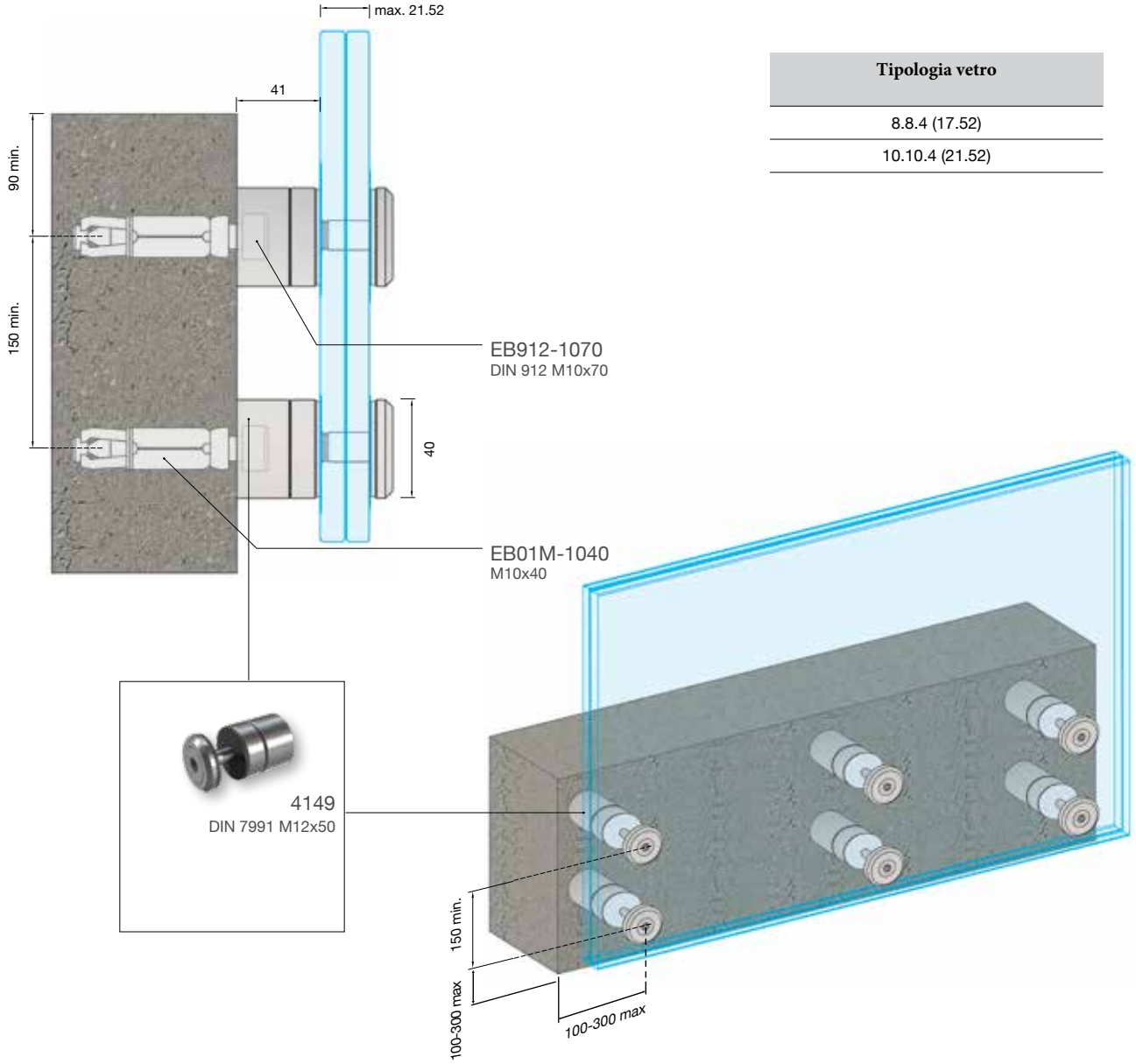
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## Sistema esterno muro



## Installazione della base

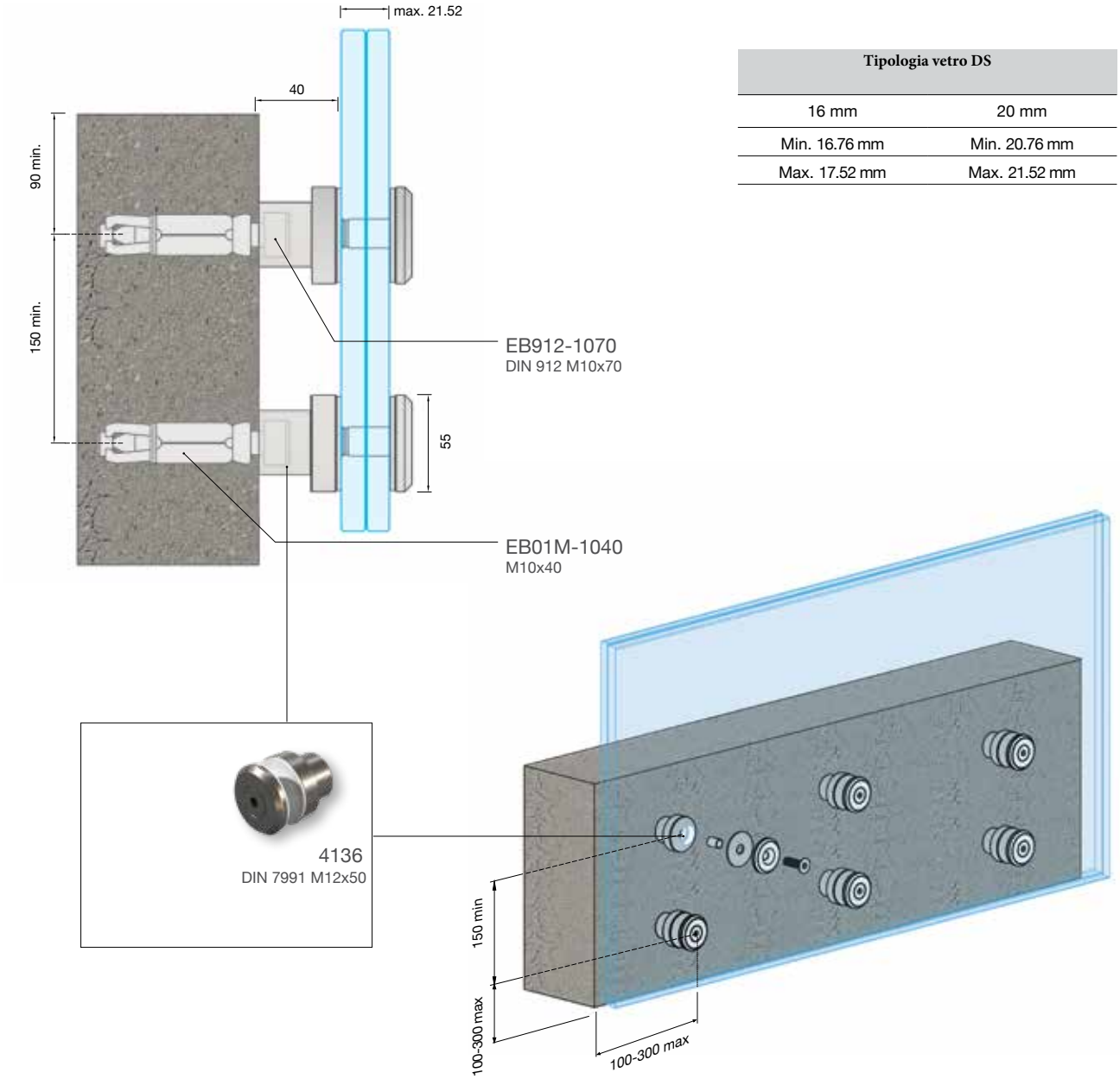



| Tipologia vetro |
|---|
| 8.8.4 (17.52) |
| 10.10.4 (21.52) |



| Tipologia Ringhiera | Tipologia vetro temperato | Altezza ringhiera | Categoria di resistenza al carico statico ( carico orizzontale) | Categoria di reesistena al carico dinamico ( prova di spinta) |
|---|---|---|---|---|
| Crystalline-Ds | 8.8.4 | 1200 mm Vetro | Privato & commerciale | Privato & commerciale |

## Installazione

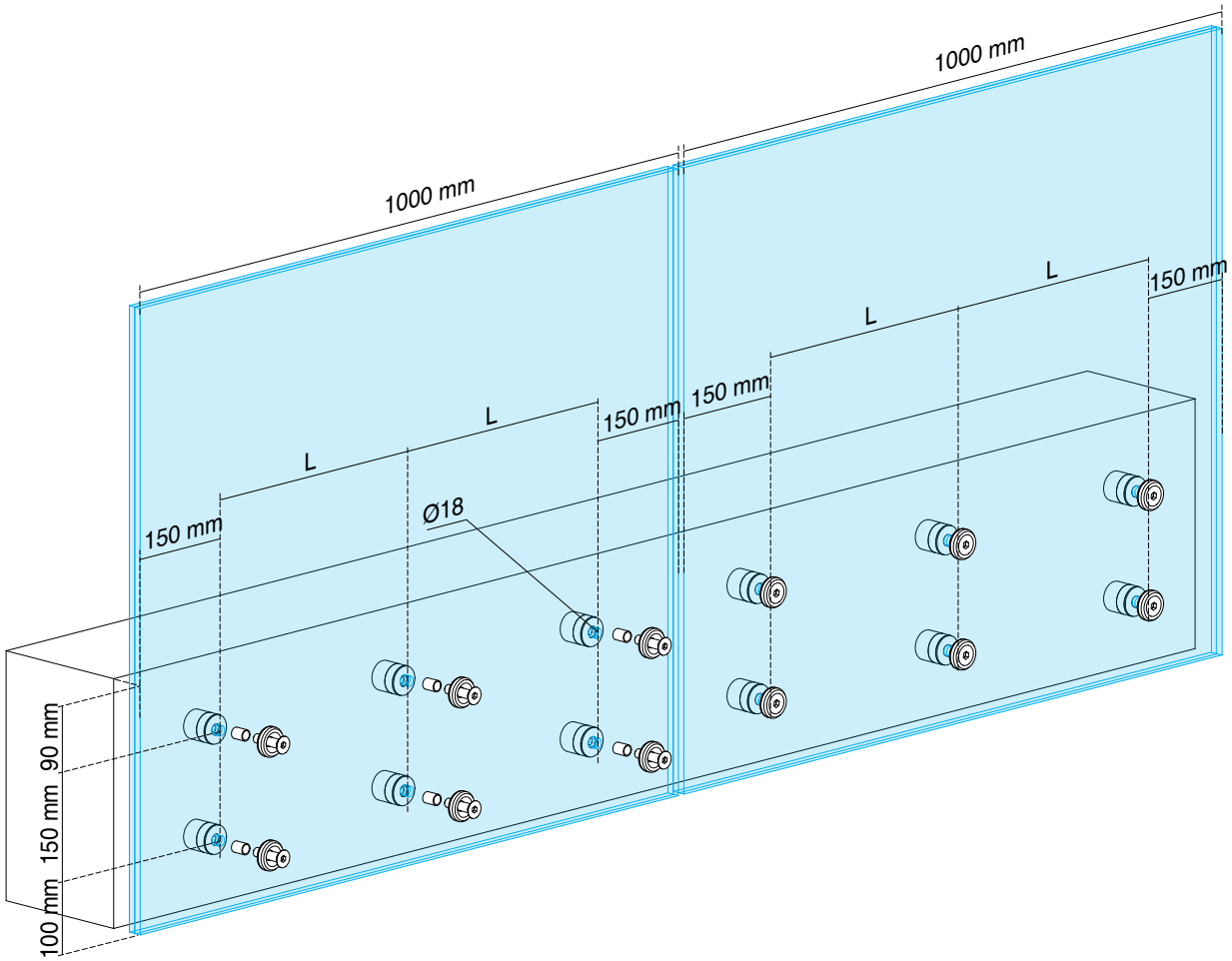



| Tipologia vetro DS | |
|---|---|
| 16 mm | 20 mm |
| Min. 16.76 mm | Min. 20.76 mm |
| Max. 17.52 mm | Max. 21.52 mm |



ATTENZIONE:
Montare il corrimano ( con 4148 o F85-451) aumenta la resistenza al carico statico

## Installazione



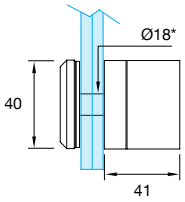



**Numero di basi raccomandate al metro lineare**

| 8.8.4 (17.52) | | | | 10.10.4 (21.52) | | | |
|---|---|---|---|---|---|---|---|
| Altezza vetro | Corrimano | N° di basi/ m | L | Altezza vetro | Corrimano | N° di basi/m | L |
| 600 mm | - | 3 | 350 mm | 600 mm | - | 3 | 350 mm |
| | F50-200 | 2 | 700 mm | | F50-200 | 2 | 700 mm |
| 1000 mm | - | 3 | 350 mm | 1000 mm | - | 3 | 350 mm |
| | F50-200 | 3 | 350 mm | | F50-200 | 3 | 350 mm |
| 1200 mm | - | 4 | 233 mm | 1100 mm | - | 4 | 233 mm |
| | F50-200 | 3 | 350 mm | | F50-200 | 3 | 350 mm |

## Accessori

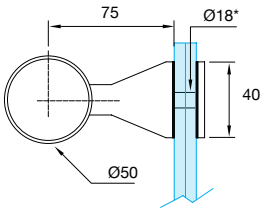





* Foro vetro

| Supporto vetro | |
|---|---|
| Cod | **4149-200*(Inox304)** (8.8.4)<br>**4149-201*(Inox316)** (10.10.4) |
| Conf. | 12 pz |



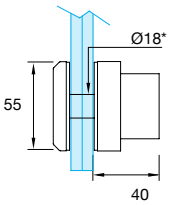



*Foro vetro

| Supporto per corrimano F50-200 | |
|---|---|
| Cod | **4148-200 (Inox 304)** (8.8.4)<br>**4148-201 (Inox 316)** (10.10.4) |
| Conf. | 12 pz |








* Foro vetro

| Supporto per fissaggio a muro Ø55 | |
|---|---|
| Cod | **4136-200* (Inox316)** (8.8.4) (10.10.4) |
| Conf. | 12 pz |



# Dc·line

69
Info

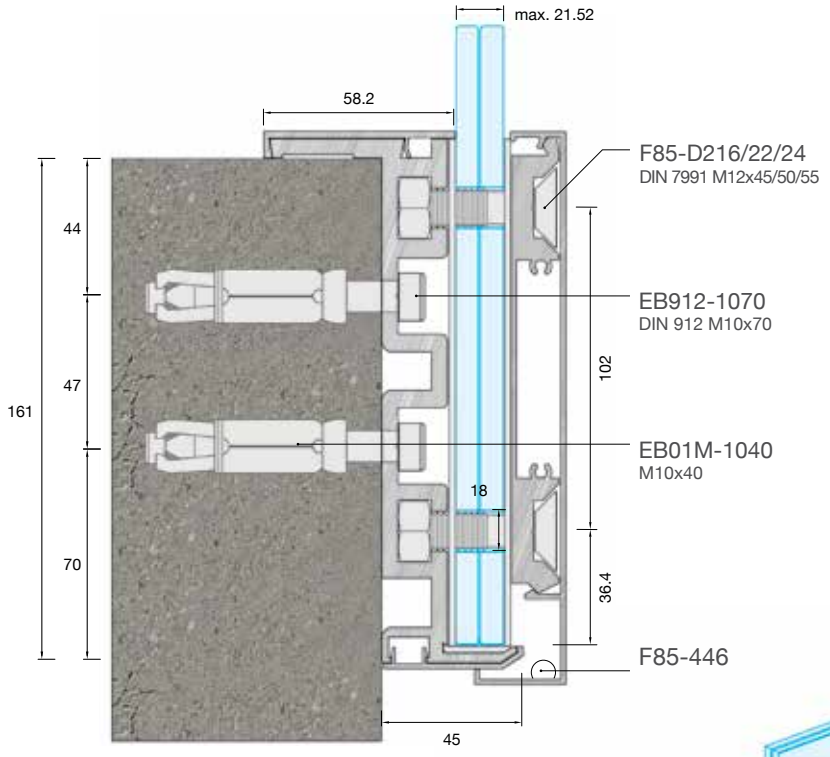
## Sistema di supporto a muro



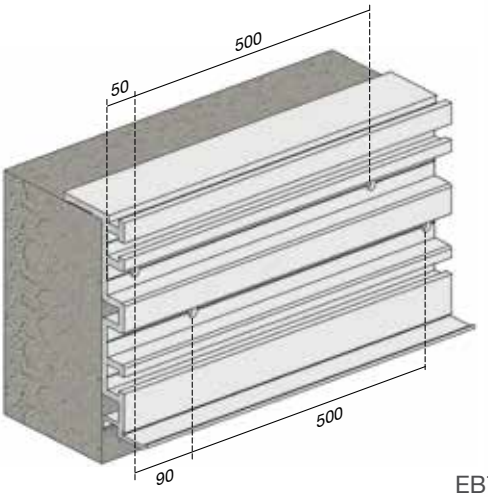

VAAGNATIE

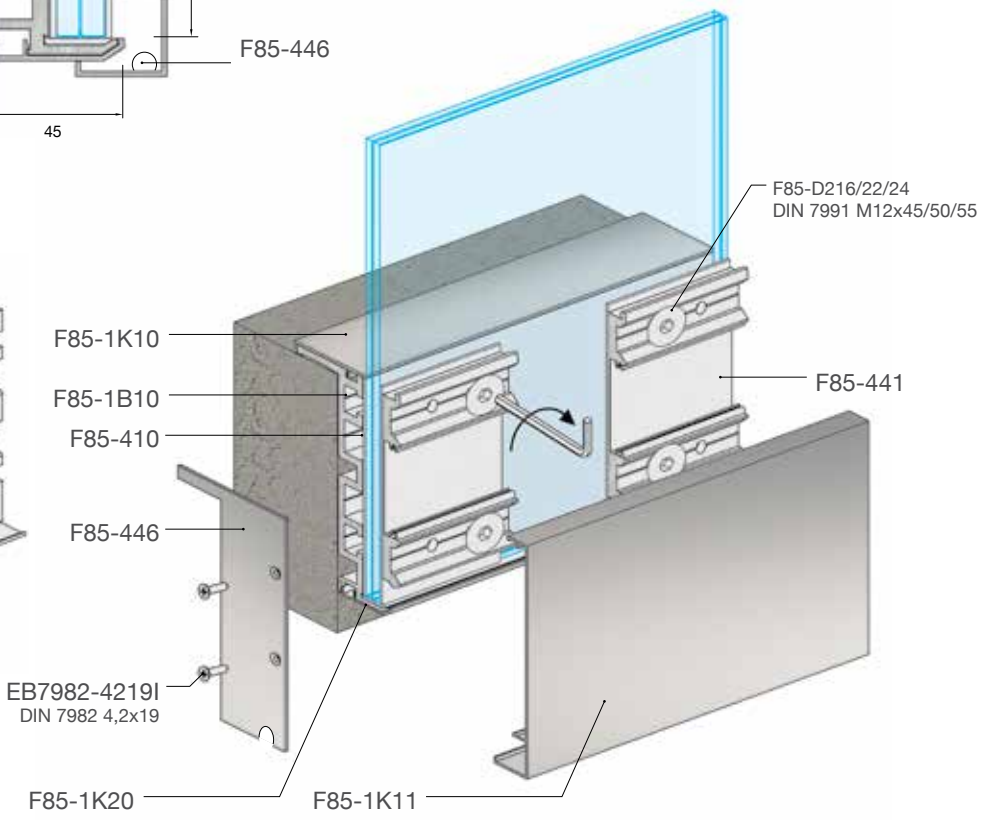
## Fissaggio delle basi

| Tipologia vetro Dc |
|---|
| 8.8.2 (16.76) |
| 10.10.2 (20.76) |

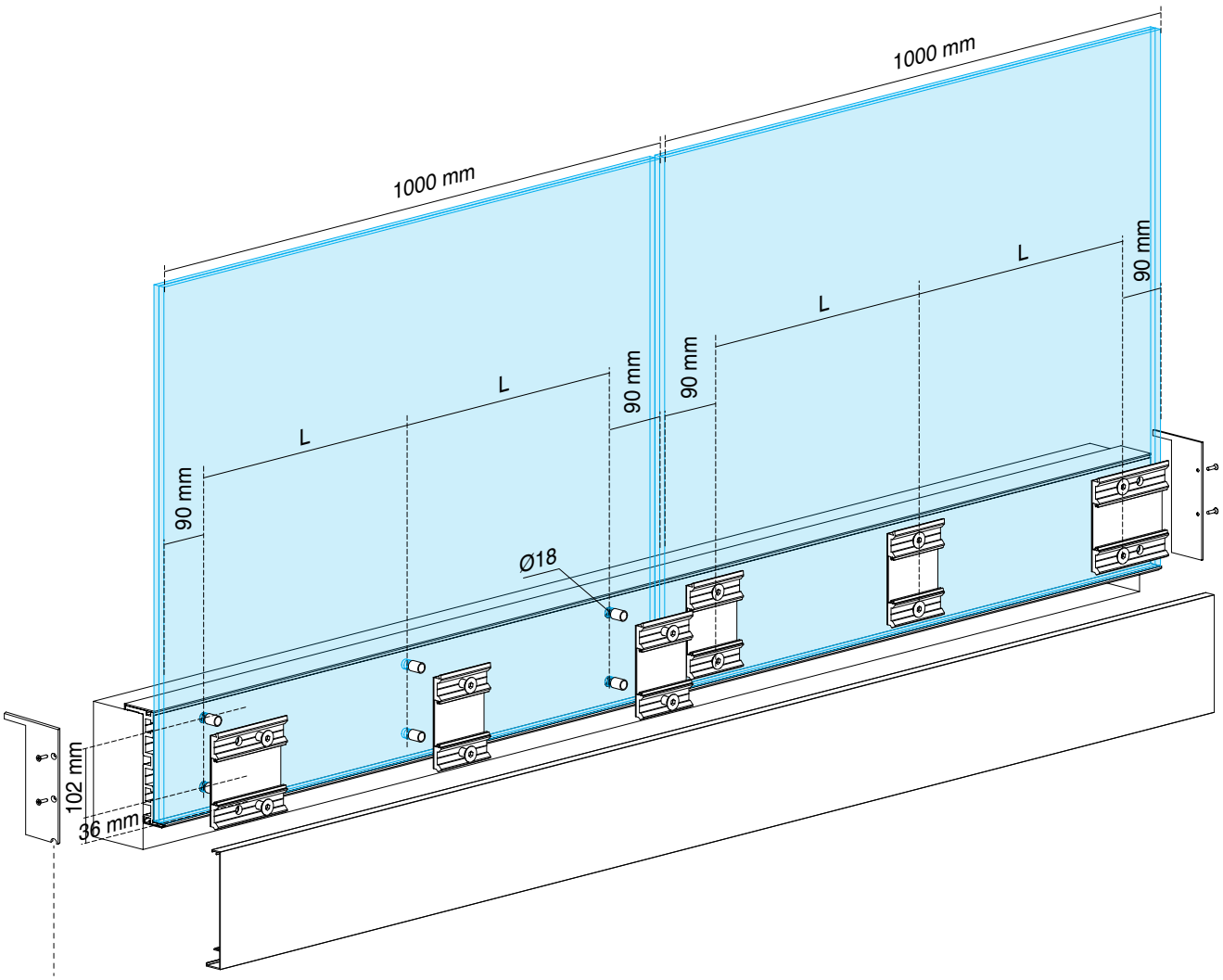




## Installazione del profilo laterale



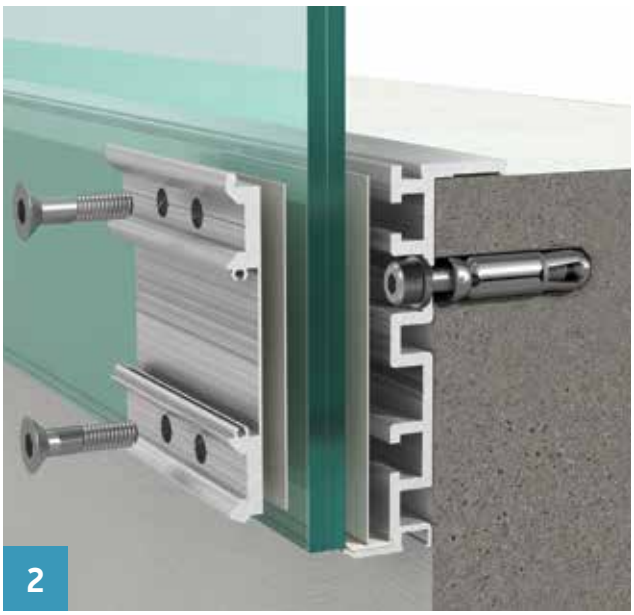

FORO Ø10
PER DRENAGGIO
ACQUA



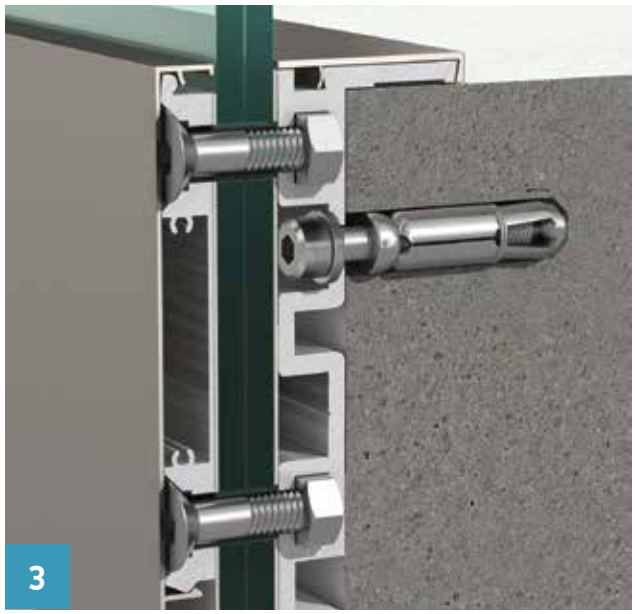
| Numero di basi raccomandate al metro lineare | 8.8.4 (17.52) | | | | 10.10.4 (21.52) | | | | 12.12.4 (25.52) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Altezza vetro | Corrimano | N° accessori/m | L | Altezza vetro | Corrimano | N° accessori/m | L | Altezza vetro | Corrimano | N° accessori/m | L |
| | 600 mm | - | 2 | 820 mm | 600 mm | - | 2 | 820 mm | 600 mm | - | 2 | 820 mm |
| | | F50-200 | 2 | 820 mm | | F50-200 | 2 | 820 mm | | F50-200 | 2 | 820 mm |
| | 1000 mm | - | 3 | 410 mm | 1000 mm | - | 3 | 410 mm | 1000 mm | - | 3 | 410 mm |
| | | F50-200 | 2 | 820 mm | | F50-200 | 2 | 820 mm | | F50-200 | 2 | 820 mm |
| | 1200 mm | - | 4 | 273 mm | 1100 mm | - | 4 | 273 mm | 1100 mm | - | 4 | 273 mm |
| | | F50-200 | 3 | 410 mm | | F50-200 | 3 | 410 mm | | F50-200 | 3 | 410 mm |

## Fasi di montaggio



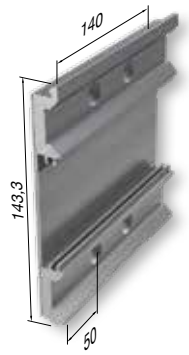





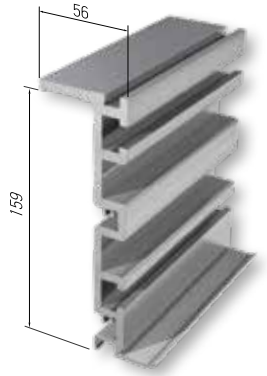






| Supporto vetro (centrale) | |
|---|---|
| Cod | **F85-440** |
| Conf. | 10 pz |




| Supporto vetro (finale) | |
|---|---|
| Cod | **F85-441** |
| Conf. | 10 pz |



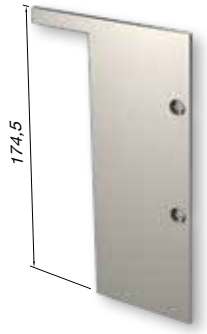

| Profilo base a muro | |
|---|---|
| Cod | **F85-1B10** |
| Peso | 4740 gr/m |
| Lunghezza | 6 m |
| Materiale | AL 6063 |

## Profili & accessori

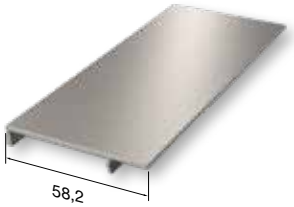





| Cover frontale | |
|---|---|
| Cod | **F85-1K11** |
| Peso | 1026 gr/m |
| Lunghezza | 6 m |



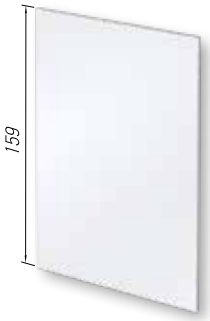

| Tappo finale | |
|---|---|
| Cod | **F85-446/16** (8.8.4)<br>**F85-446/20** (10.10.4)<br>**F85-446/24** (12.12.4) |
| Conf.. | 1 coppia |




| Cover superiore | |
|---|---|
| Cod | **F85-1K10** |
| Peso | 366 gr/m |
| Lunghezza | 6 m |




| Cover inferiore | |
|---|---|
| Cod | **F85-1K20** |
| Peso | 220 gr/m |
| Lunghezza | 6 m |

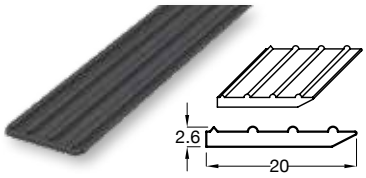



| Foglio PVC 1 mm | |
|---|---|
| Cod | **F85-410** |
| Colore | Bianco/Nero |
| Lunghezza | 2 m |



| Viti per supporti | |
|---|---|
| Cod | **F85-D216** (8.8.4)<br>**F85-D220** (10.10.4)<br>**F85-D224** (12.12.4) |
| Conf. | 20 pz |

## Guarnizione




| Guarnizione per base | |
|---|---|
| Cod | **F85-437** |
| Lunghezza | 200 m |

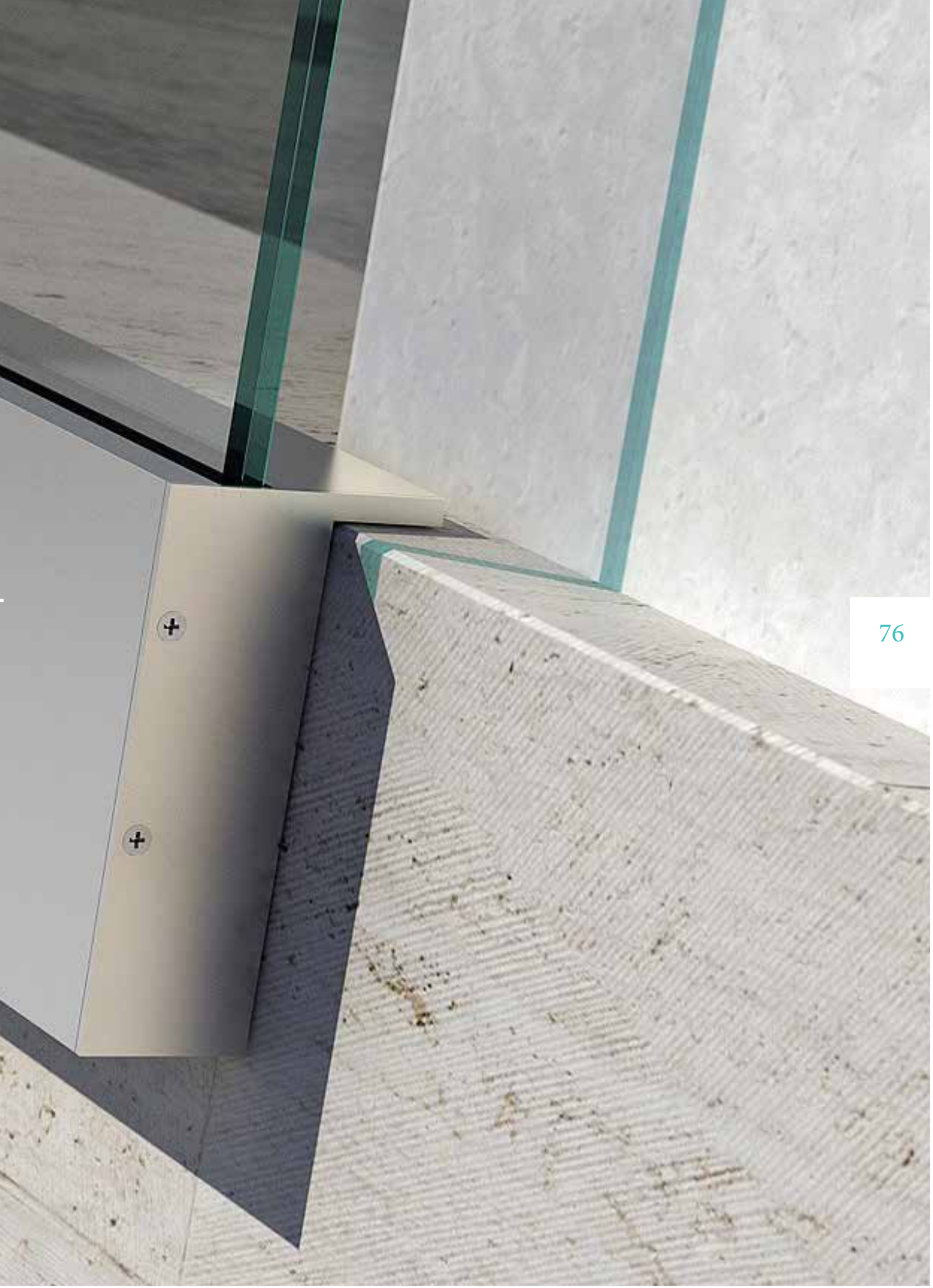


# Dc·line NO DRILL

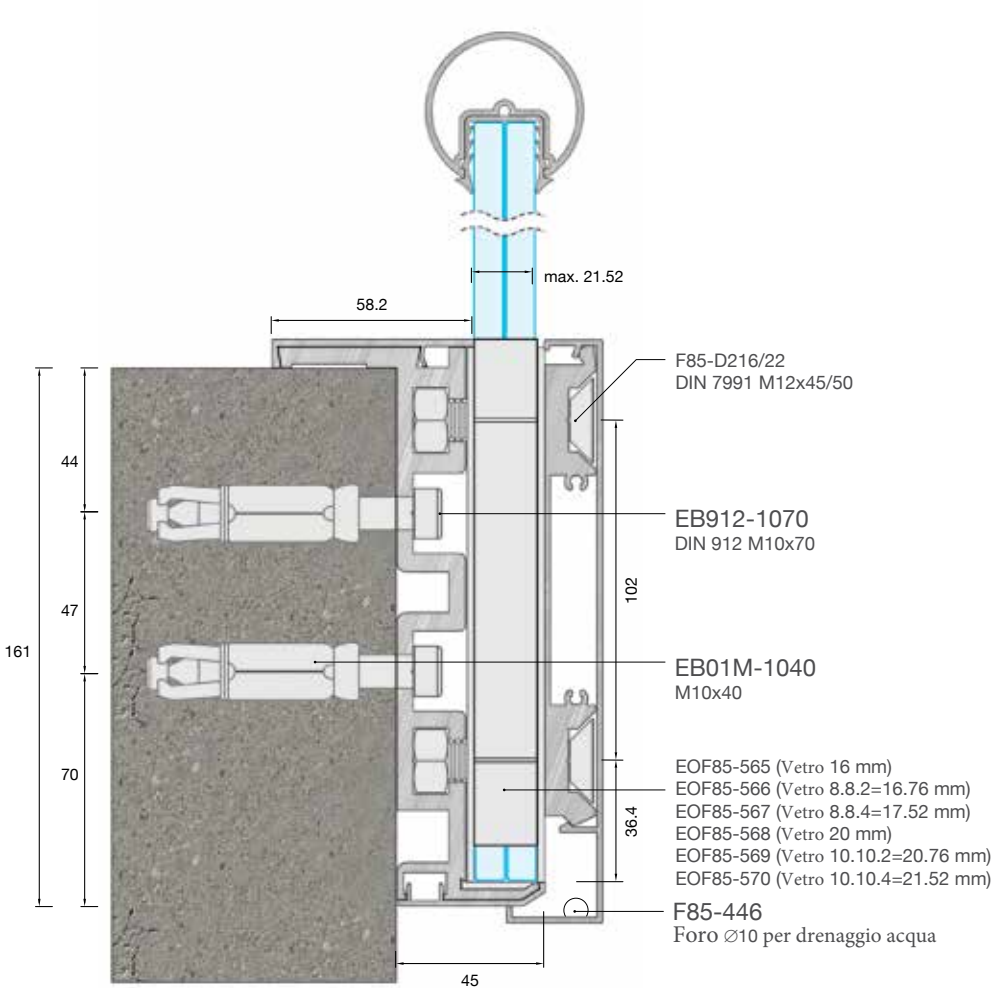
CERTIFIED BY bbri.be CERTIFIÉ PAR



Sistema esterno muro senza fori su vetro



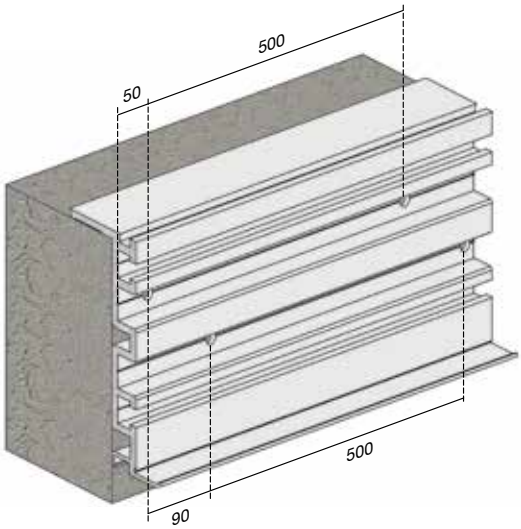
## Fissaggio delle basi



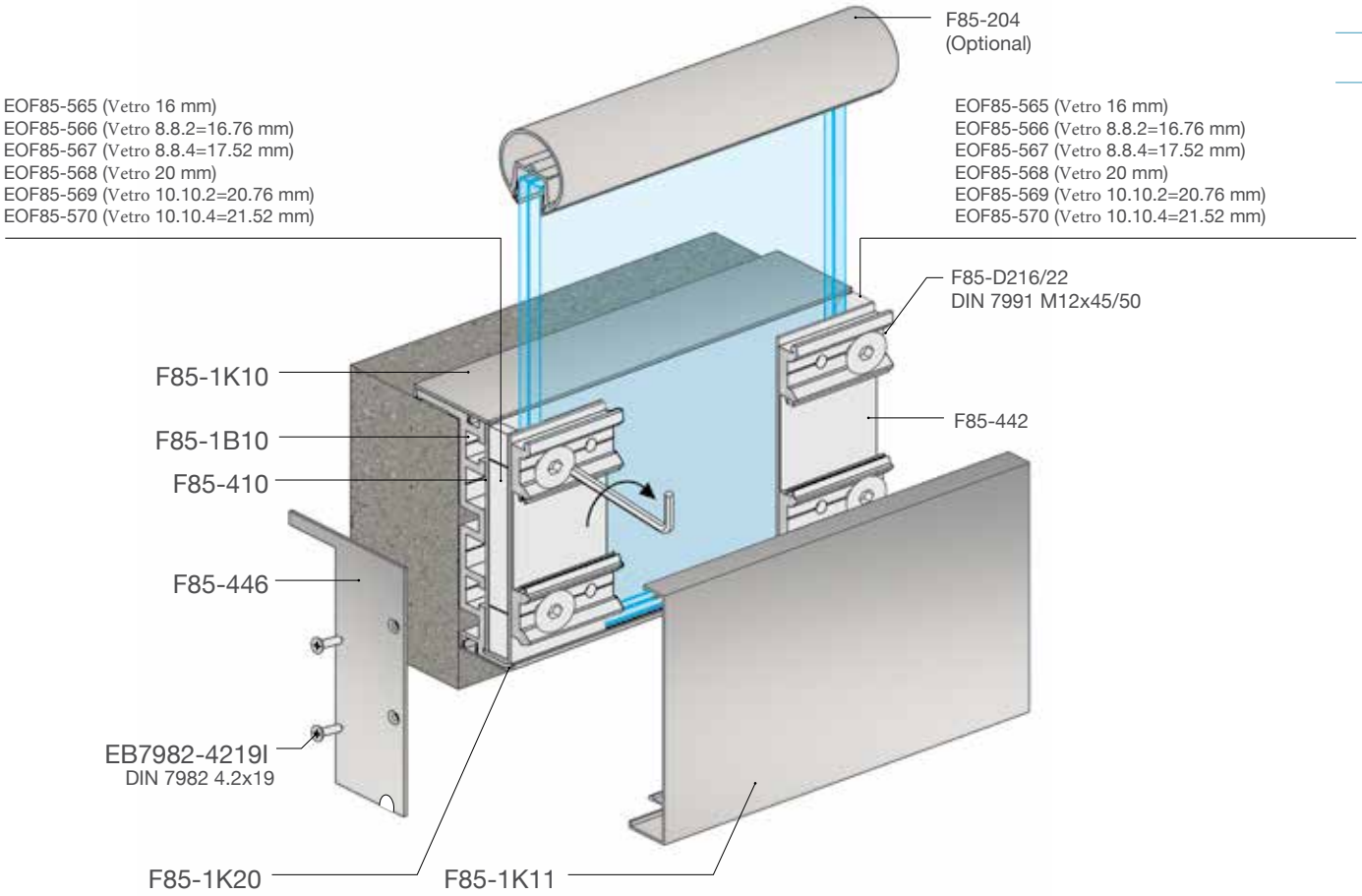

| Tipologia vetro **Dc No Drill** |
|---|
| 8.8.4 (17.52) |
| 10.10.4 (21.52) |

| Tipologia Ringhiera | Tipologia vetro | Altezza Ringhiera | Categoria di resistenza al carico statico ( carico orizzontale) | Categoria di resistenza al carico dinamico ( prova di spinta) |
|---|---|---|---|---|
| Crystalline-Dc | 8.8.2 (DG41) loat stratificato | 1360 mm Vetro | Uso residenziale | |
| Crystalline-Dc | 10.10.2 (DG41) loat stratificato | 1360 mm Vetro | Uso residenziale | |

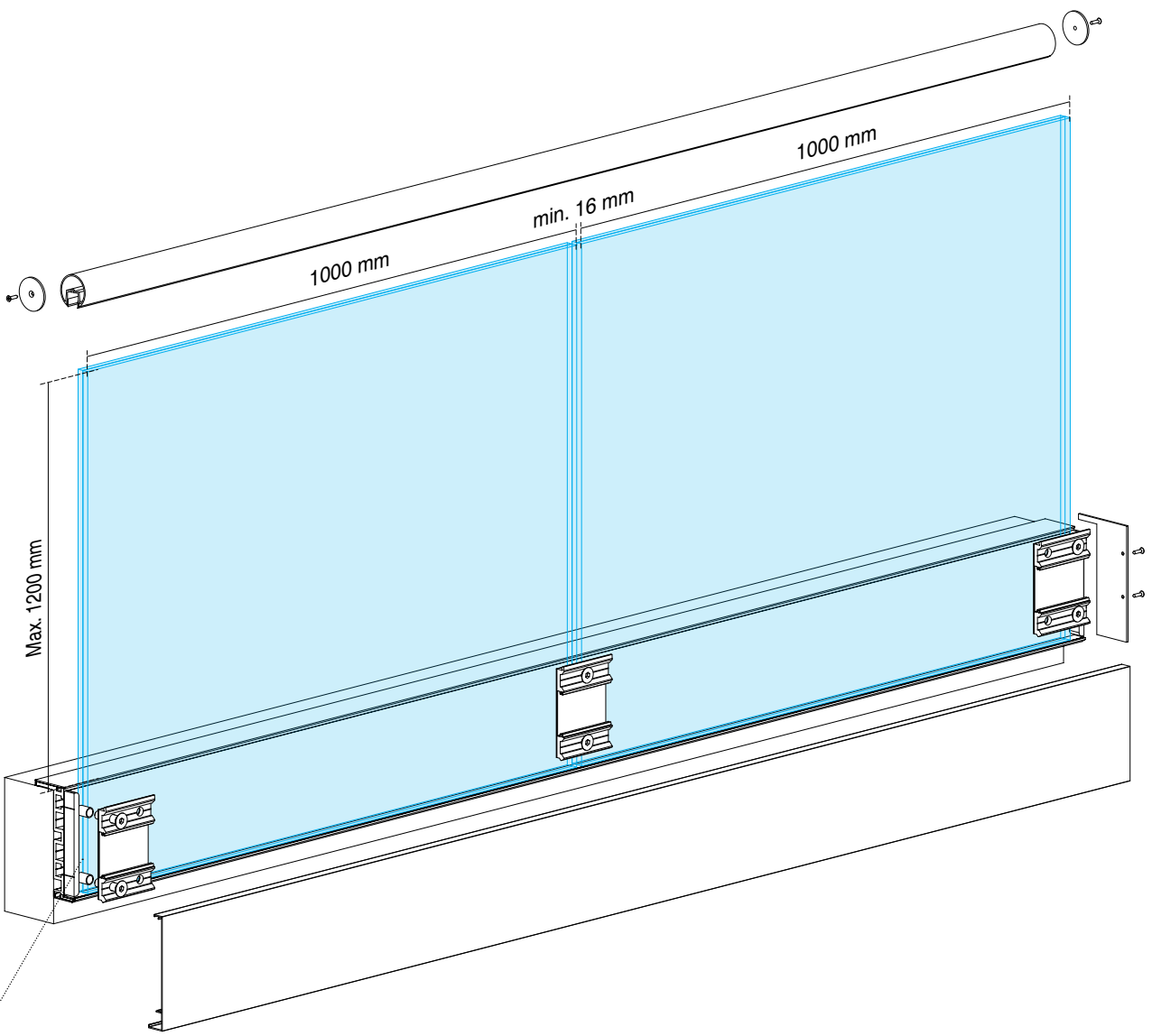
## Installazione profilo





## Fissaggio delle basi




Foro ∅10 per drenaggio acqua



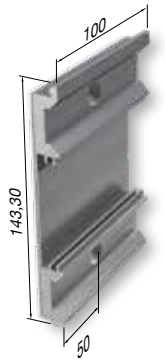
EOF85-565 (Vetro 16 mm)
EOF85-566 (Vetro 8.8.2=16.76 mm)
EOF85-567 (Vetro 8.8.4=17.52 mm)
EOF85-568 (Vetro 20 mm)
EOF85-569 (Vetro 10.10.2=20.76 mm)
EOF85-570 (Vetro 10.10.4=21.52 mm)

# Dc•line NO DRILL

## Conception revolutionaire sans percage du verre!

## PROFILI E ACCESSORI

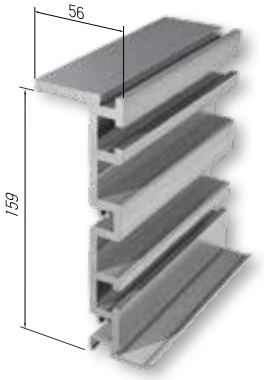
.



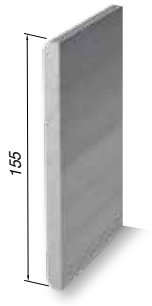

| Supporto vetro (centrale) | |
|---|---|
| Cod | **F85-440** |
| Conf. | 10 pz |




| Supporto vetro (finale) | |
|---|---|
| Cod | **F85-442** |
| Conf. | 10 pz |




| Profilo a muro | |
|---|---|
| Cod | **F85-1B10** |
| Peso | 4740 gr/m |
| Lunghezza | 6 m |




| Profilo per base | |
|---|---|
| Cod | **EOF85-565** (17 mm) |
| | **EOF85-566** (17.8 mm) |
| | **EOF85-567** (18.5 mm) |
| | **EOF85-568** (21 mm) |
| | **EOF85-569** (21.8 mm) |
| | **EOF85-570** (22.5 mm) |

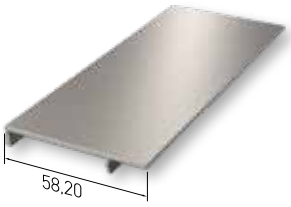
## Accessori & guarnizioni




| Tappo finale | |
|---|---|
| Cod | **F85-446/16** (8.8.4)<br>**F85-446/20** (10.10.4) |
| Conf. | 1coppia |




| Cover frontale | |
|---|---|
| Cod | **F85-1K11** |
| Peso | 1026 gr/m |
| Lunghezza | 6 m |




| Cover superiore | |
|---|---|
| Cod | **F85-1K10** |
| Peso | 366 gr/m |
| Lunghezza | 6 m |



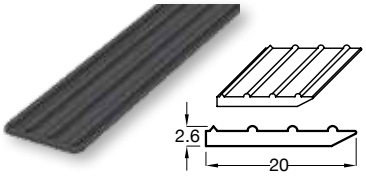

| Cover inferiore | |
|---|---|
| Cod | **F85-1K20** |
| Peso | 220 gr/m |
| Lunghezza | 6 m |



| Viti di fissaggio | |
|---|---|
| Cod | **F85-D216** (8.8.4)<br>**F85-D220** (10.10.4) |
| Conf. | 20 pz |




| Foglio PVC 1 mm | |
|---|---|
| Cod | **F85-410** |
| Colore | Bianco |
| Lunghezza | 2 m |



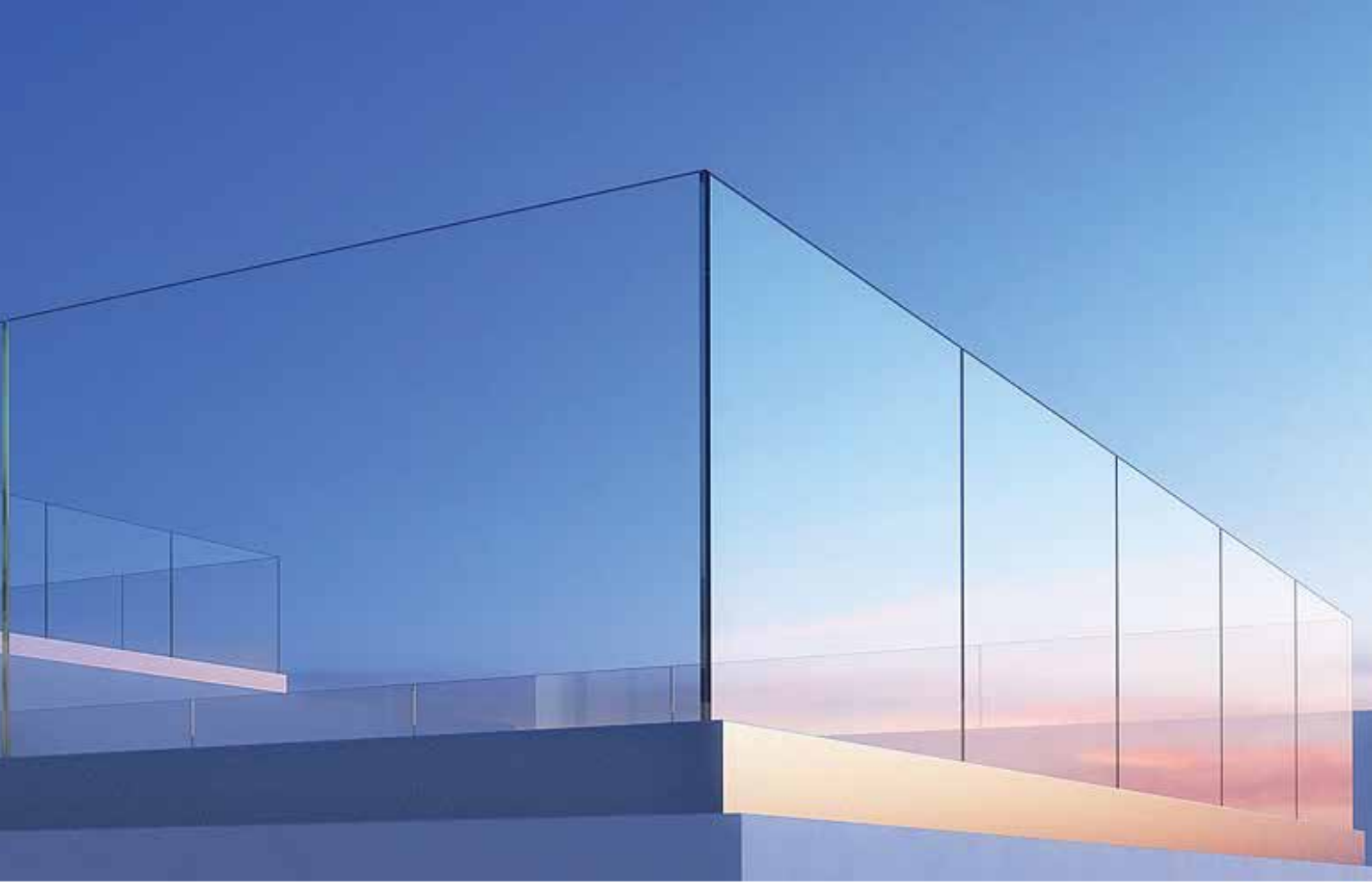

| Guarnizione base | |
|---|---|
| Cod | **F85-437** |
| Lunghezza | 200 m |



# E·line

81
Info

## Sistema a pavimento per vetri spessorati



# E•line

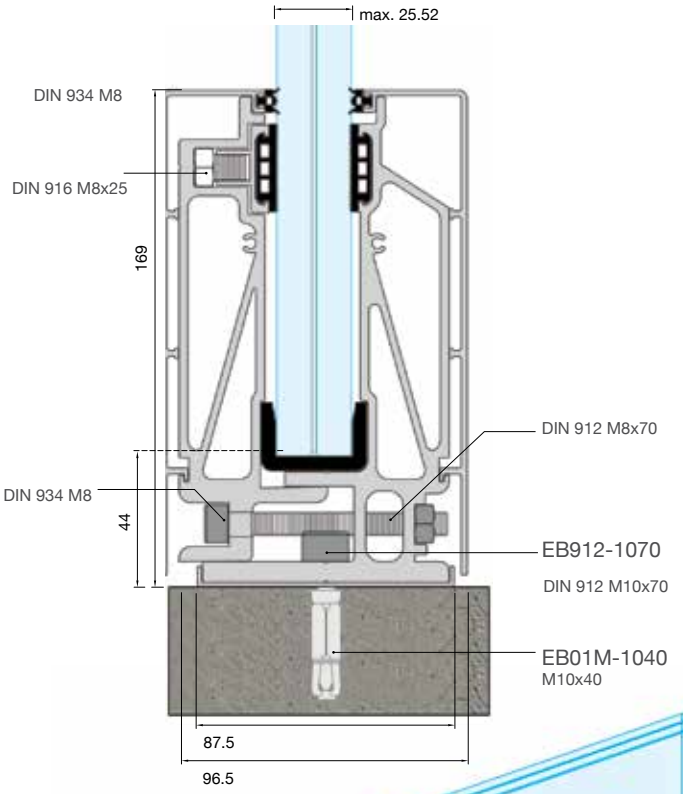

PLAY
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ixona
CALLANT
MAES
AULA
Slagerij
Napoleon Games


GHELAMCO
GHELAMCO

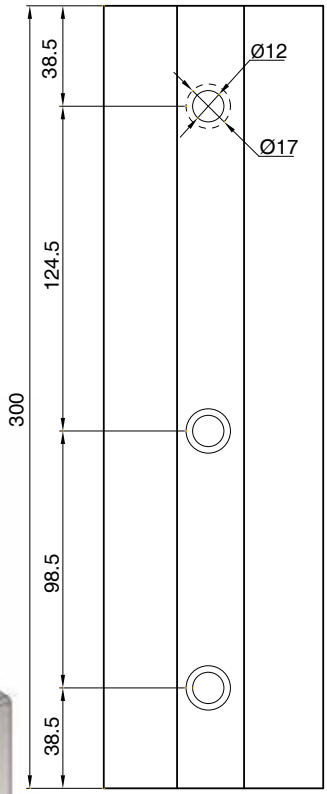

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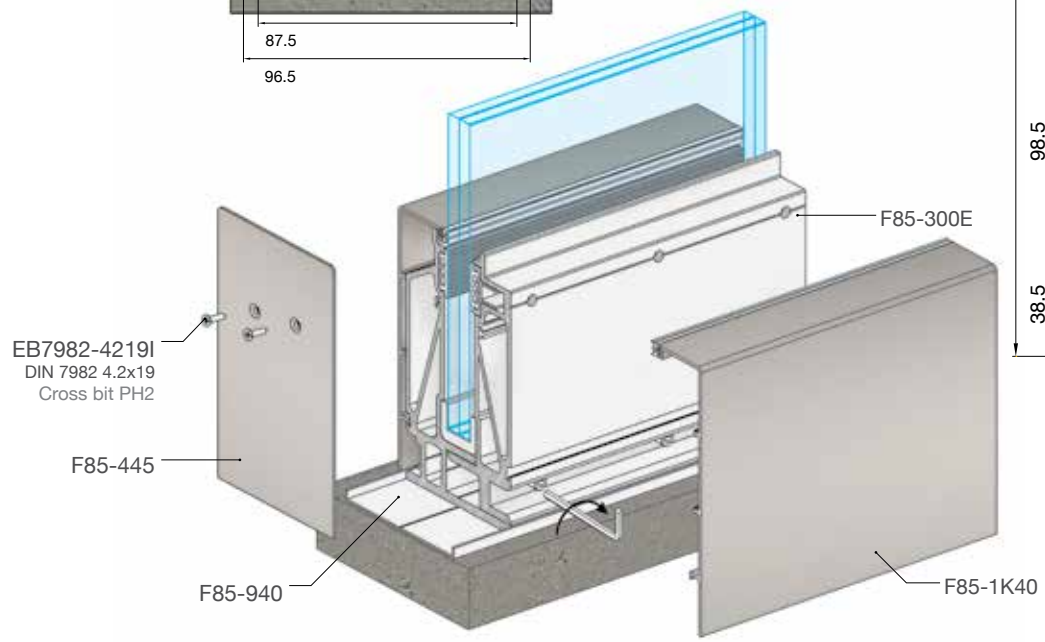

telenet

## Fissaggio delle basi




| Tipologia vetro E |
|---|
| 8.8.4 (17.52) |
| 10.10.2 (20.76) |
| 10.10.4 (21.52) |
| 12.12.4 (25.52) |



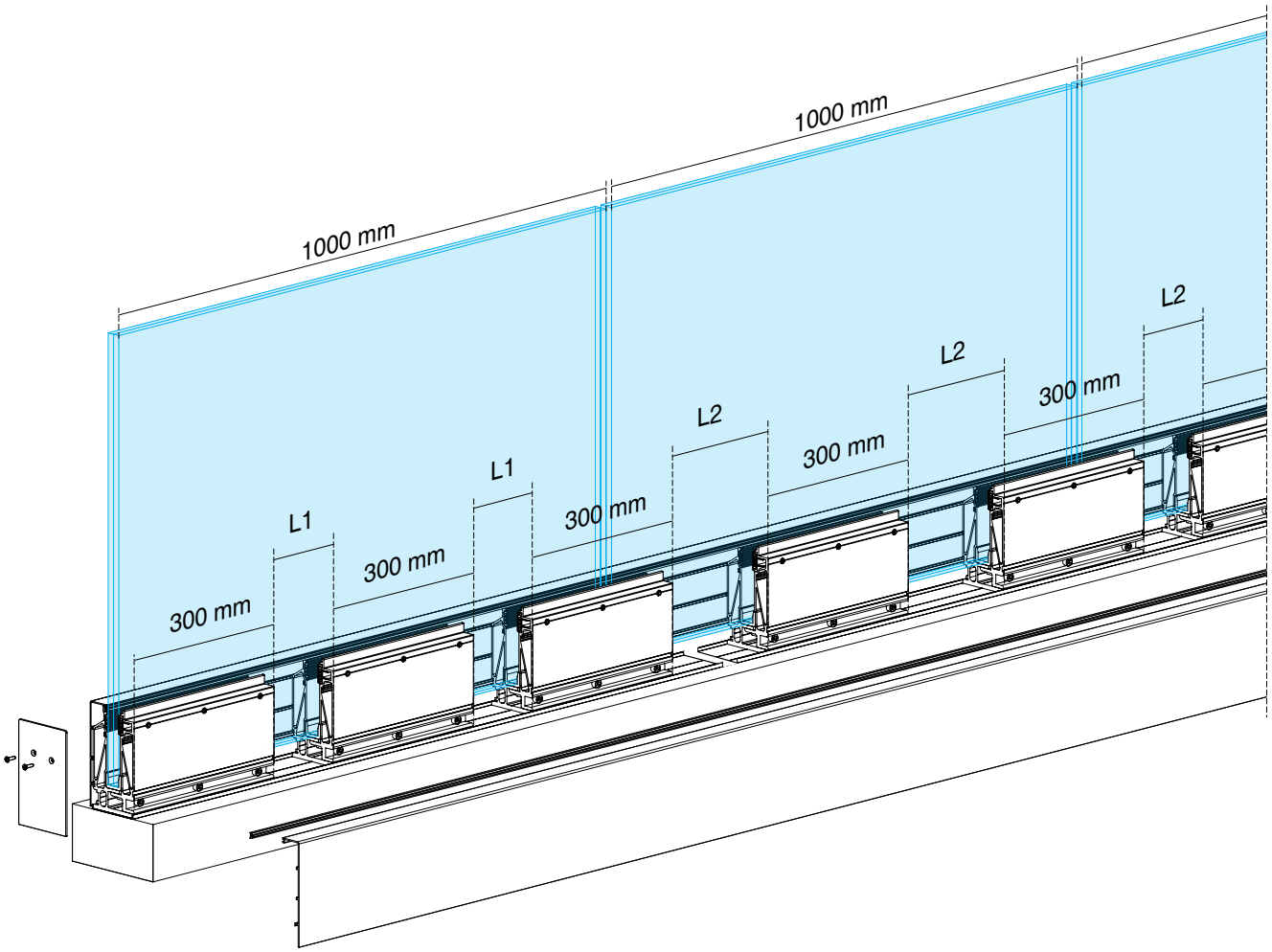




**Fissaggio basi**

**F85-300E/16**
**F85-300E/20**
**F85-300E/24**

| Tipologia Ringhiera | Tipologia vetro | Altezza ringhiera | Categoria di resistenza al carico statico ( carico orizzontale) | Categoria di resistenza al carico dinamico ( test di spinta) |
|---|---|---|---|---|
| Crystalline-E | 12.12.4 (DG41) | 1200 mm | Aree pubbliche, stadii, centri commerciali 3KN | |
| Crystalline-E | 10.10.4 float stratificato | 1200 mm | Privati e commerciali, con spinta vento da 540 Pa a 800 Pa | Privati & commerciali |
| Crystalline-E | 10.10.2 (DG41) float stratificato | 1200 mm | Privati e commerciali, con spinta vento 1080 Pa | Pubblico |
| Crystalline-E | 12.12.4 (DG41) mix float stratificato | 1200 mm | Privati e commerciali, con spinta vento da 540 Pa a 800 Pa | Privati & commerciali |
| Crystalline-E | 12.12.4 (DG41) float stratificato | 1200 mm | Privati e commerciali, con spinta vento 1080 Pa | Privati & commerciali. Pubblico |
| Crystalline-E | 10.10.4 | 1200 mm | | Privati & commerciali. Pubblico |
| Crystalline-E | 8.8.4 (Du Pont Sentry) | 1100mm | Privati e uso commerciale | Privati & commerciali, Test di spinta 4.5 Kg |

## Montaggio profilo





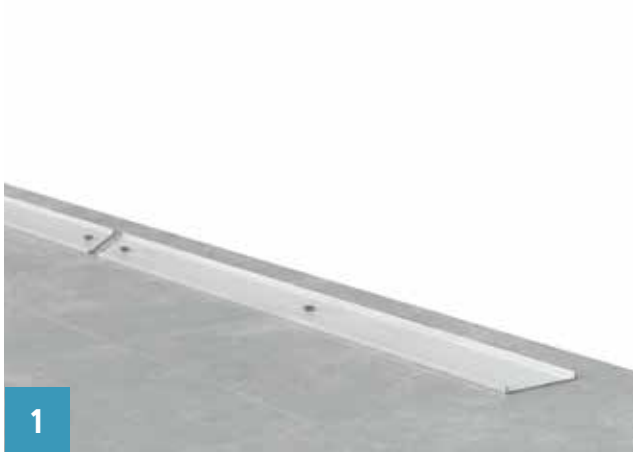

**Numero di basi raccomandate al metro lineare**

| 8.8.4 (17.52) | | | |
|---|---|---|---|
| Altezza | Corrimano | L1 | L2 |
| 600 mm | - | 125 mm | 200 mm |
| | F85-203 | 550 mm | 700 mm |
| | F85-204 | 550 mm | 700 mm |
| 1000 mm | - | 125 mm | 200 mm |
| | F85-203 | 125 mm | 200 mm |
| | F85-204 | 125 mm | 200 mm |
| 1200 mm | - | 125 mm | 200 mm |
| | F85-203 | 125 mm | 200 mm |
| | F85-204 | 125 mm | 200 mm |

| 10.10.4 (21.52) | | | |
|---|---|---|---|
| Altezza | Corrimano | L1 | L2 |
| 600 mm | - | 125 mm | 200 mm |
| | F85-203 | 550 mm | 700 mm |
| | F85-204 | 550 mm | 700 mm |
| 1000 mm | - | 125 mm | 200 mm |
| | F85-203 | 125 mm | 200 mm |
| | F85-204 | 125 mm | 200 mm |
| 1100 mm | - | 125 mm | 200 mm |
| | F85-203 | 125 mm | 200 mm |
| | F85-204 | 125 mm | 200 mm |

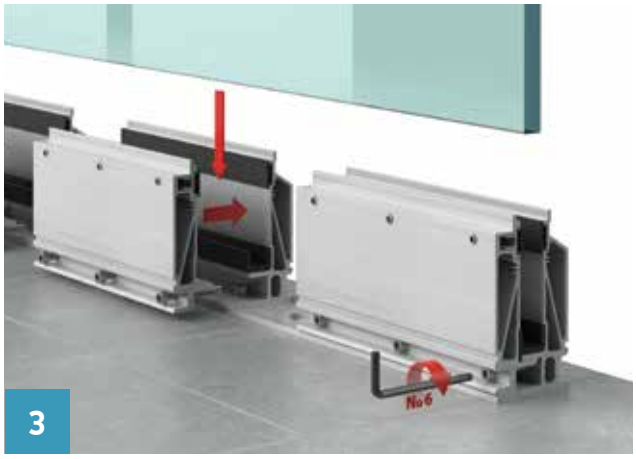
| 12.12.4 (25.52) | | | |
|---|---|---|---|
| Altezza | Corrimano | L1 | L2 |
| 600 mm | - | 125 mm | 200 mm |
| | F50-203 | 550 mm | 700 mm |
| 1000 mm | - | 125 mm | 200 mm |
| | F50-203 | 125 mm | 200 mm |
| 1200 mm | - | 125 mm | 200 mm |
| | F50-203 | 125 mm | 200 mm |

## Fasi di montaggio















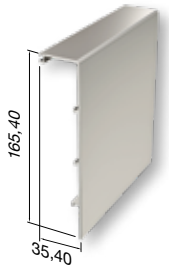



# E•line
## 18.1 / 22.1 / 26.1

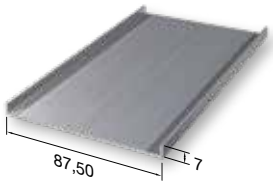
## Basi di supporto vetro & accessori




| Basi per vetro | |
|---|---|
| Cod | **F85-300E/16** (8.8.4)<br>**F85-300E/20** (10.10.4)<br>**F85-300E/24** (12.12.4) |
| Conf. | 6 pz |




| Cover frontale | |
|---|---|
| Cod | **F85-1K40** |
| Peso | 1185 gr/m |
| Lunghezza | 6 m |



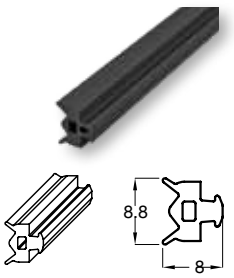

| Guida per basi vetro | |
|---|---|
| Cod | **F85-940** |
| Peso | 373 gr/m |
| Lunghezza | 6 m |

*Disponibile Ral 9006*

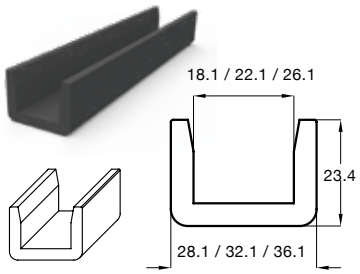



| Tappo finale | | |
|---|---|---|
| Cod | **F85-445/16** | (8.8.4) |
| | **F85-445/20** | (10.10.4) |
| | **F85-445/24** | (12.12.4) |
| Conf. | 1 cp | |

## Guarnizioni




| Guarnizione vetro | |
|---|---|
| Cod | **EA410-409M** |
| Lunghezza | 200 m |



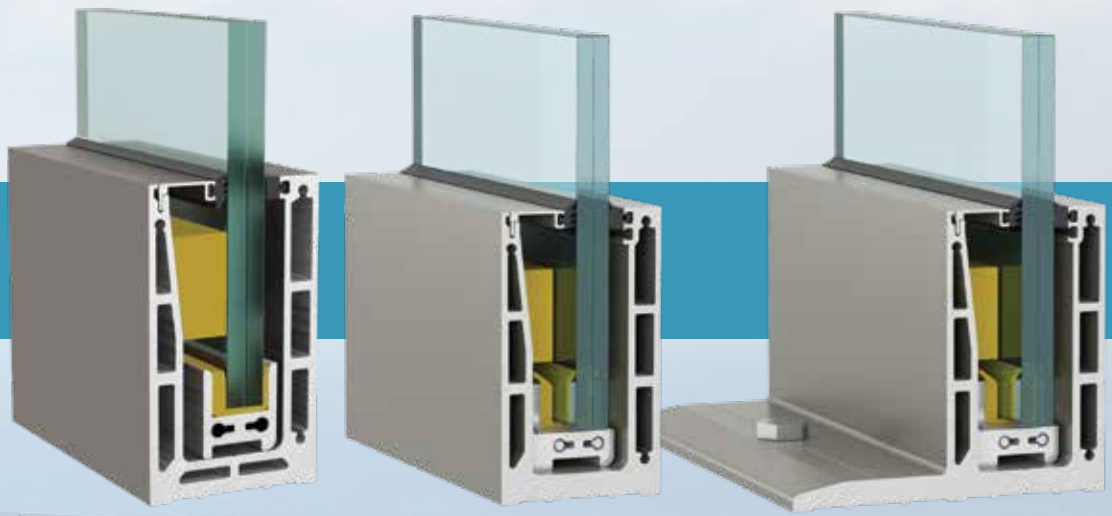

| Guarnizione di supporto vetro | | |
|---|---|---|
| Cod | **F85-427** | (8.8.4) |
| | **F85-428** | (10.10.4) |
| | **F85-429** | (12.12.4) |

*Inclusi nelle basi F85-300 ma disponibili separatamente*



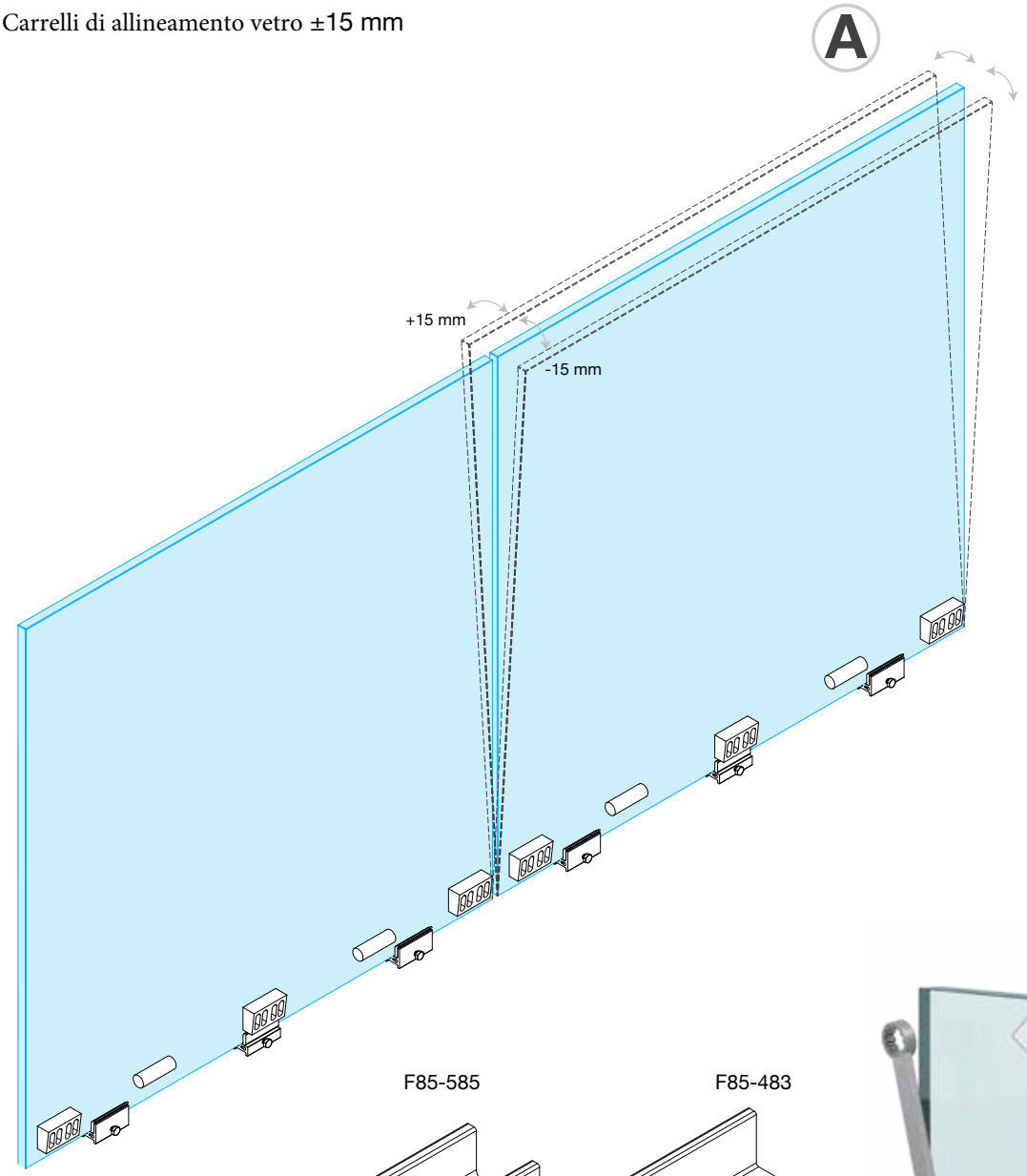
# L•line TOP MOUNT

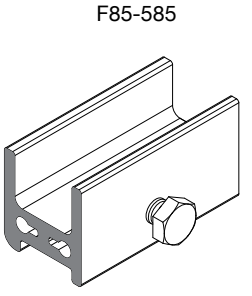
## Sistema di supporto per vetri spessorati

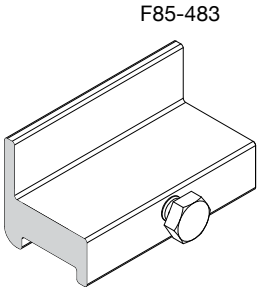


# Carrelli di allineamento vetro

A Carrelli di allineamento vetro ±15 mm



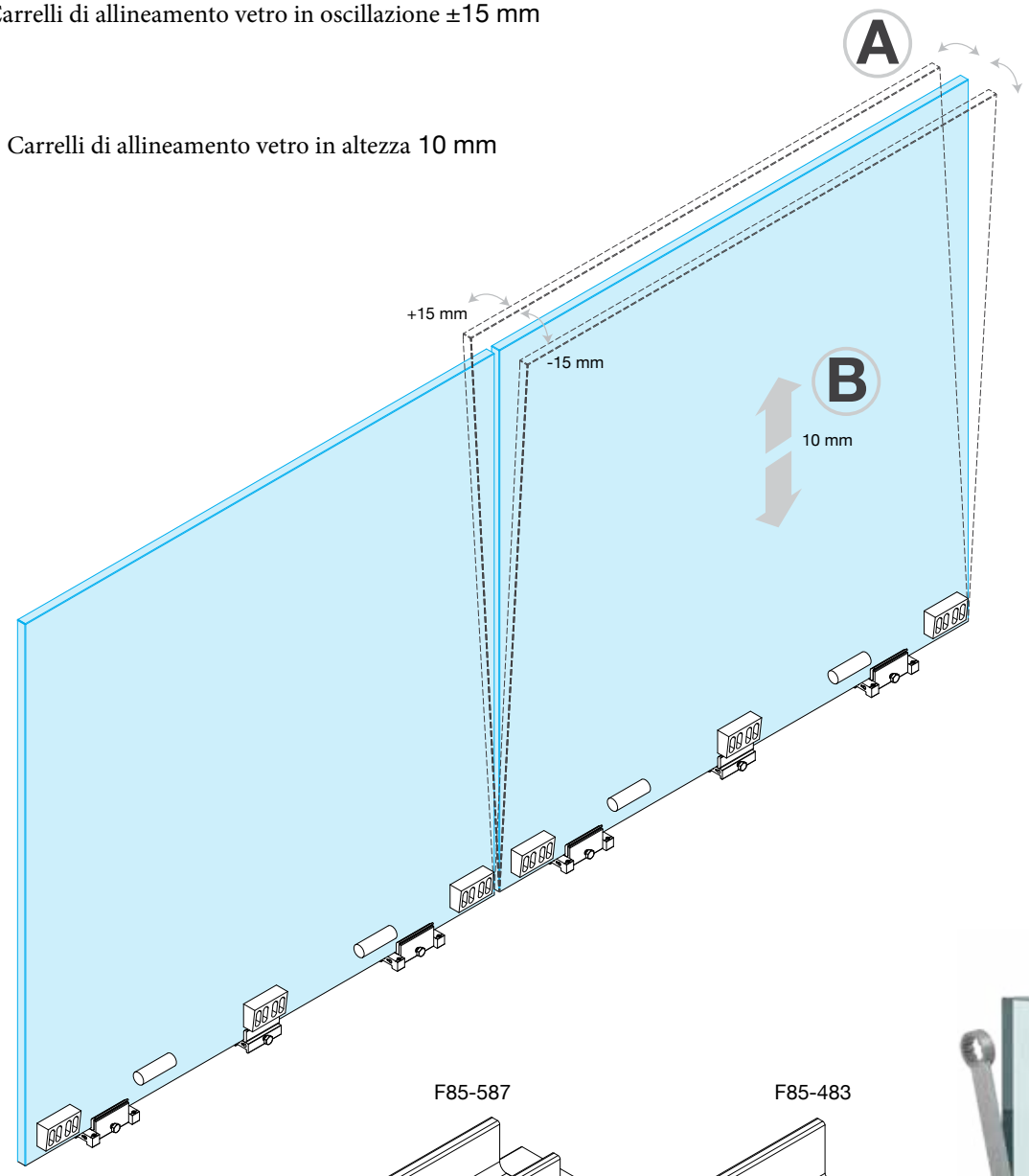



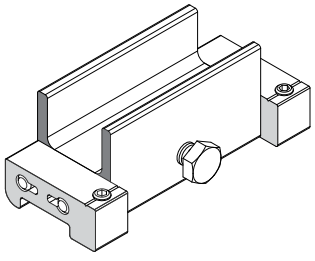



**A** Carrelli di allineamento vetro in oscillazione ±15 mm

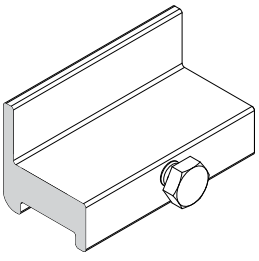
**B** Carrelli di allineamento vetro in altezza 10 mm




F85-587

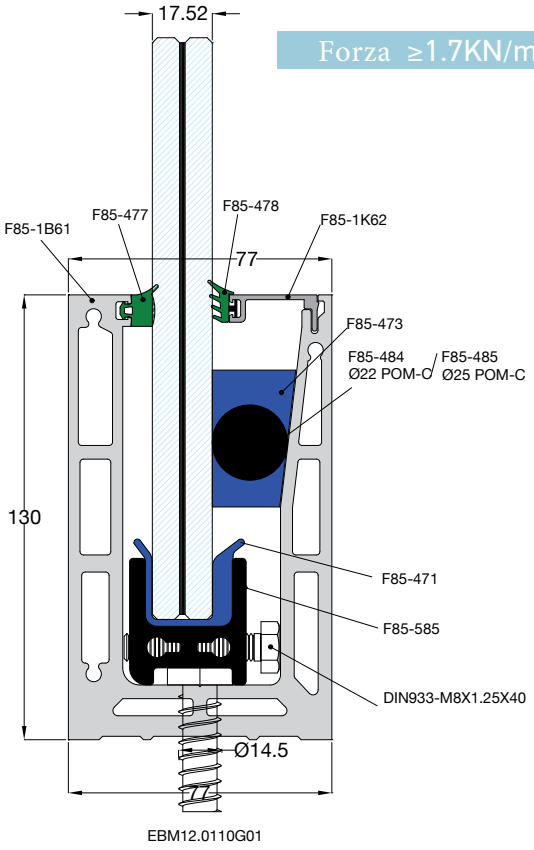


F85-483

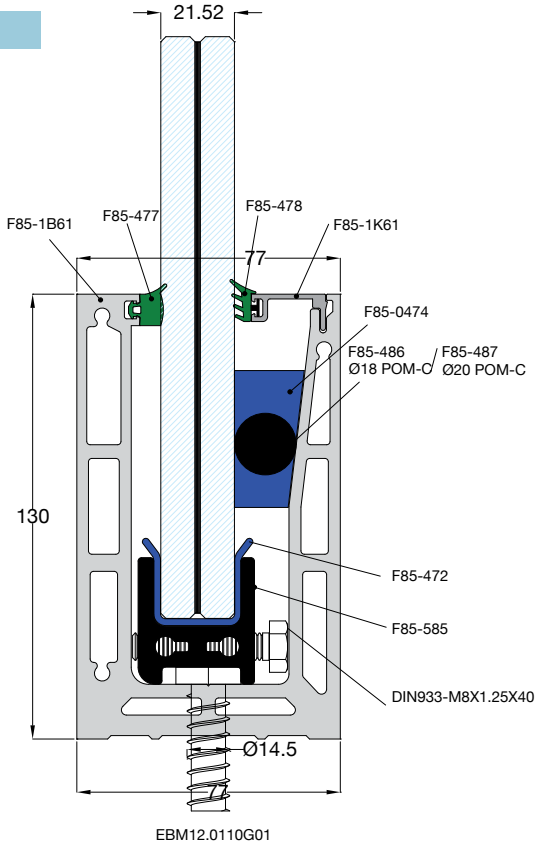




## Forza ≥1.7KN/m

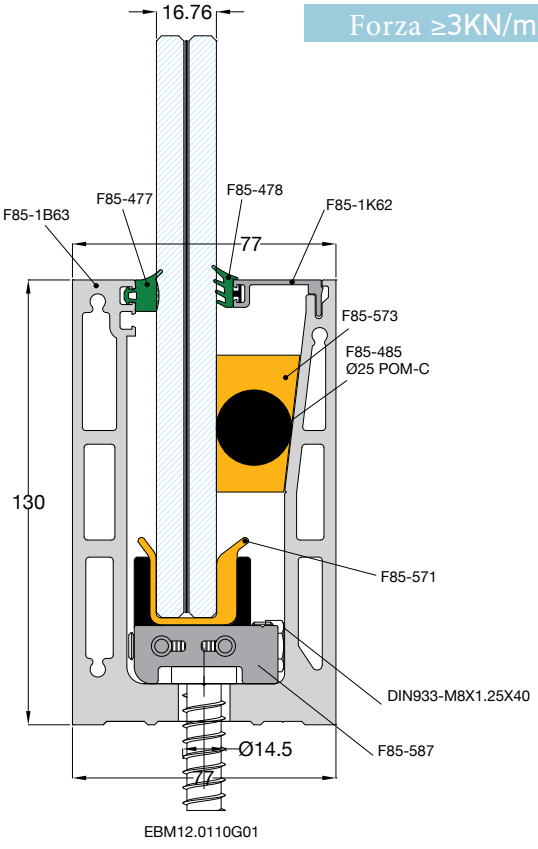



EBM12.0110G01

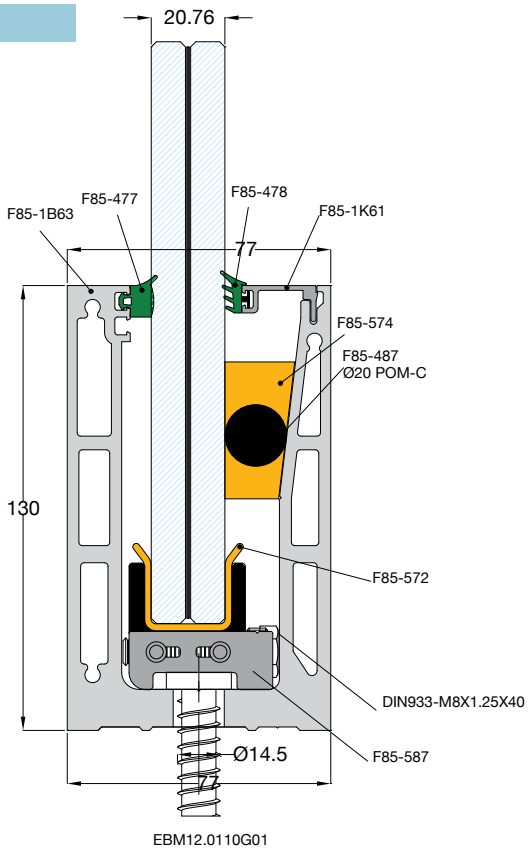



EBM12.0110G01

## Forza ≥3KN/m

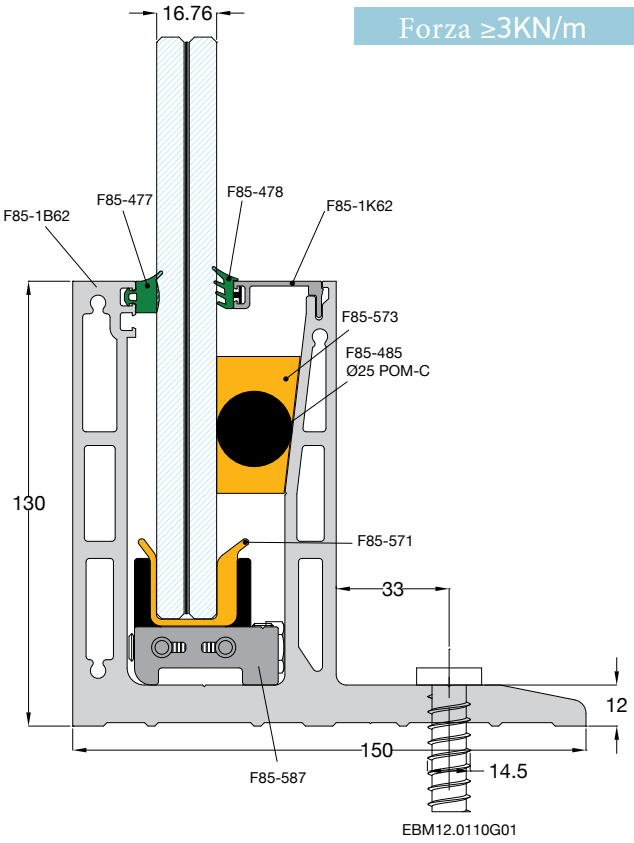


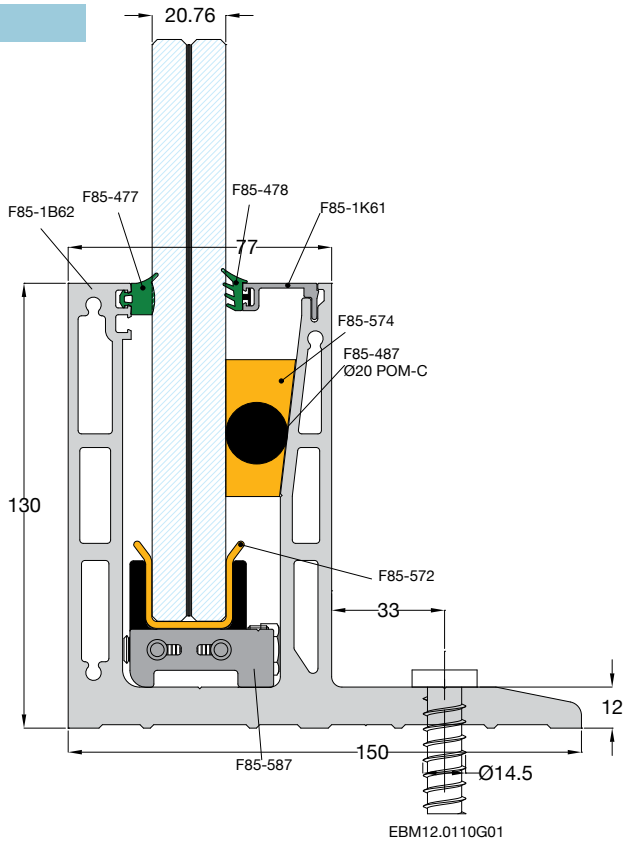

EBM12.0110G01




EBM12.0110G01

Forza ≥3KN/m



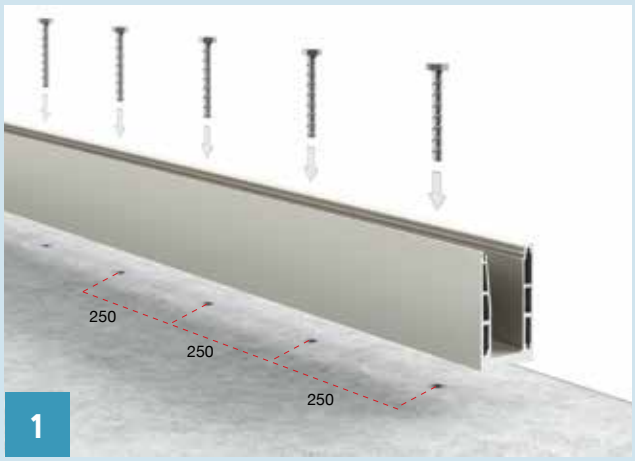

| Tipologia di carrello | | Tipologia di impiego |
|---|---|---|
|  | F85-587 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione e in altezza |
|  | F85-585 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione |
|  | F85-483 Carrello centrale (1 Pz/m) | Carrello fisso per supporto vetro |

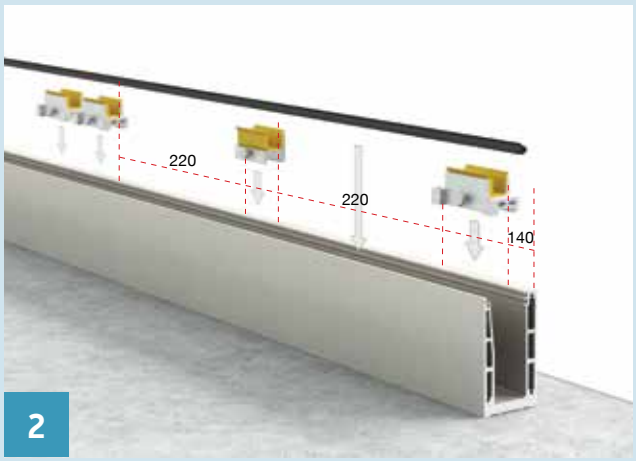
| Tipologia di profilo per isolamento vetro | | Tipologia di vetro |
|---|---|---|
|  | F85-571 ABS PLASTIC | 8-DG41-8=16.76 mm |
|  | F85-471 ABS PLASTIC | 8-4PVB-8=17.52 mm |
|  | F85-572 ABS PLASTIC | 10-DG41-10=20.76 mm |
|  | F85-472 ABS PLASTIC | 10-4PVB-10=21.52 mm |

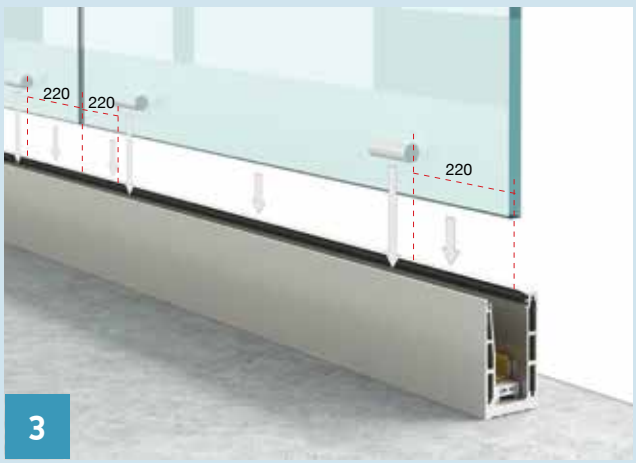
Applicabili con tutti i carrelli

| Tipo | Vetro stratificato | Altezza ringhiera | Categoria di resistenza al carico statico (carico orizzontale e verticale) | Categoria di resistenza al carico dinamico (prova di spinta) |
|---|---|---|---|---|
| F85-1B62 | 10.10.4 (DG41) | 1200 mm | Pubblico/Stadii/Centri commerciali - 3KN/m fino a 5KN/m | |
| F85-1B63 | 10.10.4 (DG41) | 1200 mm | Pubblico/Stadii/Centri commerciali - 3KN/m fino a 5KN/m | |

## Installazione profilo





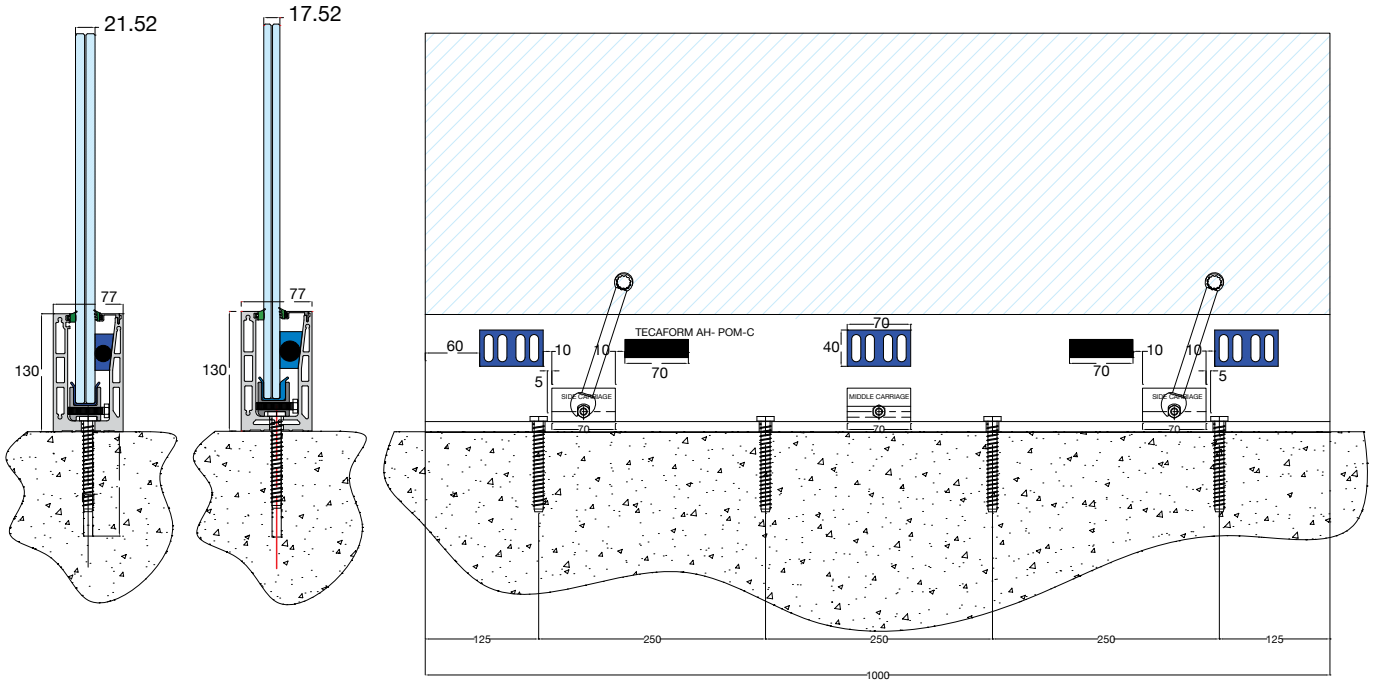


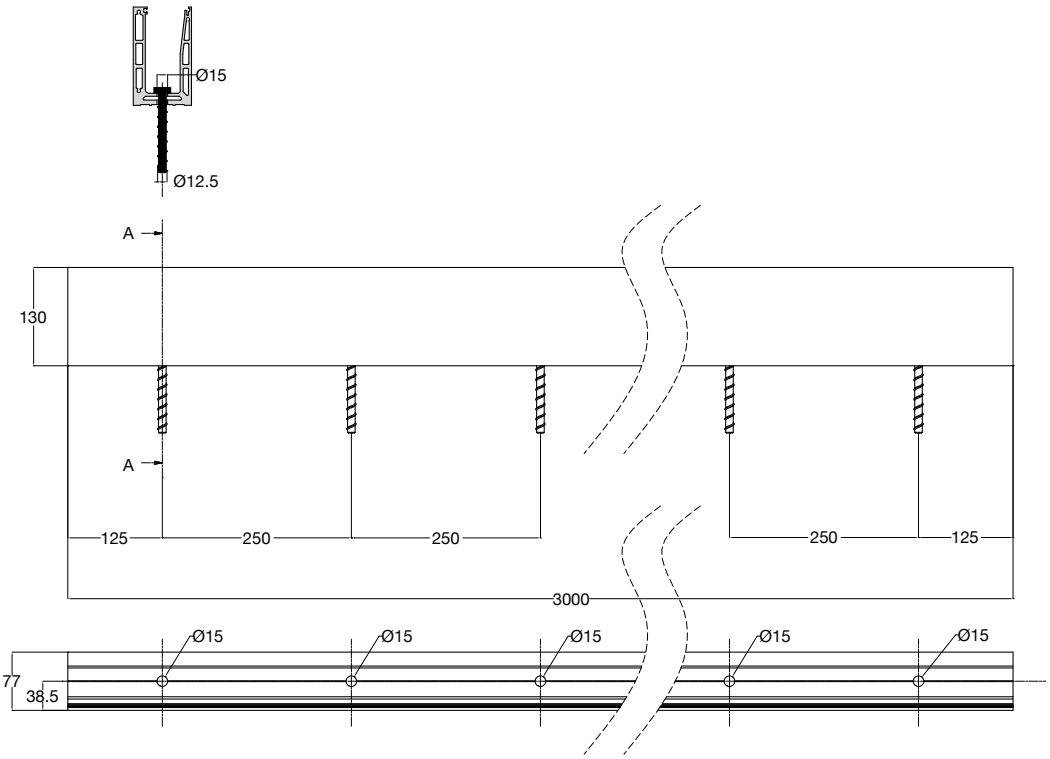




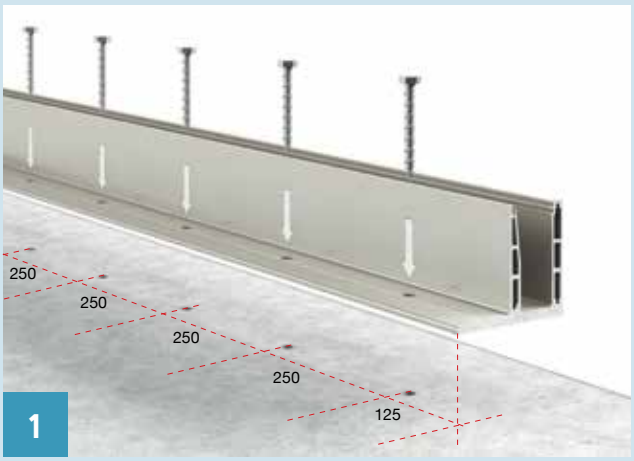


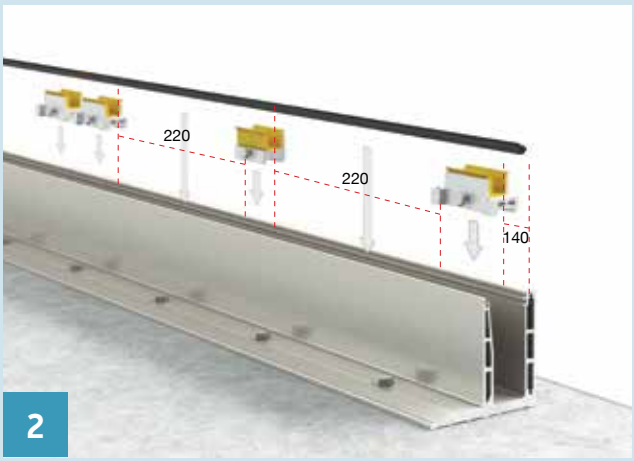
Spessore nastro biadesivo: 0.33 mm, larghezza: 15 mm

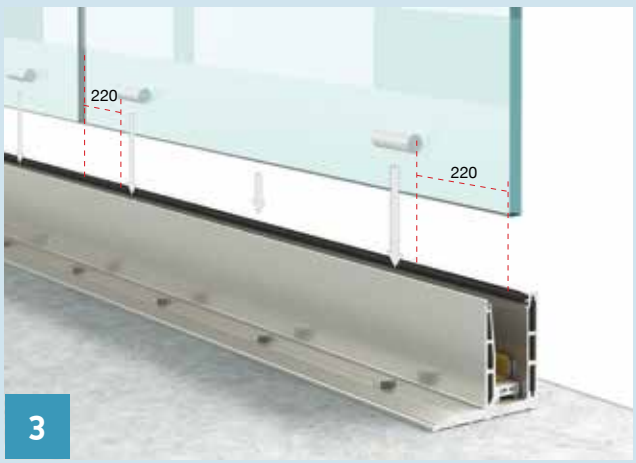

21.52
17.52
77
77
130
130
TECAFORM AH- POM-C
60
10
10
70
5
70
40
70
10
10
70
5
SIDE CARRIAGE
MIDDLE CARRIAGE
SIDE CARRIAGE
125
250
250
250
125
1000


Ø15
Ø12.5
A
130
A
125
250
250
250
125
3000
Ø15
Ø15
Ø15
Ø15
Ø15
77
38.5

## Installazione







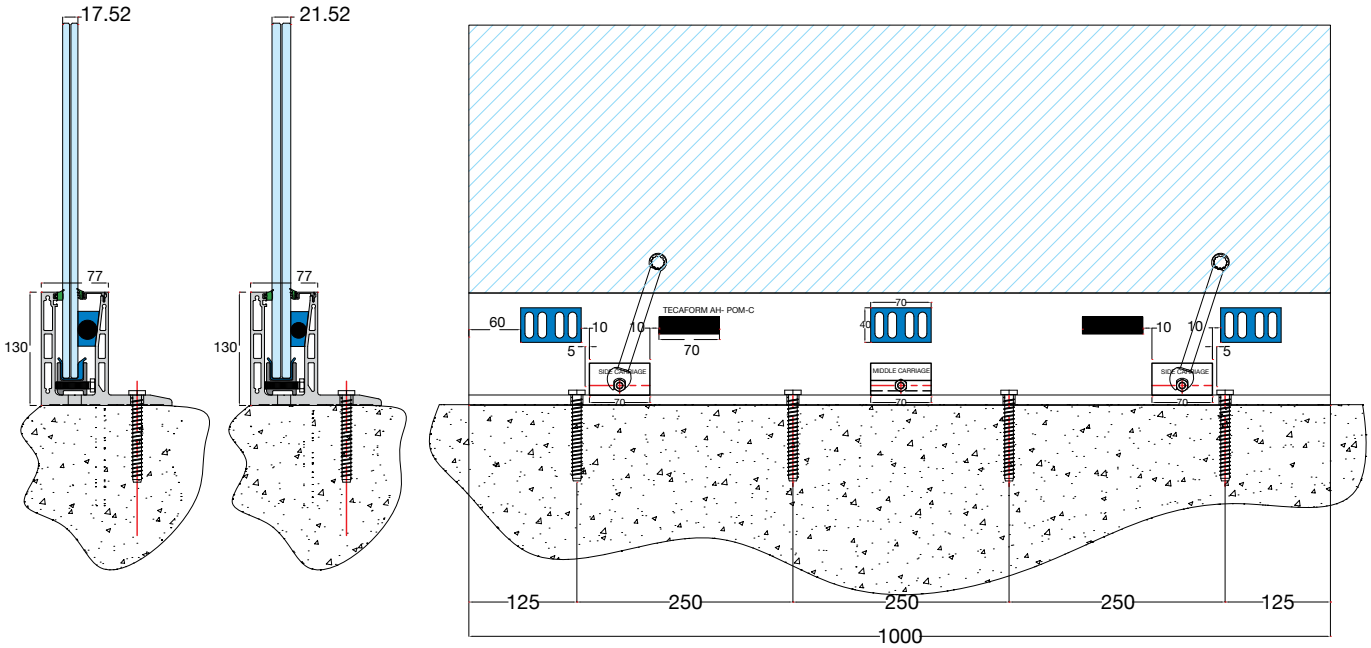


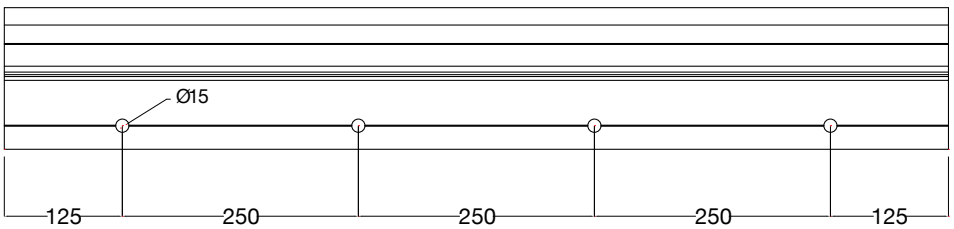




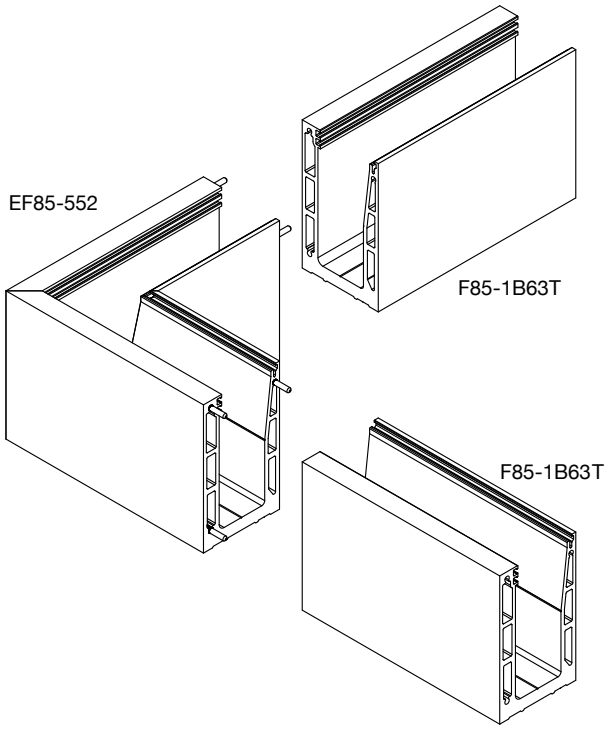


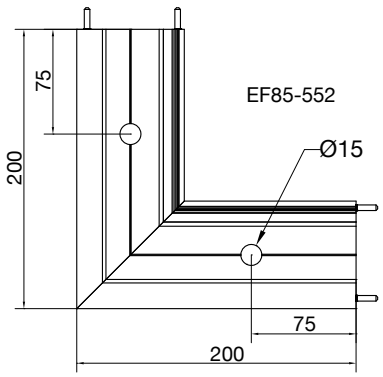
Spessore nastro biadesivo: 0.33 mm,
larghezza: 15 mm


17.52
21.52
77
77
130
130
60
10
10
5
70
TECAFORM AH- POM-C
70
10
10
5
70
70
70
125
250
250
250
125
1000

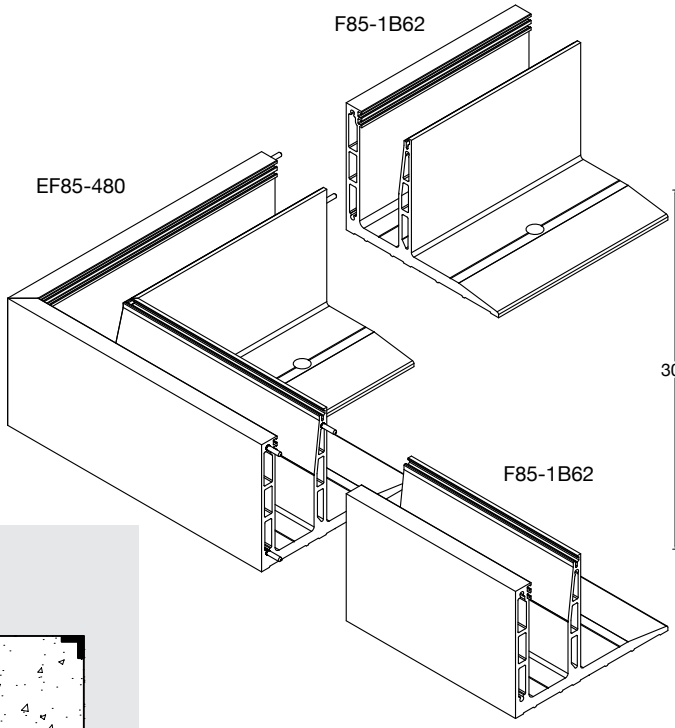

Ø15
125
250
250
250
125

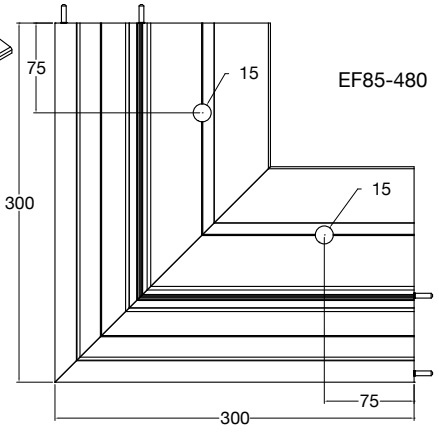
## Angoli



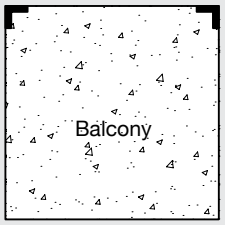



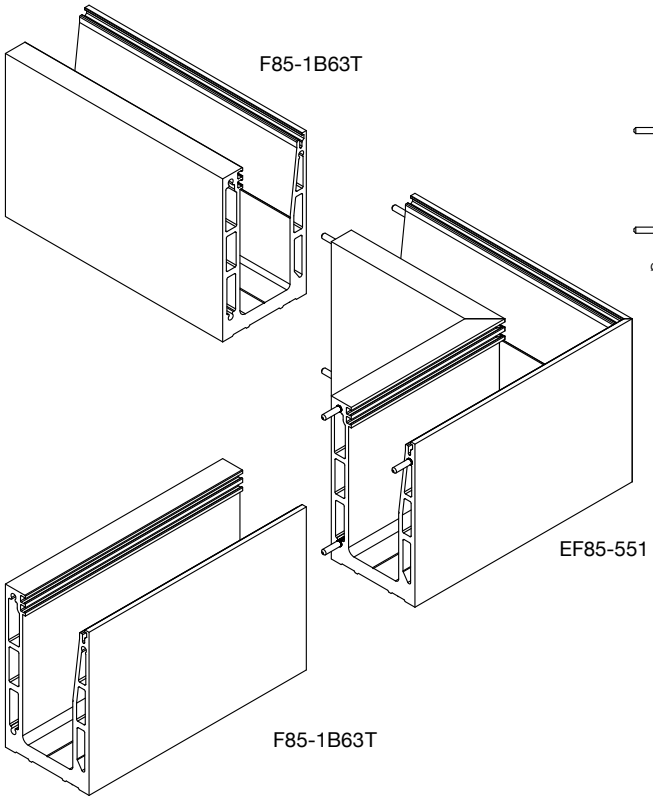


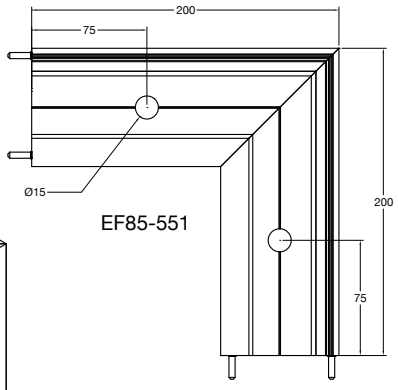




**Angoli esterni**

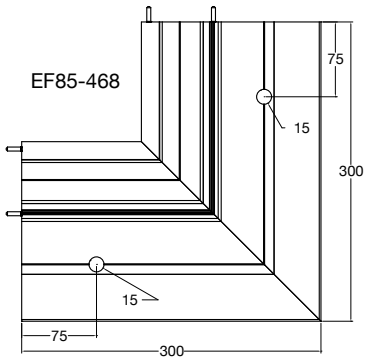


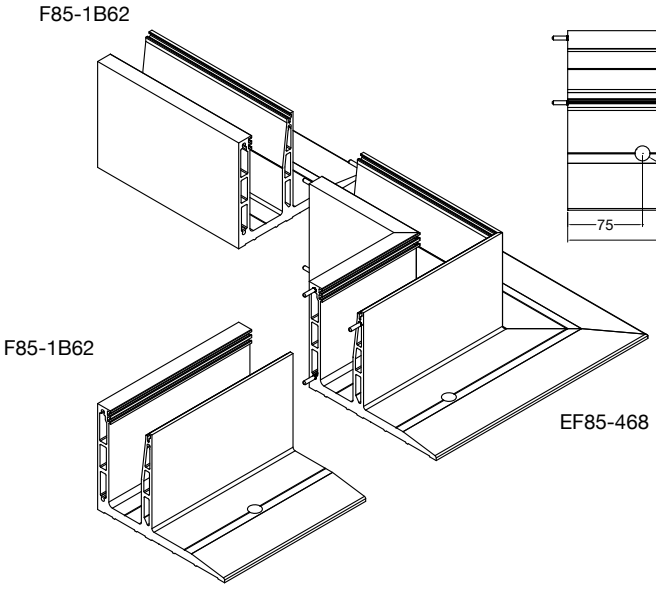


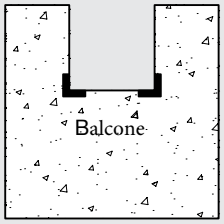

EF85-551






**ANGOLO INTERNO**



## Profili & accessori

### SUL PAVIMENTO ≥1.7 KN/m



| Base a U | |
|---|---|
| Cod | **F85-1B61T*** (10.10.4) (8.8.4) |
| Peso | 7500 gr/m |
| Lunghezza | 3 m |



| Angolo interno | |
|---|---|
| Cod | **F85-467*** |
| Lunghezza | 20x20 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-479*** |
| Lunghezza | 20x20 cm |

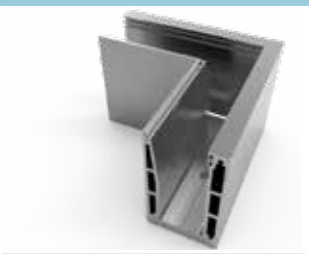
### SUL PAVIMENTO ≥3 KN/m



| Base a U | |
|---|---|
| Cod | **F85-1B63T*** (10.10.4) (8.8.4) |
| Peso | 7627 gr/m |
| Lunghezza | 3 m |



| Angolo interno | |
|---|---|
| Cod | **F85-551*** |
| Lunghezza | 20x20 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-552*** |
| Lunghezza | 20x20 cm |

### SUL PAVIMENTO CON ALETTA ≥3 KN/m



| Base a U | |
|---|---|
| Cod | **F85-1B62T*** (10.10.4) (8.8.4) |
| Peso | 9666 gr/m |
| Lungezza | 3 m |



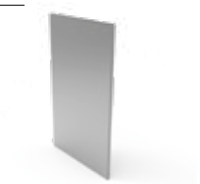
| Angolo interno | |
|---|---|
| Cod | **F85-468*** |
| Lunghezza | 30x30 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-480*** |
| Lunghezza | 30x30 cm |



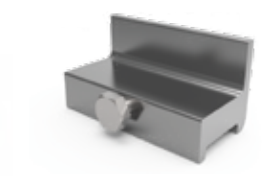
| Tappo finale | |
|---|---|
| Cod | **F85-489**** |
| Lunghezza | 130x150 mm |



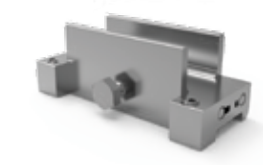
| End cap / Embout | |
|---|---|
| Code | **F85-488**** |
| Lunghezza | 77x130 mm |



| Carrello orientabile | |
|---|---|
| Cod | **F85-585** |
| Peso | 117 gr |
| Lunghezza | 70 mm |



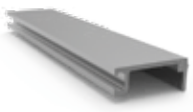
| Carrello centrale fisso | |
|---|---|
| Cod | **F85-483** |
| Peso | 97 gr |
| Lunghezza | 70 mm |



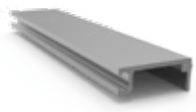
| Carrello centrale orientabile | |
|---|---|
| Cod | **F85-587** |
| Peso | 200 gr |
| Lunghezza | 100 mm |

* Incluso viti di fissaggio

** Incluso nastro biadesivo



| Cover interna della base | |
|---|---|
| Cod | **F85-1K61** (10.10.4) (10.10.2) |
| Peso | 178 gr/m |
| Lunghezza | 6 m |



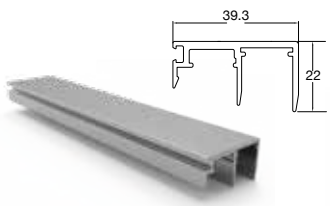
| Cover interna della base | |
|---|---|
| Cod | **F85-1K62** (8.8.4) (8.8.2) |
| Peso | 194 gr/m |
| Lunghezza | 6 m |



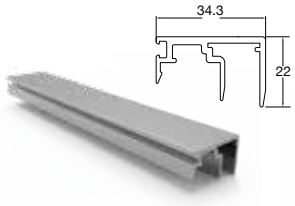
| Cover interna della base | |
|---|---|
| Cod | **F85-1K66** (8.8.2) (8.8.4) |
| Peso | 447 gr/m |
| Lunghezza | 6 m |



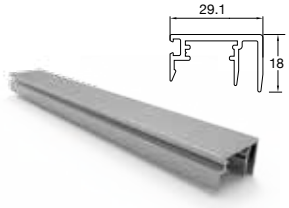
| Cover interna della base | |
|---|---|
| Cod | **F85-1K67** (10.10.2) (10.10.4) |
| Peso | 425 gr/m |
| Lunghezza | 6 m |




| Cover esterna per pannello 15 mm | |
|---|---|
| Cod | **F85-1K63** |
| Peso | 475 gr/m |
| Lunghezza | 6 m |




| Cover esterna per pannello 10 mm | |
|---|---|
| Cod | **F85-1K64** |
| Peso | 460 gr/m |
| Lunghezza | 6 m |

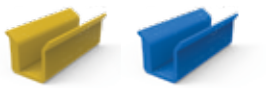



| Cover esterna per pannello 5 mm | |
|---|---|
| Cod | **F85-1K65** |
| Peso | 349 gr/m |
| Lunghezza | 6 m |

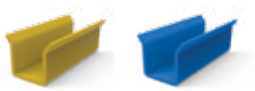


| Perno di collegamento | |
|---|---|
| Cod | **F85-481** |





| Supporto vetro | |
|---|---|
| Cod | **F85-471** • (8.8.4) |
| | **F85-571** • (8.8.2) |
| Lunghezza | 70 mm |



| Supporto vetro | |
|---|---|
| Cod | **F85-472** • (10.10.4) |
| | **F85-572** • (10.10.2) |
| Lunghezza | 70 mm |



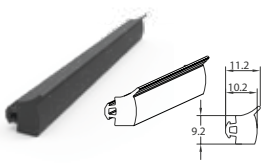
| Base vetro L70 mm Ø22 | |
|---|---|
| Cod | **F85-484 Ø22** (8.8.4) |
| | **F85-485 Ø25** (8.8.2) |
| | **F85-486 Ø18** (10.10.4) |
| | **F85-487 Ø20** (10.10.2) |
| Lunghezza | 70 mm |



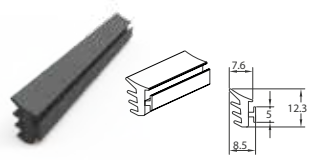
| Supporti base | |
|---|---|
| Cod | **F85-473** • (8.8.4) |
| | **F85-573** • (8.8.2) |
| | **F85-474** • (10.10.4) |
| | **F85-574** • (10.10.2) |
| Lunghezza | 70 mm |



| Viti Ø12-110 | |
|---|---|
| Cod | **EBM12-110** |




| Guarnizione per base | |
|---|---|
| Cod | **F85-477** |
| Lunghezza | 100 m |



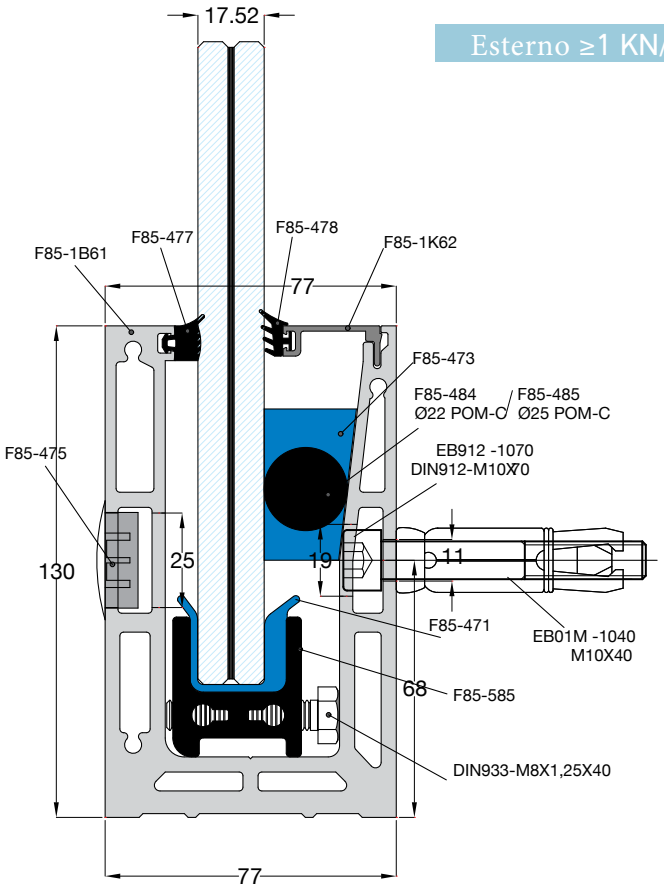

| Guarnizione vetro | |
|---|---|
| Cod | **F85-478** |
| Lunghezza | 100 m |

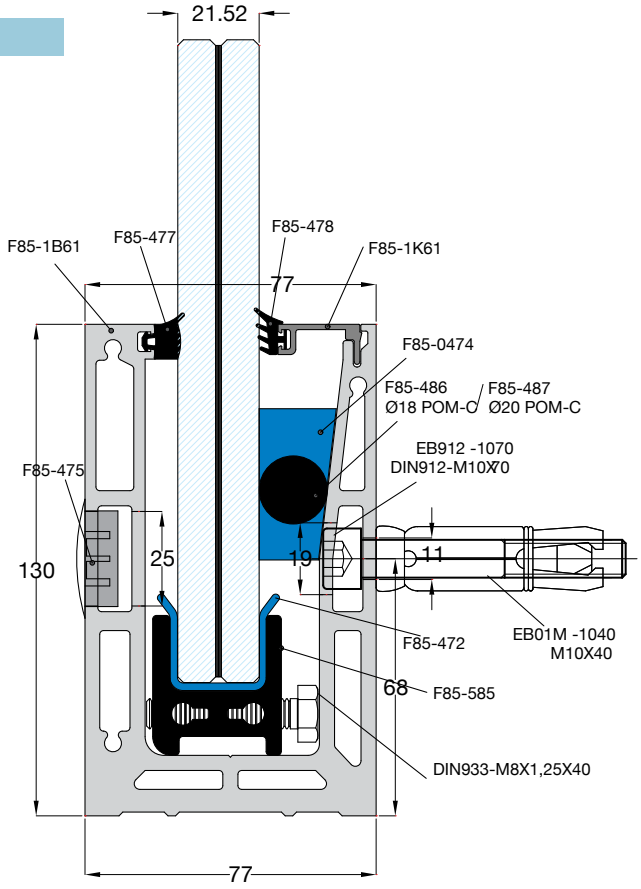


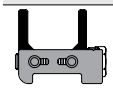
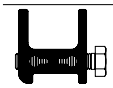
# L•line Esterno muro

## Sistema per vetri spessorati





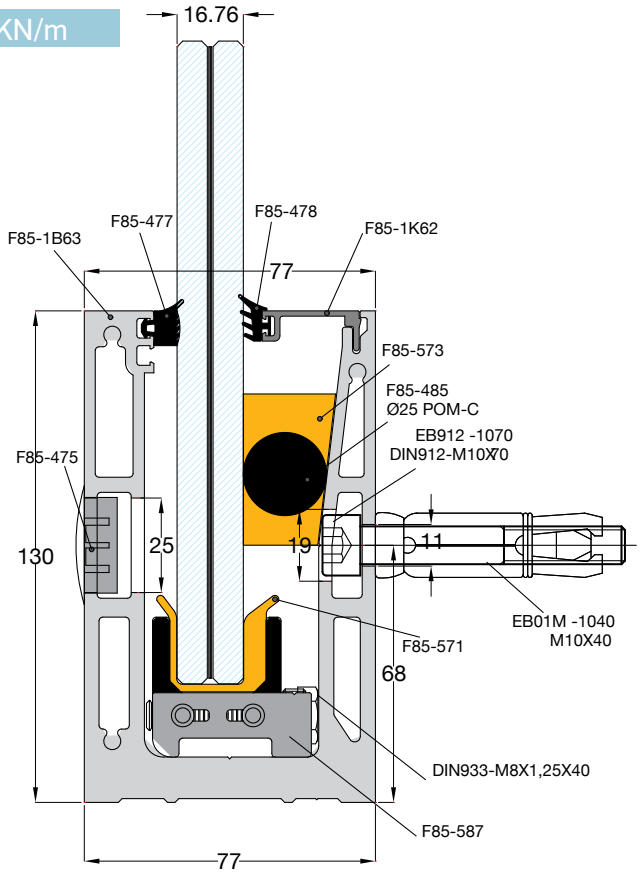

| Tipologia di carrello | | Tipologia di impiego |
|---|---|---|
|  | F85-587 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione e in altezza |
|  | F85-585 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione |
|  | F85-483 Carrello centrale (1 Pz/m) | Carrello fisso per supporto vetro |

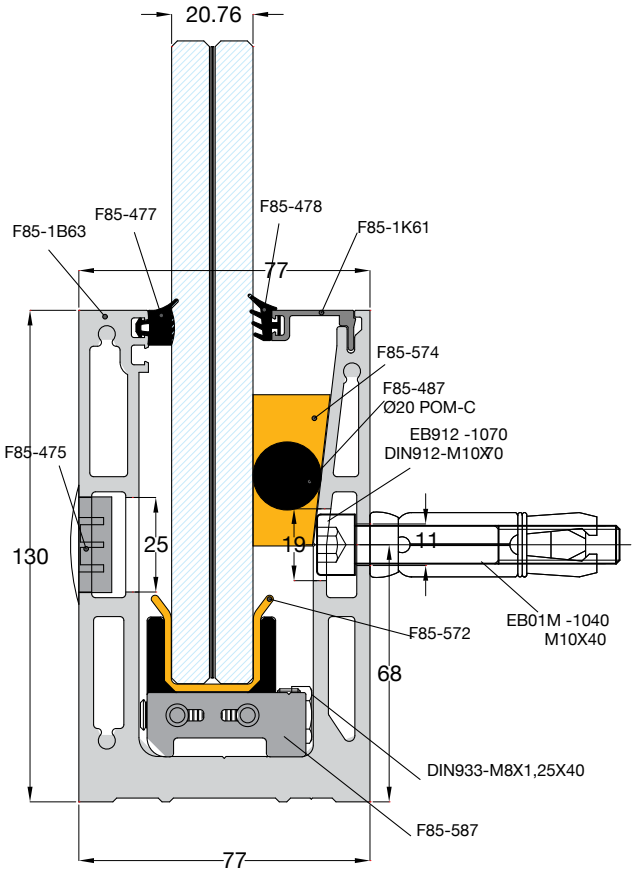
| Tipologia di profilo per isolamento vetro | | Tipologia di vetro |
|---|---|---|
|  | F85-571 ABS PLASTIC | 8-DG41-8=16.76 mm |
|  | F85-471 ABS PLASTIC | 8-4PVB-8=17.52 mm |
|  | F85-572 ABS PLASTIC | 10-DG41-10=20.76 mm |
|  | F85-472 ABS PLASTIC | 10-4PVB-10=21.52 mm |

Applicabili con tutti i carrelli

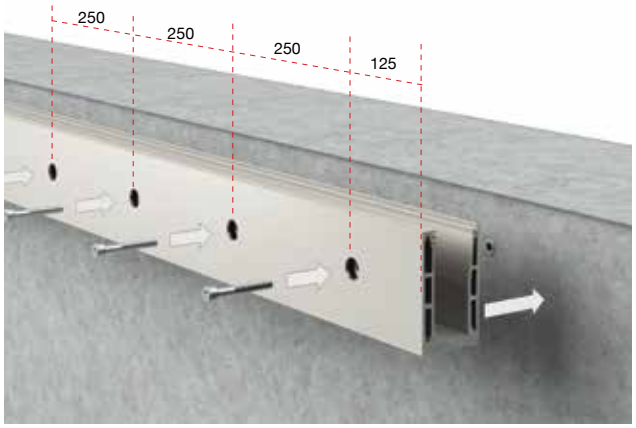
| Tipo | Vetro stratificato | Altezza ringhiera | Categoria di resistenza al carico statico (carico orizzontale e verticale) | Categoria di resistenza al carico dinamico (prova di spinta) |
|---|---|---|---|---|
| F85-1B64 | 10.10.4 (DG41) | 1440 mm | Pubblico/Stadii/Centri commerciali - 3KN/m fino a 5KN/m | |
| | | | | |

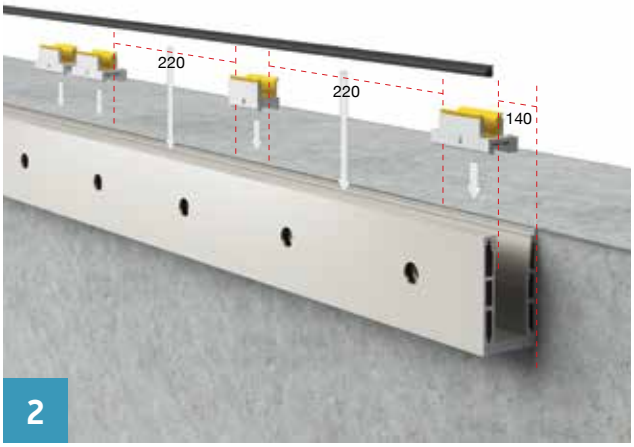
## ESTERNO ≥1.7 KN/m

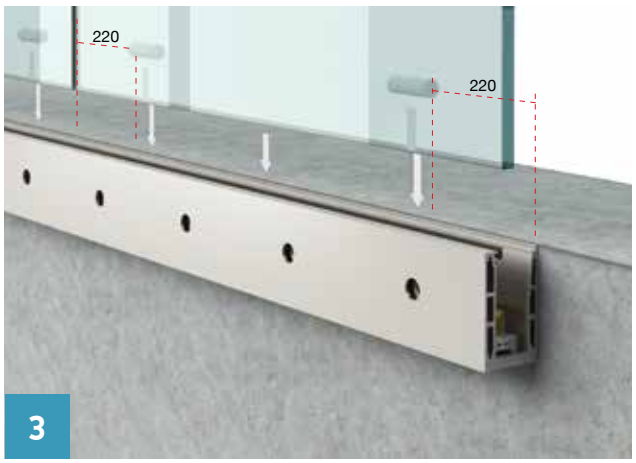


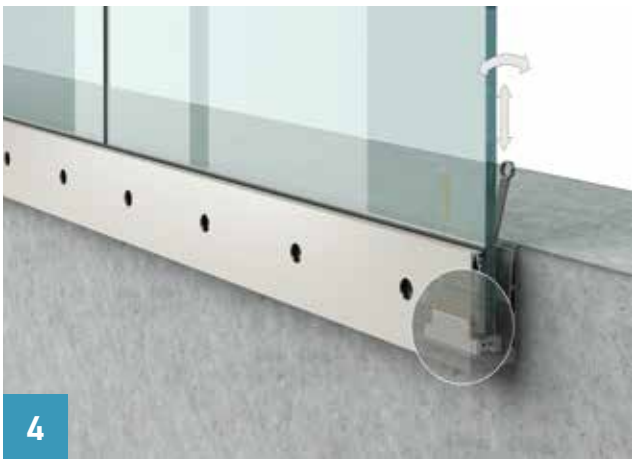



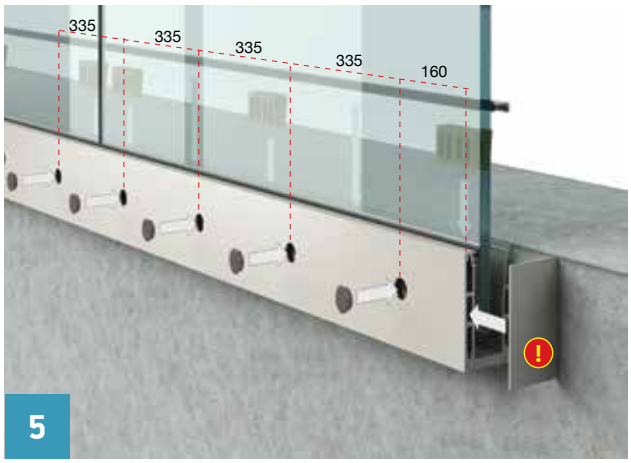
## Fasi di montaggio

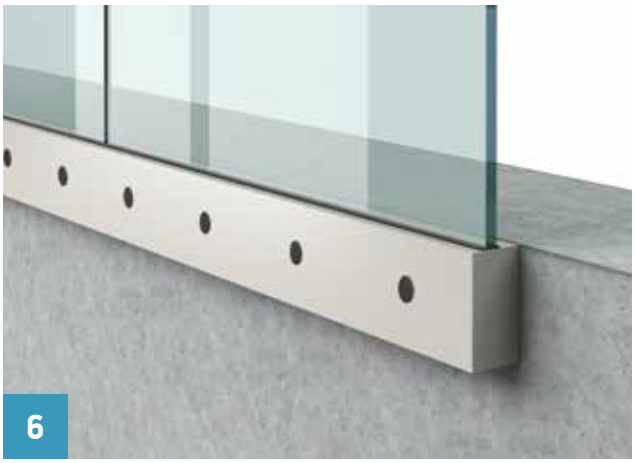


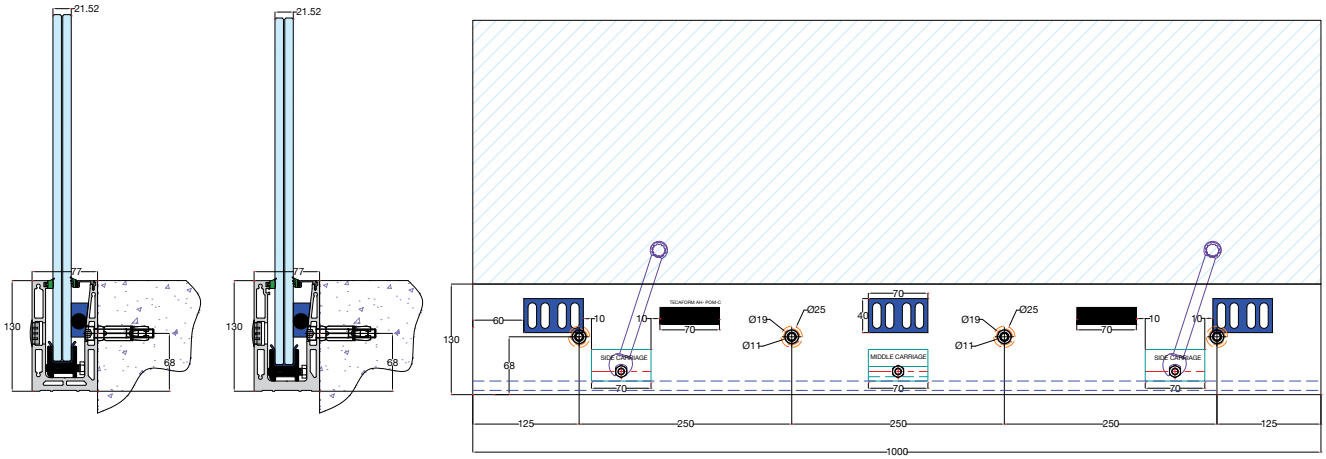



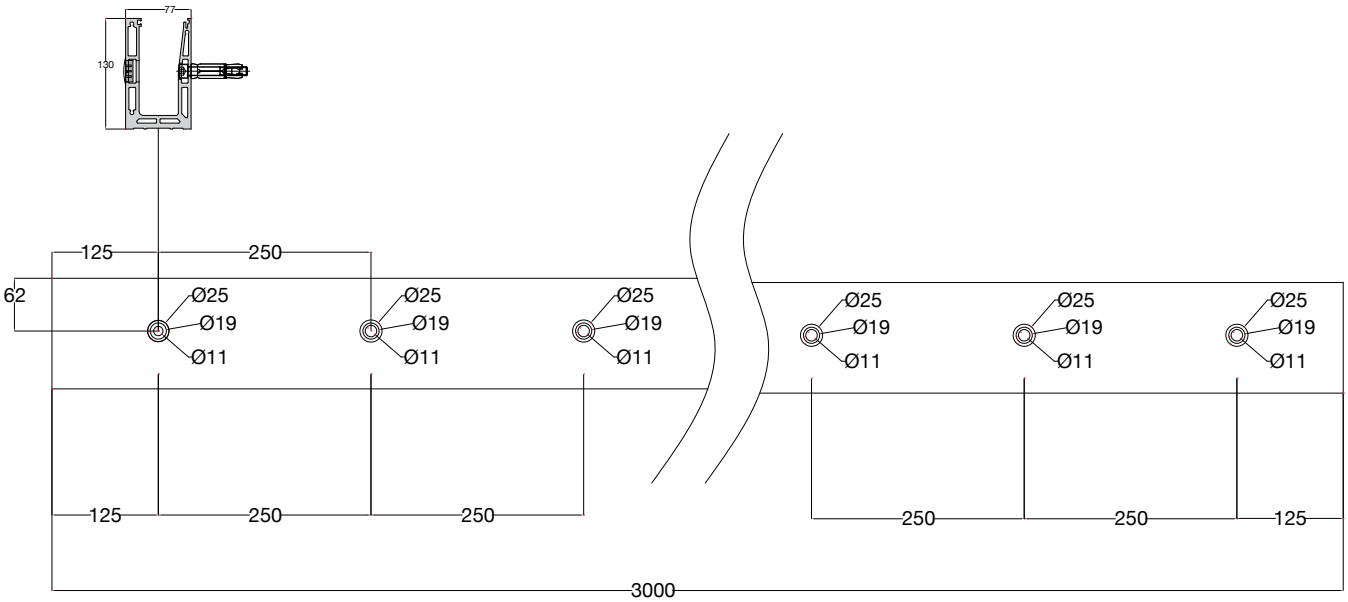



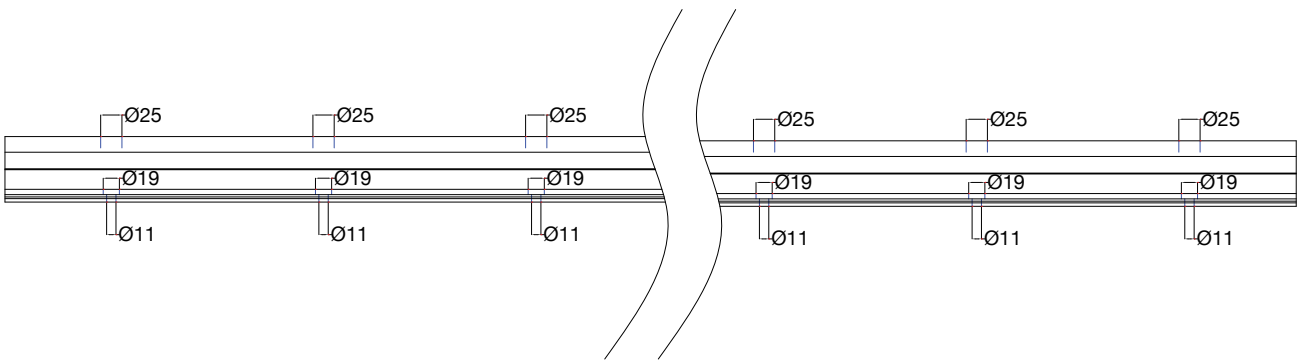





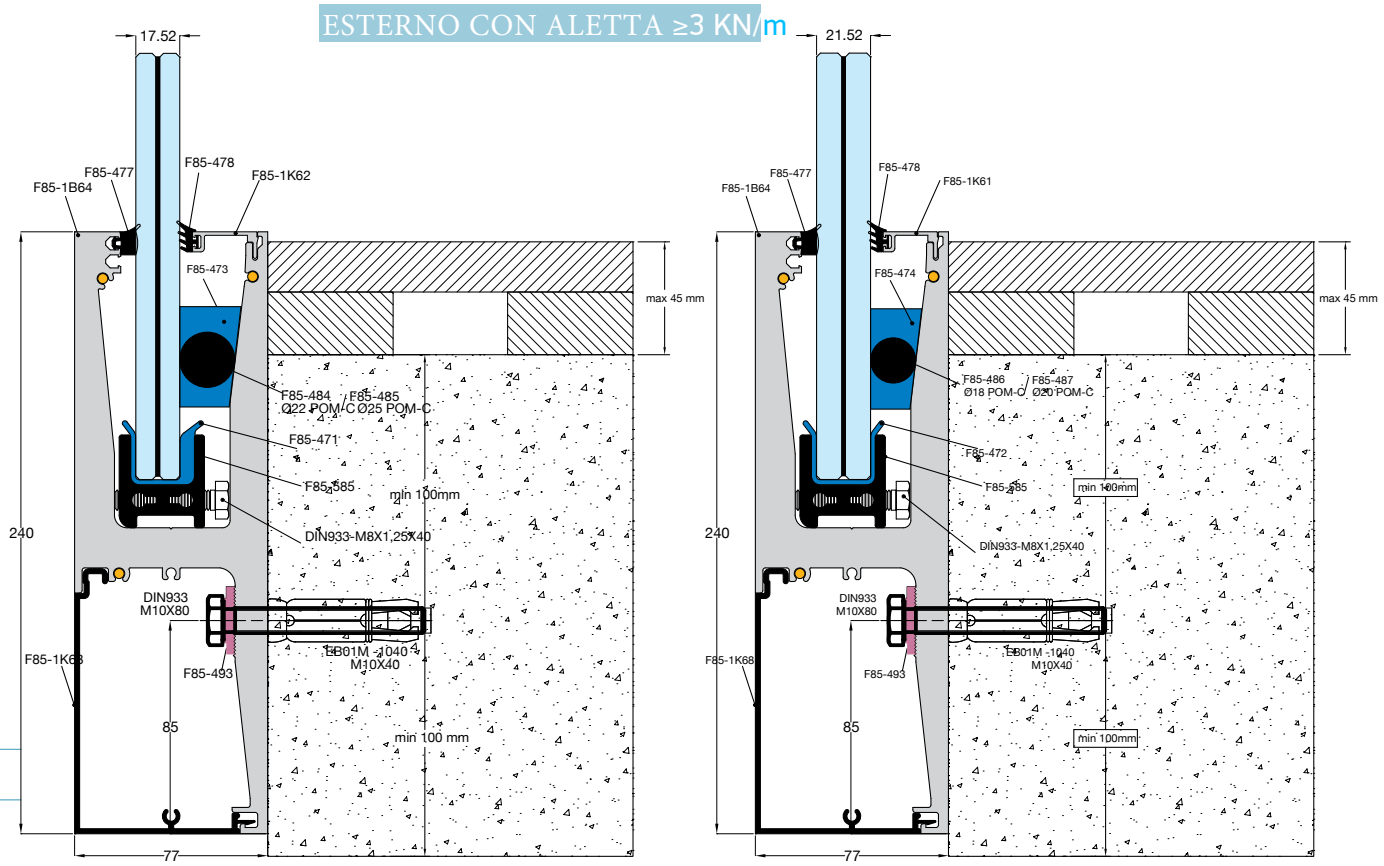

Spessore nastro biadesivo: 0.33 mm, larghezza: 15 mm

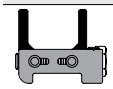
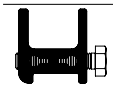
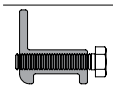

21.52
21.52
77
77
130
130
68
68
60
10
10
70
TECAFORM AH - POM-C
Ø19
Ø25
Ø11
40
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Ø25
Ø11
10
10
70
SIDE CARRIAGE
MIDDLE CARRIAGE
SIDE CARRIAGE
70
70
70
125
250
250
250
125
1000


77
130
125
250
62
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## ESTERNO CON ALETTA ≥3 KN/m

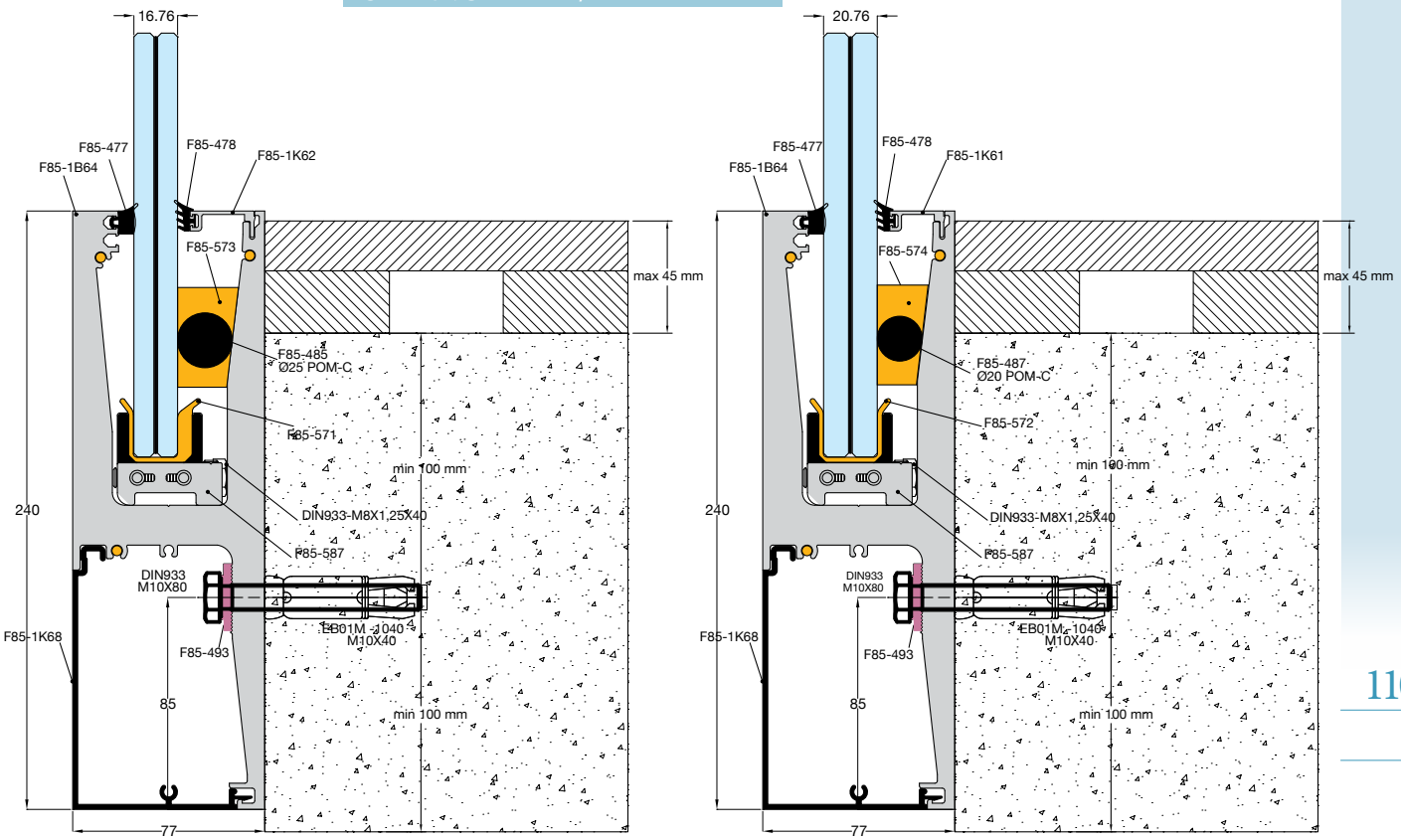


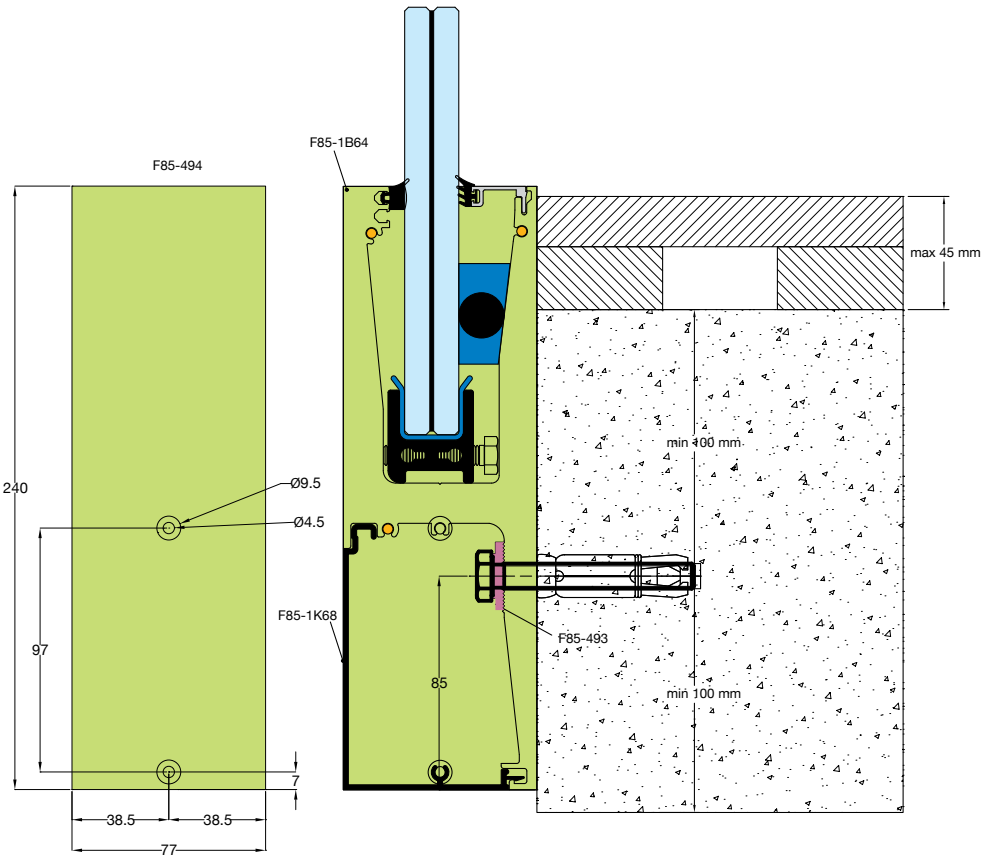

| Tipologia di carrello | | Tipologia di impiego |
|---|---|---|
|  | F85-587 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione e in altezza |
|  | F85-585 Carrello laterale (2 Pz/m) | Carrello regolabile per allineamento in oscillazione |
|  | F85-483 Carrello centrale (1 Pz/m) | Carrello fisso per supporto vetro |

| Tipologia di profilo per isolamento vetro | | Tipologia di vetro |
|---|---|---|
|  | F85-571 ABS PLASTIC | 8-DG41-8=16.76 mm |
|  | F85-471 ABS PLASTIC | 8-4PVB-8=17.52 mm |
|  | F85-572 ABS PLASTIC | 10-DG41-10=20.76 mm |
|  | F85-472 ABS PLASTIC | 10-4PVB-10=21.52 mm |

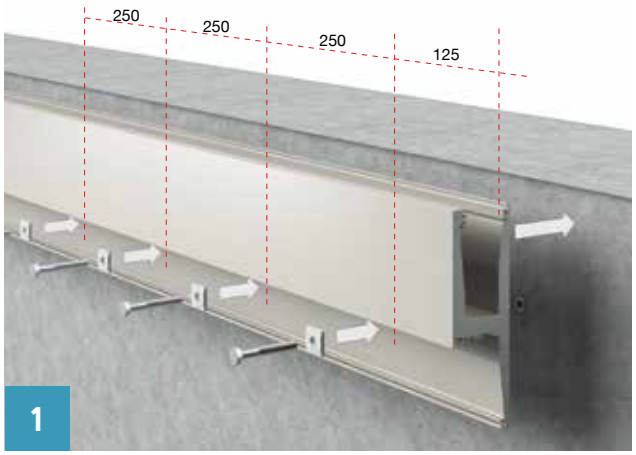
Applicabili con tutti i carrelli

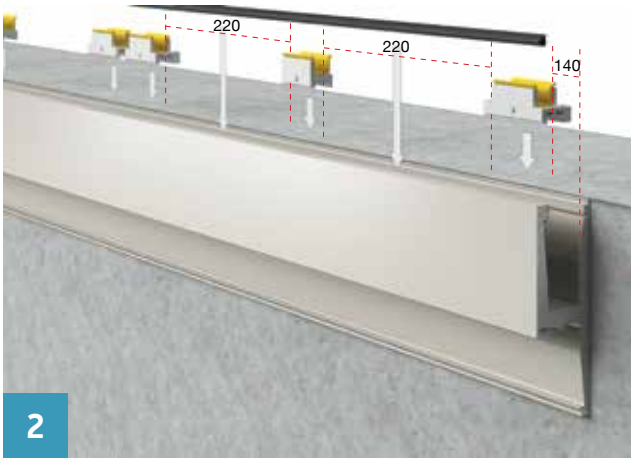
## ESTERNO ≥3 KN/m

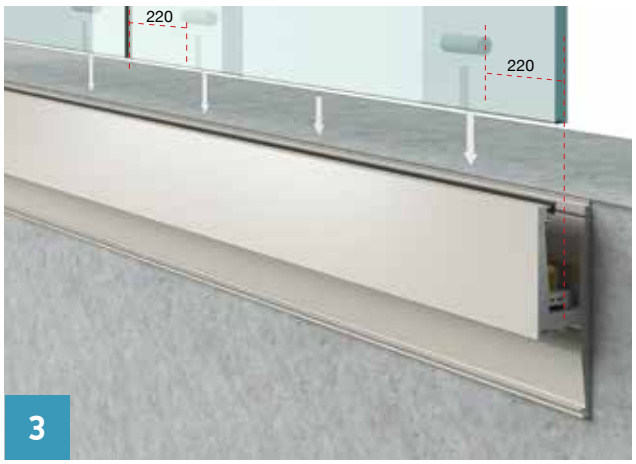


## Fasi di montaggio

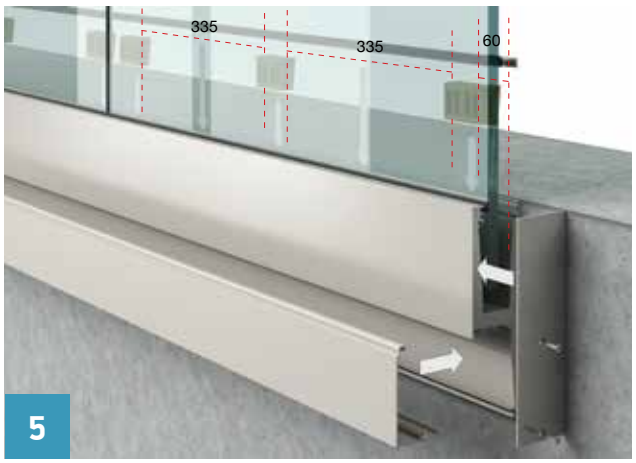


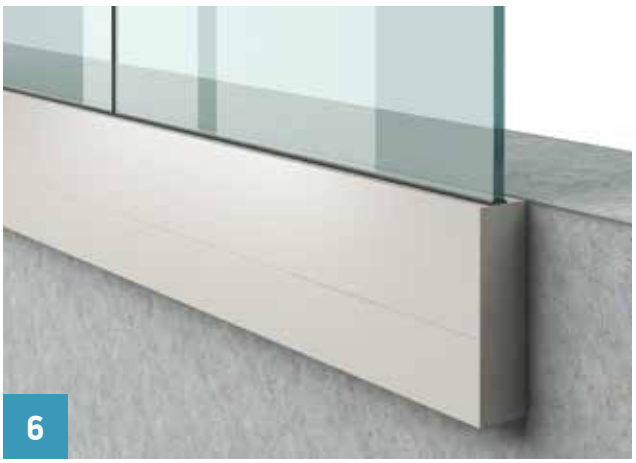



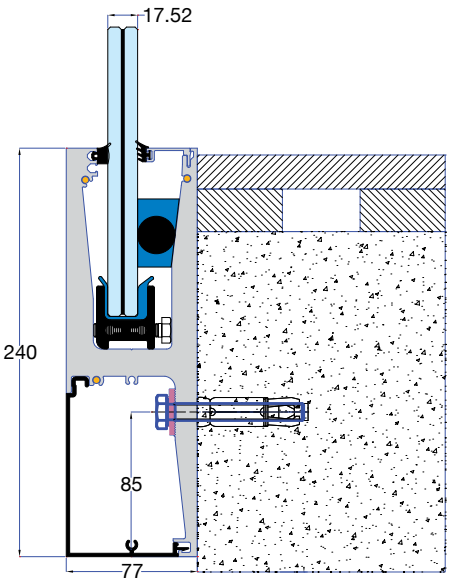



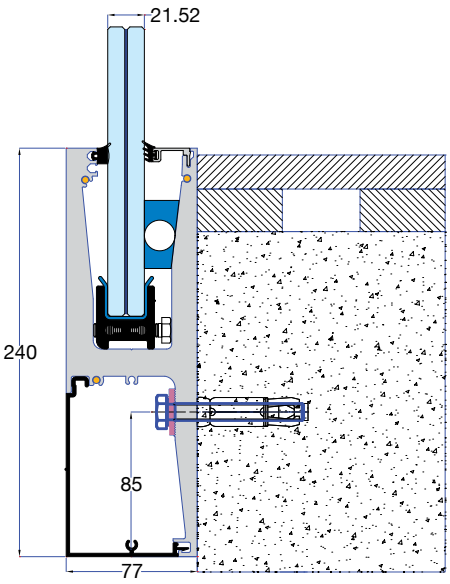




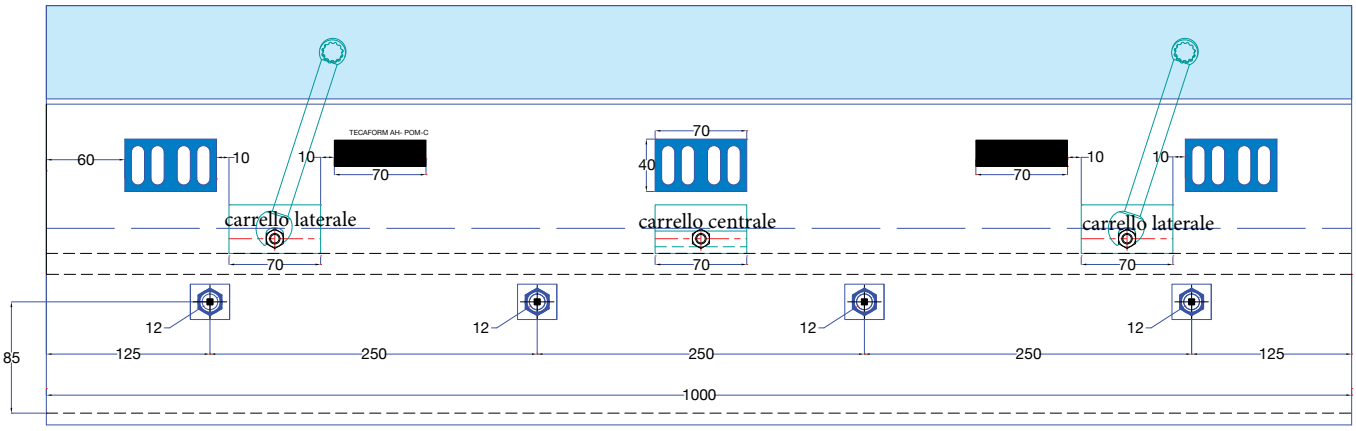


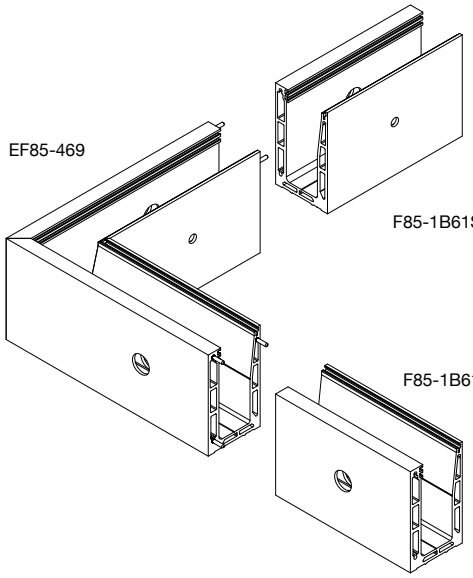

17.52
240
85
77

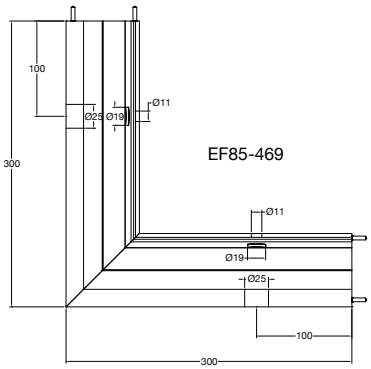

21.52
240
85
77




60
10
10
TECAFORM AH- POM-C
70
carrello laterale
70
70
40
carrello centrale
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carrello laterale
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125
250
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250
125
1000

## Angoli

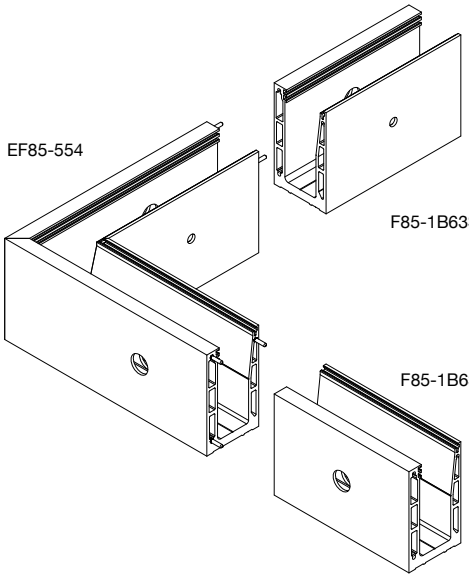


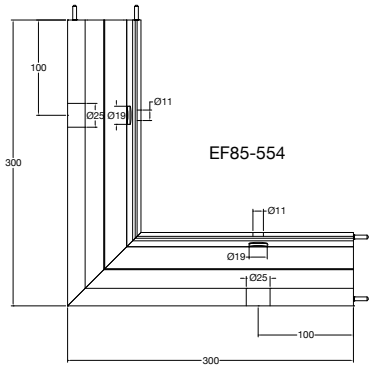



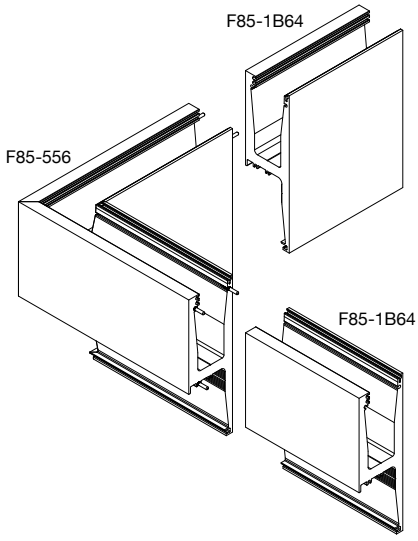

**Angolo esterno**

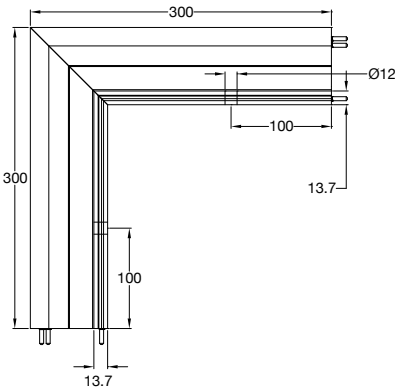


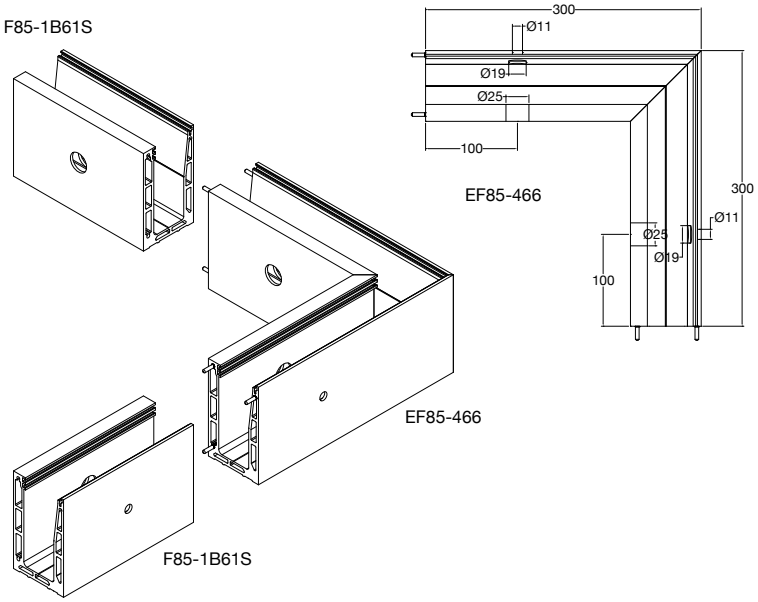


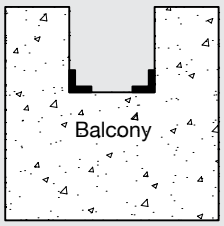



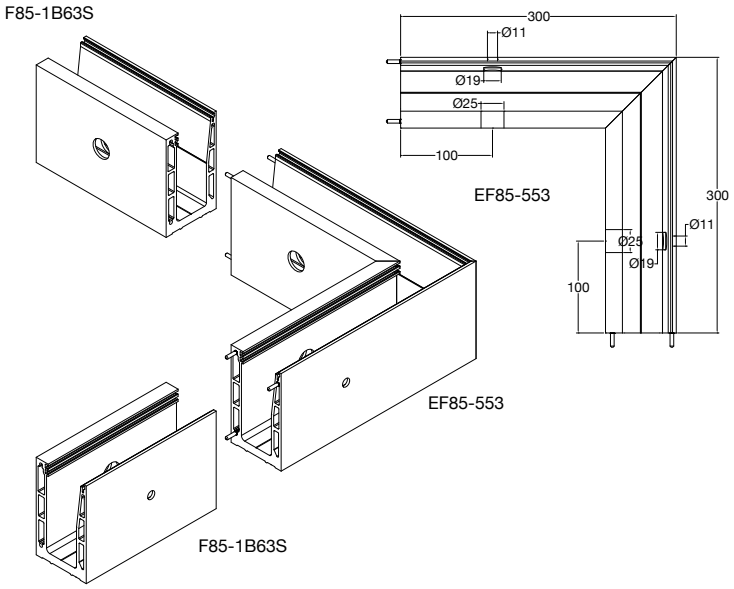



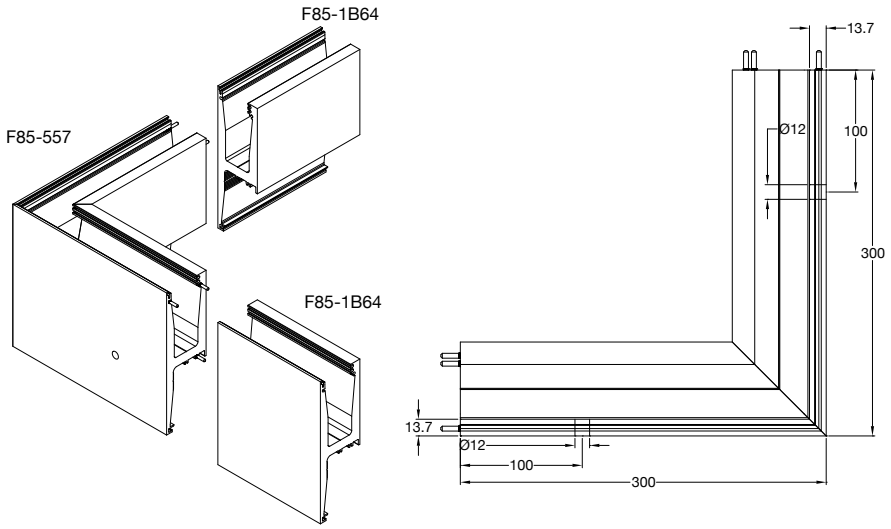



**Internal Balcony Connectors**





## Profili & accessori

### Esterno ≥1 KN/m



| Base a U | |
|---|---|
| Cod | **F85-1B61S*** (10.10.4) (8.8.4) |
| Peso | 7500 gr/m |
| Lunghezza | 3 m |



| Angolo interno | |
|---|---|
| Cod | **F85-466*** |
| Lunghezza | 30x30 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-469*** |
| Lunghezza | 30x30 cm |

### Esterno ≥1.7 KN/m



| Base a U | |
|---|---|
| Cod | **F85-1B63S*** (10.10.4) (8.8.4) |
| Peso | 7627 gr/m |
| Lunghezza | 3 m |



| Angolo interno | |
|---|---|
| Cod | **F85-553*** |
| Lunghezza | 30x30 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-554*** |
| Lunghezza | 30x30 cm |

### Esterno con aletta ≥3 KN/m



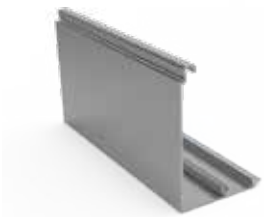
| Base a U | |
|---|---|
| Cod | **F85-1B64*** (10.10.4) (8.8.4) |
| Peso | 14953 gr/m |
| Lunghezza | 3 m |



| Angolo interno | |
|---|---|
| Cod | **F85-557*** |
| Lunghezza | 30x30 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-556*** |
| Lunghezza | 30x30 cm |



| Cover frontale | |
|---|---|
| Cod | **F85-1K68** |
| Peso | 1116 gr/m |
| Lunghezza | 3 m |



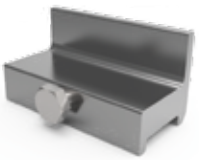
| Tappo finale | |
|---|---|
| Cod | **F85-488**** |
| Lunghezza | 77x130 mm |



| Tappo finale | |
|---|---|
| Cod | **F85-494*** |
| Lunghezza | 77x240 mm |



| Carrello regolabile | |
|---|---|
| Cod | **F85-585** |
| Peso | 117 gr |
| Lunghezza | 70 mm |



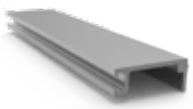
| Carrello fisso centrale | |
|---|---|
| Cod | **F85-483** |
| Peso | 97 gr |
| Lunghezza | 70 mm |



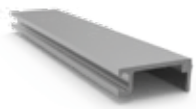
| Carrello centrale regolabile | |
|---|---|
| Cod | **F85-587** |
| Peso | 200 gr |
| Lunghezza | 100 mm |

* Viti di fissaggio incluse

** Nastro biadesivo incluso



| Cover interna | |
|---|---|
| Cod | **F85-1K61** (10.10.4) (10.10.2) |
| Peso | 178 gr/m |
| Lunghezza | 6 m |



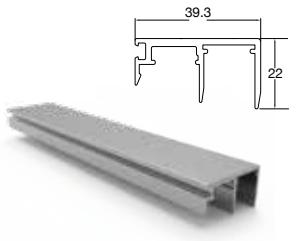
| Cover interna | |
|---|---|
| Cod | **F85-1K62** (8.8.4) (8.8.2) |
| Peso | 194 gr/m |
| Lunghezza | 6 m |



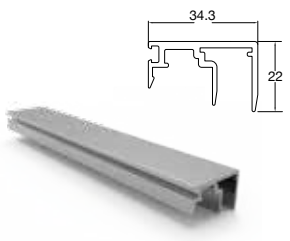
| Cover interna | |
|---|---|
| Cod | **F85-1K66** (8.8.2) (8.8.4) |
| Peso | 447 gr/m |
| Lunghezza | 6 m |



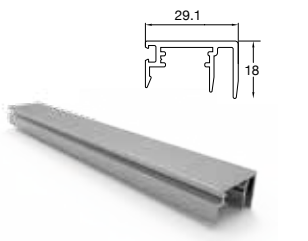
| Cover interna | |
|---|---|
| Cod | **F85-1K67** (10.10.2) (10.10.4) |
| Peso | 425 gr/m |
| Lunghezza | 6 m |




| Cover esterna per pannello 15 mm | |
|---|---|
| Cod | **F85-1K63** |
| Peso | 475 gr/m |
| Lunghezza | 6 m |




| Cover esterna per pannello 10 mm | |
|---|---|
| Cod | **F85-1K64** |
| Peso | 460 gr/m |
| Lunghezza | 6 m |




| Cover esterna per pannello 5 mm | |
|---|---|
| Cod | **F85-1K65** |
| Peso | 349 gr/m |
| Lunghezza | 6 m |



| Perno di collegamento | |
|---|---|
| Cod | **F85-481** |



| Tappo esterno Ø26 | |
|---|---|
| Cod | **F85-475** |

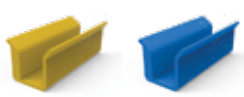




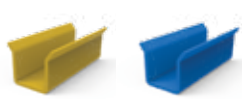
| Supporto intermedio | |
|---|---|
| Cod | **F85-484 Ø22** (8.8.4) |
| | **F85-485 Ø25** (8.8.2m) |
| | **F85-486 Ø18** (10.10.4) |
| | **F85-487 Ø20** (10.10.2) |
| Lunghezza | 70 mm |



| Supporti base | | |
|---|---|---|
| Cod | **F85-473** • | (8.8.4) |
| | **F85-573** • | (8.8.2) |
| | **F85-474** • | (10.10.4) |
| | **F85-574** • | (10.10.2) |
| Lunghezza | | 70 mm |



| Supporti vetro | | |
|---|---|---|
| Cod | **F85-471** • | (8.8.4) |
| | **F85-571** • | (8.8.2) |
| Lunghezza | | 70 mm |



| Supporti vetro | | |
|---|---|---|
| Cod | **F85-472** • | (10.10.4) |
| | **F85-572** • | (10.10.2) |
| Lunghezza | | 70 mm |



| M10x80 | |
|---|---|
| Cod | **EB01M-1080G01** |

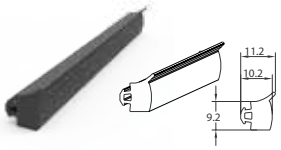


| M10x70 | |
|---|---|
| Cod | **EB01M-1070G01** |

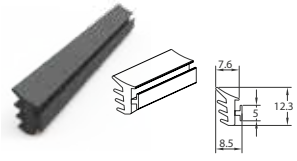


| Distanziatore | |
|---|---|
| Cod | **F85-493** |

*Incluso nel F85-1B64/556/557, ma disponibile separatamente*

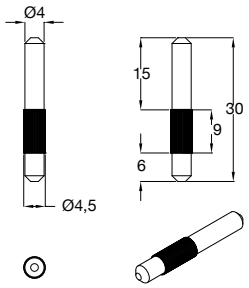


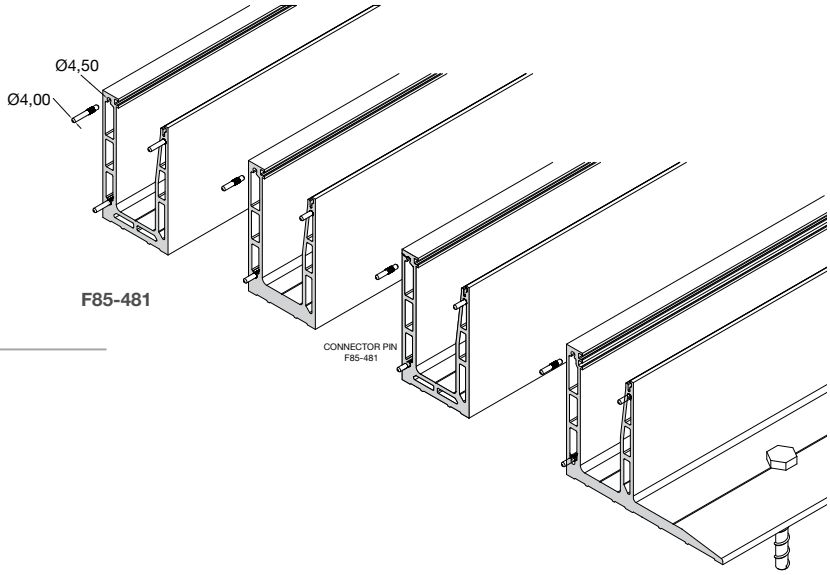

| Guarnizione base | |
|---|---|
| Cod | **F85-477** |
| Lunghezza | 100 m |




| Guarnizione vetro | |
|---|---|
| Cod | **F85-478** |
| Lunghezza | 100 m |

## Assemblaggio



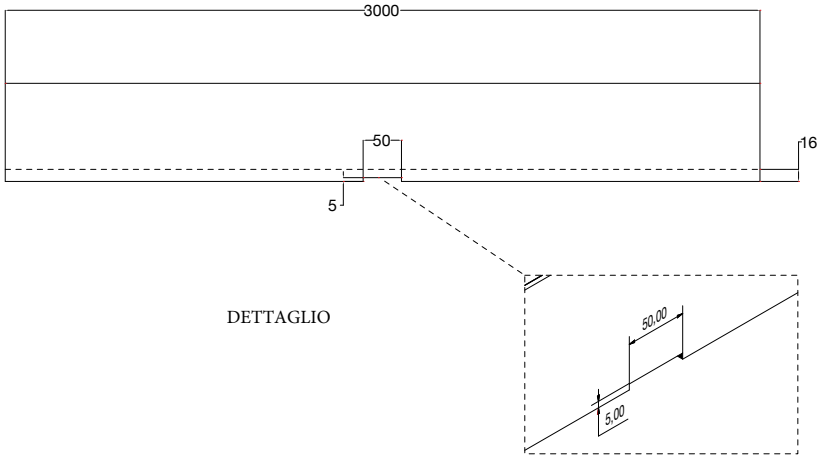



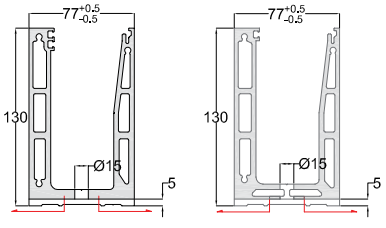

F85-481

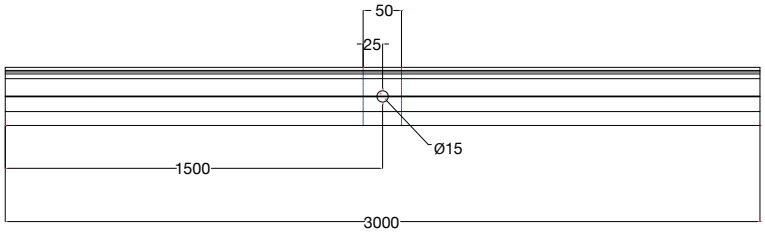
ATTENZIONE: si raccomanda di utilizzare i perni di allineamento per strutture maggiori di 3 ml

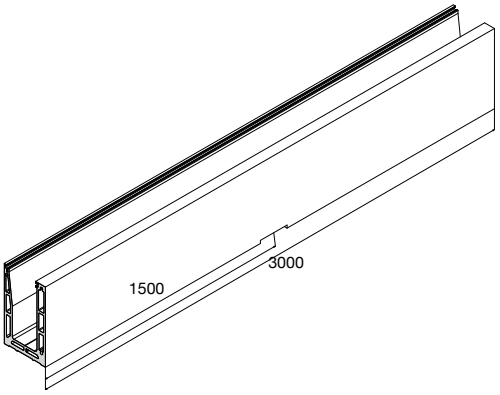


## Lavorazione per scarico acqua



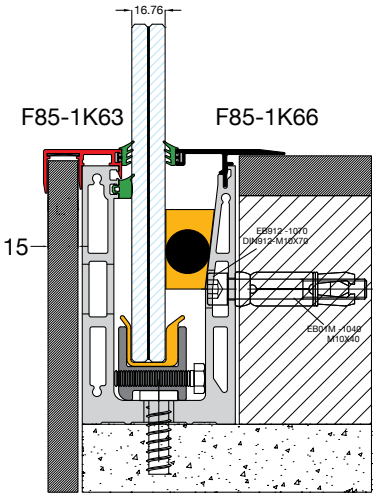



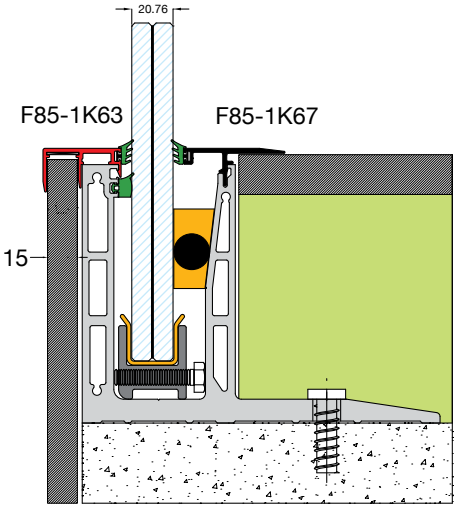



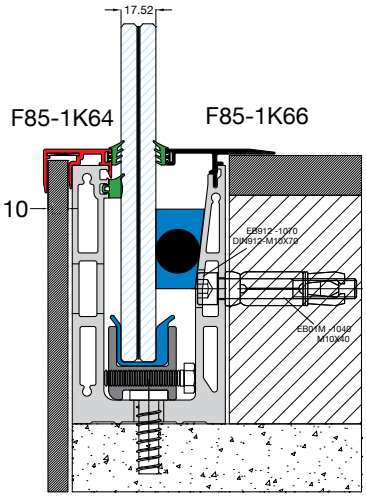



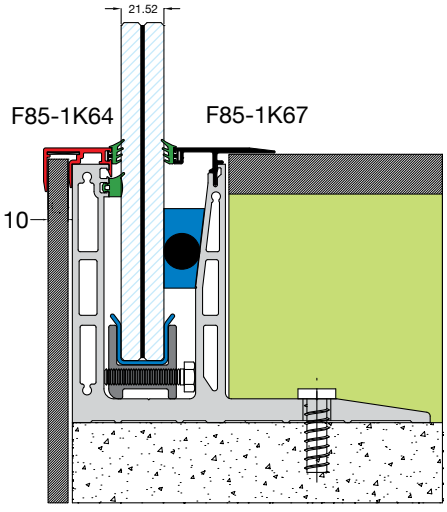
## L-LINE CON INSERIMENTO DI PANNELLI ESTERNI

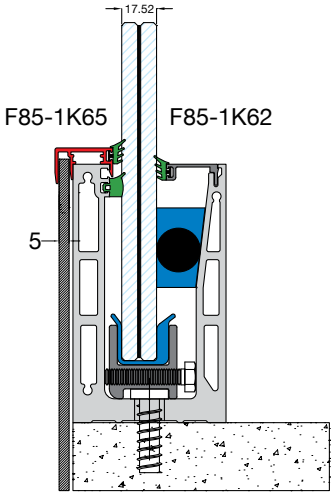


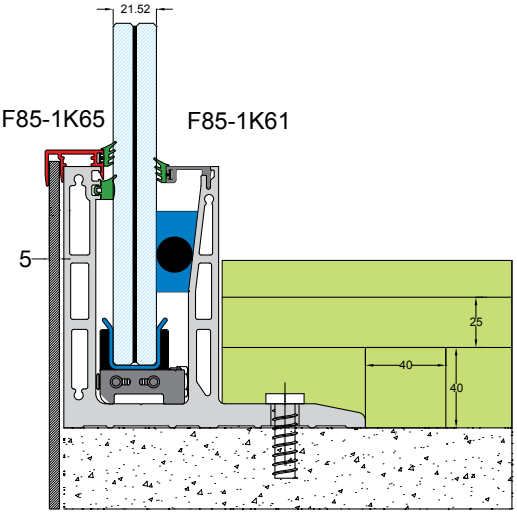


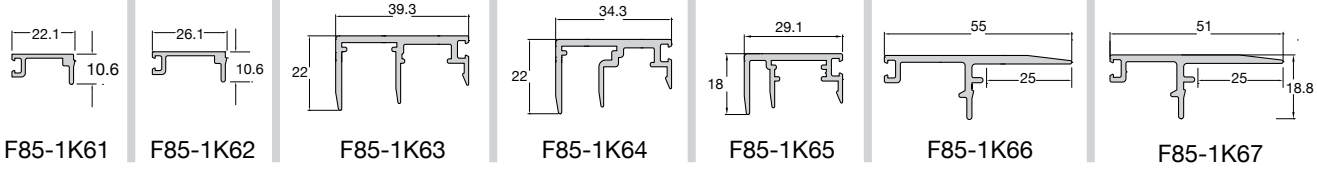



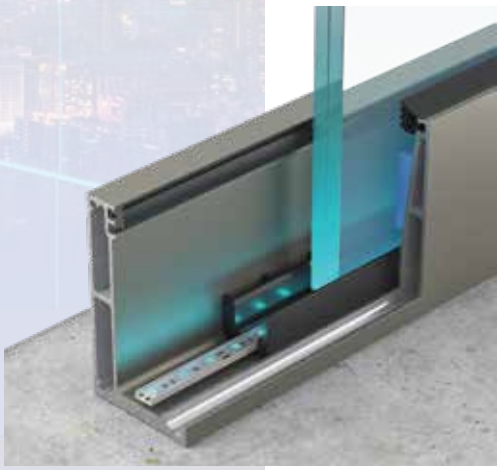




UTILIZZABILI SOLO CON I PROFILI F85-1B62, F85-1B63, F85-1B64


Slim•line
sul pavimento
CERTIFIED BY
ift
ROSENHEIM
CERTIFIÉ PAR





INSERIMENTO LUCI A LED (OPTIONAL)

## Fasi di montaggio



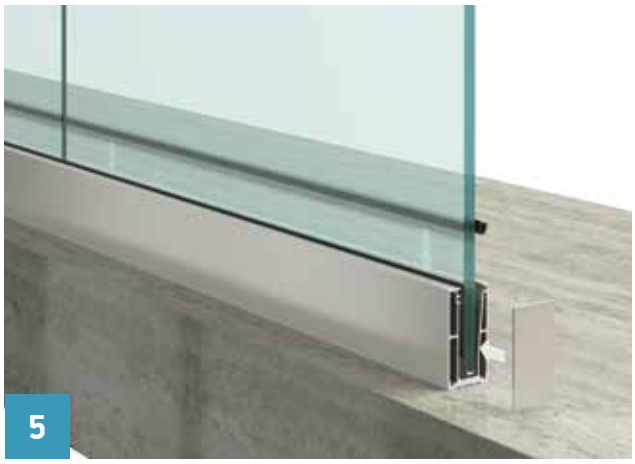


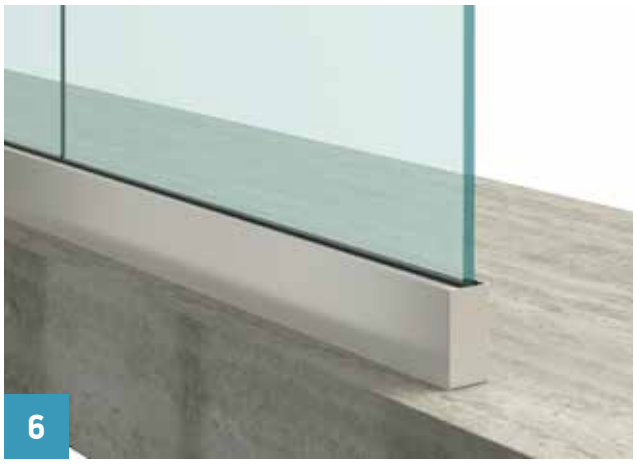




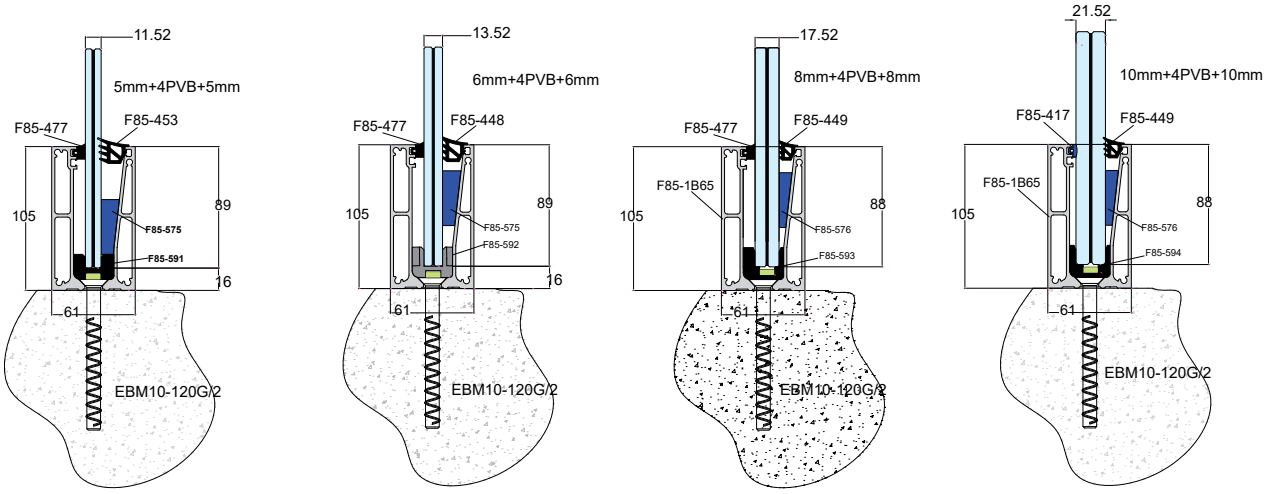


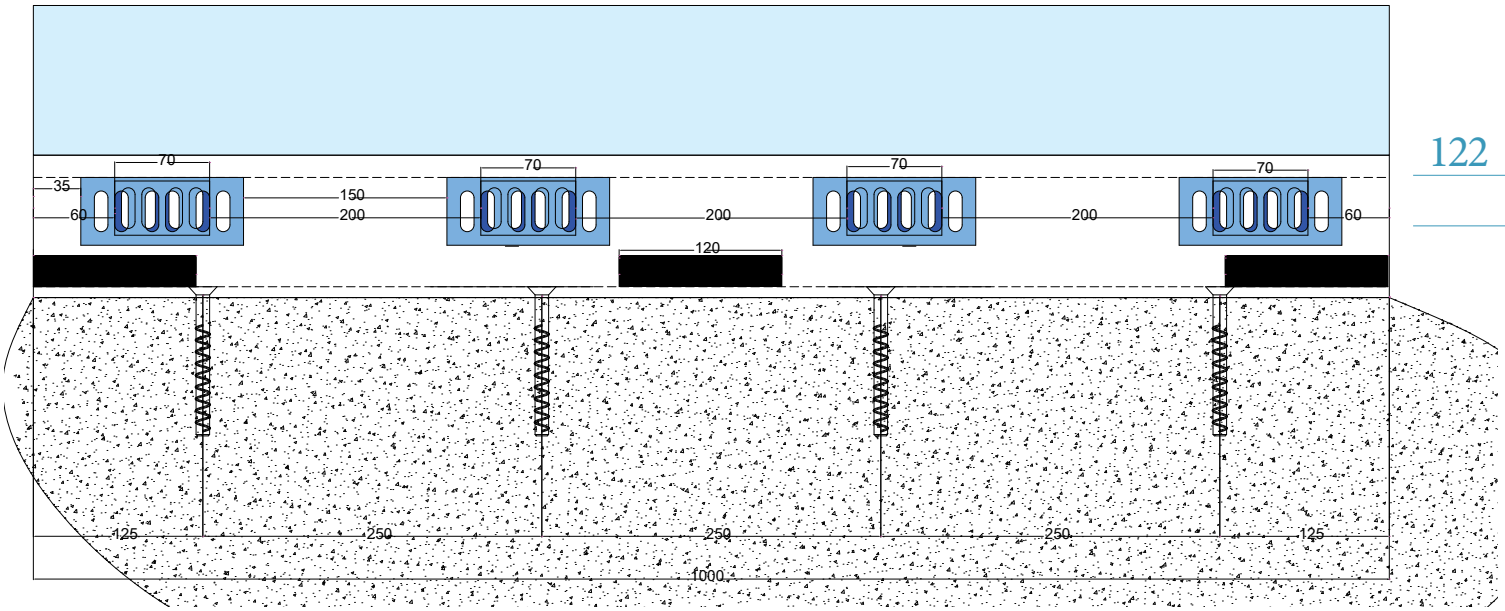




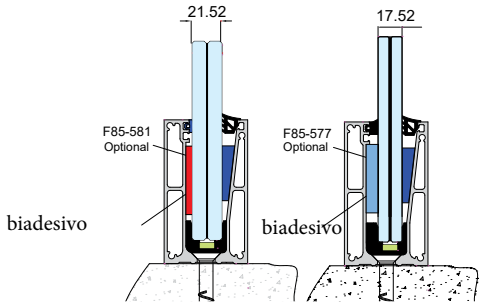



## SEZIONI



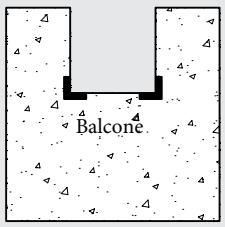


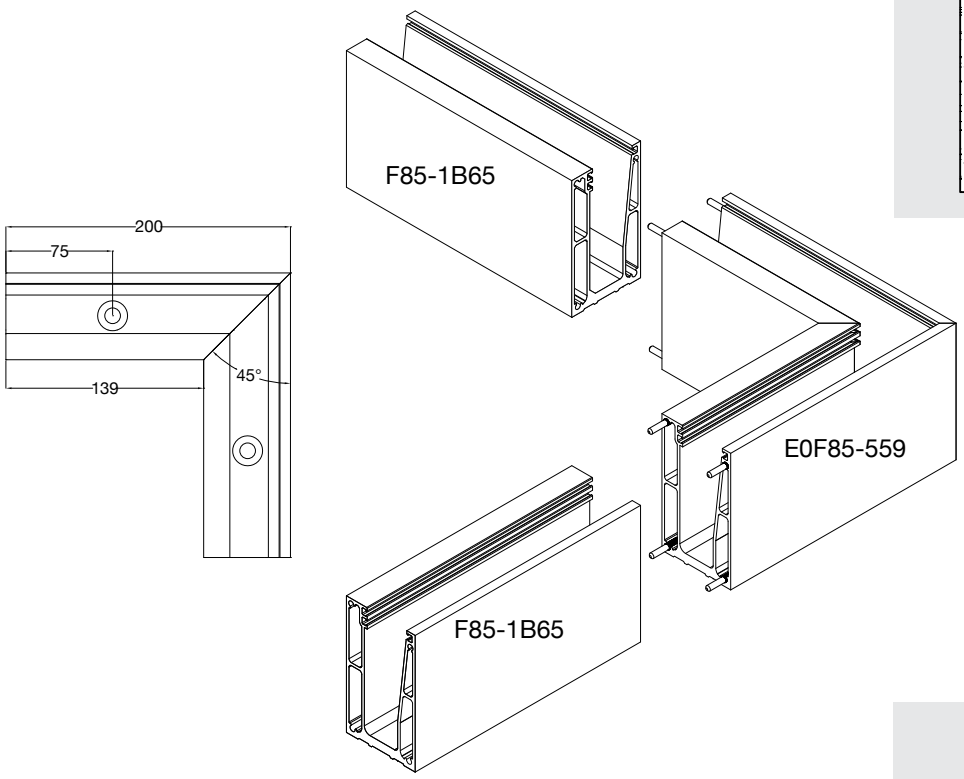




**Optional l'uso di cunei di allineamento.**
I cunei F85-577 e F85-581 si possono usare con vetri 8.8.4 e 10.10.4 dove è richiesta una maggiore resistenza al carico i spinta.

## Angoli

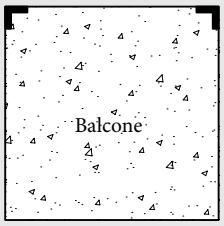
**Angolo interno**

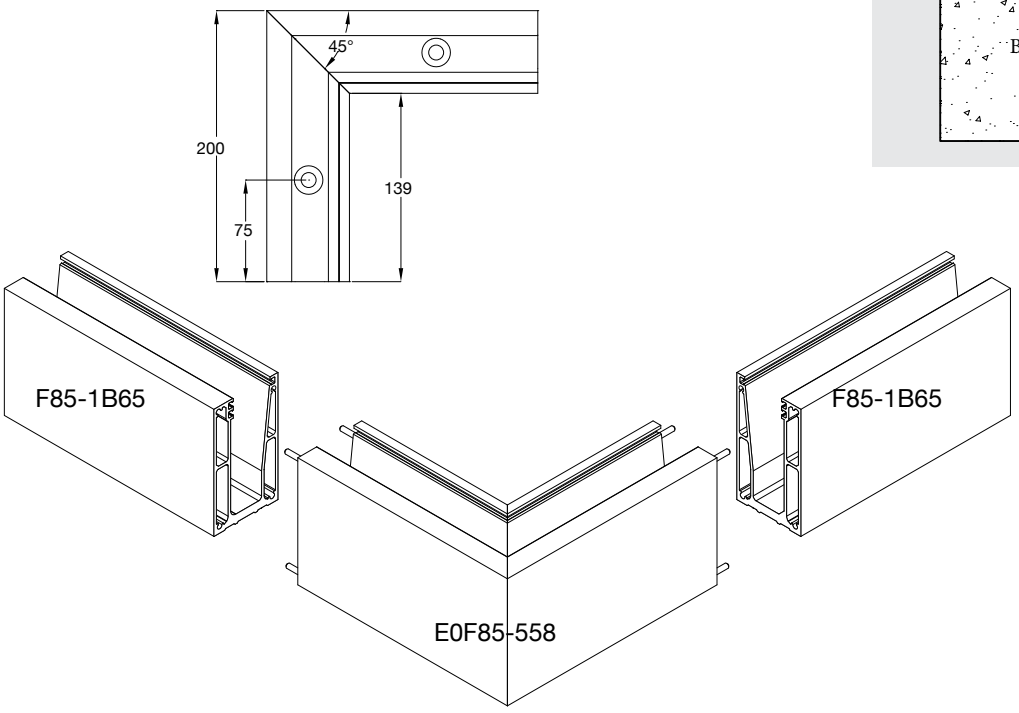


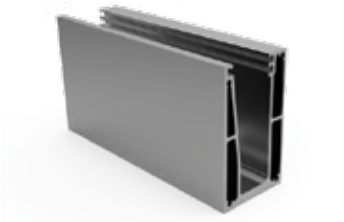



**Balcone esterno**



## Profili & accessori



| PROFILO BASE SLIM LINE | |
|---|---|
| Cod | **F85-1B65T1 (6m)**<br>**F85-1B65T2 (3m)** |
| Peso | 3.837 gr/m |




| ANGOLO ESTERNO SLIM LINE | |
|---|---|
| Cod | **F85-558** |
| Lunghezza | 20x20 cm |




| ANGOLO INTERNO SLIM LINE | |
|---|---|
| Cod | **F85-559** |
| Materiale | Alum. |
| Lunghezza | 20x20 cm |



| GUARNIZIONE BASE | |
|---|---|
| Cod | **F85-417** (10.10.4) |
| Materiale | PVC |



| GUARNIZIONE BASE | |
|---|---|
| Cod | **F85-448** (6.6.4)<br>**F85-449** (8.8.4, 10.10.4) |
| Materiale | EPDM |



| GUARNIZIONE BASE | |
|---|---|
| Code | **F85-453** (5.5.4) |
| Materiale | EPDM |

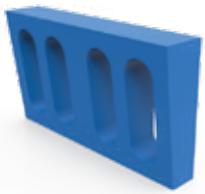


| GUARNIZIONE BASE | |
|---|---|
| Cod | **F85-477** (5.5.4, 6.6.4, 8.8.4) |
| Materiale | PVC |
| Lunghezza | 100 m |

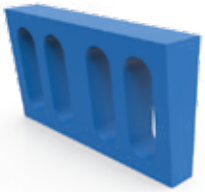




| TAPPO FINALE BASE SLIM LINE | |
|---|---|
| Cod | **F85-495** |



| SUPPORTO IN PVC L70mm | |
|---|---|
| Cod | **F85-575** (5.5.4, 6.6.4)<br>**F85-576** (8.8.4, 10.10.4) |



| SUPPORTO IN PVC | |
|---|---|
| Cod | **F85-577** (5.5.4, 6.6.4, 8.8.4) |



| SUPPORTO IN PVC | |
|---|---|
| Cod | **F85-581** (10.10.4) |



| SUPPORTO VETRO IN PLASTICA | |
|---|---|
| Cod | **F85-591** (5.5.4)<br>**F85-592** (6.6.4)<br>**F85-593** (8.8.4) |
| Materiale | PVC |



| SUPPORTO VETRO IN PLASTICA | |
|---|---|
| Code | **F85-594** (10.10.4) |
| Materiale | PVC |



| SCREW DIN 7991 M10x70 Inox<br>VIS DIN 7991 M10x70 Inox | |
|---|---|
| Code | **D7991-0023I** |



| EXPANSION PLUG<br>COQUE D' EXPANSION | |
|---|---|
| Code | **EB01M-1040** |



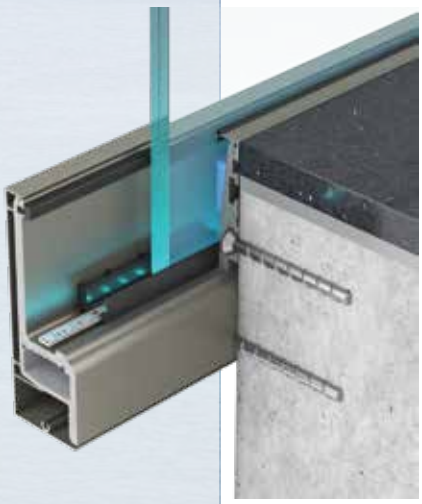
| PERNO | |
|---|---|
| Cod | **F85-481** |
| Materiale | Inox 304 |



| VITI TORX 10X120 | |
|---|---|
| Cod | **EBM-10120G/2** |

# Slim•line
## ESTERNO





INSERIMENTO LUCI A LED (OPTIONAL)

# Slim•line

## Fasi di montaggio



1



2



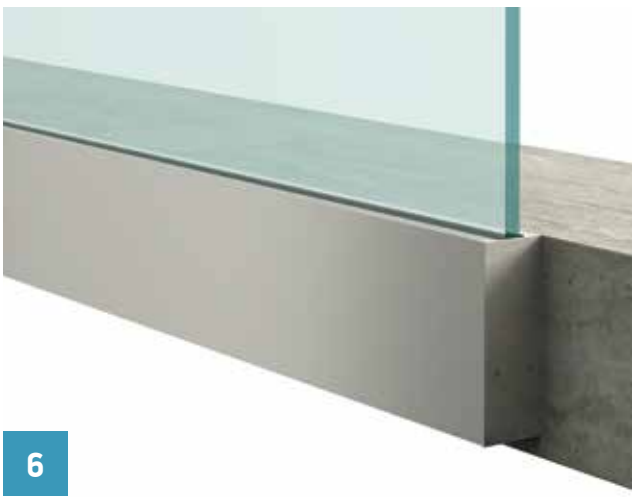
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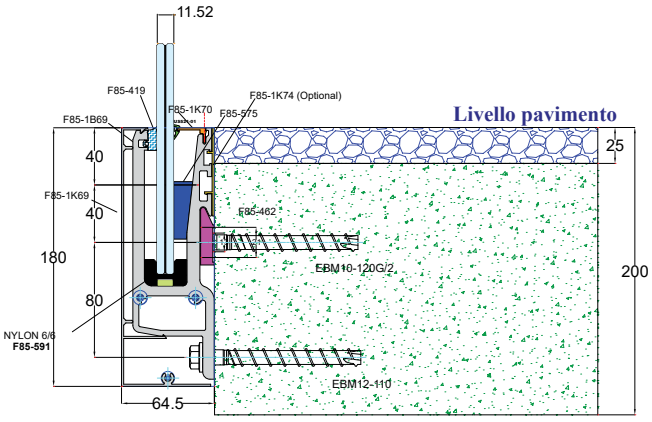
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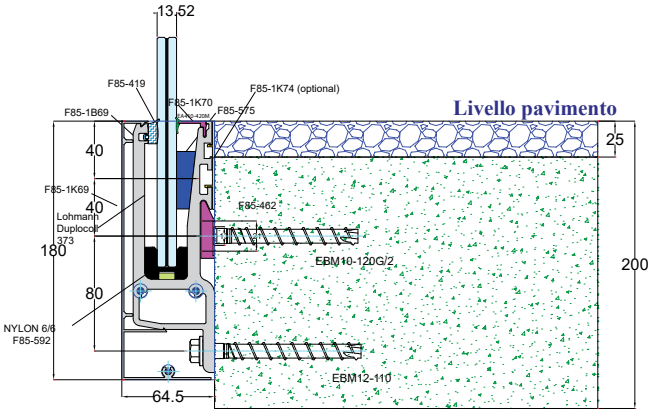


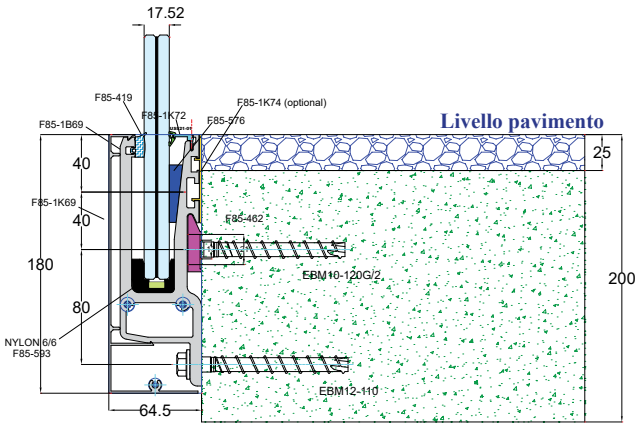
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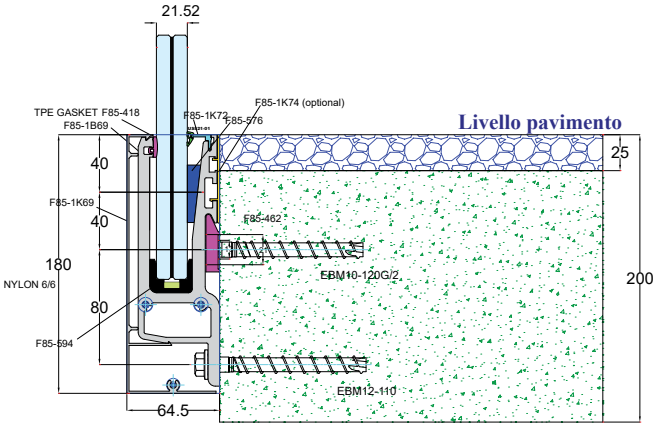


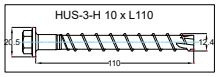
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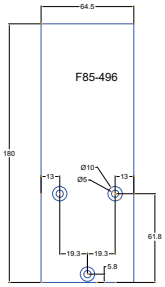


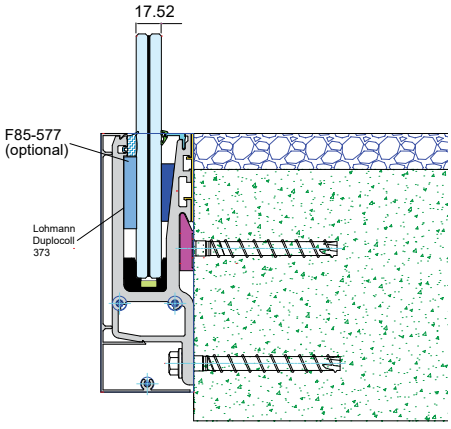



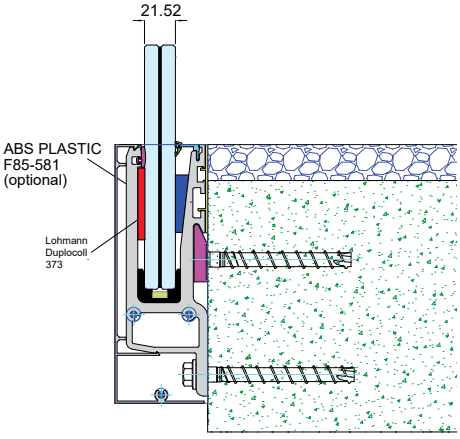



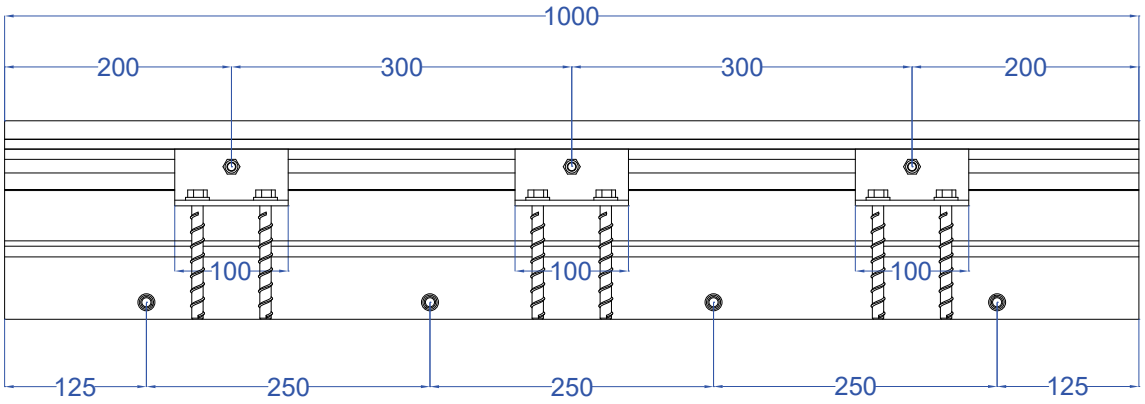



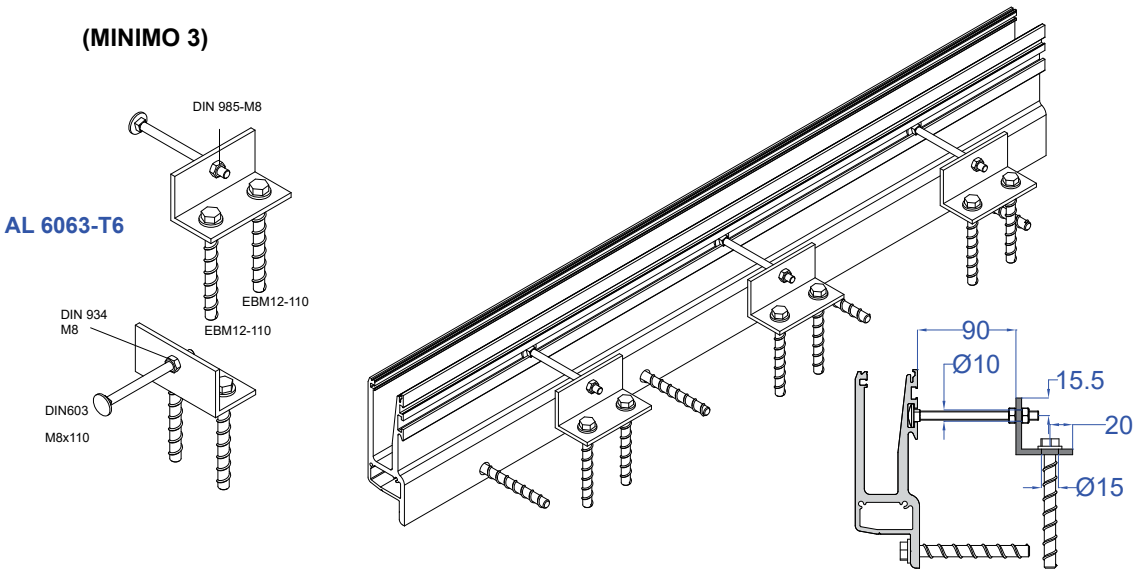

**Optional l'uso di cunei di allineamento.**

I cunei F85-577 e F85-581 si possono usare con vetri 8.8.4 e 10.10.4 dove è richiesta una maggiore resistenza al carico i spinta.

## Fissaggio delle basi

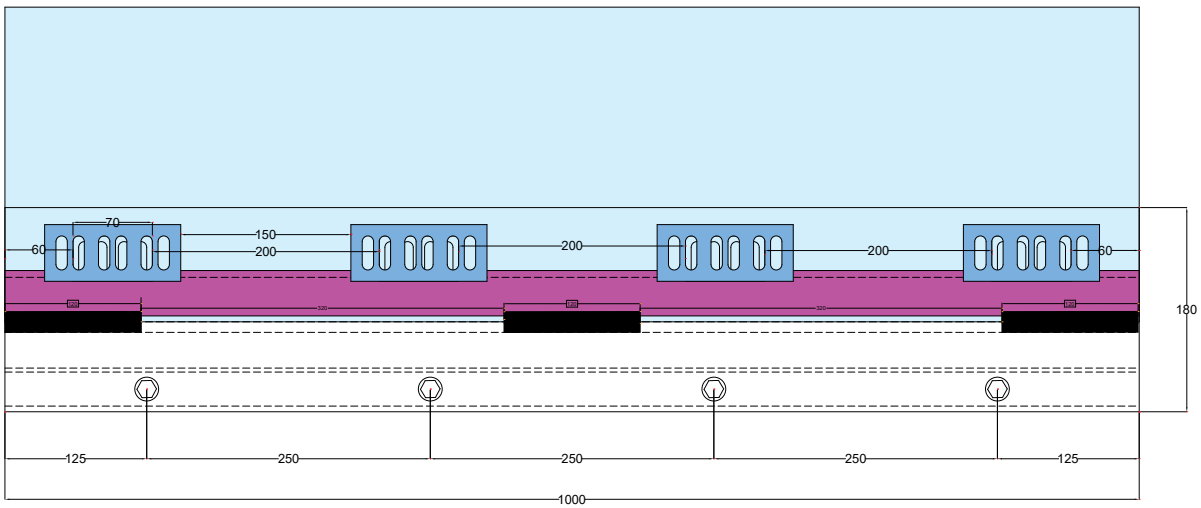


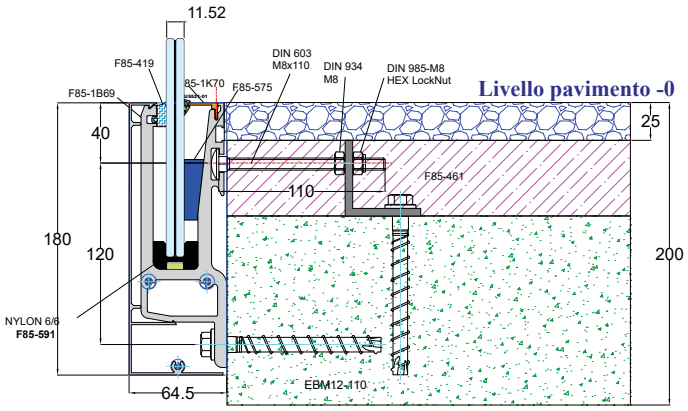

**(MINIMO 3)**

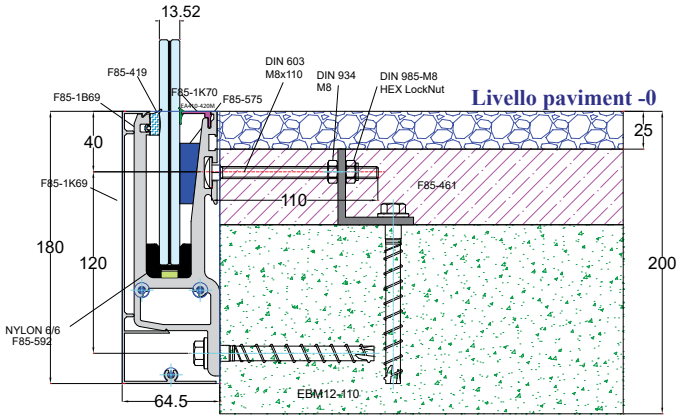


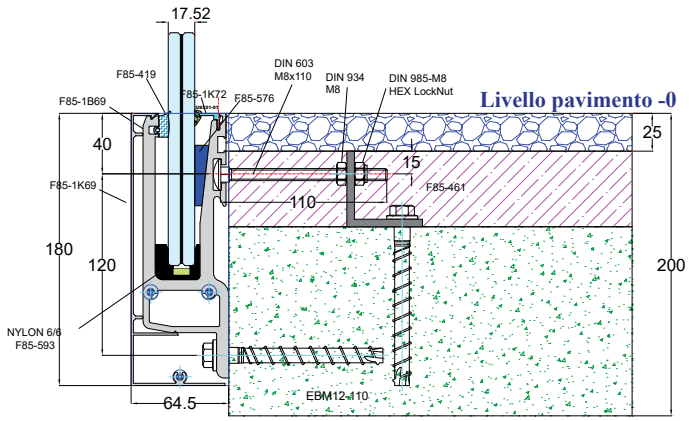


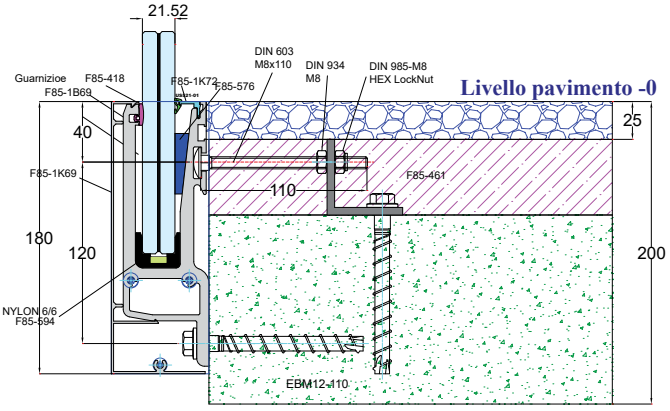

Max. altezza ringhiera da livello pavimento 0 ---> 1200mm

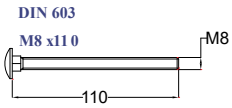


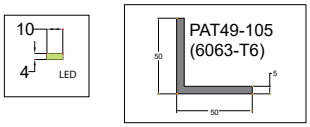


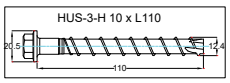



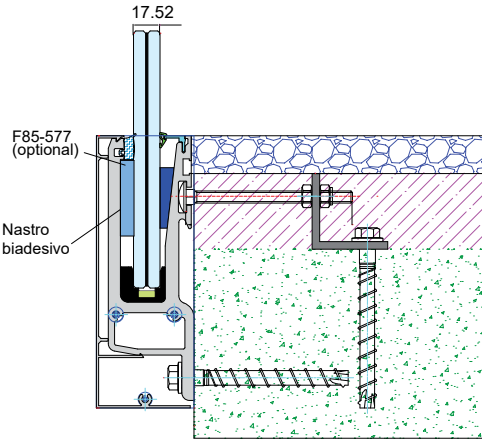



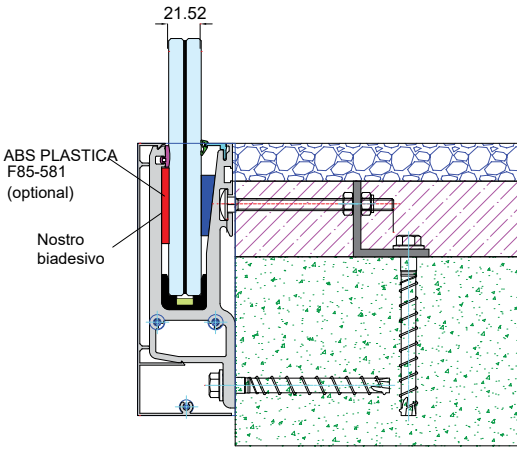



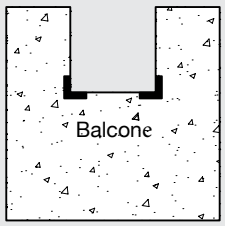




**Optional l'uso di cunei di allineamento**

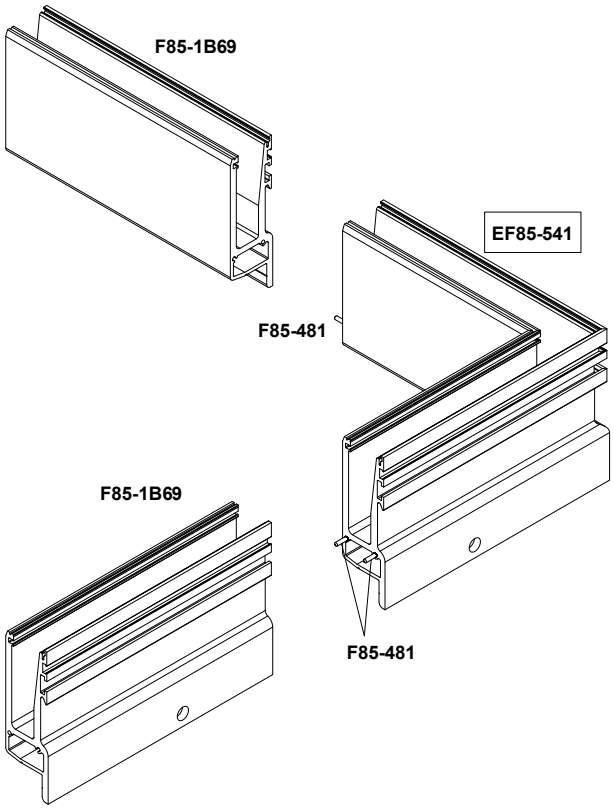
I cunei F85-577 e F85-581 si possono usare con vetri 8.8.4 e 10.10.4 dove è richiesta una maggiore resistenza al carico i spinta.

## Fissaggio delle basi

**Balcone interno**

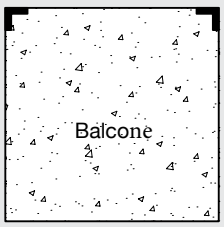



**CONNETTORE INTERNO**

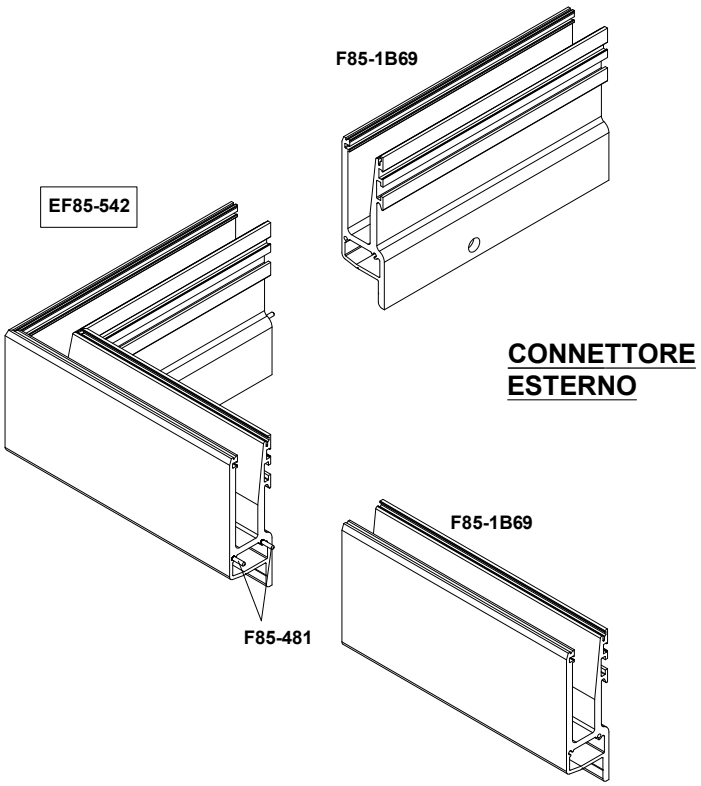




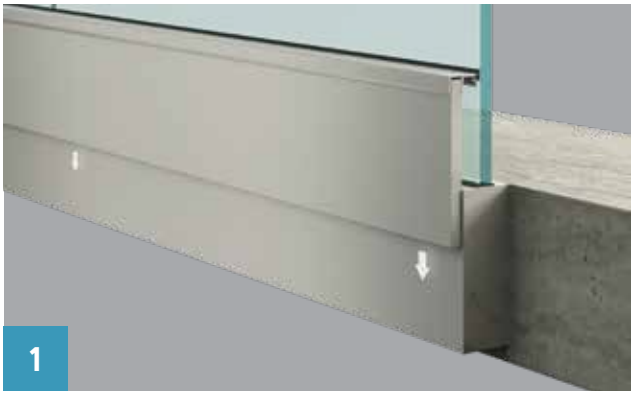

**Balcone esterno**

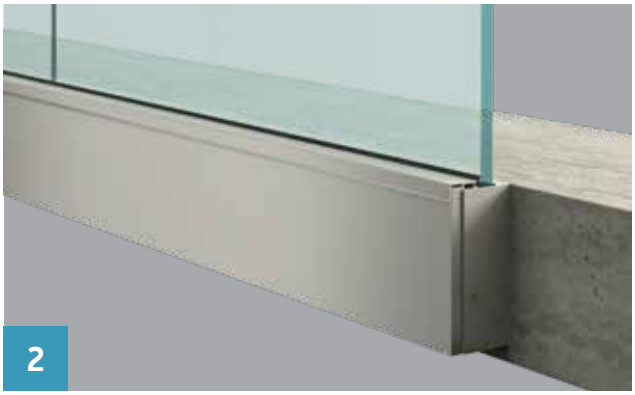



**CONNETTORE ESTERNO**

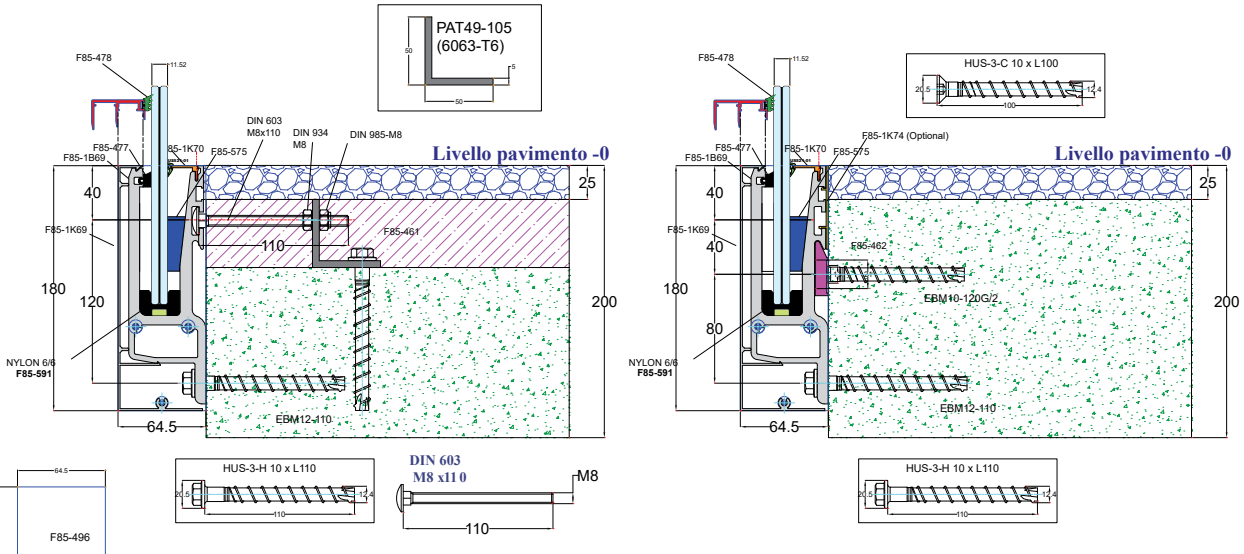


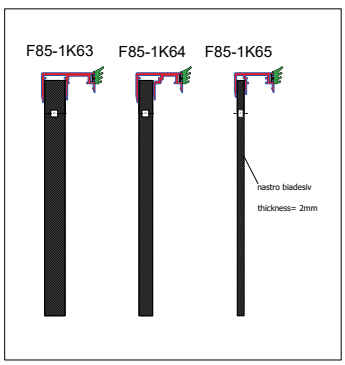
## Montaggio pannello frontale (optional)




## Sezioni



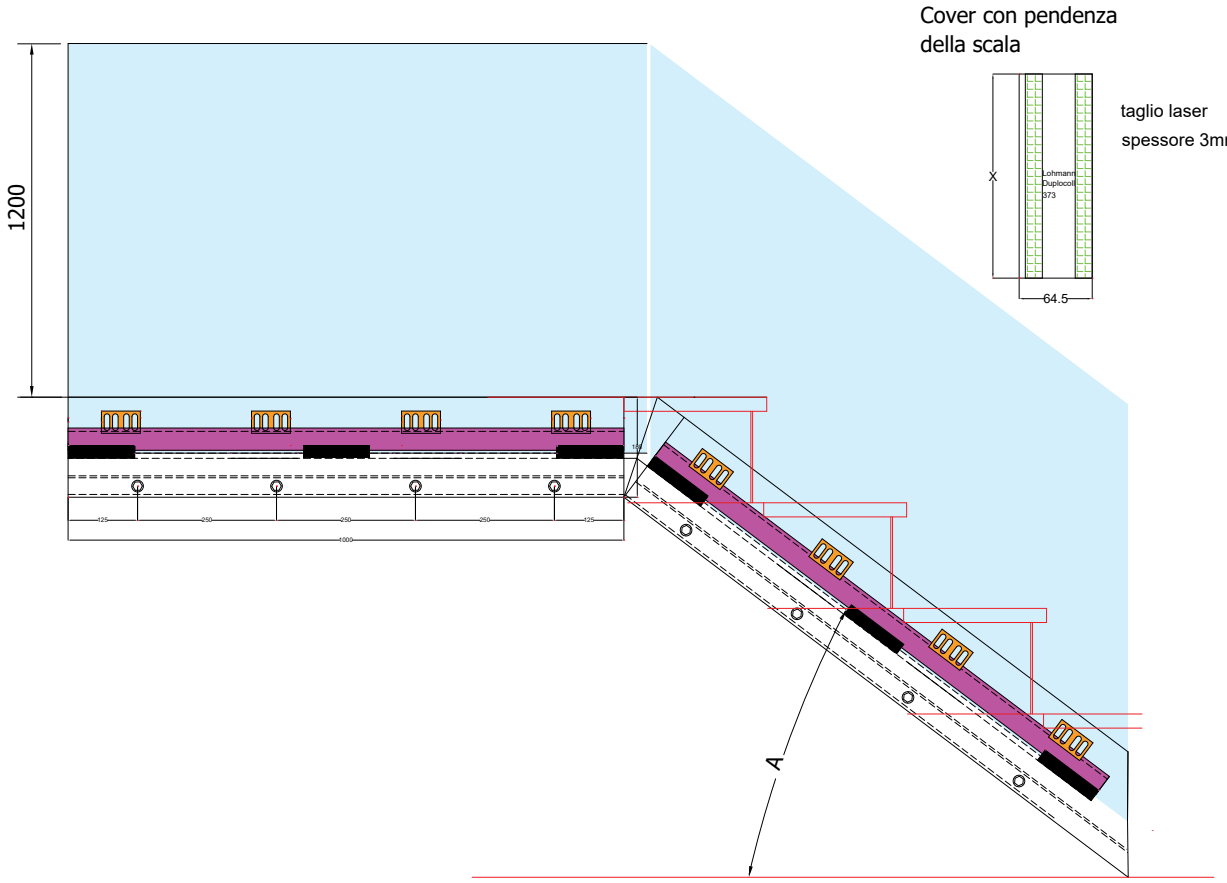


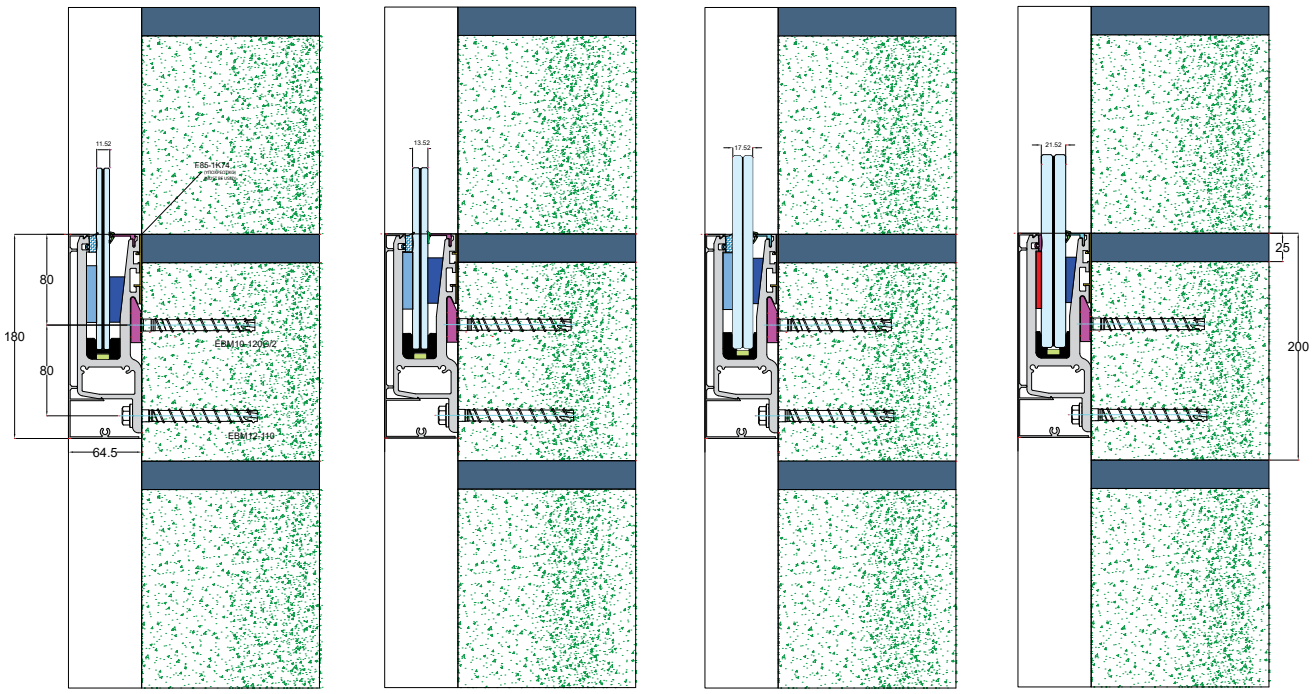
# Slim•line

## ESTERNO

## SCALE

## Montaggio profilo



## Fissaggio delle basi



| Profilo base | |
|---|---|
| Cod | **F85-1B69** |
| Peso | 7734 gr/m |



| Cover per base | |
|---|---|
| Cod | **F85-1K69** |
| Peso | 1375 gr/m |



| Angolo interno | |
|---|---|
| Cod | **F85-541** |
| Lunghezza | 30x30 cm |



| Angolo esterno | |
|---|---|
| Cod | **F85-542** |
| Lunghezza | 30x30 cm |



| Cover finale | |
|---|---|
| Cod | **F85-1K70** 5.5.4, 6.6.4 |
| Peso | 134 gr/m |
| Lunghezza | 6 m |



| Cover finale | |
|---|---|
| Cod | **F85-1K72** 8.8.4, 10.10.4 |
| Peso | 110 gr/m |
| Lunghezza | 6 m |



| Cover per scale | |
|---|---|
| Cod | **F85-1K74** |
| Peso | 280 gr/m |
| Lunghezza | 6 m |



| Guarnizione per base | |
|---|---|
| Cod | **F85-417** (10.10.4) |
| Materiale | PVC |





| Guarnizione per base | |
|---|---|
| Cod | **F85-418** (10.10.4) |
| Materiale | PVC |



| Accessorio di montaggio | |
|---|---|
| Cod | **F85-461** |



| Accessorio di sospensione | |
|---|---|
| Cod | **F85-462** |
| Lunghezza | 1 m |



| Guarnizione per base | |
|---|---|
| Cod | **F85-477*** (5.5.4, 6.6.4, 8.8.4)<br>**F85-419** (5.5.4, 6.6.4, 8.8.4) |
| Materiale | PVC |
| Lunghezza | 100 m |

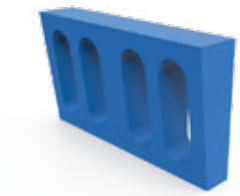
*Per profili F85-1K63, 1K64, 1K65*



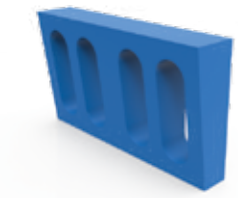
| Perno | |
|---|---|
| Cod | **F85-481** |
| Materiale | Inox 304 |



| Tappo finale | |
|---|---|
| Cod | **F85-496** |



| Supporto L70mm | |
|---|---|
| Cod | **F85-575** (5.5.4, 6.6.4)<br>**F85-576** (8.8.4, 10.10.4) |



| Supporto PVC | |
|---|---|
| Code | **F85-577** (5.5.4, 6.6.4, 8.8.4) |



| Supporto PVC | |
|---|---|
| Cod | **F85-581** (10.10.4) |



| Supporto vetro | |
|---|---|
| Cod | **F85-591** (5.5.4) |
| | **F85-592** (6.6.4) |
| | **F85-593** (8.8.4) |
| Materiale | PVC |



| PLASTIC GLASS SUPPORT<br>SUPPORT DE VERRE PLASTIQUE | |
|---|---|
| Code | **F85-594** (10.10.4) |
| Material | PVC |



| Vite TORX 10X120 | |
|---|---|
| Cod | **EBM-10120G/2** |



| Guarnizione vetro 1mm | |
|---|---|
| Cod | **EA410-420M** |
| Materiale | EPDM |
| Lunghezza | 350 m |



| Viti di fissaggio Ø12-110 | |
|---|---|
| Cod | **EBM12-110** |

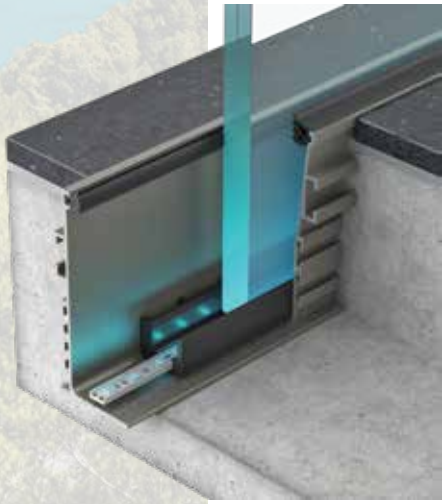


| Guarnizione vetro | |
|---|---|
| Cod | **US521-01**<br>(5.5.4, 8.8.4, 10.10.4) |

# Slim•line
## nel pavimento







**INSERIMENTO LUCI A LED (OPTIONAL)**

## Fasi di montaggio





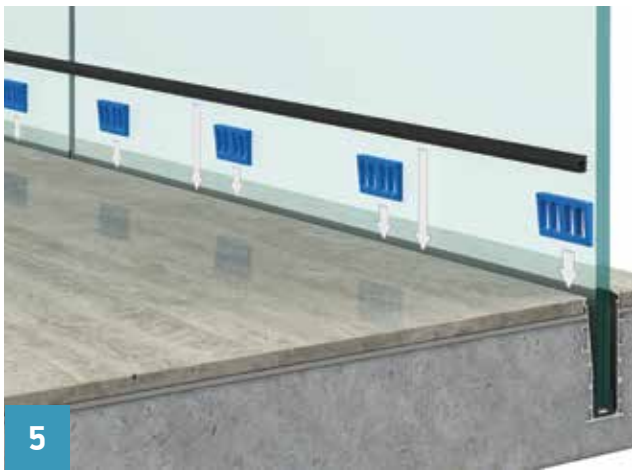








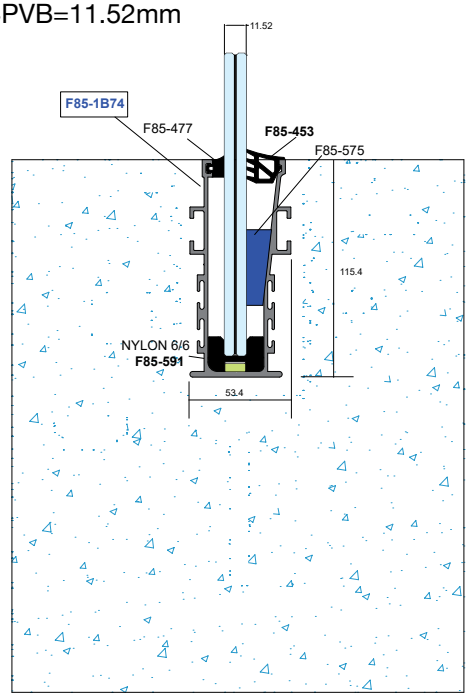




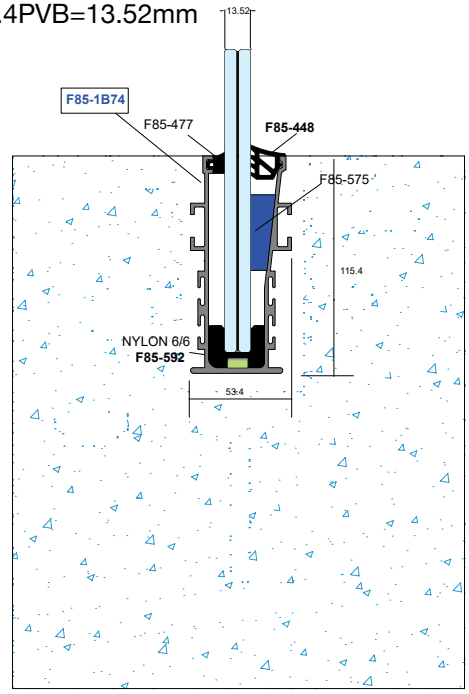



## Sezioni

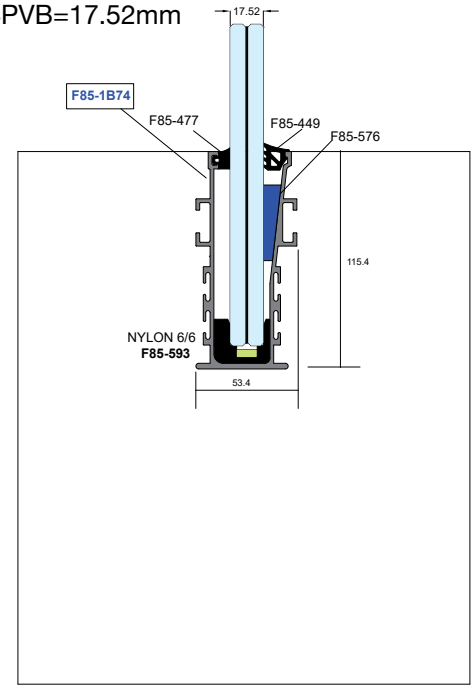
55.4PVB=11.52mm



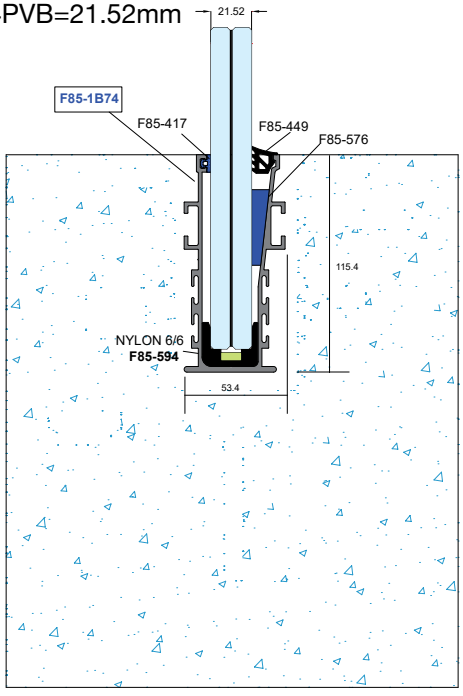

66.4PVB=13.52mm



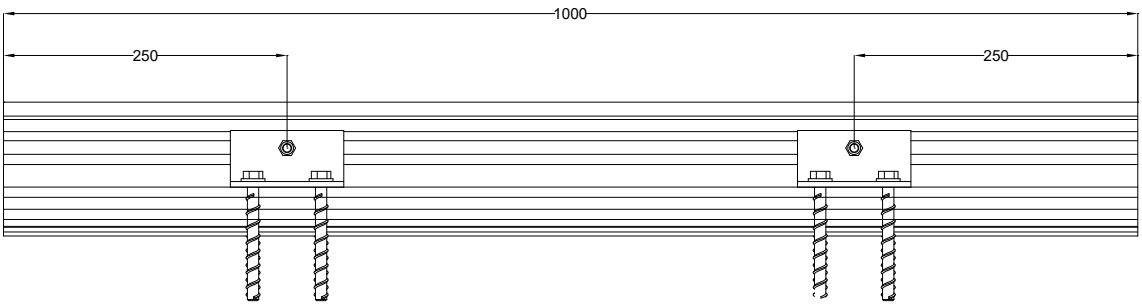

88.4PVB=17.52mm




1010.4PVB=21.52mm

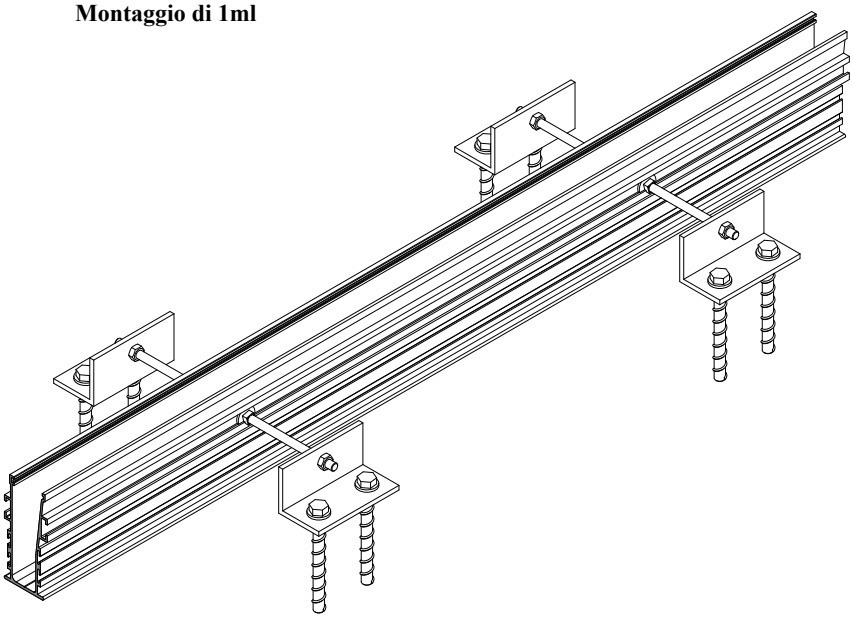


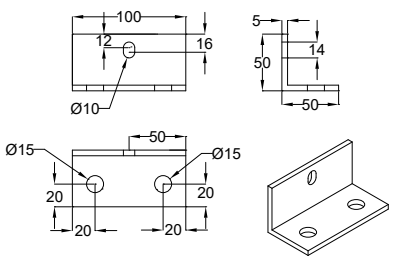
## Fissaggio delle basi

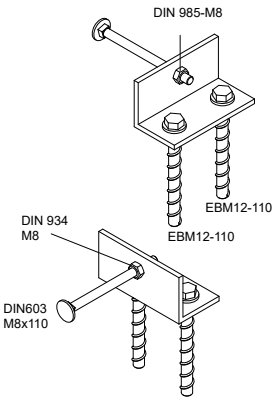



**Montaggio di 1ml**



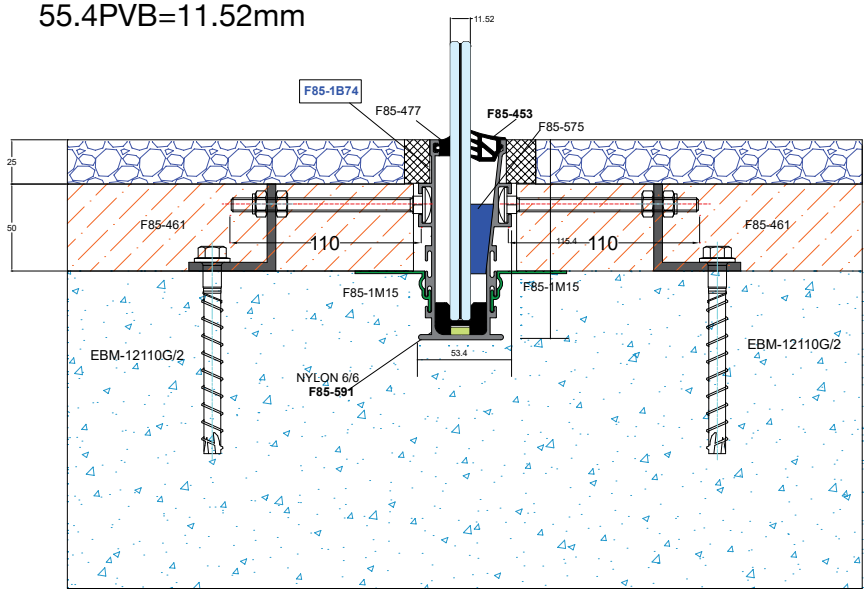




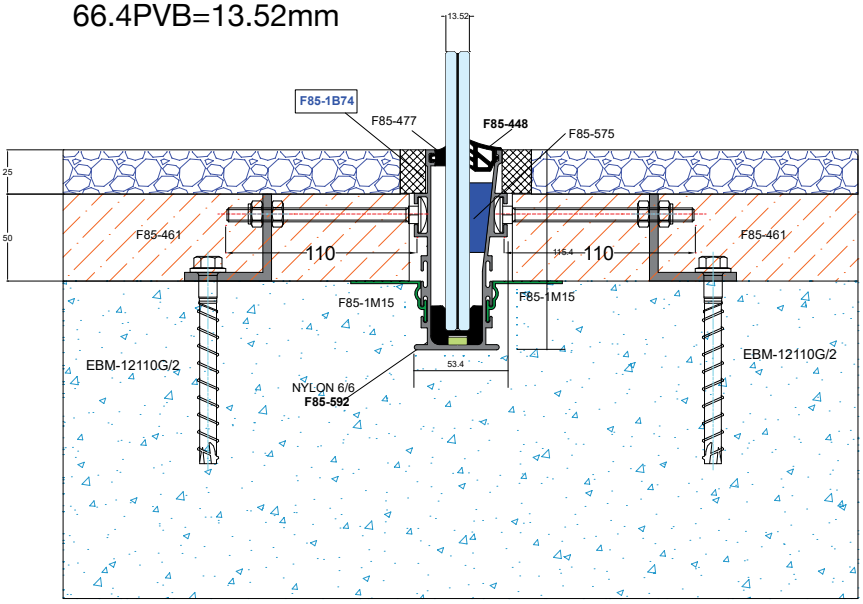



## Sezioni

55.4PVB=11.52mm

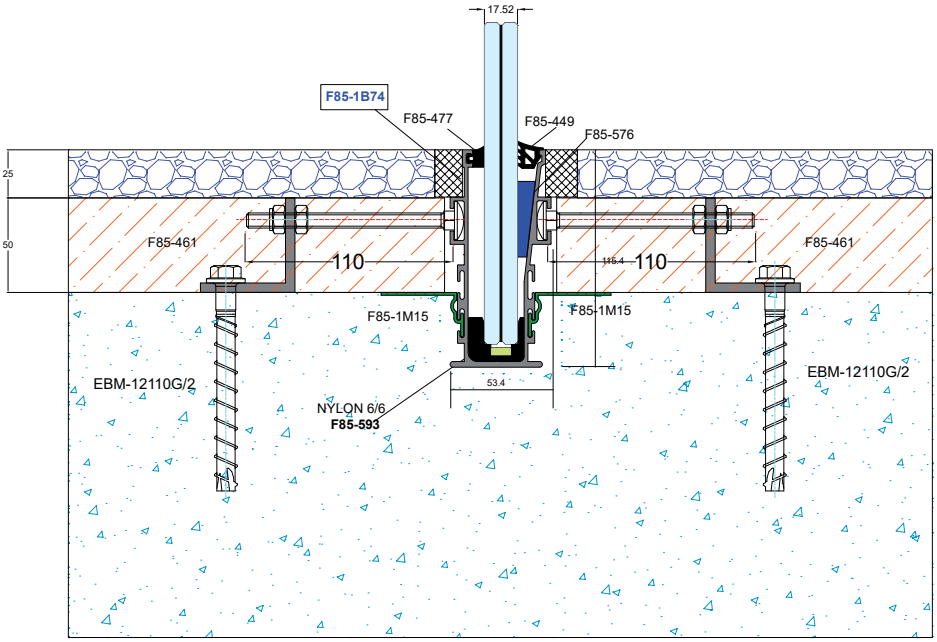



66.4PVB=13.52mm



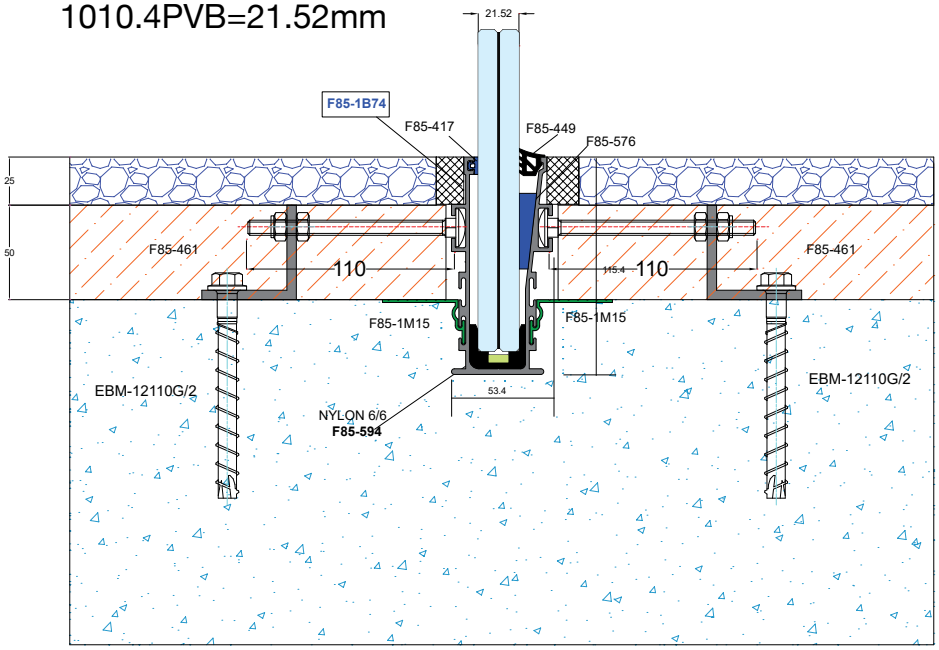
## Fissaggio delle basi

88.4PVB=17.52mm

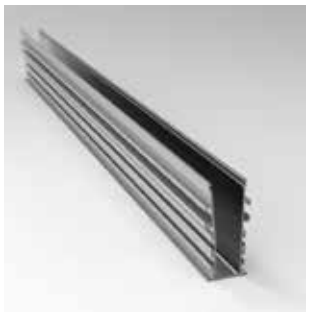




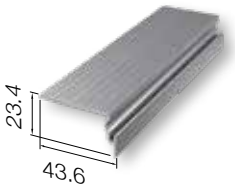

1010.4PVB=21.52mm



## Montaggio profilo



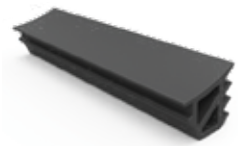
| Profilo base | |
|---|---|
| Cod | **F85-1B74** |
| Peso | 2532 gr/m |



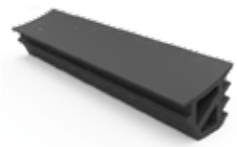

| Profilo supplementare per guida interrata | |
|---|---|
| Cod | **F85-1M15** |
| Peso | 281 gr/m |
| Lunghezza | 6 m |



| Guarnizione per base | |
|---|---|
| Cod | **F85-417** (10.10.4) |
| Materiale | PVC |



| Guarnizione per vetro | |
|---|---|
| Cod | **F85-453** (5.5.4) |
| Materiale | EPDM |



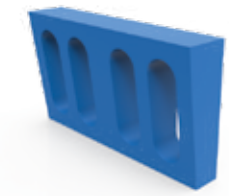
| Guarnizione per vetro | |
|---|---|
| Cod | **F85-448** (6.6.4)<br>**F85-449** (8.8.4, 10.10.4) |
| Materiale | EPDM |



| Accessorio di montaggio | |
|---|---|
| Cod | **F85-461** |

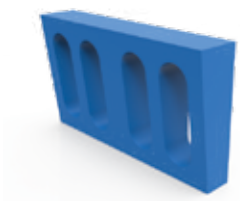


| Guarnizione per vetro | |
|---|---|
| Cod | **F85-477** (5.5.4, 6.6.4, 8.8.4) |
| Materiale | PVC |
| Lunghezza | 100 m |



| Supporto L70mm | |
|---|---|
| Cod | **F85-575** (5.5.4, 6.6.4)<br>**F85-576** (8.8.4, 10.10.4) |





| Supporto PVC | |
|---|---|
| Cod | **F85-577** (5.5.4, 6.6.4, 8.8.4) |



| Supporto PVC | |
|---|---|
| Cod | **F85-581** (10.10.4) |



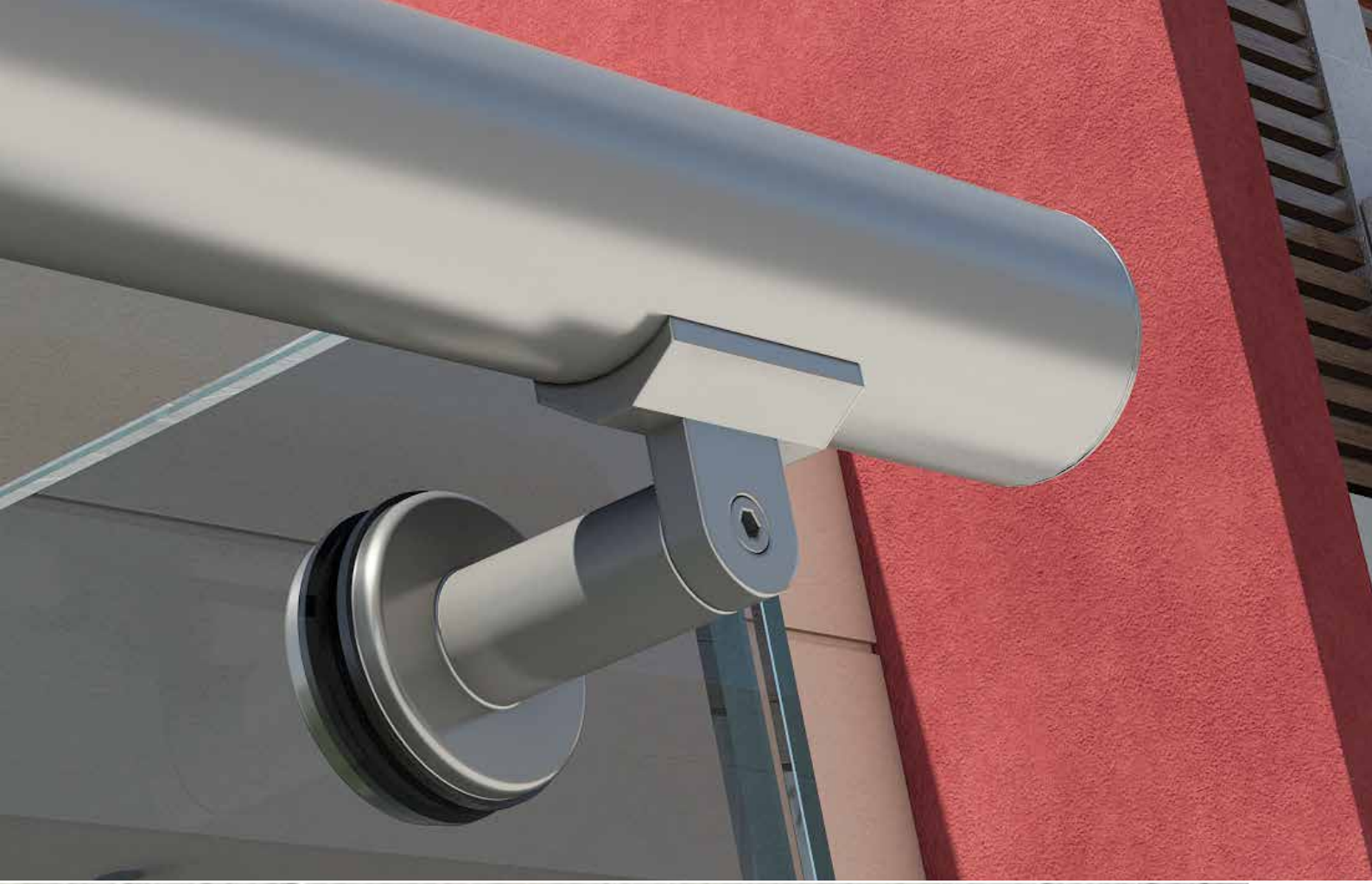
| Supporto vetro | |
|---|---|
| Cod | **F85-591** (5.5.4)<br>**F85-592** (6.6.4)<br>**F85-593** (8.8.4) |
| Materiale | PVC |



| Supporto vetro | |
|---|---|
| Cod | **F85-594** (10.10.4) |
| Materiale | PVC |



# Corrimano & Accessori





# Corrimano & Supporti





| Corrimano Ø50 | |
|---|---|
| Cod | **F85-202** |

| Guarnizione | |
|---|---|
| Cod | **EA410-420M** (5.5.2) |



| Corriamano ovale | |
|---|---|
| Cod | **F85-203** |

| Guarnizione a “U“ | |
|---|---|
| Cod | **F85-406** (8.8.4)<br>**F85-407** (10.10.4) |



| Corrimano Ø50 | |
|---|---|
| Code | **F85-204** |

| Guarnizione a “U“ | |
|---|---|
| Cod | **F85-406** (8.8.4)<br>**F85-407** (10.10.4) |



| Corrimano a U | |
|---|---|
| Cod | **F85-313** (6.6.4)<br>**F85-317** (8.8.4)<br>**F85-321** (10.10.4) |



| Supporto per corrimano F50-200 | |
|---|---|
| Cod | **4148** |



| Supporto orientabile per corrimano F50-200 | |
|---|---|
| Cod | **F85-451** |


S900

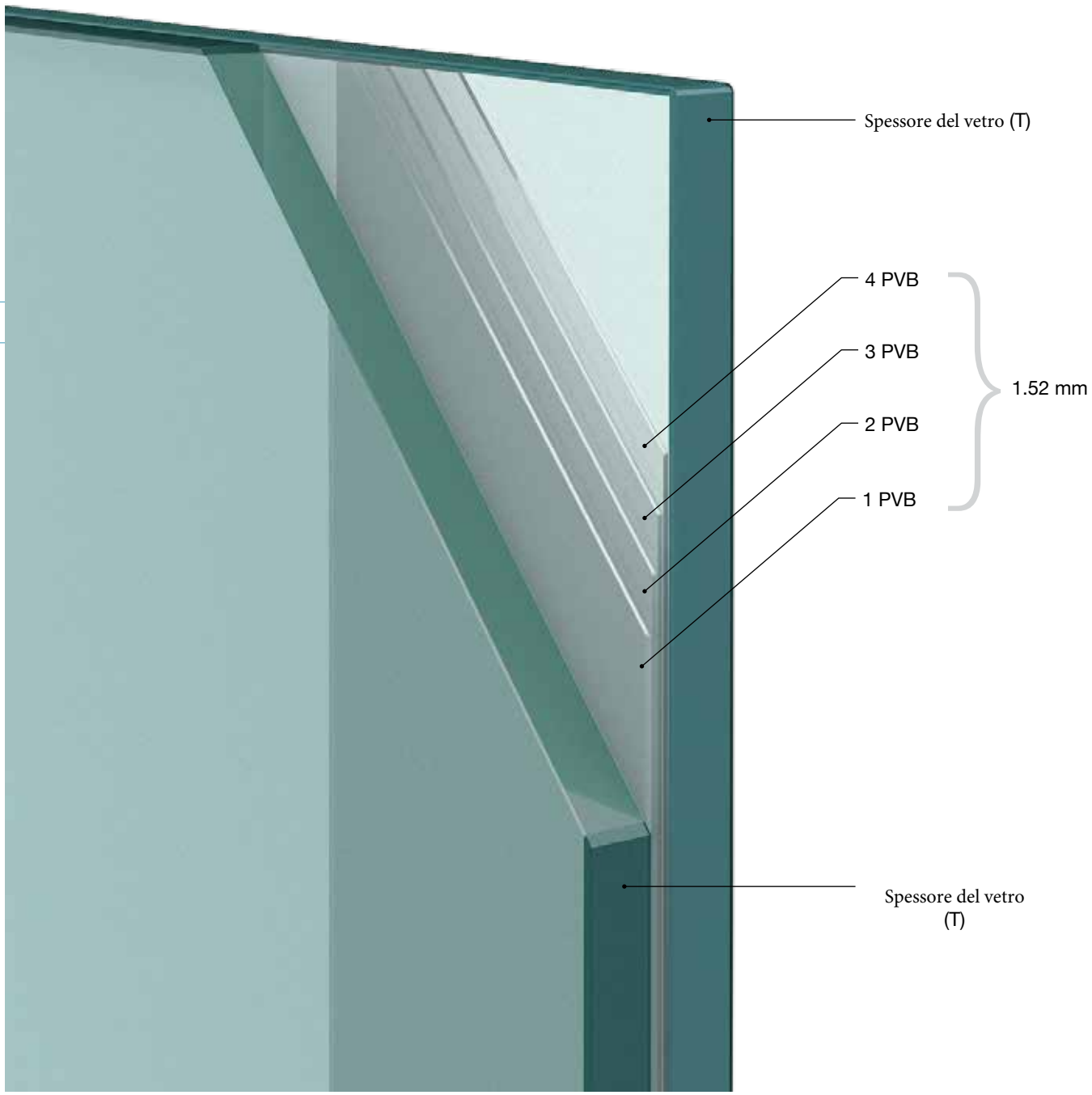



S900

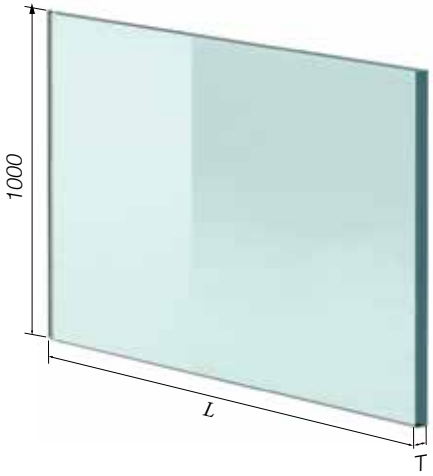
# Vetro

## dettagli vetro





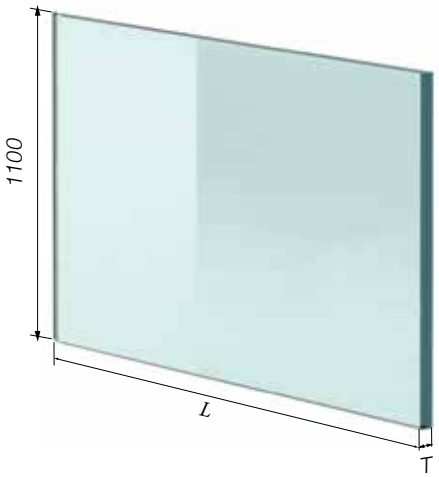
# Informati sul Vetro




| Altezza : 1000 mm | 8.8.4 (17.52) |
|---|---|
| Larghezza | Peso Kg |
| 600 | 24 |
| 800 | 32 |
| 900 | 36 |
| 1000 | 40 |
| 1100 | 44 |
| 1200 | 48 |
| 1300 | 52 |

| Altezza: 1000 mm | 5.5.2 (10.76) |
|---|---|
| Larghezza | Peso Kg |
| 500 | 12.5 |
| 600 | 15 |
| 800 | 20 |
| 900 | 22.5 |
| 1000 | 25 |
| 1100 | 27.5 |
| 1200 | 30 |





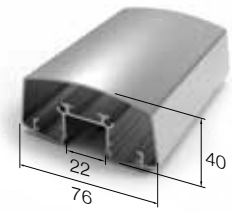

| Altezza : 1100 mm | 8.8.4 (17.52) |
|---|---|
| Larghezza | Peso Kg |
| 600 | 26.4 |
| 800 | 35.2 |
| 900 | 39.6 |
| 1000 | 44 |
| 1100 | 48.4 |
| 1200 | 52.8 |

# Accessori

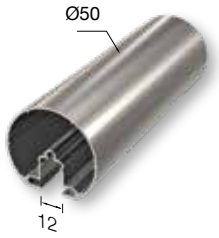
## Profili corrimano




| Corrimano tondo | |
|---|---|
| Cod | **F50-200** |
| Peso | 814 gr/m |
| Lunghezza | 6 m |



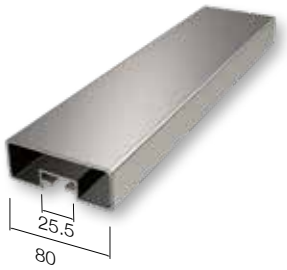

| Corrimano ovale 76x40 spazio vetro 22mm | |
|---|---|
| Cod | **F85-200** |
| Peso | 1104 gr/m |
| Lunghezza | 6 m |




| Corrimano Ø50 spazio vetro 12mm | |
|---|---|
| Cod | **F85-202** |
| Peso | 721 gr/m |
| Lunghezza | 6 m |




| Corrimano ovale 76x40 spazio vetro 25mm | |
|---|---|
| Cod | **F85-203** |
| Peso | 1096 gr/m |
| Lunghezza | 6 m |




| Corrimano 30x80 | |
|---|---|
| Cod | **F50-201** |
| Peso | 1350 gr/m |
| Lunghezza | 6 m |




| Corrimano Ø50 spazio vetro 25mm | |
|---|---|
| Cod | **F85-204** |
| Peso | 973 gr/m |
| Lunghezza | 6 m |




| Corrimano a U per vetro 6.6.2 / 6.6.4 | |
|---|---|
| Cod | **F85-313** |
| Peso | 99 gr/m |
| Lunghezza | 6 m |




| Corrimano a U per vetro 8.8.4 | |
|---|---|
| Cod | **F85-317** |
| Peso | 198 gr/m |
| Lunghezza | 6 m |



## Tappi corrimano




| Corrimano a U per vetro 10.10.4 | |
|---|---|
| Cod | **F85-321** |
| Peso | 219 gr/m |
| Lunghezza | 6 m |



| Tappo per corrimano F85-200/203 | |
|---|---|
| Cod | **F85-403** |



| Tappo per corrimano F85-202/204 | |
|---|---|
| Cod | **F85-404** |



| Tappo bombato per corrimano F50-200 | |
|---|---|
| Cod | **4434** |

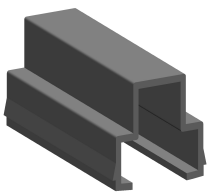
## Riduttore vetro

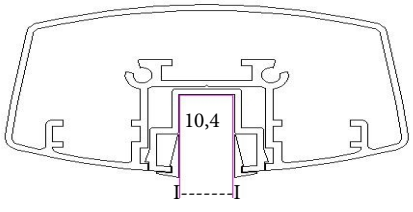


| Tappo per corrimano F50-201 | |
|---|---|
| Cod | **4447** |



| Tappo piatto per corrimano F50-200 Ø50 | |
|---|---|
| Cod | **4453** |






Riduttore vetro per corrimano F85-200 per vetro 10mm
Cod. **F85-903U**

# Accessori e viteria

## Connettori per corrimano



Connettore per corrimano
F85-202/204
Cod **4251**



Connettore ad angolo per corrimano
F85-202/204
Cod **4253**



Connettore a muro per corrimano
F85-200/203
Cod **F85-402**



Connettore a muro per corrimano
Ø50
Cod **4509Z**



Supporto muro per corrimano
F85-202
Cod **F85-452**



Supporto a muro pr corrimano
F50-200
Cod **4134**



Supporto a muro per corrimano
F50-200
Cod **4140**



Supporto a muro per corrimano
F50-200
Cod **4141**



Supporto a muro per corrimano
F50-200
Cod **4165**



Supporto per vetro e corrimano
F50-200
Cod **F85-451**



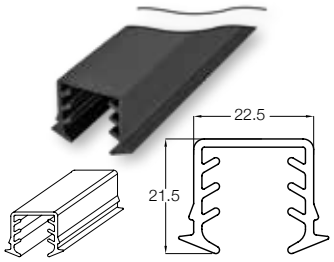
Supporto per vetro e corrimano
F50-200
Cod **4148-200** (Inox 304)
**4148-201** (Inox 316)



Supporto per vetro e corrimano
F50-201
Cod **F85-454**

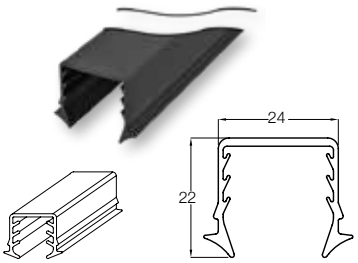
# Accessori **vari**

## Guarnizioni per corrimano




| Guarnizione a “U“ | |
|---|---|
| Cod | **F85-406** (8.8.4) |

*per vetro 8 mm+4PVB+8 mm*



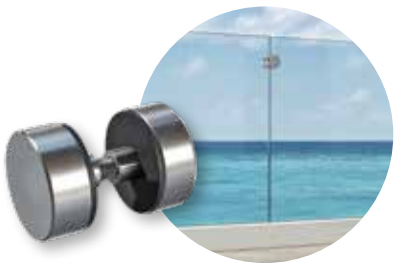

| Guarnizione a “U“ | |
|---|---|
| Cod | **F85-407** (10.10.4) |

*per vetro 10 mm+4PVB+10 mm*



| Guarnizione | |
|---|---|
| Cod | **EA410-420M** |





| Rosetta per allineamento vetro Ø30 inox 316 | |
|---|---|
| Cod | **F85-D130** (8.8.4) (10.10.4) |



| Accessorio per cover Tipo A | |
|---|---|
| Cod | **F85-E011** |



| M10x70 Inox DIN 7991 | |
|---|---|
| Cod | **D7991-0023I** |



| Inox M10x70 | |
|---|---|
| Cod | **EB912-1070** |



| Inox M10x80 | |
|---|---|
| Cod | **EB933-1080** |



| Tassello | |
|---|---|
| Cod | **EB01M-1040** |



| Torx 7.5x112 | |
|---|---|
| Cod | **EBM-75112G** |



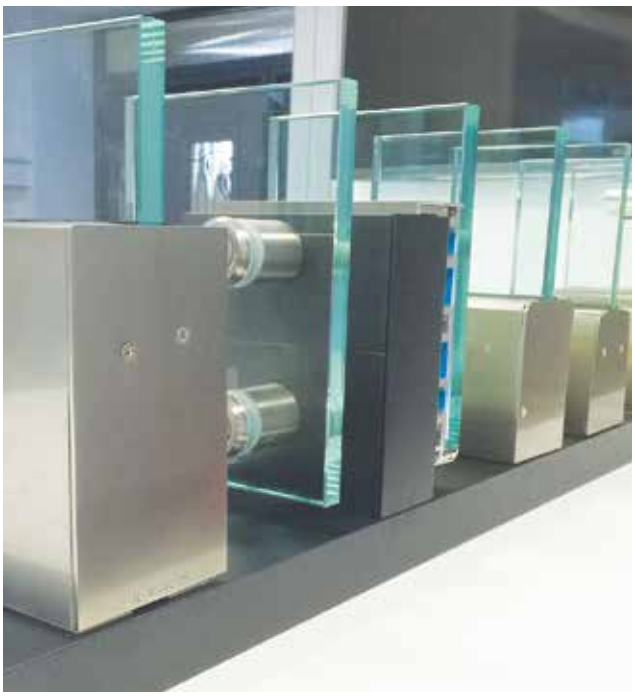
| Ø12-110 | |
|---|---|
| Cod | **EBM12-110** |



| TORX 10X120 | |
|---|---|
| Cod | **EBM-10120G/2** |

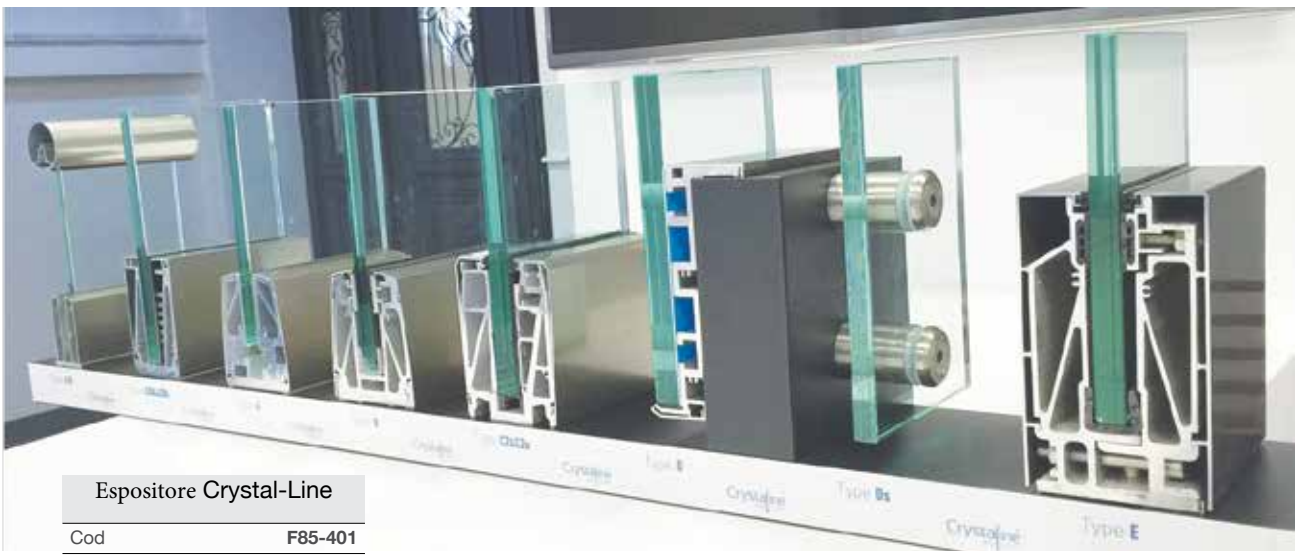
# Crystalline Promo display











Espositore Crystal-Line

| Cod | F85-401 |
|---|---|




STRADA PROVINCIALE
PACHINO-NOTO KM 0,500
96018 PACHINO (SR)

TELEFONO: 0931801647
email: emmaus.snc@gmail.com

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