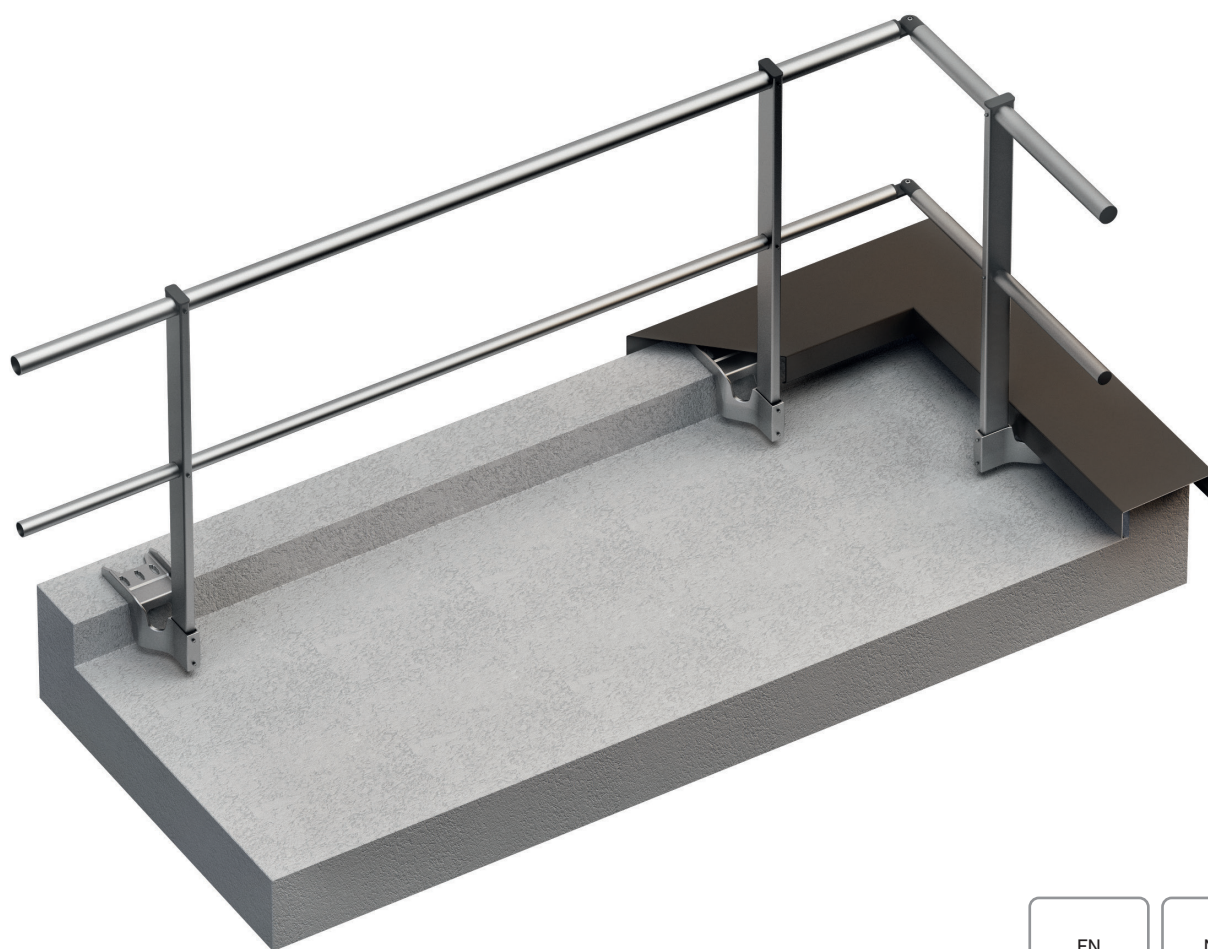


GUARD Z INSTALLATION MANUAL



EN
ISO 14122-3

NTC
2018

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MANUALE DI INSTALLAZIONE

DEFINIZIONE

Il parapetto GUARD con base Z e base Z per cordolino isolato è un dispositivo di protezione collettiva anticaduta. Il parapetto GUARD è la soluzione ideale per la messa in sicurezza delle coperture. Il suo design consente un'installazione rapida e semplice grazie alle ghiera incassabili al livello dei corrimano e dei correnti intermedi. Il parapetto GUARD a base Z per cordolino isolato è disponibile in 4 modelli: 70, 100, 130 e 160. Questo può essere utilizzato quando c'è sporgenza sul cordolino.

NORMATIVE

Il parapetto GUARD Z rientra nel quadro della normativa europea EN ISO 14122-3 del dicembre 2007 "Sicurezza del macchinario - Mezzi di accesso permanenti al macchinario - Parte 3: Scale, scale a scavalco, parapetti" alla normativa NF E 85-015 dell'aprile 2008 "Elementi di installazione industriali - Mezzi di accesso permanenti".

I parapetti GUARD Z hanno superato con successo i test e le prove statiche e dinamiche richieste dalla normativa EN ISO 14122-3.

RIFERIMENTI A NORMATIVE

- Un parapetto deve essere installato quando l'altezza di caduta supera i 2 metri (verificare la normativa locale).
- L'altezza del corrimano del parapetto deve essere almeno 1100 mm sopra la superficie di calpestio (verificare la normativa locale).
- Lo spazio libero tra il corrimano e il corrente intermedio e tra il corrente intermedio e il fermapiè deve essere inferiore o uguale a 500 mm.
- La tavola fermapiè deve avere un'altezza minima di 100 mm. Se esiste uno spazio vuoto tra il fermapiè e la superficie di calpestio, non deve superare i 10 mm.
- La distanza fra due montanti non deve essere superiore a 1500 mm. **ATTENZIONE: un'installazione del parapetto GUARD che non rispetti la distanza massima di 1500 mm tra i montanti porta alla non conformità dell'installazione.**
- Se il corrimano si interrompe, lo spazio vuoto tra due segmenti del corrimano deve avere una larghezza compresa fra 75 mm e 120 mm. Se esistono punti di passaggio con pericolo di caduta, devono essere sbarrati da un cancello a chiusura automatica dotato di corrimano e corrente intermedio ad altezza simile a quella del parapetto.
- Parapetto abbattibile: una linea vita PATROL deve essere installata prima di installare il parapetto abbattibile. Questa verrà utilizzata anche nel corso della sua installazione e manutenzione.

CONSIGLI DI MONTAGGIO

- Altezza minima del parapetto/cordolo con fissaggio interno: 150 mm.
- Foratura a minimo 75 mm dal bordo superiore del cordolo.
- Interasse max. tra i montanti: 1500 mm.
- Angoli di corrimano e traversina regolabili da incastrare.
- I componenti del corrimano e dei correnti intermedi che si innestano l'uno nell'altro.
- Assemblaggio con viti HC e viti autofilettanti fornite.
- Tavola fermapiè obbligatoria in caso di fissaggio a parete e

con cordolo minore di 100 mm.

USO - MANUTENZIONE

- È responsabilità dell'installatore assicurarsi che la struttura di supporto possa accogliere la base Z. Ad esempio, per un cordolino di calcestruzzo è necessario un test di rimozione. Per altri supporti, la convalida viene effettuata mediante calcolo e/o test.
- La persona che svolge l'installazione del parapetto GUARD deve essere un operatore qualificato che rispetta le regole di utilizzo riguardanti i lavori in altezza. Deve quindi, prima dell'uso, garantire la propria sicurezza (utilizzo di una linea vita temporanea, DPI, piattaforma, ecc.).
- Prima dell'uso, l'utente deve assicurarsi mediante un controllo visivo che il parapetto GUARD non presenti nessuna anomalia (shock, distorsione, ecc.).
- Il parapetto GUARD non richiede una manutenzione particolare, tuttavia un controllo visivo deve essere eseguito almeno una volta all'anno da un operatore competente.
- Se il parapetto GUARD è installato impropriamente, è danneggiato o è stato utilizzato per interrompere una caduta, il suo uso deve essere fermato immediatamente e conviene non farne più uso prima che un operatore competente ne abbia autorizzato per iscritto il suo riutilizzo, dopo ispezione e verifica.
- Se il prodotto è rivenduto fuori dal primo Paese di destinazione, è essenziale per la sicurezza dell'utente che il rivenditore fornisca l'istruzione per l'uso nella lingua del Paese di utilizzo del prodotto. Questi documenti vi potranno essere forniti su domanda contattando il fabbricante.
- Il parapetto GUARD è un dispositivo di protezione collettiva permanente che deve essere utilizzato da professionisti su coperture non accessibili al pubblico.
- Se installato in un ambiente industriale inquinato, petrolchimico, navale o in riva al mare, il parapetto GUARD deve necessariamente essere sottoposto ad un trattamento superficiale adeguato come verniciatura a polvere, anodizzazione, ecc.
- Se una planimetria è stata fornita, si prega di farvi riferimento durante l'installazione.
- Se non c'è planimetria, si deve rispettare una distanza tra ogni montante di 1500 mm e la posizione dei montanti in relazione agli angoli delle coperture.

STOCCAGGIO

I componenti in alluminio grezzo sono confezionati in contatto tra loro. L'azione della pioggia, sulla confezione chiusa, faciliterà l'ossidazione di questi componenti. In questo caso, delle macchie possono apparire in superficie. Queste non mettono in questione la qualità dell'alluminio ma possono danneggiare l'aspetto estetico del parapetto. Si consiglia di disimballare il pacchetto e di tenere in magazzino i componenti separati (nessun contatto tra di loro), o di conservare i pacchi ancora chiusi all'asciutto.

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PARAPETTO SENZA TAVOLA FERMAPIEDE



con cordolo maggiore di 150 mm

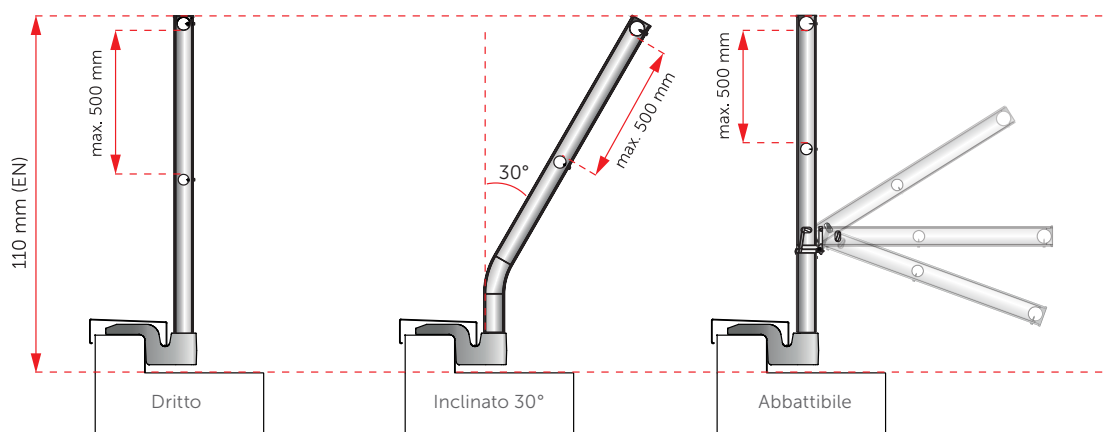
PARAPETTO CON TAVOLA FERMAPIEDE



senza cordolo o inferiore a 150 mm

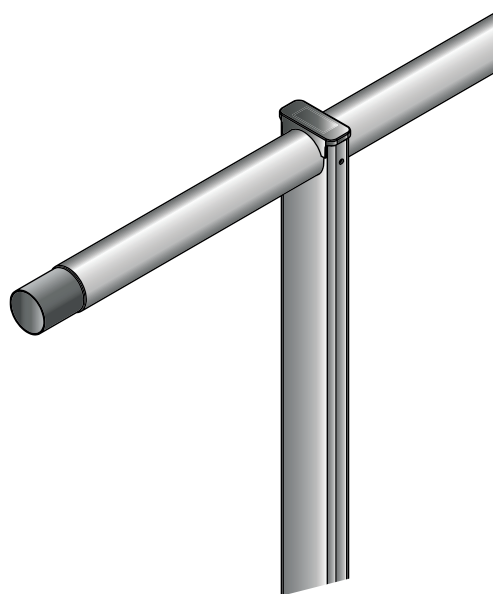
DIMENSIONI

Dimensioni dei montanti:



MONTAGGIO OTTIMIZZATO

- Nuovi angoli (plastica e ALU) per corrimano rotondo;
- Nuovo tappo per corrimano rotondo;
- Montanti: asola nella parte superiore per ricevere il corrimano + fori per facilitare il montaggio del corrimano e del corrente intermedio.



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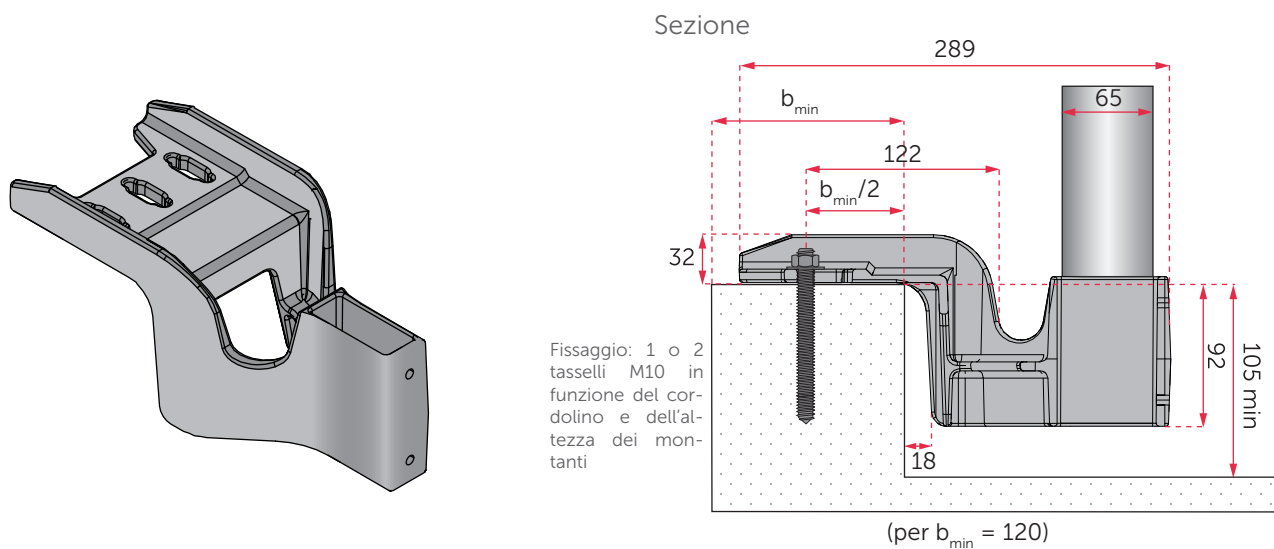
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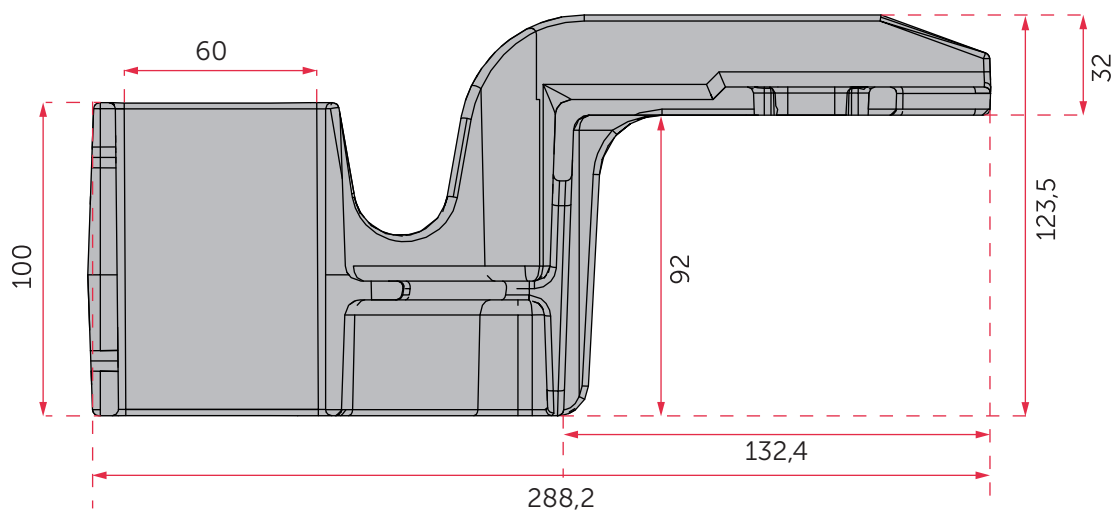
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PARAPETTO: FISSAGGIO SOTTO COPERTINA (BASE Z STANDARD)

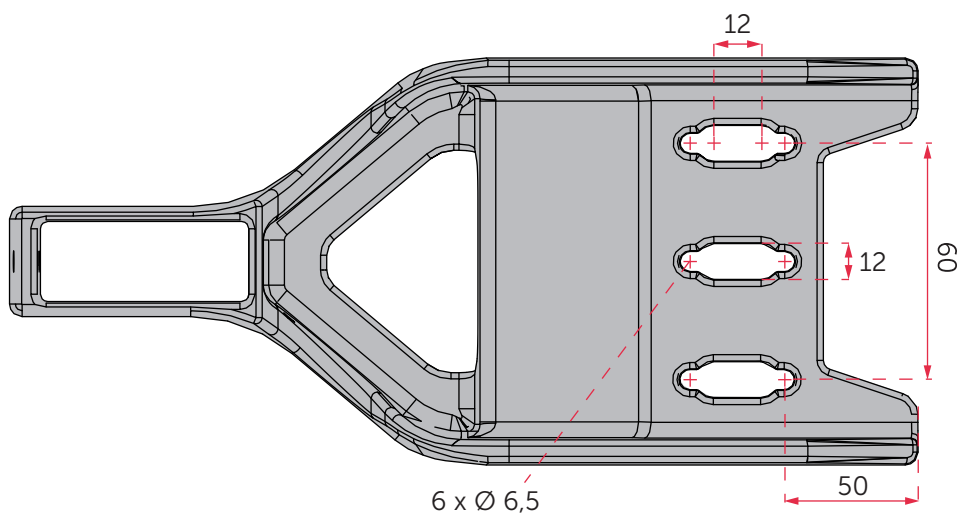
BASE Z IN ALLUMINIO IBDRIDA PER CORDOLINO SENZA ISOLANTE



Vista laterale



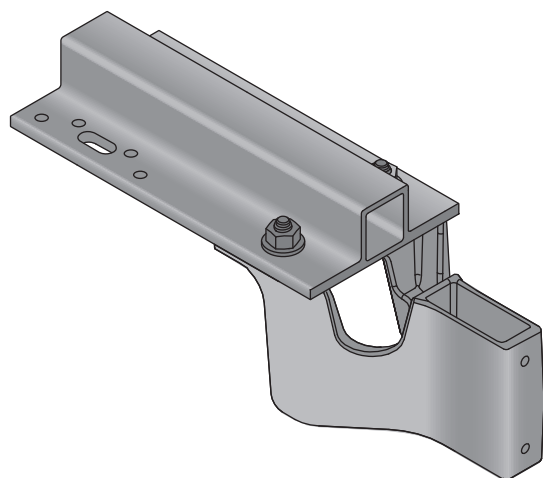
Vista dall'alto



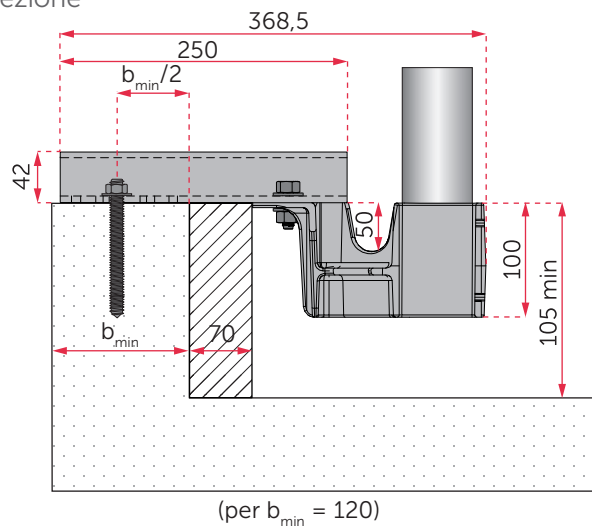
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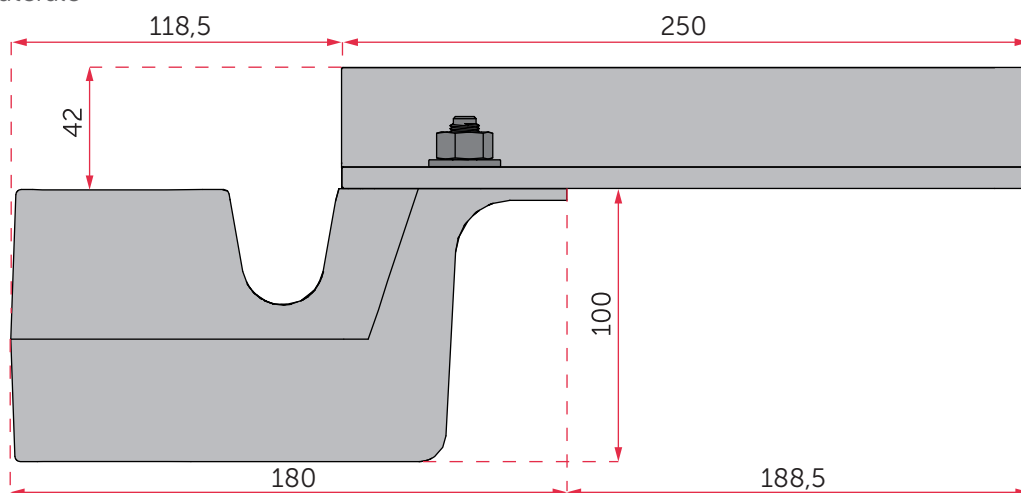
BASE Z IN ALLUMINIO IBDRIDA PER CORDOLINO CON ISOLANTE FINO A 70 mm



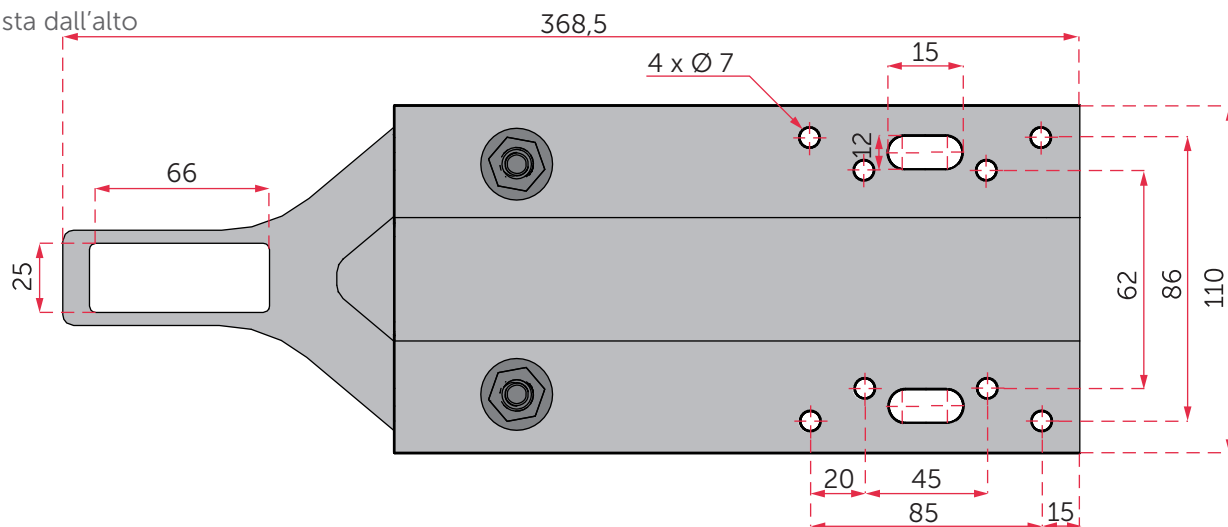
Sezione



Vista laterale



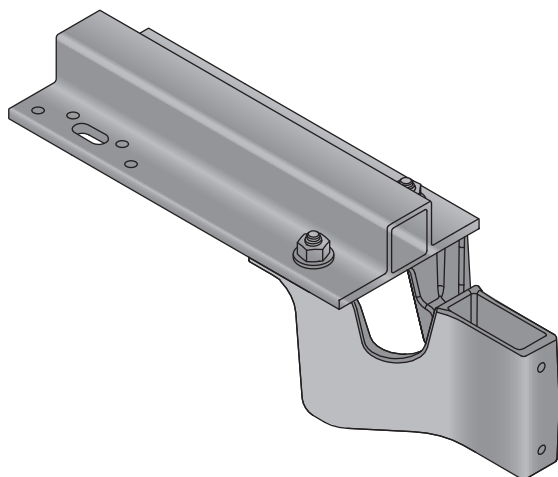
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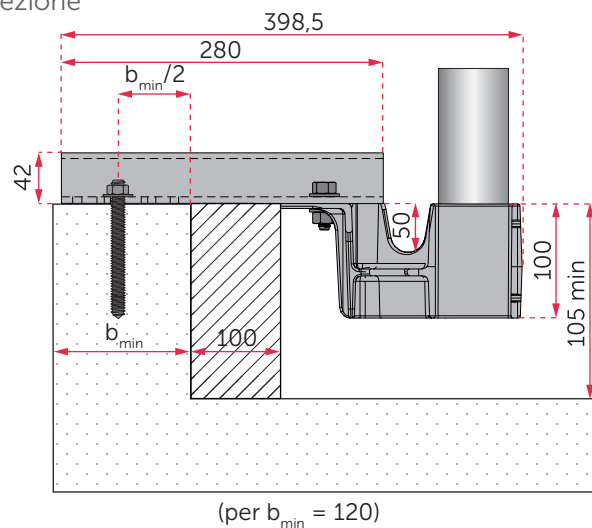
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PARAPETTO: FISSAGGIO SOTTO COPERTINA (BASE Z STANDARD)

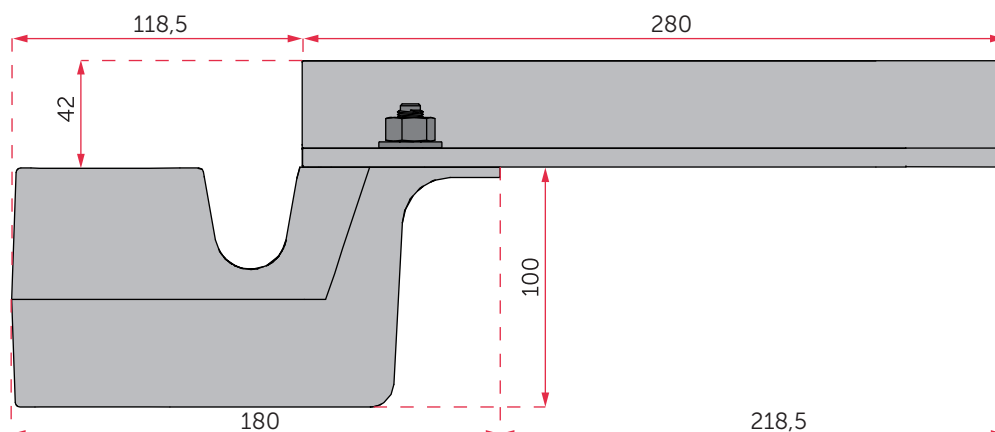
BASE Z IN ALLUMINIO IBDRIDA PER CORDOLINO CON ISOLANTE FINO A 100 mm



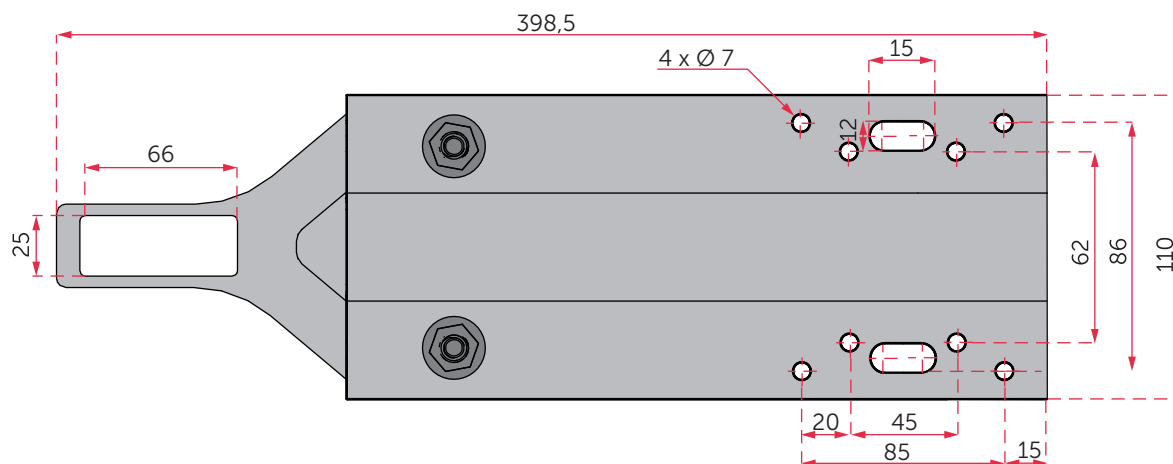
Sezione



Vista laterale



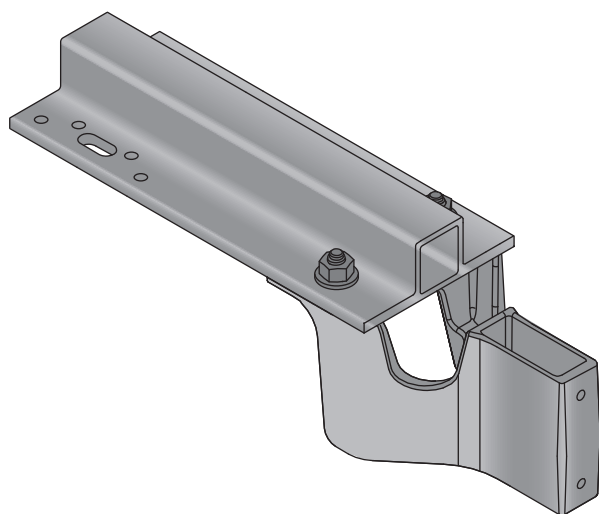
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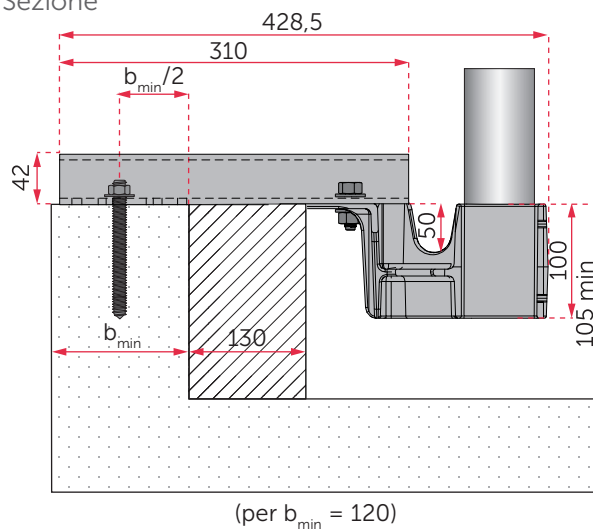
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■ PARAPETTO: FISSAGGIO SOTTO COPERTINA (BASE Z STANDARD)

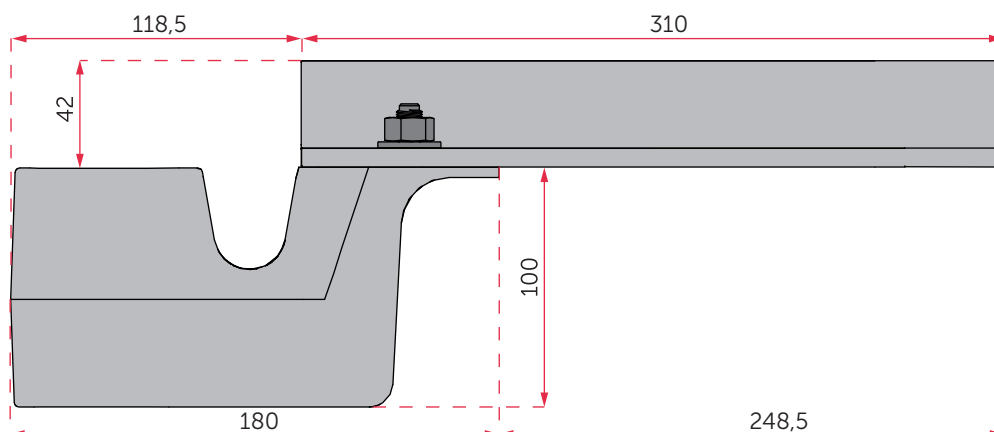
BASE Z IN ALLUMINIO IBDRIDA PER CORDOLINO CON ISOLANTE FINO A 130 mm



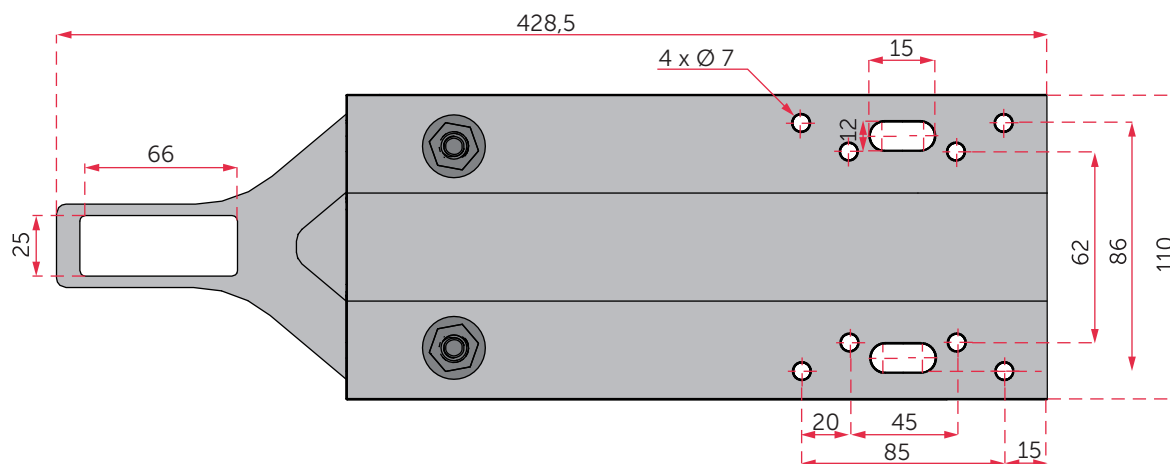
Sezione



Vista laterale



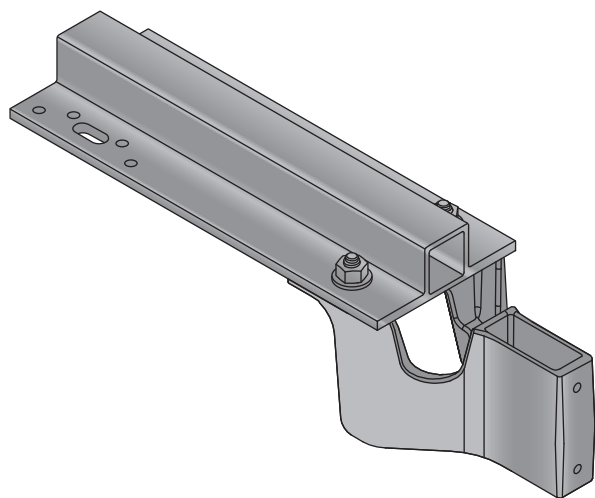
Vista dall'alto



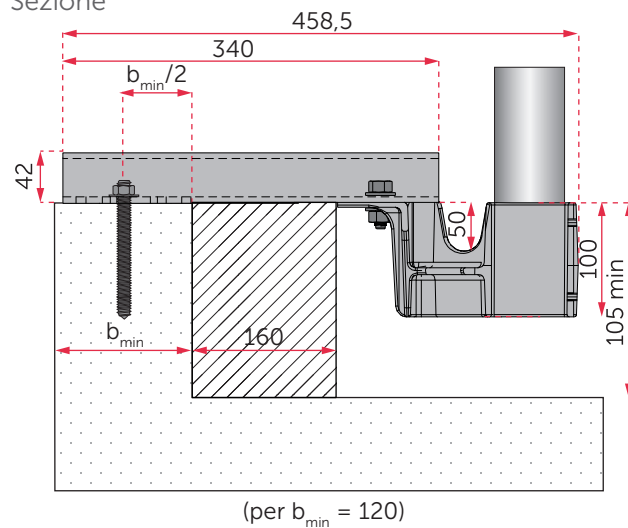
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PARAPETTO: FISSAGGIO SOTTO COPERTINA (BASE Z STANDARD)

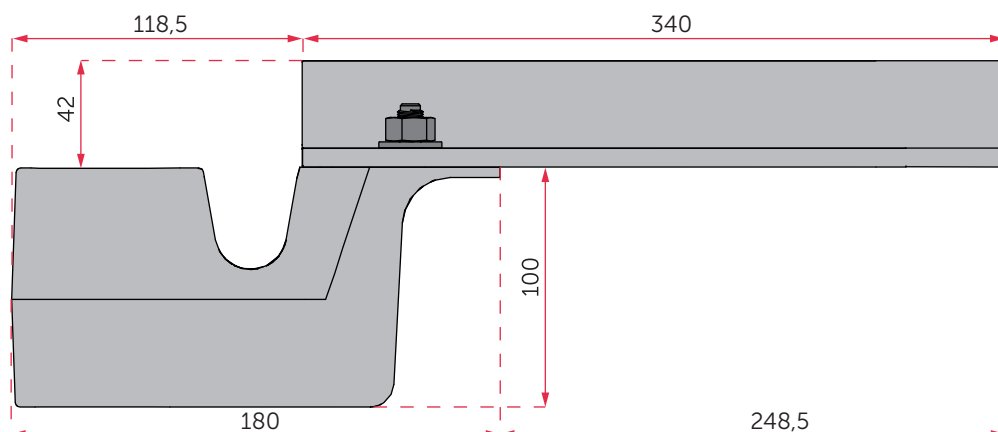
BASE Z ALLUMINIO IBDRIDA PER CORDOLINO CON ISOLANTE FINO A 160 mm



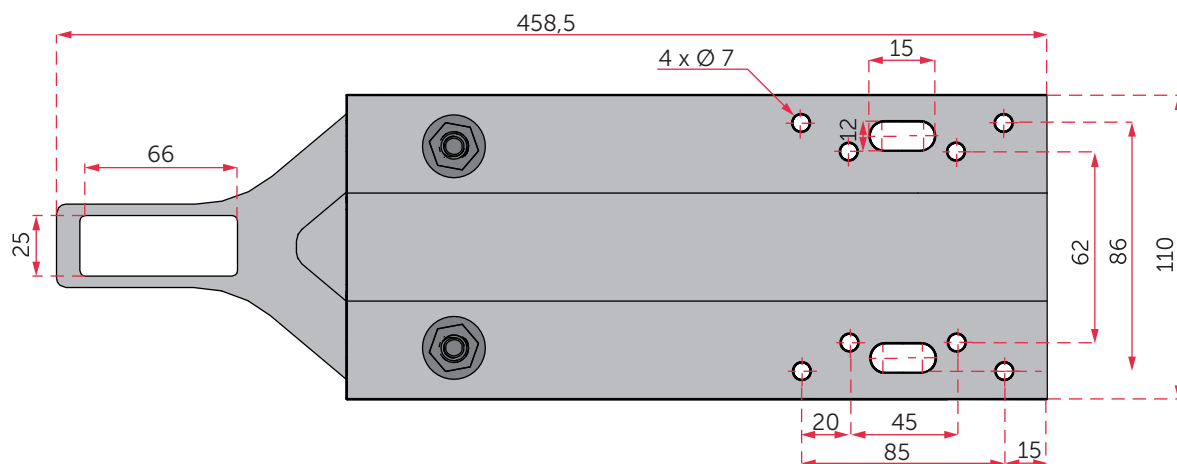
Sezione



Vista laterale



Vista dall'alto



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FISSAGGIO

È imperativo rispettare le distanze dai bordi consigliate dai fornitori degli elementi di fissaggio.

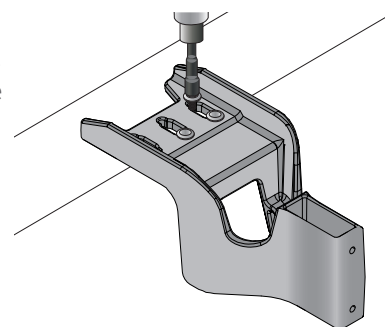
Fissaggio possibile su due tipi di supporti:

- Su calcestruzzo con 1 o 2 tasselli
- Su calcestruzzo con isolante: 3 modelli, fino a 160 mm di isolante

GUARD Z		Altezza montante 1180 mm carico sul fissaggio 698 dN		Altezza montante 1010 mm carico sul fissaggio 526 dN		Altezza montante 760 mm carico sul fissaggio 378 dN	
		b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]
CLS NON FESSURATO	VIN-FIX 5.8 barra M10 	120	110	100	175	-	-
	SKR CE 10x80 Acciaio zincato 	150	68	120	70	100	70
	AB1 A4 10x92 	150	68	150	68	150	68
LEGNO	HBS 10x160 + HUS10 	-	-	-	-	80	160
	VGS 11x100 + HUS10 	-	-	88	100	88	100

FISSAGGIO SU STRUTTURA METALLICA CON 6 VITI AUTOFORANTI

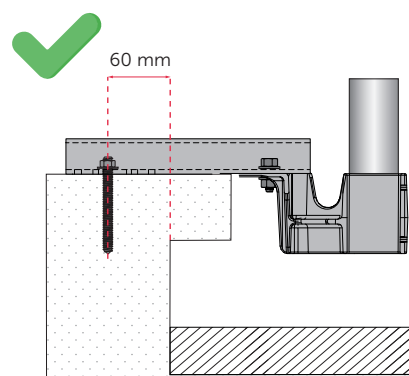
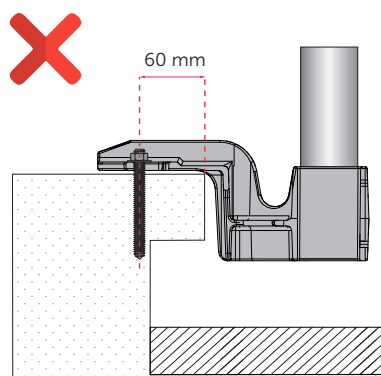
Per determinare lo sforzo e la fattibilità in base al supporto e alla validazione del fornitore di viti, richiedere uno studio preliminare da parte del dipartimento di ingegneria e progettazione.



FISSAGGIO SU CORDOLINO IN CALCESTRUZZO CON SPORGENZA

ATTENZIONE: È imperativo rispettare una distanza di 60 mm dal corpo del cordolino e non dalla sua sporgenza.

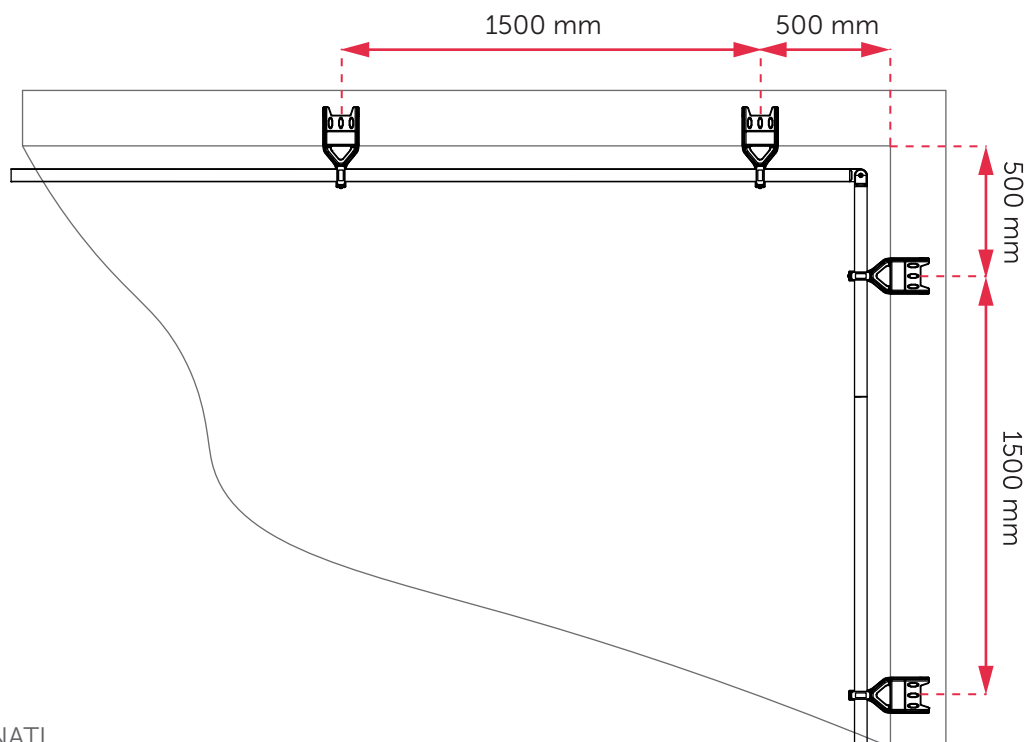
La base RBGBASEZ non è adatta a questa configurazione, è necessario utilizzare la base RBGBASEZ70.



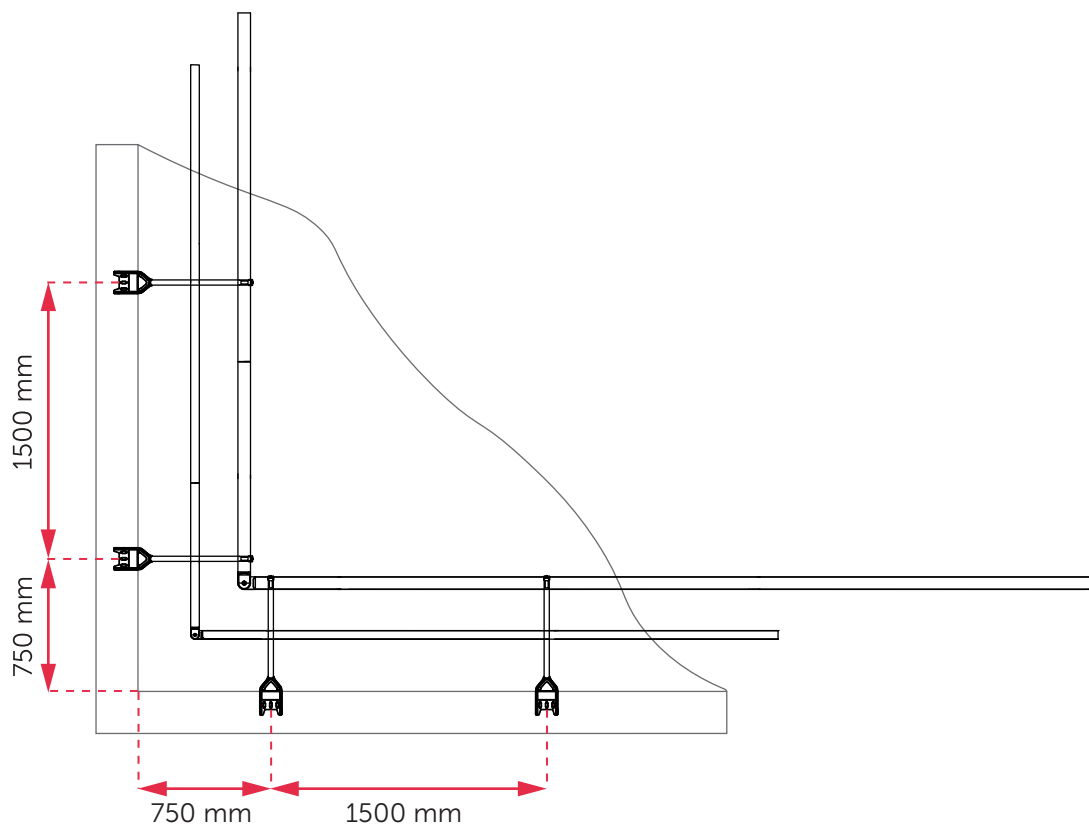
IMPIANTO

IMPIANTO DEL PARAPETTO SOTTO COPERTINA CON BASE Z

MONTANTI DRITTI



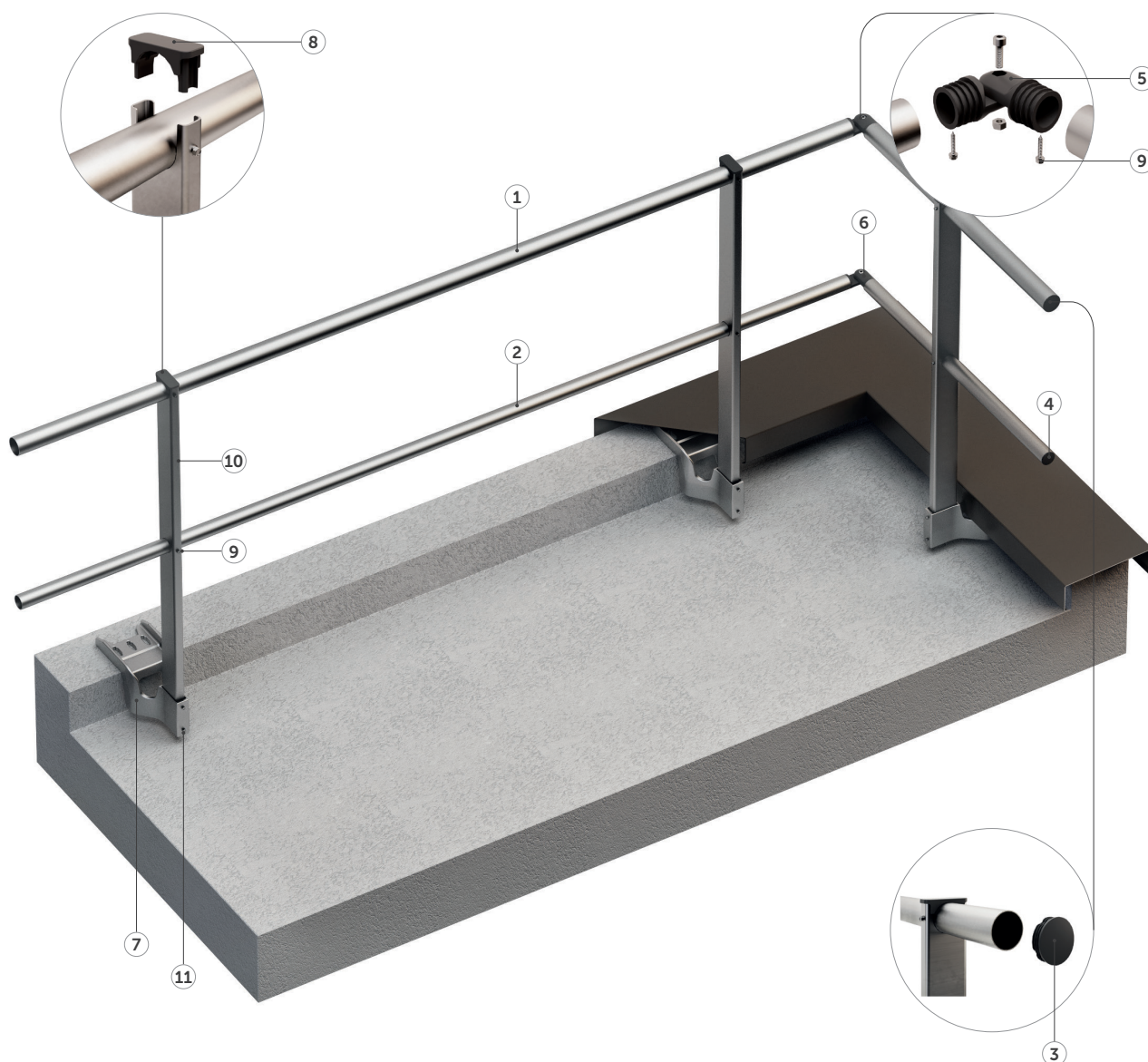
MONTANTI INCLINATI



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GUARD Z

PARAPETTO FISSAGGIO A Z



CODICE	descrizione
1 RBGBAR45	corrimano Ø45 mm con ghiere incassabili L = 3000 mm
2 RBGBAR35	corrente intermedio Ø35 con ghiere incassabili L = 3000 mm
3 RBGCAP45	tappo per corrimano Ø45 mm
4 RBGCAP35	tappo per corrente intermedio Ø35 mm
5 RBGCOR45	angolo per corrimano Ø45 mm
6 RBGCOR35	angolo per corrente intermedio Ø35 mm
5-6 RBGCORAL	angolo in alluminio per corrimano e corrente intermedio (alternativo a RBGCOR45/ RBGCOR35)
7 RBGBASEZ	base standard Z in alluminio per muro perimetrale senza isolante GUARD Z con viti a grano inclusi
8 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
9 RBGSCR4825	vite autoforante 4,8 x 25 mm INOX

CODICE	descrizione
RBGSUP110	montante dritto H = 1105 mm incavo Ø45 mm
RBGSUP118	montante dritto H = 1182 mm incavo Ø45 mm
10 RBGSUP115I	montante inclinato H = 1157 mm incavo Ø45 mm
RBGSUP760WH	montante dritto altezza 760 mm senza corrente intermedio; (cordolo perimetrale altezza min. 600 mm) NEW

CODICE	descrizione
11 RBGSCR810	vite a grano M8 x 10 mm (ricambio)

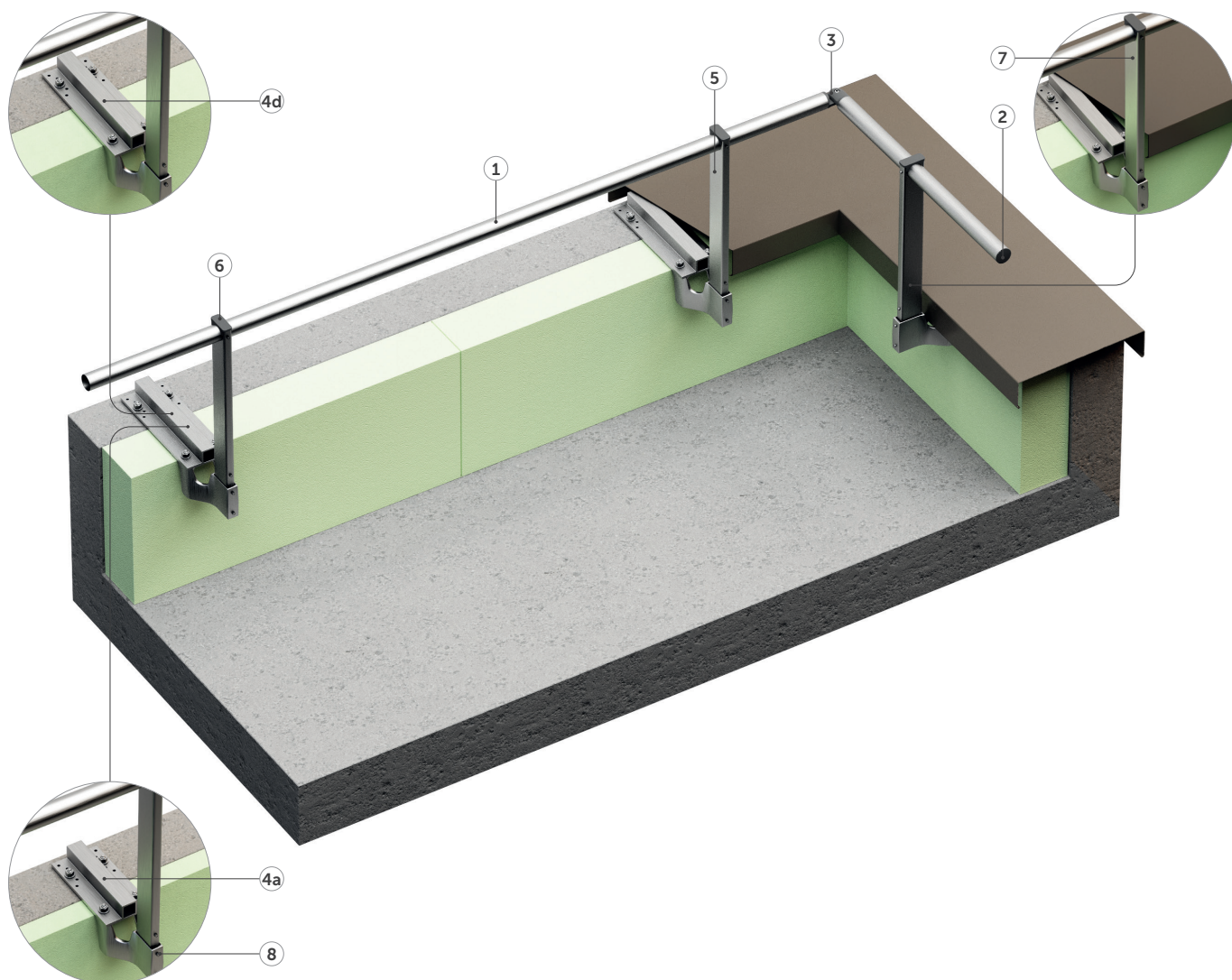
Per fissaggio a muro:

RBGWALL45	elemento terminale per corrimano Ø45 mm
RBGWALL35	elemento terminale per corrente intermedio rotondo Ø35 mm
RBGWALLAL	elemento terminale in alluminio per corrimano e corrente intermedio

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GUARD Z

PRAPETTO FISSAGGIO A Z CON ISOLANTE



	CODICE	descrizione
1	RBGBAR45	corrimano Ø45 mm con ghiera incassabili L = 3000 mm
2	RBGCAP45	tappo per corrimano Ø45 mm
3	RBGCOR45	angolo per corrimano Ø45 mm
4	a. RBGBASEZ70 NEW	base GUARD Z con isolante spessore 70 mm
	b. RBGBASEZ100 NEW	base GUARD Z con isolante spessore 100 mm
	c. RBGBASEZ130 NEW	base GUARD Z con isolante spessore 130 mm
	d. RBGBASEZ160 NEW	base GUARD Z con isolante spessore 160 mm
5	RBGSUP760WH NEW	montante dritto altezza 760 mm senza corrente intermedio; (cordolo perimetrale altezza min. 600 mm)
	RBGSUP110	montante dritto H = 1105 mm incavo Ø45 mm
	RBGSUP118	montante dritto H = 1182 mm incavo Ø45 mm
	RBGSUP115I	montante inclinato H = 1157 mm incavo Ø45 mm

CODICE	descrizione
6 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
7 RBGSCR4825	vite autoforante 4,8 x 25 mm INOX
CODICE	descrizione
8 RBGSCR810	vite a grano M8 x 10 mm (ricambio)

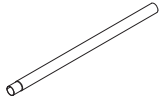
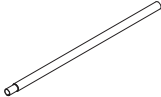
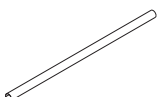
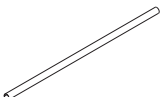
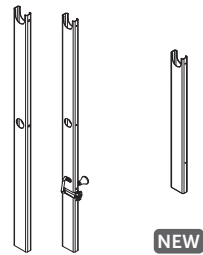
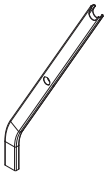
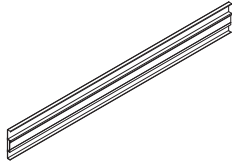
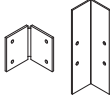
Per fissaggio a muro:

RBGWALL45	elemento terminale per corrimano Ø45 mm
RBGWALLAL	elemento terminale in alluminio per corrimano e corrente intermedio

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GUARD | componenti

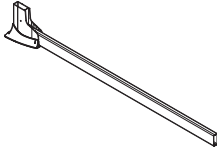
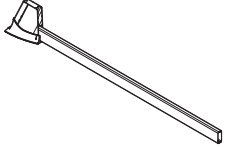
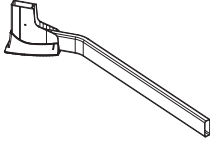
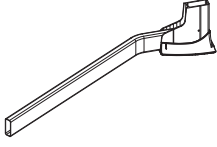
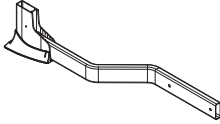
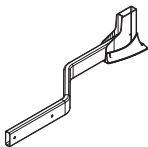
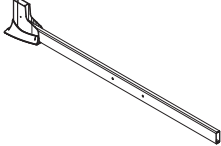
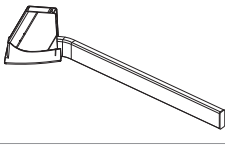
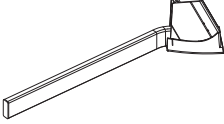
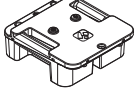
CODICI E DIMENSIONI

GRUPPO	CODICE	descrizione	pz.	
CORRIMANI E CORRENTI INTERMEDI	RBGBAR45	corrimano Ø45 mm con ghiera incassabili L = 3000 mm	1	
	RBGBAR35	corrente intermedio Ø35 con ghiera incassabili L = 3000 mm	1	
	RBGBAR45F	corrimano senza ghiera incassabili Ø45 mm L = 3000 mm	1	
	RBGBAR35F	corrente intermedio senza ghiera incassabili Ø35 mm L = 3000 mm	1	
	RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm	1	
MONTANTI	RBGSUP100	montante dritto H = 1028 mm incavo Ø45 mm	1	
	RBGSUP110	montante dritto H = 1105 mm incavo Ø45 mm	1	
	RBGSUP118	montante dritto H = 1182 mm incavo Ø45 mm	1	
	RBGSUP110F	montante abbattibile H = 1105 mm incavo Ø45 mm	1	
	RBGSUP100F	montante abbattibile H = 1010 mm incavo Ø45 mm	1	
	RBGSUP130	montante dritto H = 1300 mm incavo Ø45 mm	1	
	RBGSUP760WH NEW	montante dritto altezza 760 mm senza corrente intermedio	1	
	RBGSUP115I	montante inclinato H = 1157 mm incavo Ø45 mm	1	
TAVOLA FERMAPIEDE ED ACCESSORI	RBGTB	tavola fermapiede 3000 x 150 x 19 mm	1	
	RBGTBJUN	connettore dritto di tavola fermapiede H = 150 mm	1	
	RBGTBCOR	riinvio d'angolo tavola fermapiede H = 150 mm	1	
	RBGTBCAP	tappo per tavola fermapiede H = 150 mm	1	
	RBGTBW	supporto per tavola fermapiede H = 150 mm per GUARD W	1	
	RBGTBH	supporto per tavola fermapiede H = 150 mm	1	

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GUARD | componenti

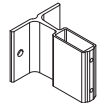
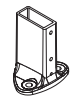
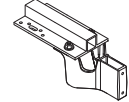
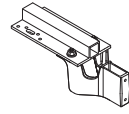
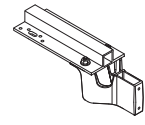
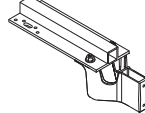
CODICI E DIMENSIONI

GRUPPO	CODICE	descrizione	pz.	
BASI STANDARD	RBGBASEW	base per autoportante GUARD W dritta con gamba di sostegno	1	
	RBGBASEWI	base per autoportante GUARD W inclinata con gamba di sostegno	1	
	RBGBASEWFCR	gamba di sostegno curva destra a 25° per angolo	1	
	RBGBASEWFCL	gamba di sostegno curva sinistra a 25° per angolo	1	
	RBGBASEWFR	gamba di sostegno con curva a destra per parapetto abbattibile	1	
	RBGBASEWFL	gamba di sostegno con curva a sinistra per parapetto abbattibile	1	
	RBGBASEWF	base per autoportante GUARD W con fori	1	
	RBGBASEWIFCR NEW	gamba di sostegno per montante inclinato curva destra 25°	1	
	RBGBASEWIFCL NEW	gamba di sostegno per montante inclinato curva sinistra 25°	1	
	RBGBASEWE	cuneo di bloccaggio per GUARD W (ricambio)	1	
	RBGWEIGHT	contrapeso di plastica 12,5 kg per GUARD W	3	
	RBGBASEV	piastra di base fissaggio a parete GUARD V	1	

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GUARD | componenti

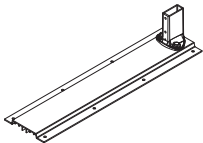
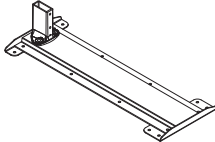
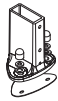
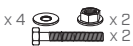
CODICI E DIMENSIONI

GRUPPO	CODICE	descrizione	pz.	
BASI STANDARD	RBGBASEVD	piastra di base fissaggio a muro sporgente GUARD VD	1	
	RBGDIST	pezzo distanziatore GUARD V-VD + 35 mm	1	
	RBGBASEH	piastra di base fissaggio orizzontale dipinto di grigio GUARD H	1	
	RBGBASEZ	base Z alluminio standard per muro perimetrale senza isolante GUARD Z	1	
	RBGBASEZ70 NEW	base GUARD Z con isolante spessore 70 mm	1	
	RBGBASEZ100 NEW	base GUARD Z con isolante spessore 100 mm	1	
	RBGBASEZ130 NEW	base GUARD Z con isolante spessore 130 mm	1	
	RBGBASEZ160 NEW	base GUARD Z con isolante spessore 160 mm	1	

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CODICI E DIMENSIONI

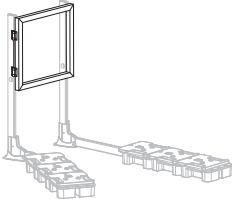
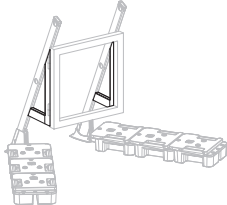
GRUPPO	CODICE	descrizione	pz.	
BASI PER FISSAGGIO SU LAMIERA GRECATATA	RBGBASE250PA	piastra per fissaggio a lamiera grecate passo 250 mm, GUARD parallelo alle greche (escluse viti)	1	
	RBGBASE333PA	piastra per fissaggio a lamiera grecate passo 333 mm, GUARD parallelo alle greche (escluse viti)	1	
	RBGBASE250PE	piastra per fissaggio a lamiera grecate passo 250 mm, GUARD perpendicolare alle greche (escluse viti)	1	
	RBGBASE333PE	piastra per fissaggio a lamiera grecate passo 333 mm, GUARD perpendicolare alle greche (escluse viti)	1	
ACCESSORI	RBGCAP45	tappo per corrimano Ø45 mm	1	
	RBGCAP35	tappo per corrente intermedio Ø35 mm	1	
	RBGCOR45	angolo per corrimano Ø45 mm	1	
	RBGCOR35	angolo per corrente intermedio Ø35 mm	1	
	RBGWALL45	elemento terminale per corrimano Ø45 mm	1	
	RBGWALL35	elemento terminale per corrente intermedio Ø35 mm	1	
	RBGCORAL	angolo in alluminio per corrimano	1	
	RBGWALLAL	elemento terminale in alluminio per corrimano	1	
	RBGBASEHKIT	kit d'impermeabilizzazione per base GUARD H	1	
	RBGWEDGE	cuneo in plastica per spessoramento	1	
VITI DI FISSAGGIO	RBGSCR4816	vite autoperforante 4,8 x 16 mm INOX	25	
	RBGSCR4825	vite autoperforante 4,8 x 25 mm INOX	25	
	RBGSCR4832	vite autoperforante 4,8 x 32 mm INOX	25	
	RBGSCR4850	vite autoperforante 4,8 x 50 mm INOX	25	
	RBGSCR627	vite autoforante per lamiera INOX 6 x 27 mm	25	
	RBGSCR810	vite a grano M8 x 10 (ricambio)	10	
	RBGSCRWAS	rondella di tenuta	25	
	RBGBASEWFKIT NEW	kit per unione RBGBASEWF e RBGBASEWFR / RBGBASEWFL	-	

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GUARD | componenti

CODICI E DIMENSIONI

GRUPPO	CODICE	descrizione	pz.	
KIT CANCELLETTI DI SICUREZZA	RBGGATE600	portello di sicurezza 500 mm di altezza con cerniere montate L = 600 mm	1	
	RBGGATE1100	portello di sicurezza 500 mm di altezza con cerniere larghezza L = 1100 mm	1	
	RBGGATEWISUP NEW	supporto per cancello montante inclinato	1	
MANUALI	RBGUARDHMAN	manuale per GUARD H	1	
	RBGUARDVMAN	manuale per GUARD V	1	
	RBGUARDMMAN	manuale per GUARD M	1	
	RBGUARDZMAN	manuale per GUARD Z	1	
	RBGUARDWMAN	manuale per GUARD W	1	

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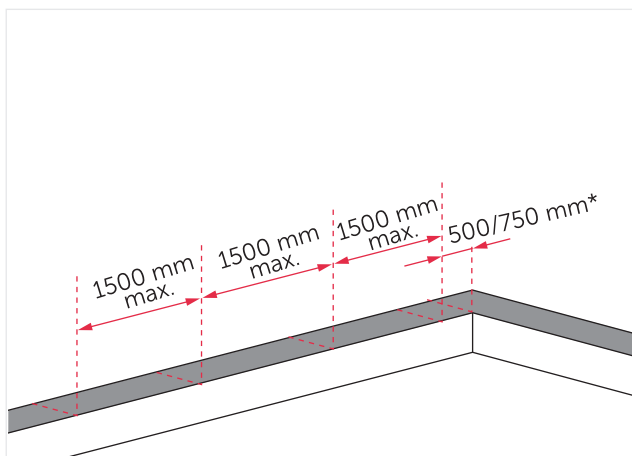
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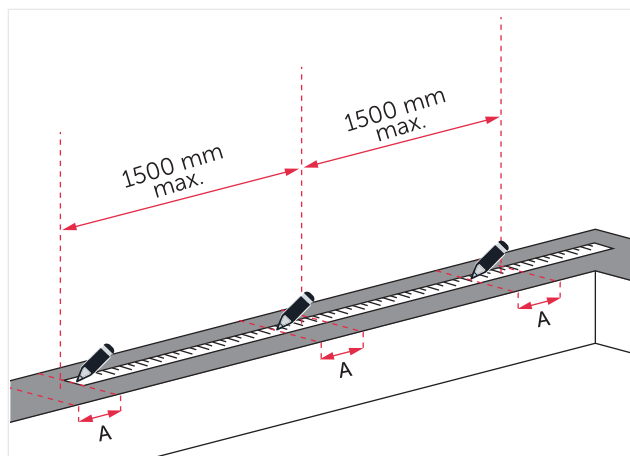
INSTALLAZIONE

MONTAGGIO PARAPETTO SOTTO COPERTINA CON BASE RGBBASEZ

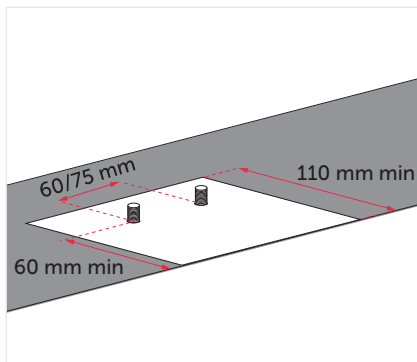
Il montaggio del parapetto sotto copertina (Base RGBBASEZ) richiede un minimo di due persone. È meglio iniziare l'installazione in un angolo.



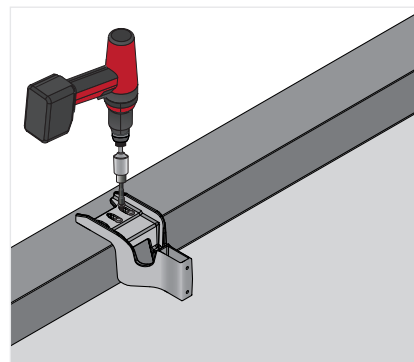
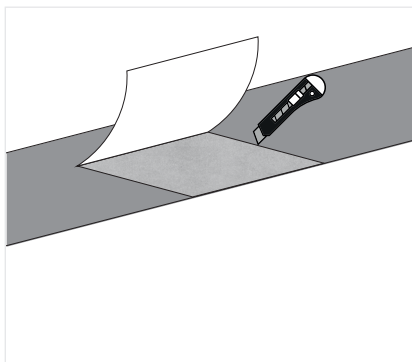
1 - Tracciare un marchio ogni 1500 mm al massimo. La dimensione tra il montante e il bordo del cordolino deve essere di 500 mm per il parapetto diritto e di 750 mm per il parapetto inclinato.



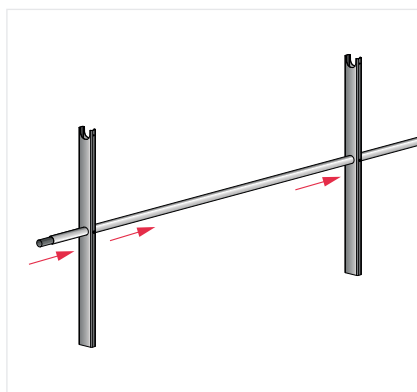
2 - Per la disposizione delle basi, realizzare con una cordicella le marcature di dimensioni d'interasse A = 60 mm per la base RGBBASEZ, A = 70 mm per le basi RGBBASEZ70, A = 100 mm per RGBBASE100, A = 130 mm per RGBBASEZ130 e A = 160 mm per RGBBASEZ160, oppure secondo il piano di disposizione.



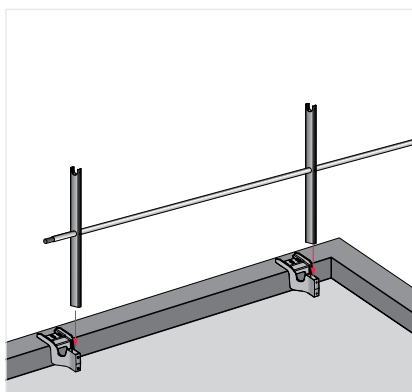
3 - Le basi Z devono essere fissate direttamente sul cordolino. Se l'impermeabilizzazione lo copre, tagliare alla collocazione di ogni base Z.



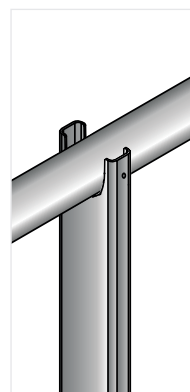
4 - Fissare la base sul cordolino secondo il supporto (cf pagina 9)



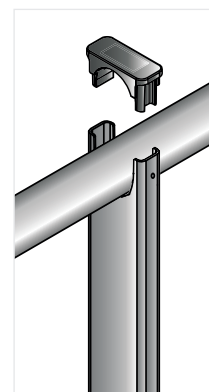
5 - Inserire un corrente intermedio in 2 montanti.



6 - Inserire il tutto nelle basi.

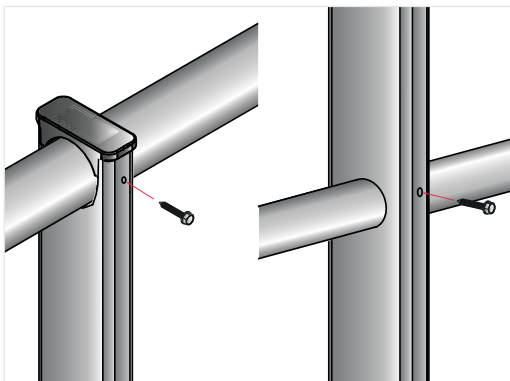


7 - Posizionare il corrimano sui montanti.

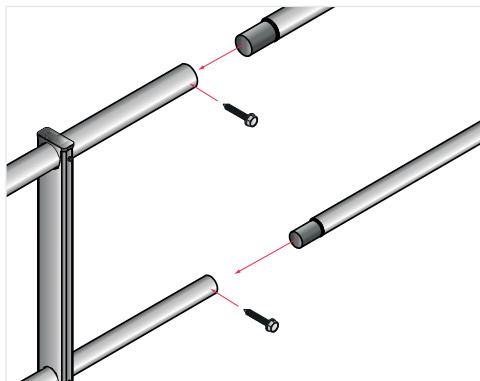


8 - Chiudere la parte superiore del montante.

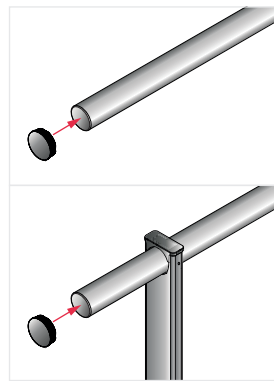
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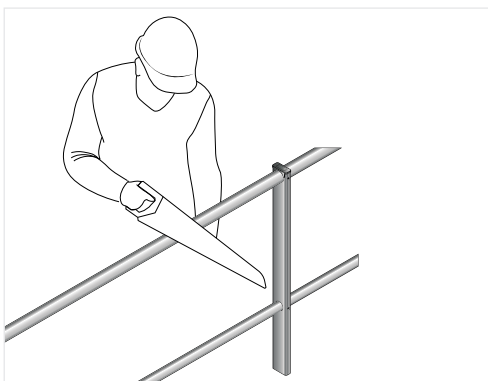
9 - Avvitare le viti autoforanti 4,8 x 25 sul montante a livello del corrimano e del corrente intermedio.



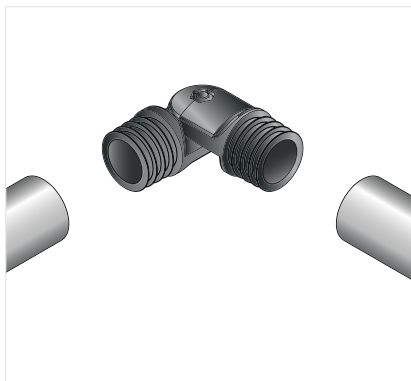
10 - Inserire i corrimani e i correnti intermedi delle sezioni già montate e fissate con viti 4,8 x 16.



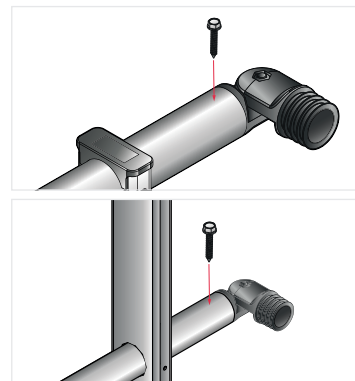
14 - Inserire i tappi o le terminazioni a muro nei corrimani o correnti intermedi.



13 - Adattare l'ultima sezione tagliando la parte in eccedenza.

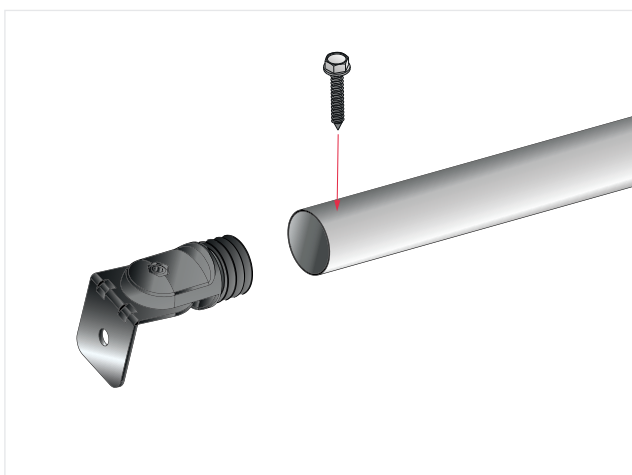


11 - Inserire gli angoli dei corrimani e dei correnti intermedi.

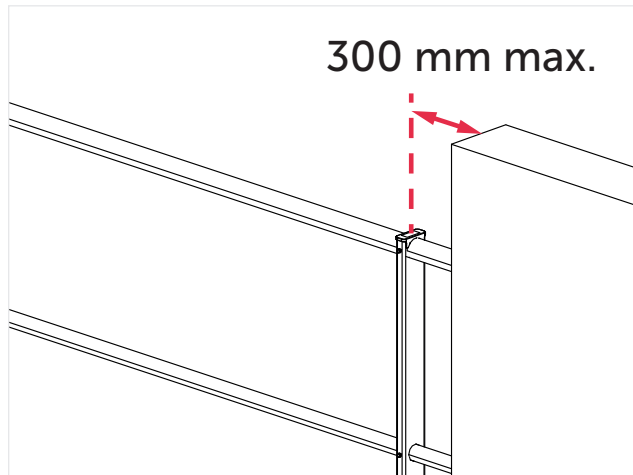


12 - Fissare gli angoli con viti autoforanti 4,8 x 25.

MONTAGGIO DEGLI ELEMENTI DI FISSAGGIO MURALI



1 - Fissare gli angoli con viti autoforanti 4,8 x 25.



2 - Osservare l'interasse massimo di 300 mm tra il montante e il muro.

INSTALLATIONSANLEITUNG

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DEFINITION

Das Geländer GUARD mit der Grundplatte Z und der Grundplatte Z für isolierte Attika ist eine kollektive Schutzeinrichtung zur Absturzsicherung. Das Geländer GUARD ist die ideale Lösung für die Sicherung von Dächern. Sein Design ermöglicht dank der verjüngten Aufnahme auf der Höhe des Handlaufs und der Mittelläufe eine schnelle und einfache Montage. Das Geländer GUARD mit der Grundplatte Z für isolierte Attika ist in 4 Modellen erhältlich: 70, 100, 130 und 160. Es kann verwendet werden, wenn die Attika übersteht.

NORMEN

Das Geländer GUARD Z unterliegt der EU-Norm EN ISO 14122-3 vom Dezember 2007 „Sicherheit von Maschinen - Ortsfeste Zugänge zu maschinellen Anlagen - Teil 3: Treppen, Treppenleitern und Geländer“ und der Norm NF E 85-015 vom April 2008 „Bestandteile von Industrieanlagen - Ortsfeste Zugänge“.

Die Geländer GUARD Z haben die statischen und dynamischen Tests und Prüfungen nach EN ISO 14122-3 erfolgreich bestanden.

RECHTLICHE VERWEISE

- Ein Geländer muss installiert werden, wenn die Fallhöhe 2 Meter überschreitet (lokale Vorschriften überprüfen).
- Die Höhe des Geländer-Handlaufs muss mindestens 1100 mm über der begehbaren Fläche liegen (lokale Vorschriften prüfen).
- Der Freiraum zwischen Handlauf und Mittellauf sowie zwischen Mittellauf und Fußleiste muss kleiner oder gleich 500 mm sein.
- Die Fußleiste muss mindestens 100 mm hoch sein. Wenn zwischen der Fußleiste und der begehbaren Fläche ein Leerraum ist, darf dieser 10 mm nicht überschreiten.
- Der Abstand zwischen zwei Pfosten darf nicht größer als 1500 mm sein. **ACHTUNG: Wenn bei der Montage des Geländers GUARD der maximale Abstand von 1500 mm zwischen den Pfosten nicht eingehalten wird, entspricht die Montage nicht den Vorgaben.**
- Wenn der Handlauf unterbrochen wird, darf der Freiraum zwischen zwei Segmenten des Handlaufs zwischen 75 mm und 120 mm breit sein. Sollten Durchgangspunkte mit Absturzgefahr vorhanden sein, müssen diese durch ein automatisch schließendes Tor gesichert werden, dessen Handlauf- und Mittellaufhöhe etwa der des Geländers entspricht.
- Klappbares Geländer: Vor der Montage des klappbaren Geländers muss ein PATROL-Seilsystem installiert werden. Dies wird auch bei der Montage und Wartung verwendet.

MONTAGEEMPFEHLUNG

- Mindesthöhe des Geländers/der Aufkantung mit Innenbefestigung: 150 mm.
- Bohrung mindestens 75 mm von der Oberkante der Aufkantung.
- Max. Achsabstand zwischen den Pfosten: 1500 mm.
- Winkel für Handlauf und Mittellauf mit Einrastung verstellbar.
- Komponenten des Handlaufs und der Mittelläufe, die ineinander gesteckt werden.

- Montage mit HC-Schrauben und selbstschneidenden Schrauben im Lieferumfang.
- Obligatorische Fußleiste bei Wandbefestigung und bei Aufkantung unter 100 mm.

VERWENDUNG - WARTUNG

- Es liegt in der Verantwortung des Monteurs, sicherzustellen, dass die Tragkonstruktion die Z-Grundplatte aufnehmen kann. Für eine Attika aus Beton wird beispielsweise ein Entfernungstest benötigt. Bei anderen Trägern erfolgt die Validierung durch Berechnung und/oder Prüfung.
- Die Person, welche die Montage des Geländers GUARD vornimmt, muss ein entsprechend qualifizierter Anwender sein und die Nutzungsvorschriften für Arbeiten in der Höhe beachten. Sie muss daher vor der Verwendung für die eigene Sicherheit sorgen (Einsatz von temporärem Seilsystem, PSA, Plattform usw.).
- Vor der Verwendung muss der Benutzer per Sichtkontrolle prüfen, dass das Geländer GUARD keine Anomalien aufweist (Erschütterungen, Verdrehungen usw.).
- Für das Geländer GUARD ist keine spezielle Wartung erforderlich; jedoch muss es mindestens einmal jährlich von einem Facharbeiter auf Sicht geprüft werden.
- Wenn das Geländer GUARD nicht fachgerecht installiert wird, beschädigt ist oder als Absturzsicherung eingesetzt wurde, muss die Verwendung sofort unterbrochen werden und sollte erst wieder aufgenommen werden, nachdem ein Facharbeiter den Wiedereinsatz aufgrund der Inspektion und Prüfung schriftlich genehmigt hat.
- Wenn das Produkt außerhalb des Hauptbestimmungslandes weiterverkauft wird, ist es für die Sicherheit des Anwenders unerlässlich, dass der Händler die Gebrauchsanweisungen in der Sprache des Landes bereitstellt, in dem das Produkt verwendet wird. Diese Unterlagen können auf Anfrage durch den Hersteller zur Verfügung gestellt werden.
- Das Geländer GUARD ist eine permanente kollektive Schutzvorrichtung, die von Fachleuten auf Dächern verwendet wird, welche für die Öffentlichkeit nicht zugänglich sind.
- Bei der Montage in einer verschmutzten Industrie-, Petrochemie-, Marine- oder Meeresumgebung muss die Oberfläche des Geländers GUARD entsprechend behandelt, d. h. einer Pulverlackierung, Eloxierung usw. unterzogen werden.
- Wenn ein Grundriss vorhanden ist, sollte bei der Montage dieses Dokument berücksichtigt werden.
- Wenn kein Grundriss vorhanden ist, muss zwischen allen Pfosten ein Abstand von 1500 mm eingehalten werden, wobei die Position der Pfosten den Ecken des Dachs entsprechen muss.

LAGERUNG

Die unbehandelten Aluminiumteile sind in der Verpackung nicht voneinander getrennt. Regeneinwirkung auf die ungeöffnete Verpackung begünstigt die Oxidation dieser Komponenten. In diesem Fall kann es zu Flecken auf der Oberfläche kommen. Sie beeinträchtigen zwar nicht die Qualität des Aluminiums, evtl. aber das Erscheinungsbild des Geländers. Es empfiehlt sich, die Verpackung zu öffnen und die Komponenten getrennt voneinander zu lagern (ohne dass sie sich berühren) oder die noch verschlossenen Packungen an einem trockenen Ort aufzubewahren.

GELÄNDER OHNE FUSSLEISTE



mit Attika über 150 mm

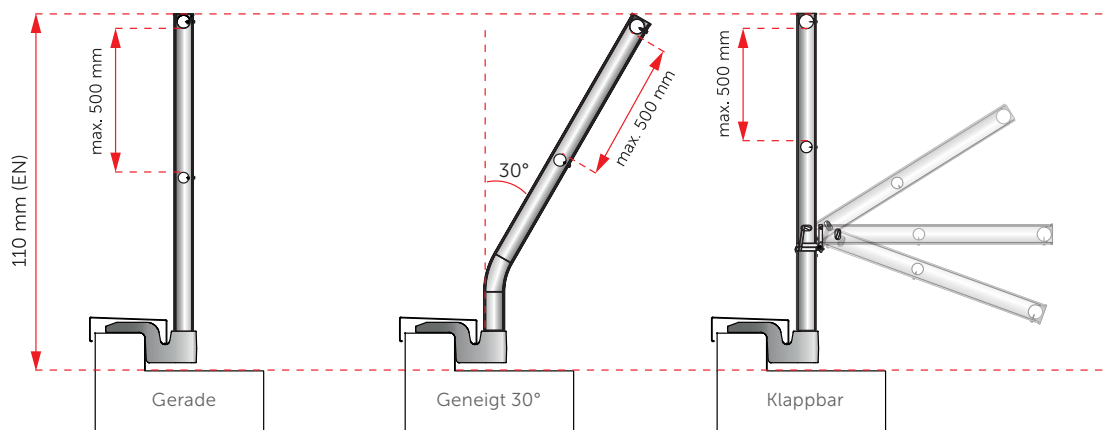
GELÄNDER MIT FUSSLEISTE



ohne Attika oder unter 150 mm

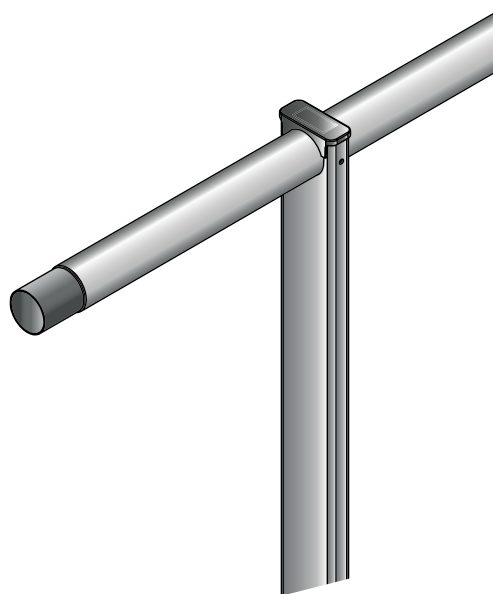
ABMESSUNGEN

Abmessungen der Pfosten:



OPTIMIERTE MONTAGE

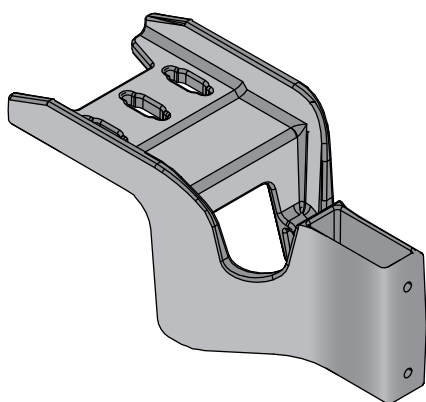
- Neue Winkelstücke (Kunststoff und ALU) für runden Handlauf;
- Neue Kappe für runden Handlauf;
- Pfosten: Langloch oben für die Aufnahme des Handlaufs + Löcher zur einfacheren Montage des Handlaufs und des Mittellaufs.



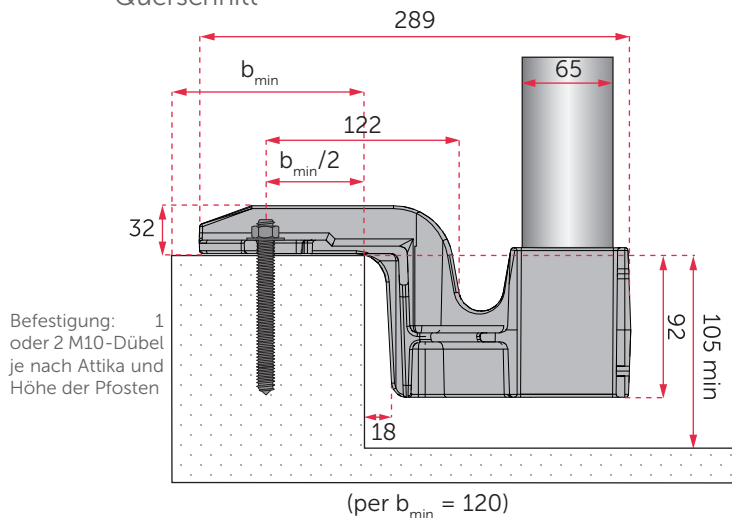
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■ GELÄNDER: BEFESTIGUNG UNTER DER ABDECKUNG (STANDARD-Z-GRUNDPLATTE)

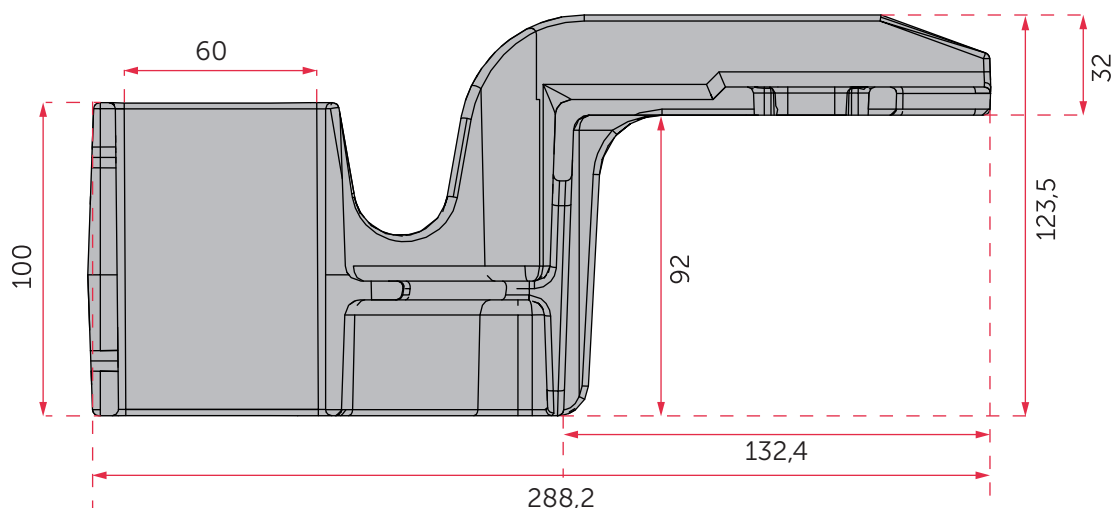
Z-GRUNDPLATTE IBDRIDA AUS ALUMINIUM FÜR ATTIKA OHNE DÄMMUNG



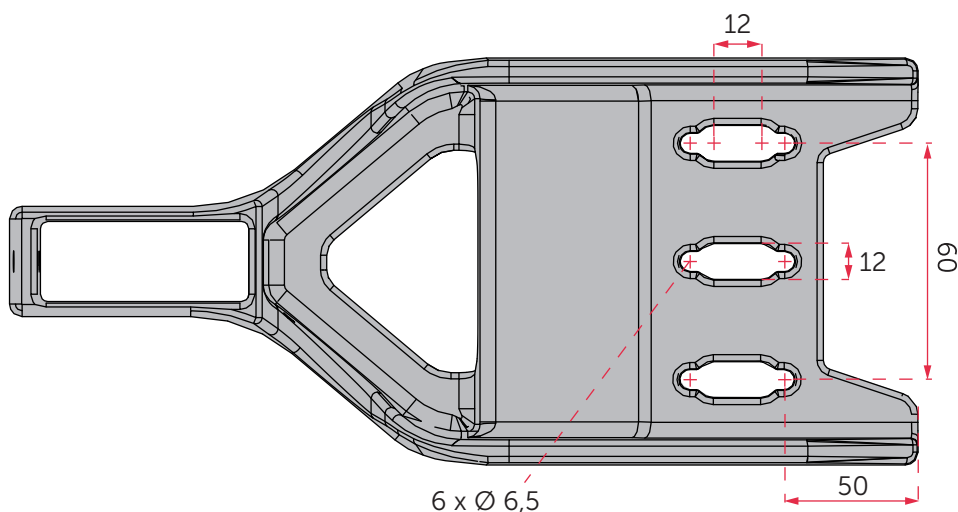
Querschnitt



Seitenansicht



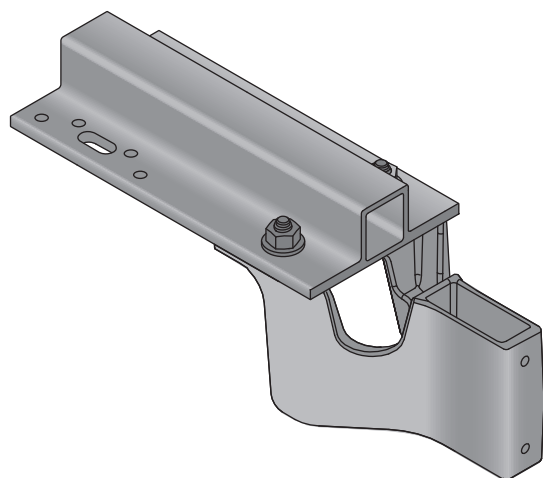
Draufsicht



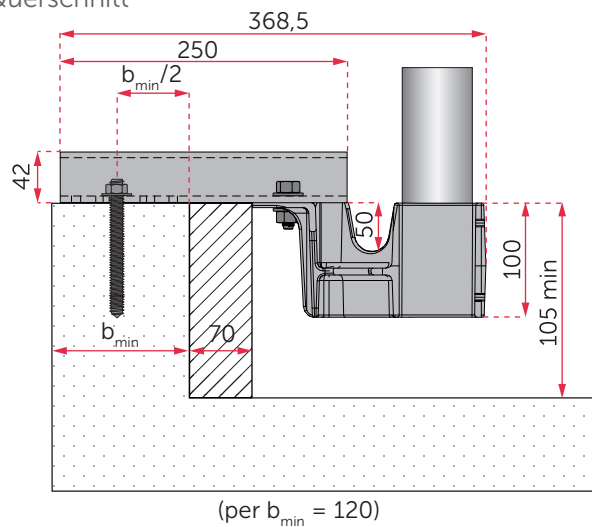
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■ GELÄNDER: BEFESTIGUNG UNTER DER ABDECKUNG (STANDARD-Z-GRUNDPLATTE)

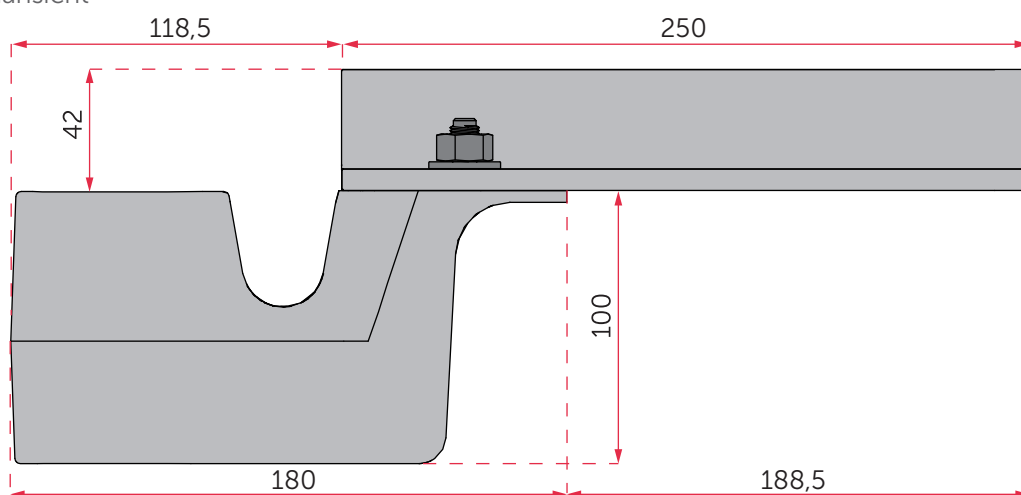
Z-GRUNDPLATTE IBDRIDA AUS ALUMINIUM FÜR ATTIKA MIT DÄMMUNG BIS 70 mm



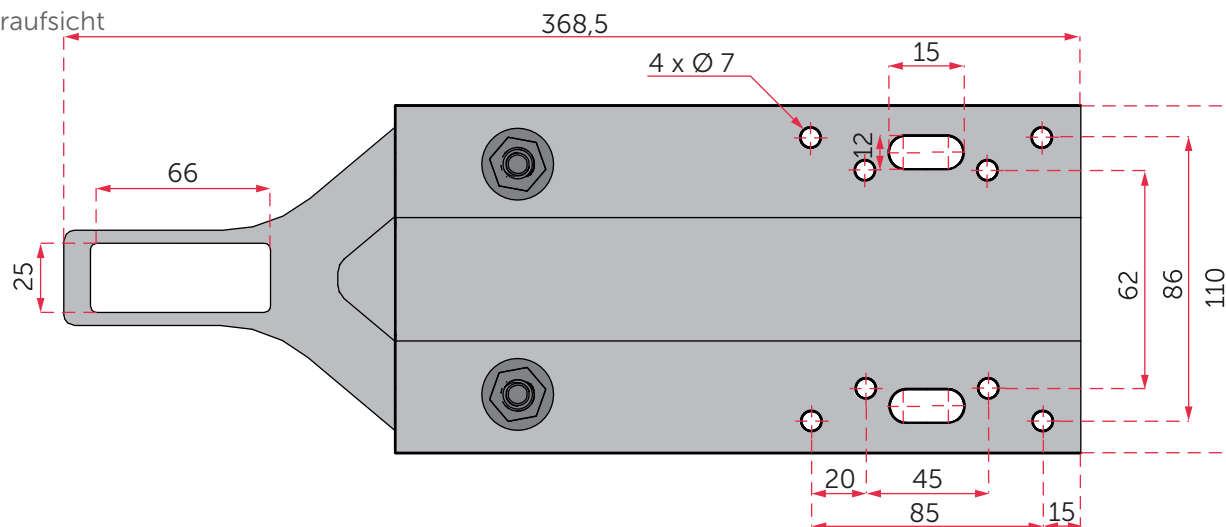
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Seitenansicht



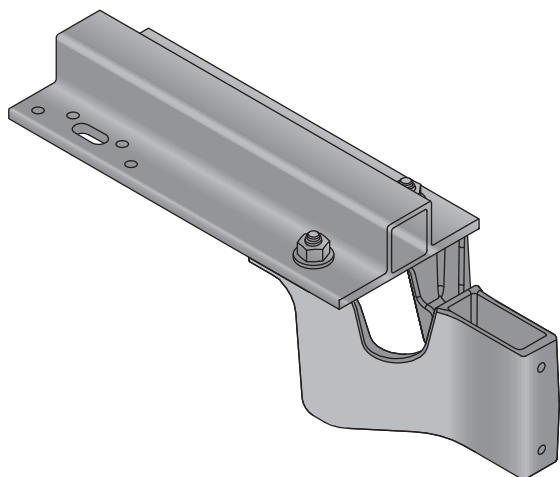
Draufsicht



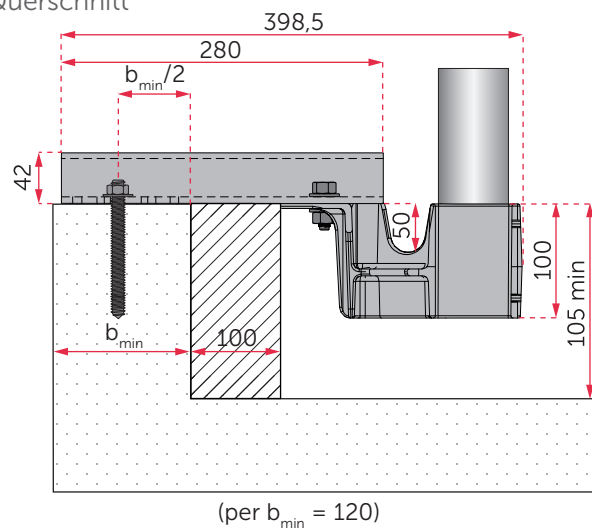
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■ GELÄNDER: BEFESTIGUNG UNTER DER ABDECKUNG (STANDARD-Z-GRUNDPLATTE)

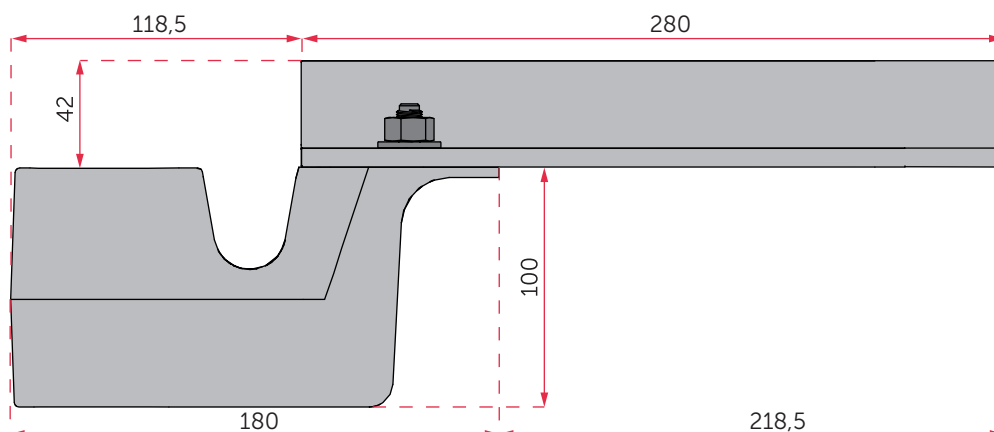
Z-GRUNDPLATTE IBDRIDA AUS ALUMINIUM FÜR ATTIKA MIT DÄMMUNG BIS 100 mm



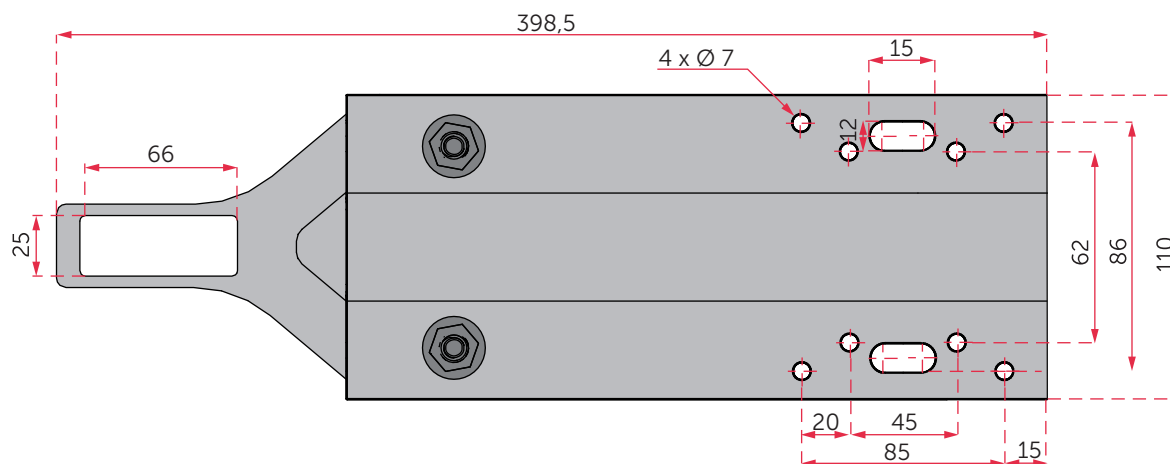
Querschnitt



Seitenansicht

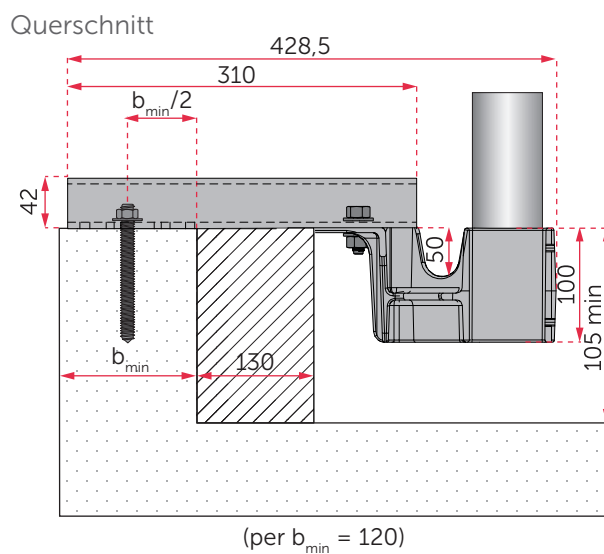


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Z-GRUNDPLATTE IBDRIDA AUS ALUMINIUM FÜR ATTIKA MIT DÄMMUNG BIS 130 mm



Technical drawing of a mechanical part with the following dimensions:

- Top horizontal dimension: 118,5
- Top horizontal dimension: 310
- Left vertical dimension: 42
- Bottom horizontal dimension: 180
- Bottom horizontal dimension: 248,5
- Right vertical dimension: 100

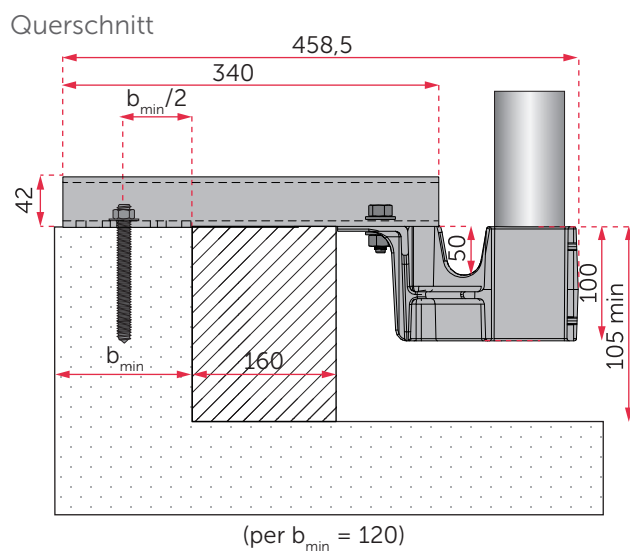
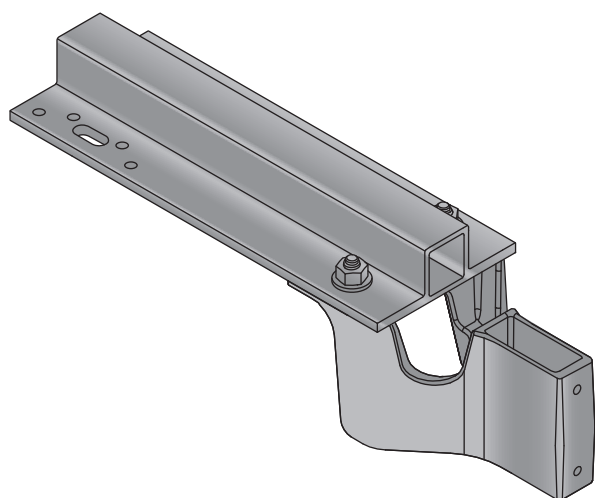
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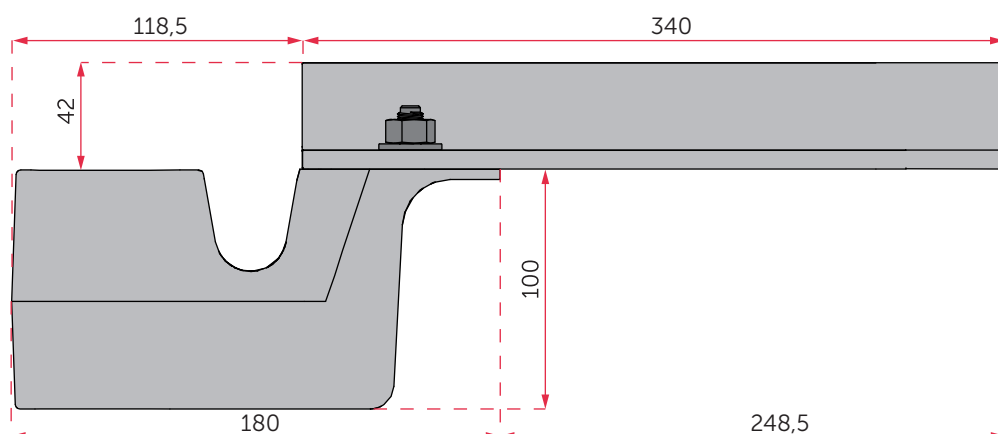
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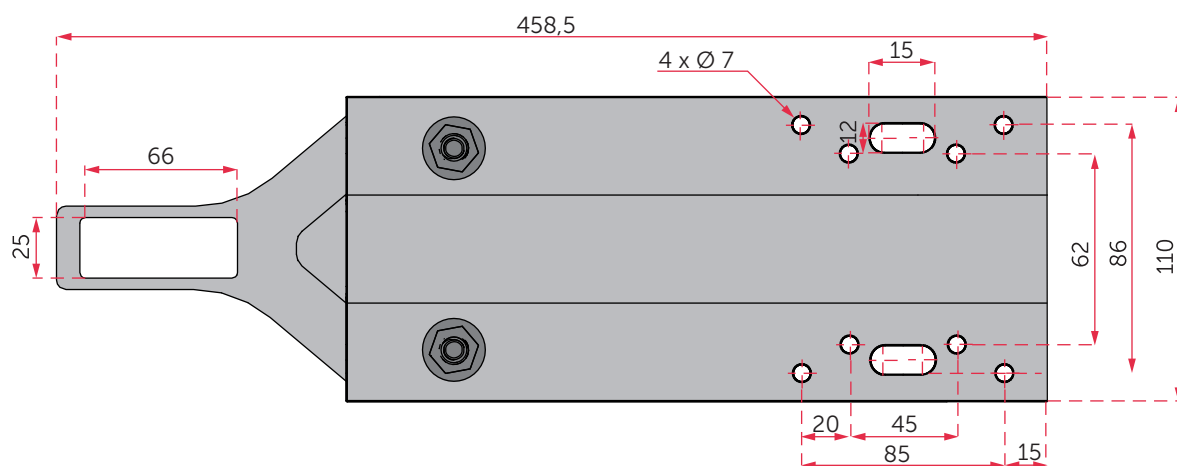
Z-GRUNDPLATTE IBDRIDA AUS ALUMINIUM FÜR ATTIKA MIT DÄMMUNG BIS 160 mm



Seitenansicht



Draufsicht



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BEFESTIGUNG

Es ist zwingend erforderlich, die von den Lieferanten der Befestigungselemente empfohlenen Abstände von den Kanten einzuhalten.

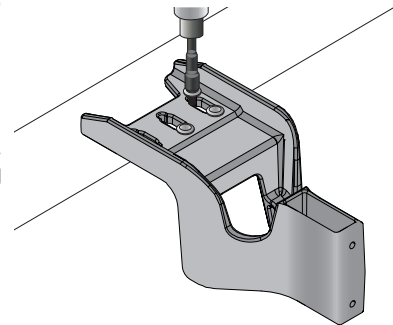
Die Befestigung ist auf zwei Arten von Halterungen möglich:

- Auf Beton mit 1 oder 2 Dübeln
- Auf Beton mit Dämmung: 3 Modelle bis 160 mm Dämmung

GUARD Z		Pfostenhöhe 1180 mm Belastung der Befestigung 698 dN		Pfostenhöhe 1010 mm Belastung der Befestigung 526 dN		Pfostenhöhe 760 mm Belastung der Befestigung 378 dN	
		b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]
UNGERISSE- NER BETON 	VIN-FIX 5,8 Stange M10 	120	110	100	175	-	-
	SKR CE 10x80 Verzinkter Stahl 	150	68	120	70	100	70
	AB1 A4 10x92 	150	68	150	68	150	68
HOLZ 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

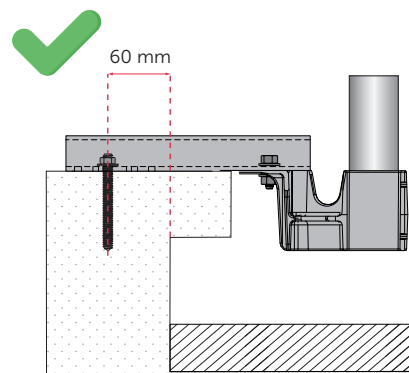
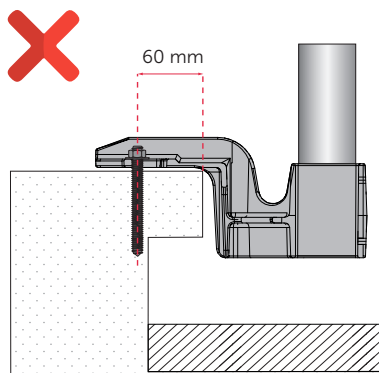
BEFESTIGUNG AN METALLKONSTRUKTION MIT 6 SELBSTBOHREN- DEN SCHRAUBEN

Um den Aufwand und die Machbarkeit auf der Grundlage der Halterung und der Bewertung des Schraubenlieferanten zu bestimmen, muss eine Vorstudie bei der Technik- und Konstruktionsabteilung angefordert werden.



BEFESTIGUNG AUF ATTIKA AUS BETON MIT ÜBERSTAND

ACHTUNG: Es ist zwingend erforderlich, einen Abstand von 60 mm zum Körper der Attika und nicht zu ihrem Überstand einzuhalten. Die Grundplatte RBGBASEZ ist für diese Konfiguration ungeeignet; stattdessen muss die Grundplatte RBGBASEZ70 verwendet werden.

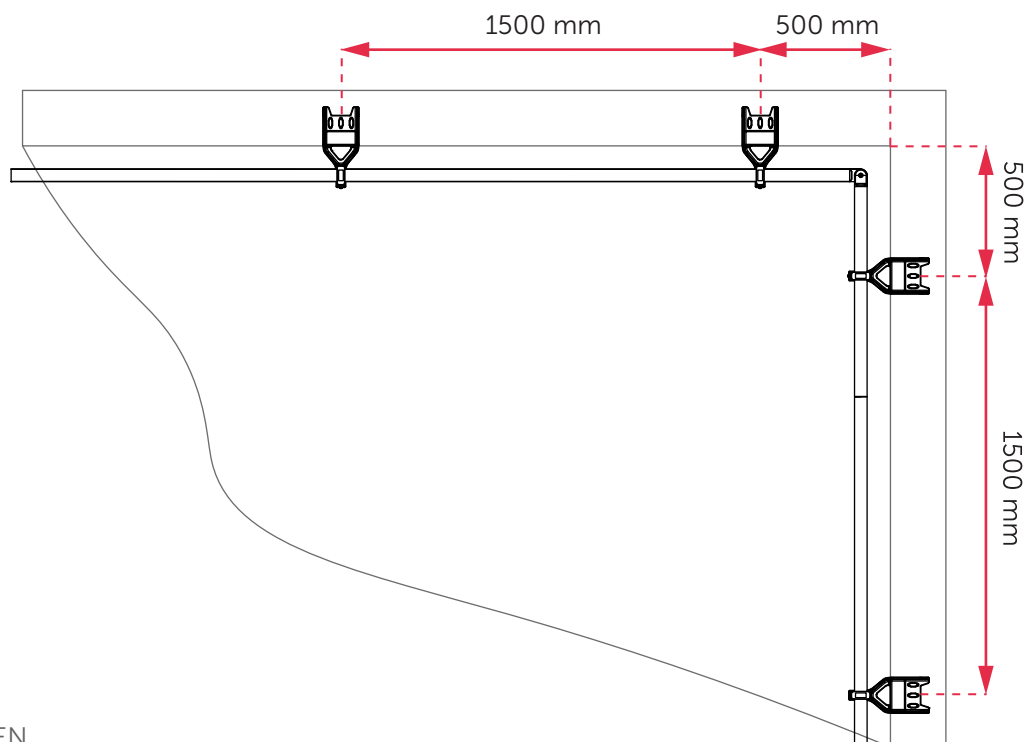


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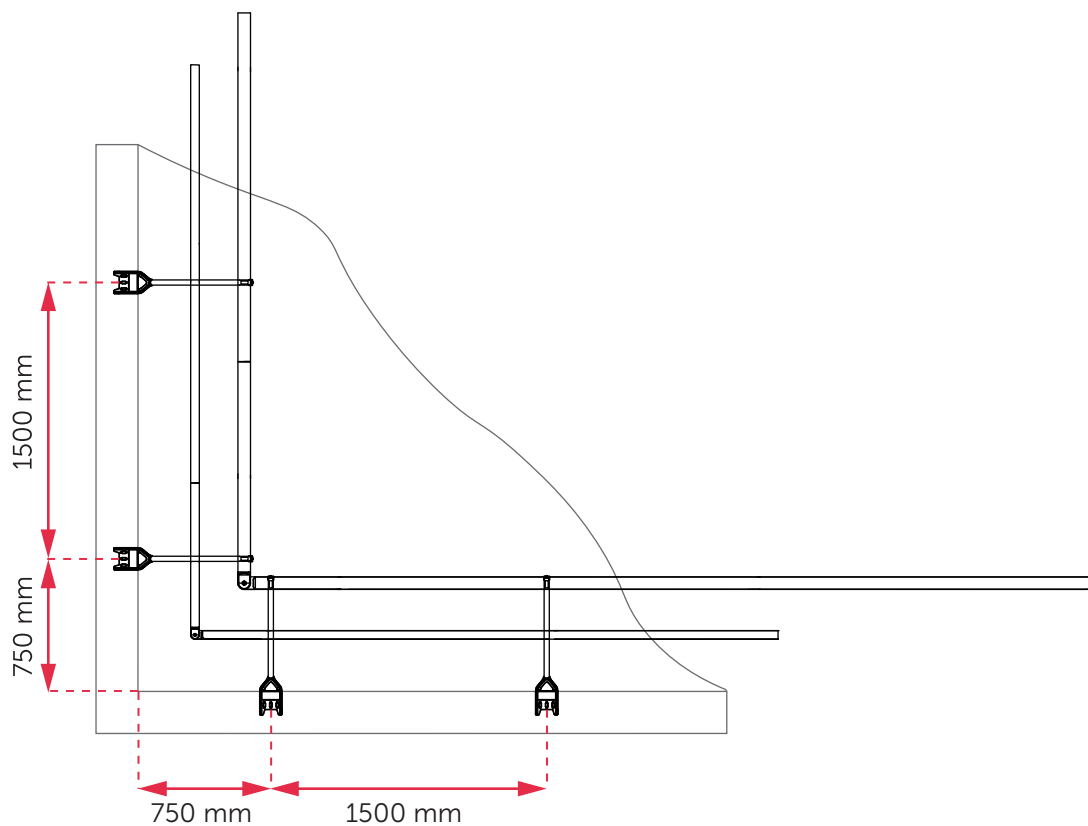
■ INSTALLATION

INSTALLATION DES GELÄNDERS UNTER ABDECKUNG MIT GRUNDPLATTE Z

GERADE PFOSTEN



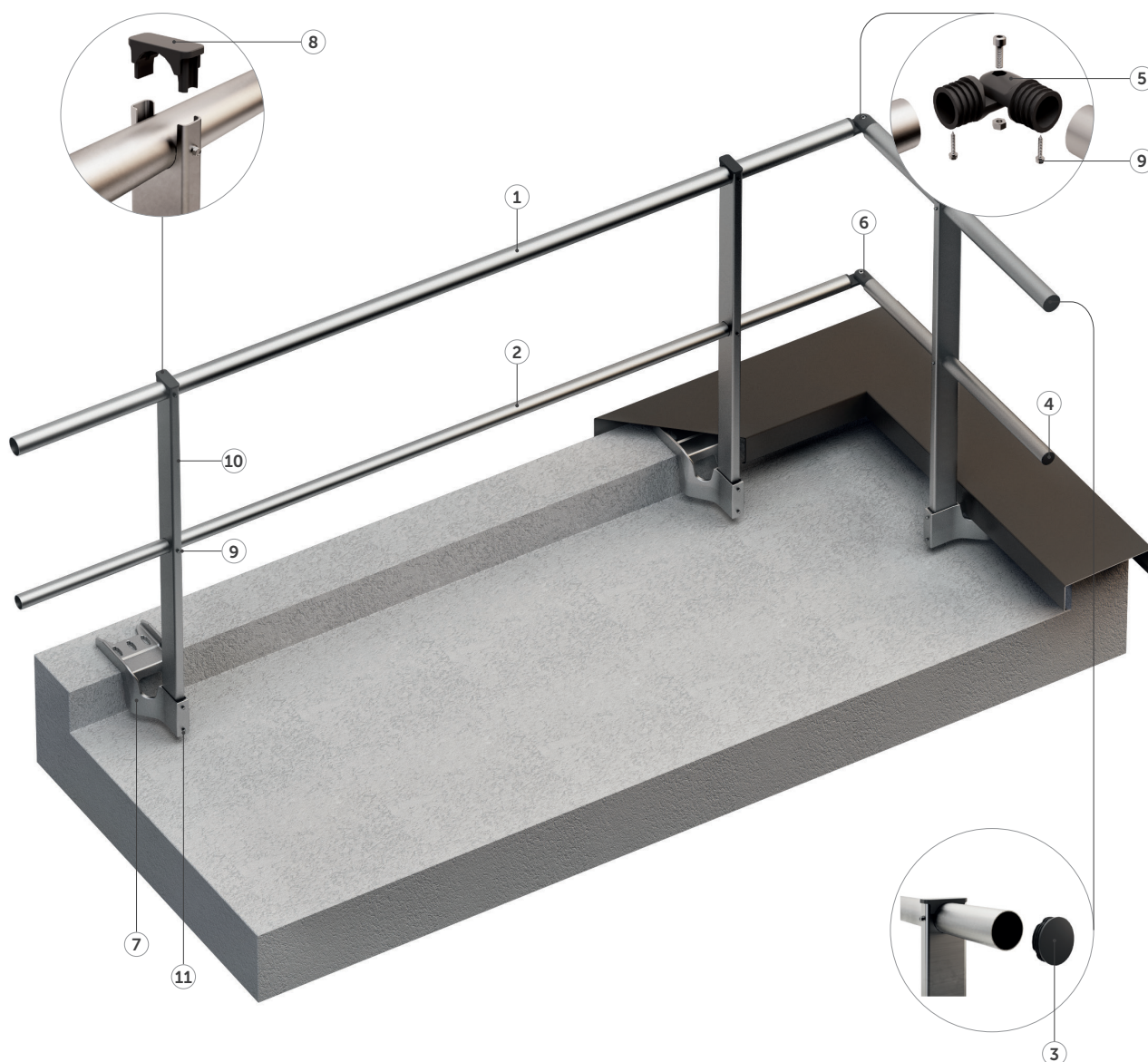
GENEIGTE PFOSTEN



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GUARD Z

GELÄNDER MIT Z-FÖRMIGER BEFESTIGUNG



ART.-NR.	Beschreibung
1 RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm
2 RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm
3 RBGCAP45	Kappe für Handlauf Ø45 mm
4 RBGCAP35	Kappe für Mittellauf Ø35 mm
5 RBGCOR45	Winkelstück für Handlauf Ø45 mm
6 RBGCOR35	Winkelstück für Mittellauf Ø35 mm
5-6 RBGCORAL	Winkelstück aus Aluminium für Handlauf und Mittellauf (alternativ zu RBGCOR45 / RBGCOR35)
7 RBGBASEZ	Standard-Grundplatte Z aus Aluminium für Außen- mauer ohne Dämmung GUARD Z inkl. Stiftschrauben
8 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
9 RBGSCR4825	Selbstbohrende Schraube 4,8 x 25 mm Edelstahl

ART.-NR.	Beschreibung
RBGSUP110	Gerader Pfosten H = 1105 mm mit Aufnahme Ø45 mm
RBGSUP118	Gerader Pfosten H = 1182 mm mit Aufnahme Ø45 mm
10 RBGSUP115I	Geneigter Pfosten H = 1157 mm Hohlraum Ø45 mm
RBGSUP760WH	NEW gerader Pfosten Höhe 760 mm ohne Mittellauf; (Attikahöhe min. 600 mm)

ART.-NR.	Beschreibung
11 RBGSCR810	Stiftschraube M8 x 10 mm (Ersatz)

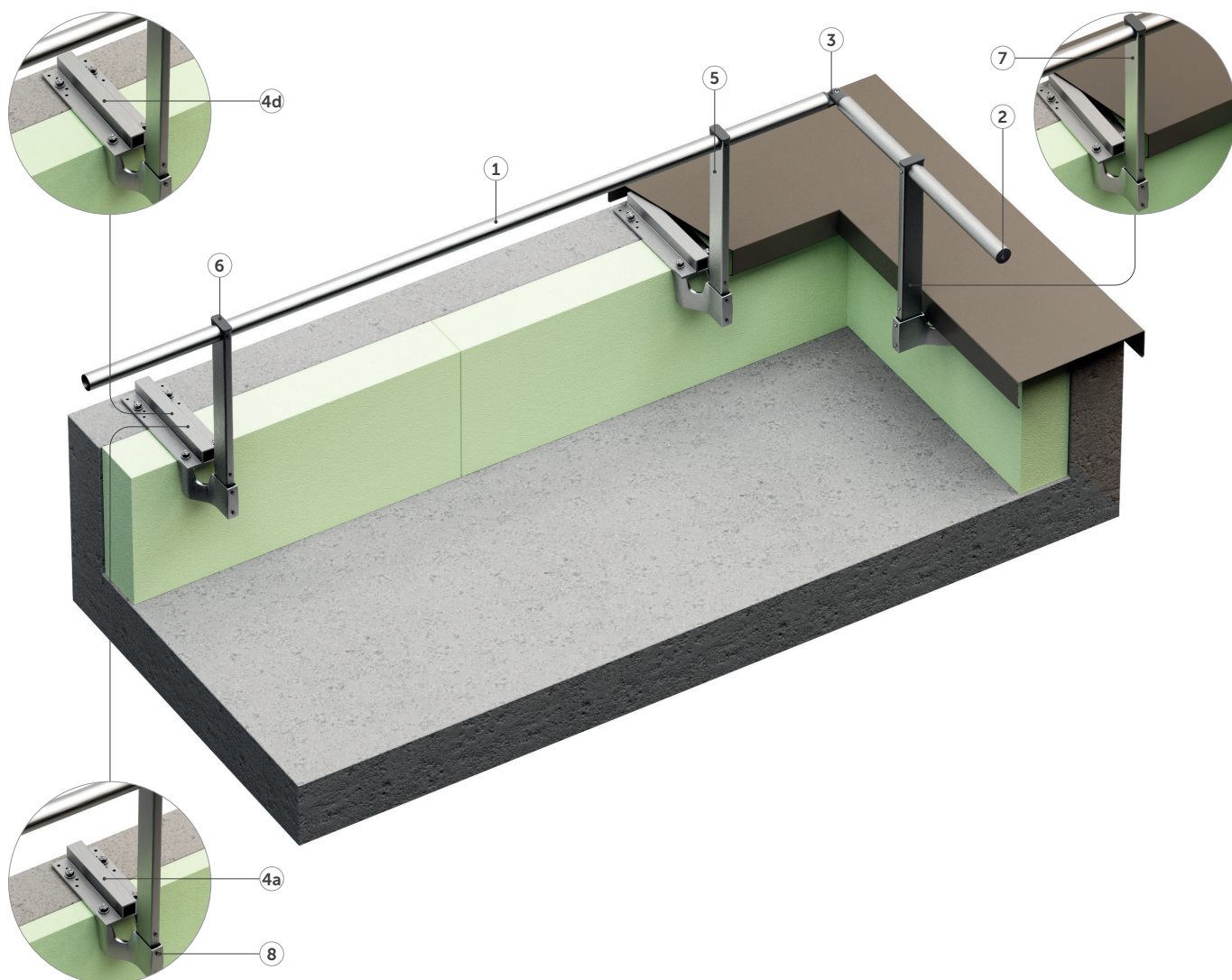
Für Wandbefestigung:

RBGWALL45	Endstück für Handlauf Ø45 mm
RBGWALL35	Endstück für Mittellauf, rund Ø35 mm
RBGWALLAL	Endstück aus Aluminium für Handlauf und Mittellauf

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GUARD Z

GELÄNDER MIT Z-FÖRMIGER BEFESTIGUNG MIT DÄMMUNG

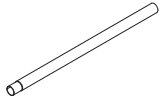
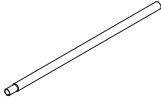
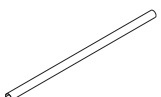
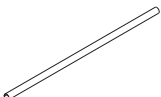
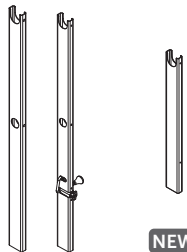
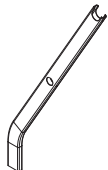
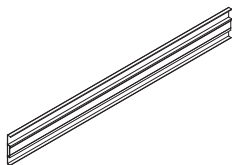
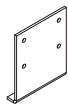
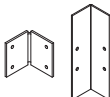


ART.-NR.	Beschreibung
1 RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm
2 RBGCAP45	Kappe für Handlauf Ø45 mm
3 RBGCOR45	Winkelstück für Handlauf Ø45 mm
a. RBGBASEZ70 NEW	Grundplatte GUARD Z mit Dämmung Stärke 70 mm
b. RBGBASEZ100 NEW	Grundplatte GUARD Z mit Dämmung Stärke 100 mm
c. RBGBASEZ130 NEW	Grundplatte GUARD Z mit Dämmung Stärke 130 mm
d. RBGBASEZ160 NEW	Grundplatte GUARD Z mit Dämmung Stärke 160 mm
RBGSUP760WH NEW	gerader Pfosten Höhe 760 mm ohne Mittellauf; (Attikahöhe min. 600 mm)
5 RBGSUP110	Gerader Pfosten H = 1105 mm mit Aufnahme Ø45 mm
RBGSUP118	Gerader Pfosten H = 1182 mm mit Aufnahme Ø45 mm
RBGSUP115I	Geneigter Pfosten H = 1157 mm mit Aufnahme Ø45 mm

ART.-NR.	Beschreibung
6 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
7 RBGSCR4825	Selbstbohrende Schraube 4,8 x 25 mm Edelstahl
ART.-NR.	Beschreibung
8 RBGSCR810	Stiftschraube M8 x 10 mm (Ersatz)
Für Wandbefestigung:	
RBGWALL45	Endstück für Handlauf Ø45 mm
RBGWALLAL	Endstück aus Aluminium für Handlauf und Mittellauf

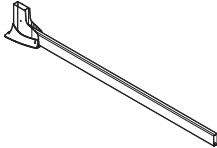
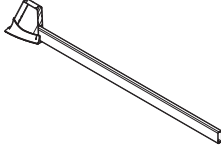
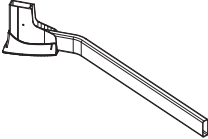
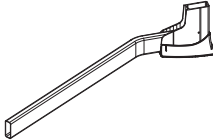
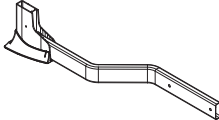
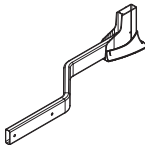
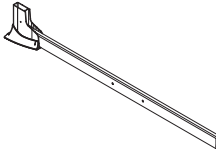
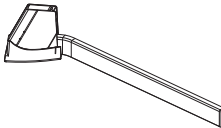
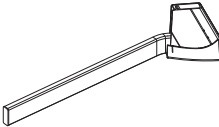
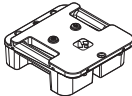
GUARD | Komponenten

ARTIKELNUMMERN UND ABMESSUNGEN

GRUPPE	ART.-NR.	Beschreibung	Stk.	
HANDLÄUFE UND MITTELLÄUFE	RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm	1	
	RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm	1	
	RBGBAR45F	Handlauf ohne verjüngte Aufnahme Ø45 mm L = 3000 mm	1	
	RBGBAR35F	Mittellauf ohne verjüngte Aufnahme Ø35 mm L = 3000 mm	1	
	RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm	1	
PFOSTEN	RBGSUP100	Gerader Pfosten H = 1028 mm mit Aufnahme Ø45 mm	1	
	RBGSUP110	Gerader Pfosten H = 1105 mm mit Aufnahme Ø45 mm	1	
	RBGSUP118	Gerader Pfosten H = 1182 mm mit Aufnahme Ø45 mm	1	
	RBGSUP110F	Klappbarer Pfosten H = 1105 mm mit Aufnahme Ø45 mm	1	
	RBGSUP100F	Klappbarer Pfosten H = 1010 mm mit Aufnahme Ø45 mm	1	
	RBGSUP130	Gerader Pfosten H = 1300 mm mit Aufnahme Ø45 mm	1	
	RBGSUP760WH NEW	Gerader Pfosten Höhe 760 mm ohne Mittellauf	1	
	RBGSUP115I	Geneigter Pfosten H = 1157 mm mit Aufnahme Ø45 mm	1	
FUSSLEISTE UND ZUBEHÖR	RBGTB	Fußleiste 3000 x 150 x 19 mm	1	
	RBGTBJUN	Gerader Verbinder Fußleiste H = 150 mm	1	
	RBGTBCOR	Winkelstück Fußleiste H = 150 mm	1	
	RBGTBCAP	Kappe für Fußleiste H = 150 mm	1	
	RBGTBW	Halterung Fußleiste H = 150 mm für GUARD W	1	
	RBGTBH	Halterung Fußleiste H = 150 mm	1	

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ARTIKELNUMMERN UND ABMESSUNGEN

GRUPPE	ART.-NR.	Beschreibung	Stk.	
STANDARD-GRUNDPLATTEN	RBGBASEW	Grundplatte für gerades selbsttragendes Geländer GUARD W mit Stützfuß	1	
	RBGBASEWI	Grundplatte für geneigtes selbsttragendes Geländer GUARD W mit Stützfuß	1	
	RBGBASEWFCR	Stützfuß mit Biegung rechts, 25° je Winkel	1	
	RBGBASEWFCL	Stützfuß mit Biegung links, 25° je Winkel	1	
	RBGBASEWFR	Stützfuß mit Biegung rechts für klappbares Geländer	1	
	RBGBASEWFL	Stützfuß mit Biegung links für klappbares Geländer	1	
	RBGBASEWF	Grundplatte für selbsttragendes GUARD W mit Löchern	1	
	RBGBASEWIFCR NEW	Stützfuß für geneigten Pfosten, Biegung rechts 25°	1	
	RBGBASEWIFCL NEW	Stützfuß für geneigten Pfosten, Biegung links 25°	1	
	RBGBASEWE	Sicherungskeil für GUARD W (Ersatz)	1	
	RBGWEIGHT	Gegengewicht aus Kunststoff 12,5 kg für GUARD W	3	
	RBGBASEV	Grundplatte für Wandbefestigung GUARD V	1	

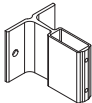
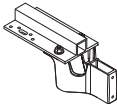
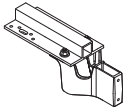
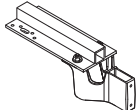
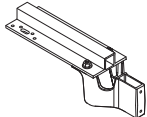
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GUARD | Komponenten

ARTIKELNUMMERN UND ABMESSUNGEN

GRUPPE	ART.-NR.	Beschreibung	Stk.	
STANDARD-GRUNDPLATTEN	RBGBASEVD	Grundplatte für Befestigung an Attikawand GUARD VD	1	
	RBGDIST	Abstandhalter GUARD V-VD + 35 mm	1	
	RBGBASEH	Grundplatte für horizontale Befestigung, grau lackiert GUARD H	1	
	RBGBASEZ	Grundplatte Z Aluminium Standard für Außenwand ohne Dämmung GUARD Z	1	
	RBGBASEZ70 NEW	Grundplatte GUARD Z mit Dämmung Stärke 70 mm	1	
	RBGBASEZ100 NEW	Grundplatte GUARD Z mit Dämmung Stärke 100 mm	1	
	RBGBASEZ130 NEW	Grundplatte GUARD Z mit Dämmung Stärke 130 mm	1	
	RBGBASEZ160 NEW	Grundplatte GUARD Z mit Dämmung Stärke 160 mm	1	

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ARTIKELNUMMERN UND ABMESSUNGEN

GRUPPE	ART.-NR.	Beschreibung	Stk.	
GRUNDPLATTEN FÜR BEFESTIGUNG AN TRAPEZBLECH	RBGBASE250PA	Trapezblech-Befestigungsplatte, Abstand 250 mm, GUARD parallel zu den Profilen (ohne Schrauben)	1	
	RBGBASE333PA	Trapezblech-Befestigungsplatte, Abstand 333 mm, GUARD parallel zu den Profilen (ohne Schrauben)	1	
	RBGBASE250PE	Trapezblech-Befestigungsplatte, Abstand 250 mm, GUARD senkrecht zu den Profilen (ohne Schrauben)	1	
	RBGBASE333PE	Trapezblech-Befestigungsplatte, Abstand 333 mm, GUARD senkrecht zu den Profilen (ohne Schrauben)	1	
ZUBEHÖR	RBGCAP45	Kappe für Handlauf Ø45 mm	1	
	RBGCAP35	Kappe für Mittellauf Ø35 mm	1	
	RBGCOR45	Winkelstück für Handlauf Ø45 mm	1	
	RBGCOR35	Winkelstück für Mittellauf Ø35 mm	1	
	RBGWALL45	Endstück für Handlauf Ø45 mm	1	
	RBGWALL35	Endstück für Mittellauf, rund Ø35 mm	1	
	RBGCORAL	Winkelstück aus Aluminium für Handlauf	1	
	RBGWALLAL	Endstück aus Aluminium für Handlauf	1	
	RBGBASEHKIT	Abdichtungssatz für Grundplatte GUARD H	1	
	RBGWEDGE	Kunststoffkeil zum Unterlegen	1	
BEFESTIGUNGSSCHRAUBEN	RBGSCR4816	Selbstbohrende Edelstahlschrauben 4,8 x 16 mm	25	
	RBGSCR4825	Selbstbohrende Edelstahlschrauben 4,8 x 25 mm	25	
	RBGSCR4832	Selbstbohrende Edelstahlschrauben 4,8 x 32 mm	25	
	RBGSCR4850	Selbstbohrende Edelstahlschrauben 4,8 x 50 mm	25	
	RBGSCR627	Selbstbohrende Edelstahlschraube für Blech 6 x 27 mm	25	
	RBGSCR810	Stiftschraube M8 x 10 (Ersatz)	10	
	RBGSCRWAS	Dichtungsscheibe	25	
	RBGBASEWFKIT NEW	Verbindungssatz RBGBASEWF und RBGBASEWFR / RBGBASEWFL	-	

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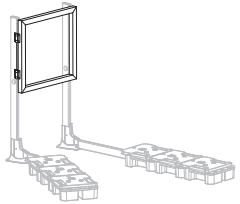
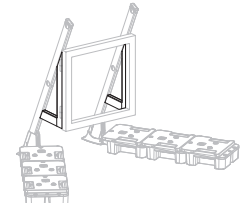
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GUARD | Komponenten

ARTIKELNUMMERN UND ABMESSUNGEN

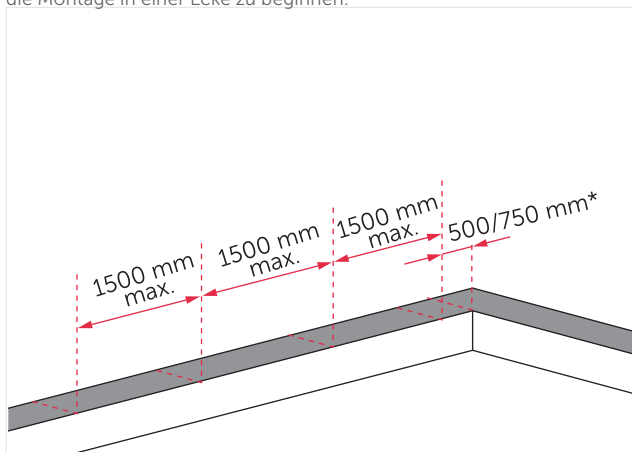
GRUPPE	ART.-NR.	Beschreibung	Stk.	
MONTAGESATZ SICHERHEITSTÜREN GELÄNDER	RBGGATE600	Schutztür Höhe 500 mm mit montierten Scharnieren L = 600 mm	1	
	RBGGATE1100	Schutztür Höhe 500 mm mit Scharnieren L = 1100 mm	1	
	RBGGATEWISUP NEW	Halterung für Tür, geneigter Pfosten	1	
BEDIENUNGSANLEITUNG	RBGUARDHMAN	Bedienungsanleitung für GUARD H	1	
	RBGUARDVMAN	Bedienungsanleitung für GUARD V	1	
	RBGUARDMMAN	Bedienungsanleitung für GUARD M	1	
	RBGUARDZMAN	Bedienungsanleitung für GUARD Z	1	
	RBGUARDWMAN	Bedienungsanleitung für GUARD W	1	

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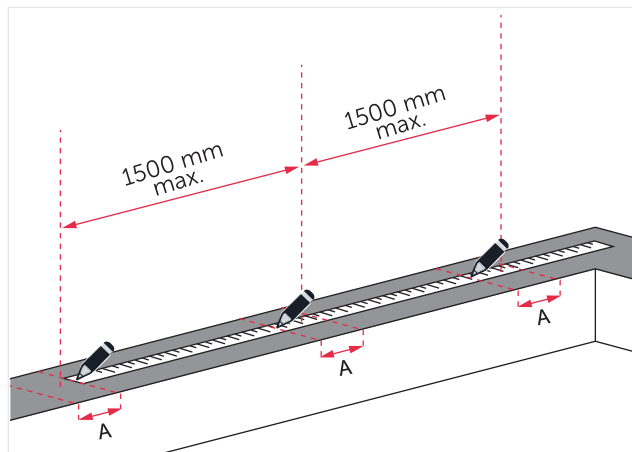
MONTAGE

MONTAGE GELÄNDER UNTER ABDECKUNG MIT GRUNDPLATTE RBGBASEZ

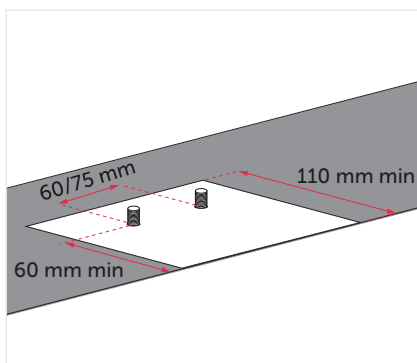
Für die Montage des Geländes unter der Abdeckung (Grundplatte RBGBASEZ) werden mindestens zwei Personen benötigt. Dabei empfiehlt es sich, die Montage in einer Ecke zu beginnen.



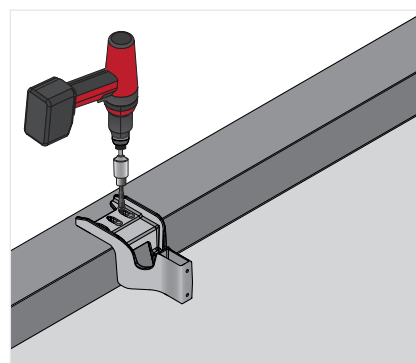
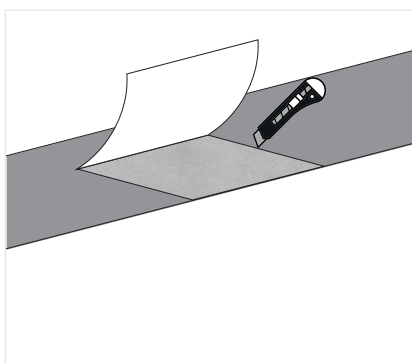
1 - Max. alle 1500 mm eine Bezugsmarkierung anreißen. * Zwischen dem Pfosten und dem Rand der Attika müssen beim geraden Schutzgelenk 500 mm und beim geneigten Schutzgelenk 750 mm liegen.



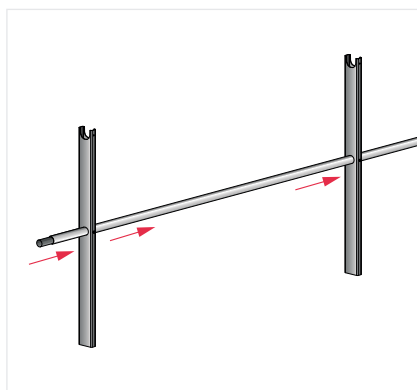
2 - Für die Anordnung der Grundplatten mit einer Schnur die Markierungen der Achsabstände $A = 60$ mm für Grundplatte RBGBASEZ, $A = 70$ mm für Grundplatte RBGBASEZ70, $A = 100$ mm für RBGBASE100, $A = 130$ mm für RBGBASEZ130 und $A = 160$ mm für RBGBASEZ160 oder entsprechend dem Anordnungsplan vornehmen.



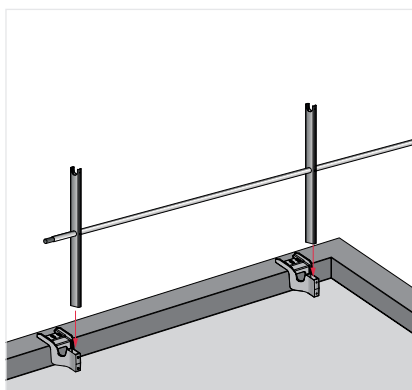
3 - Die Grundplatten Z müssen direkt an der Attika befestigt werden. Wenn er durch die Abdeckung abgedeckt ist, diese in der Position jeder Z-Grundplatte einschneiden.



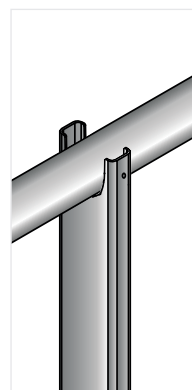
4 - Die Grundplatte an der Attika entsprechend der Halterung befestigen (vgl. S. 9)



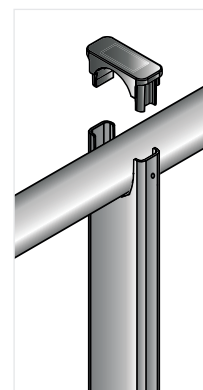
5 - Einen Mittellauf in 2 Pfosten einsetzen.



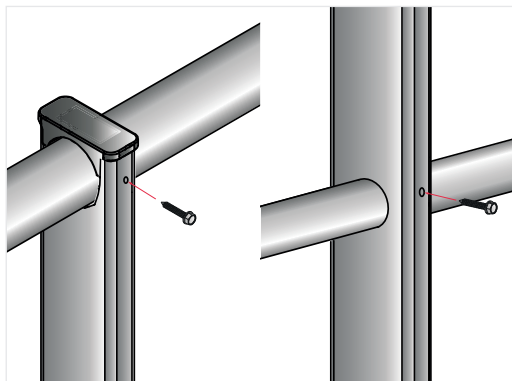
6 - Die Baugruppe in die Sockel einsetzen.



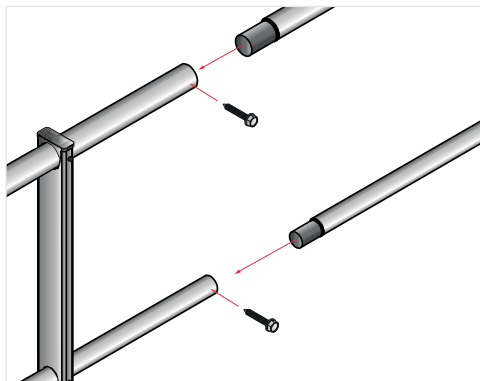
7 - Den Handlauf auf den Pfosten ablegen.



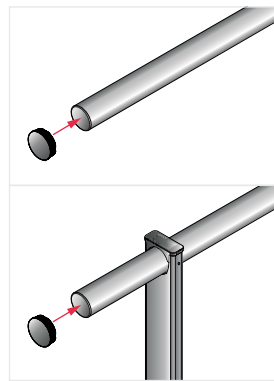
8 - Das Oberteil des Pfostens schließen.



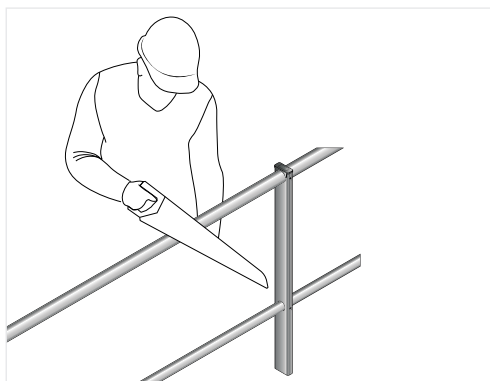
9 - Die selbstbohrenden Schrauben 4,8 x 25 am Pfosten auf der Höhe des Handlaufs und des Mittellaufs anziehen.



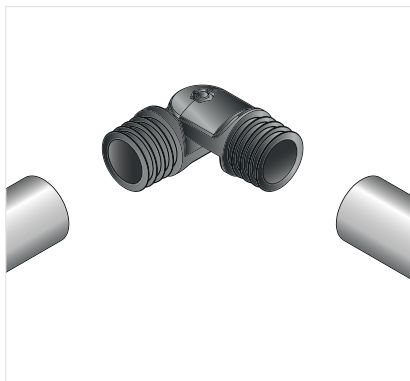
10 - Die Handläufe und die Zwischenläufe der bereits montierten und befestigten Abschnitte mit Schrauben 4,8 x 16 einsetzen.



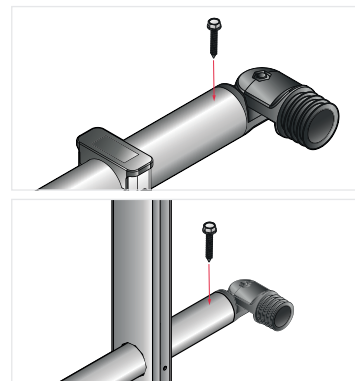
14 - Die Kappen oder die Wandabschlüsselemente an den Handläufen oder Zwischenläufen einstecken.



13 - Den letzten Abschnitt anpassen, indem das überstehende Teil abgeschnitten wird.

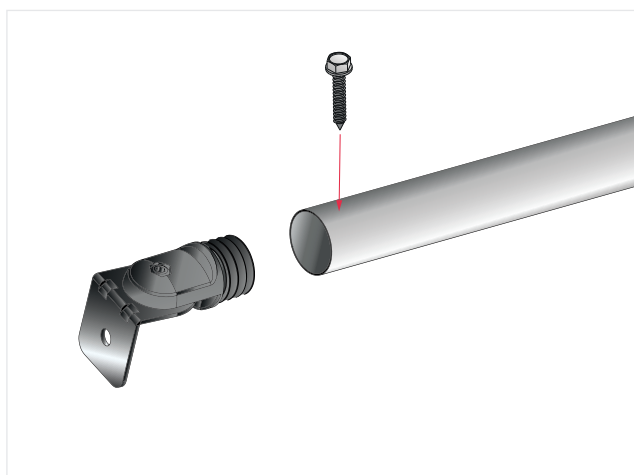


11 - Die Winkelstücke der Handläufe und der Zwischenläufe einsetzen.

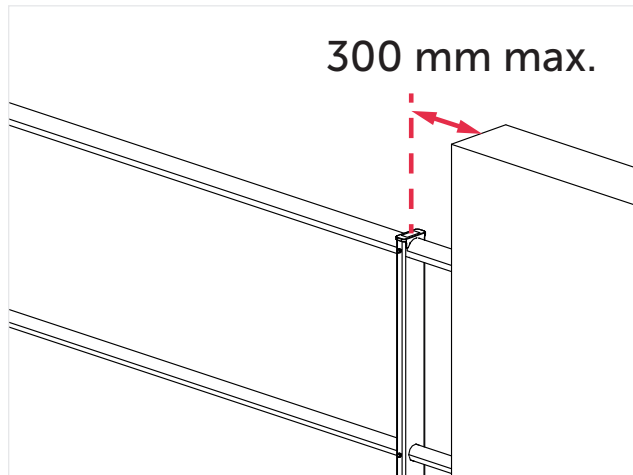


12 - Die Winkelstücke mit selbstbohrenden Schrauben 4,8 x 25 befestigen.

MONTAGE DER WANDABSCHLUSSELEMENTE



1 - Die Winkelstücke mit selbstbohrenden Schrauben 4,8 x 25 befestigen.



2 - Den max. Achsabstand von 300 mm zwischen Pfosten und Wand einhalten.

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INSTALLATION MANUAL

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DEFINITION

The GUARD railing with Z base and Z base for insulated curb is a collective fall protection device. The GUARD railing is the ideal solution for securing roofs. Its design allows for quick and easy installation with recessed brackets at handrails and intermediate rails. The GUARD railing with Z base for insulated curb is available in 4 models: 70, 100, 130 and 160. This can be used when there is overhang on the curb.

STANDARDS

The GUARD Z railing falls within the European standard EN ISO 14122-3 of December 2007 "Safety of machinery - Permanent means of access to machinery - Part 3: Stairs, stepladders and guard-rails" to NF E 85-015 of April 2008 "Industrial installation elements - Permanent means of access".

The GUARD Z railings have successfully passed the static and dynamic tests and trials required by EN ISO 14122-3.

REFERENCE TO STANDARDS

- A railing must be installed when the fall height exceeds 2 meters (check local regulations).
- The height of the railing handrail must be at least 1100 mm above the impact sound surface (check local regulations).
- The clearance between the handrail and the intermediate rail and between the intermediate rail and the toe board must be less than or equal to 500 mm.
- The minimum height of the toe board must be 100 mm. If there is a gap between the toe board and the impact sound surface, it must not exceed 10 mm.
- The distance between two uprights must not exceed 1500 mm. **ATTENTION: A GUARD railing installation that does not respect a maximum distance of 1500 mm between the uprights leads to the non-compliance of the installation.**
- If the handrail is interrupted, the gap between two segments of the handrail must be between 75 mm and 120 mm wide. If there are points of passage where there is a danger of falling, they must be barred by a self-closing gate equipped with a handrail and intermediate rail at a height similar to that of the railing.
- Retractable railing: a PATROL lifeline must be installed before installing the retractable railing. This will also be used during its installation and maintenance.

ASSEMBLY RECOMMENDATIONS

- Minimum height of railing/curb with internal fastening: 150 mm.
- Drilling a minimum of 75 mm from the top edge of the curb.
- Max. spacing between uprights: 1500 mm.
- Adjustable handrail and sleeper angles to be fitted.
- The components of the handrail and the intermediate rails that fit into each other.
- Assembly with HC screws and self-tapping screws supplied.
- Toeboard compulsory in the case of wall fastening and with a curb less than 100 mm.

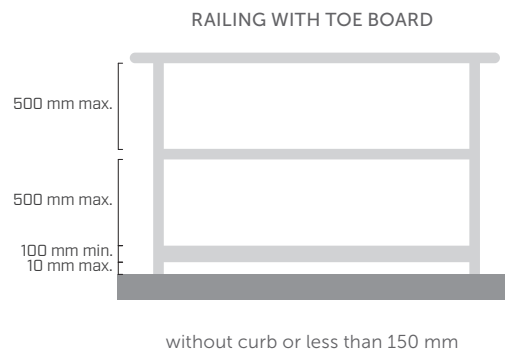
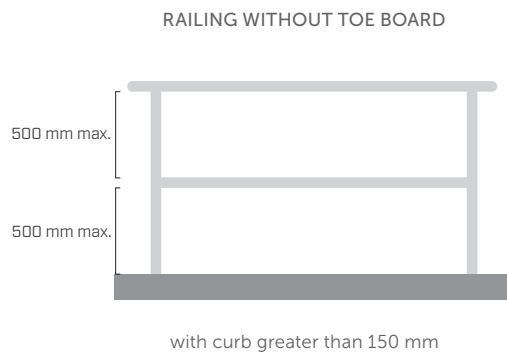
USE - MAINTENANCE

- It is the responsibility of the installer to ensure that the support structure can accommodate the Z base. For example, a concrete curb requires a removal test. For other media, validation is carried out by calculation and/or testing.
- The person carrying out the installation of the GUARD railing must be a qualified worker who complies with the rules of use regarding work at height. He must therefore ensure his own safety before use (use of a temporary lifeline, PPE, platform, etc.).
- Prior to use, the user must visually check the GUARD railing for any anomalies (shock, distortion, etc.).
- The GUARD railing does not require any special maintenance, however a visual check must be carried out at least once a year by a skilled worker.
- If the GUARD railing is improperly installed, damaged or has been used to stop a fall, its use must be immediately discontinued and it must not be used again until a skilled worker has given written permission for its re-use after inspection and testing.
- If the product is resold outside the first country of destination, it is essential for the user's safety that the reseller provides the instruction manual in the language of the country where the product is used. These documents can be provided to you on request by contacting the manufacturer.
- The GUARD railing is a permanent collective protective equipment to be used by professionals on roofs not accessible to the public.
- If installed in a polluted industrial, petrochemical, naval, or seashore environment, the GUARD railing will necessarily have to undergo a suitable surface treatment such as powder coating, anodizing, etc.
- If a layout has been provided, please refer to this document during installation.
- If there is no layout, a distance between each upright of 1500 mm and the position of the uprights in relation to the corners of the roofs must be observed.

STORAGE

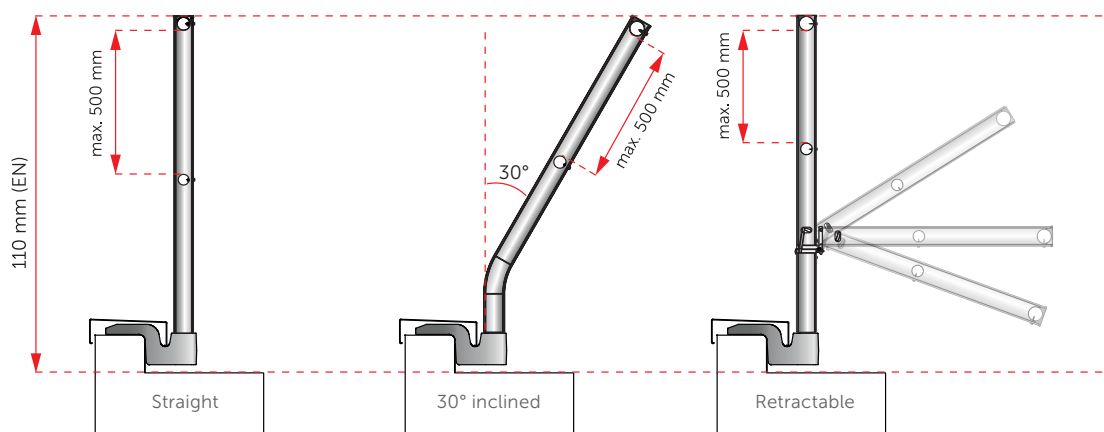
The raw aluminium components are packed in contact with each other. The action of rain, on the closed package, will facilitate oxidation of these components. In this case, surface stains may appear. These do not call into question the quality of the aluminium but can damage the aesthetic appearance of the railing. We recommend that you unpack the package and keep the components separate from each other, (no contact between them), or store the packages still closed in a dry place.

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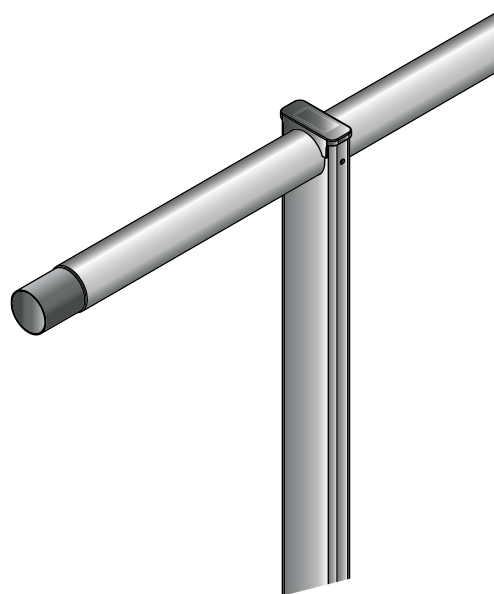
DIMENSIONS

Dimensions of the uprights:



OPTIMISED ASSEMBLY

- New angle brackets (plastic and ALU) for round handrail;
- New cap for round handrail;
- Uprights: slot in the upper part to receive the handrail + holes to facilitate the assembly of the handrail and the intermediate rail.



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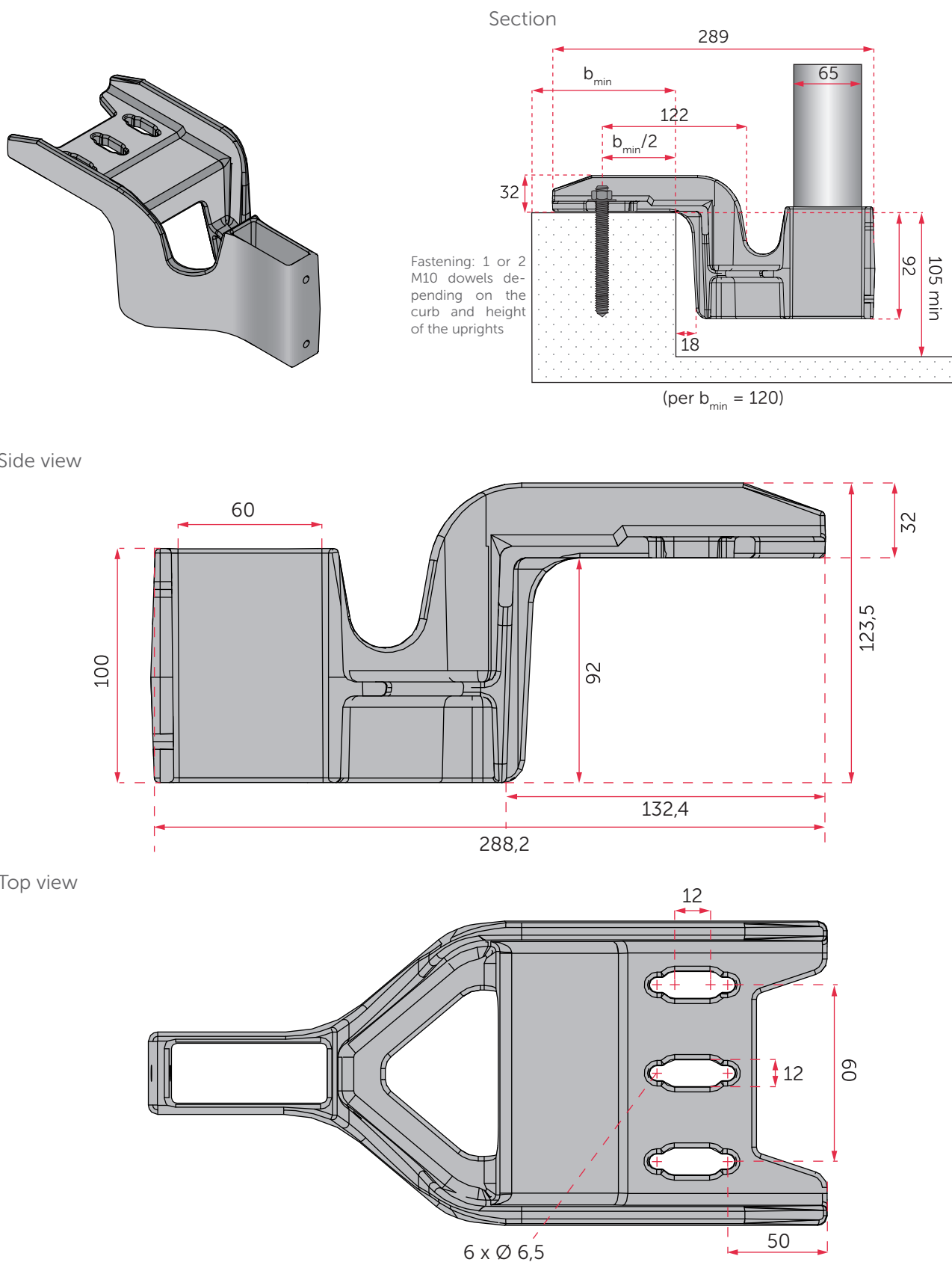
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RAILING: FASTENING UNDER COVERING (STANDARD BASE Z)

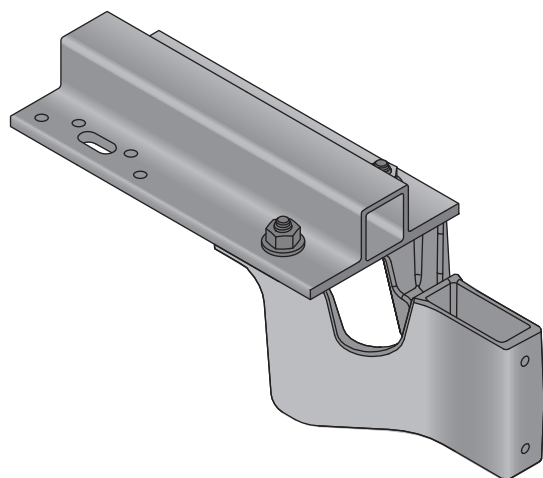
HYBRID ALUMINIUM Z BASE FOR CURB WITHOUT INSULATION



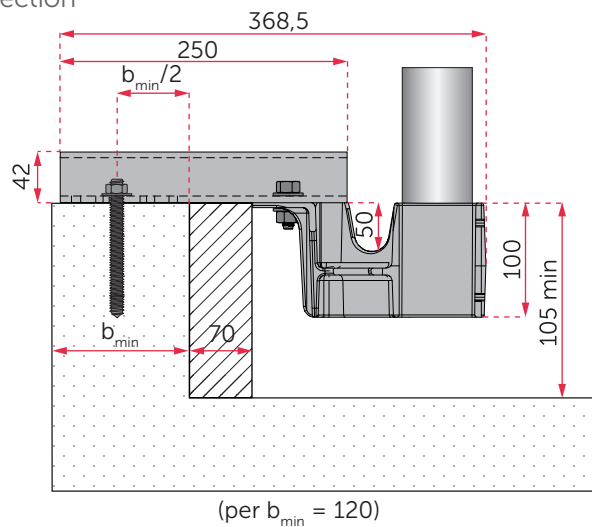
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RAILING: FASTENING UNDER COVERING (STANDARD BASE Z)

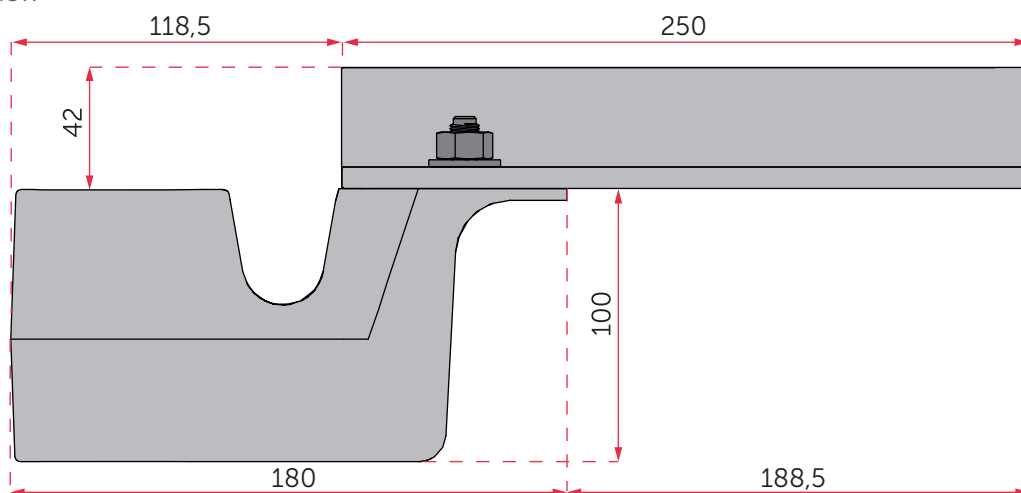
HYBRID ALUMINIUM BASE Z FOR CURB WITH INSULATION UP TO 70 mm



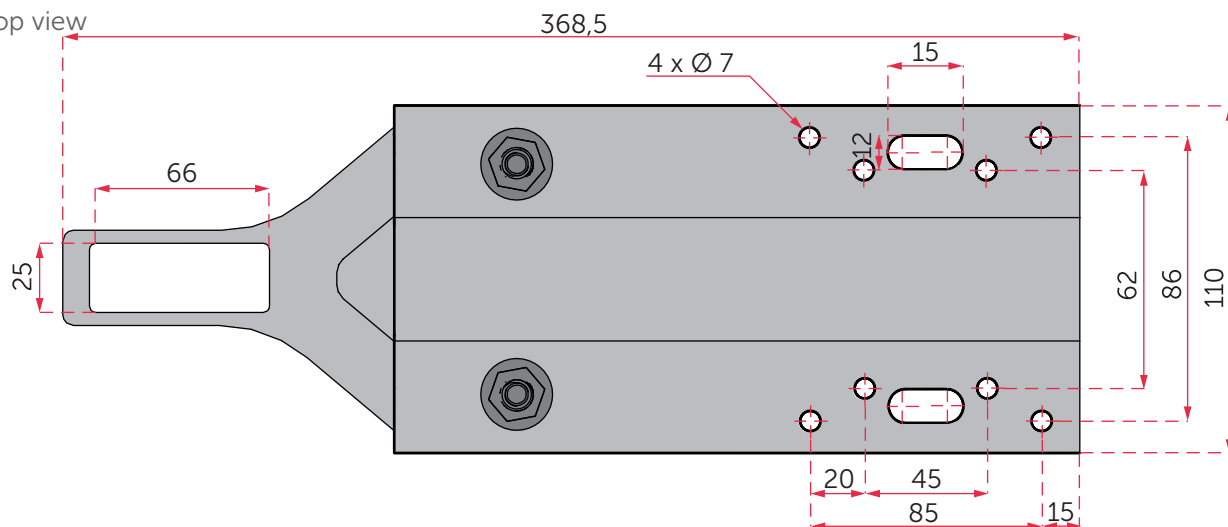
Section



Side view



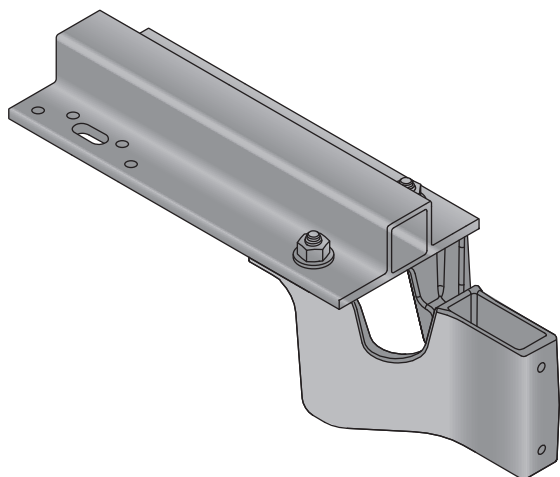
Top view



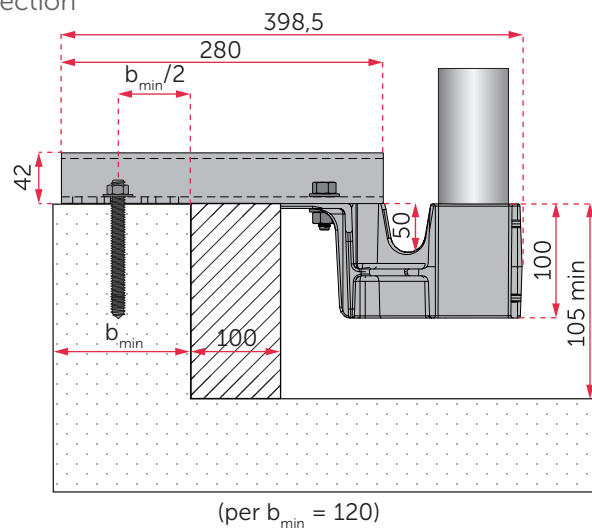
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RAILING: FASTENING UNDER COVERING (STANDARD BASE Z)

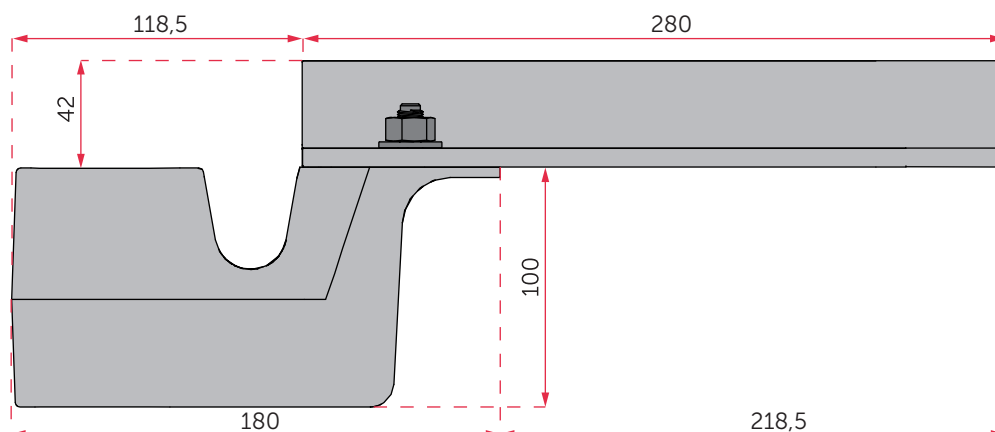
HYBRID ALUMINIUM BASE Z FOR CURB WITH INSULATION UP TO 100 mm



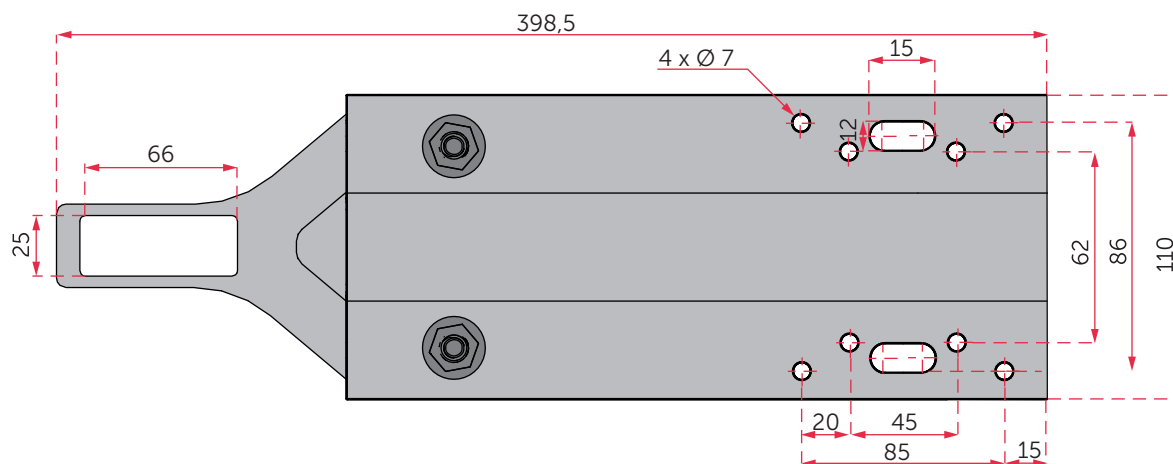
Section



Side view



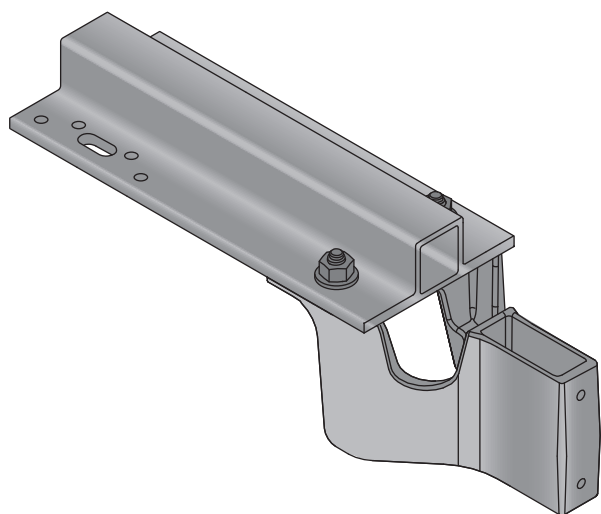
Top view



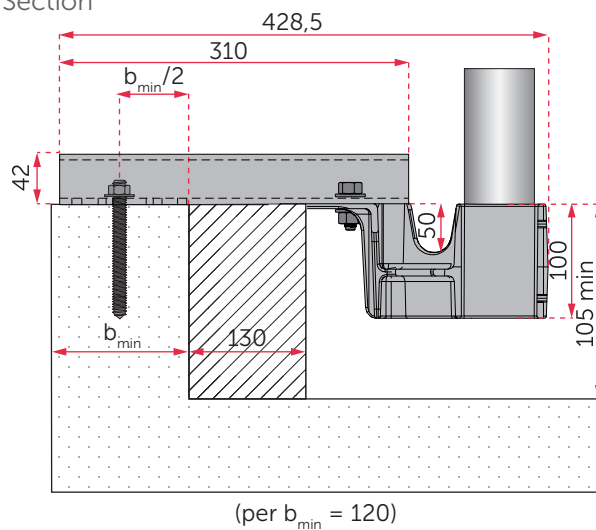
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RAILING: FASTENING UNDER COVERING (STANDARD BASE Z)

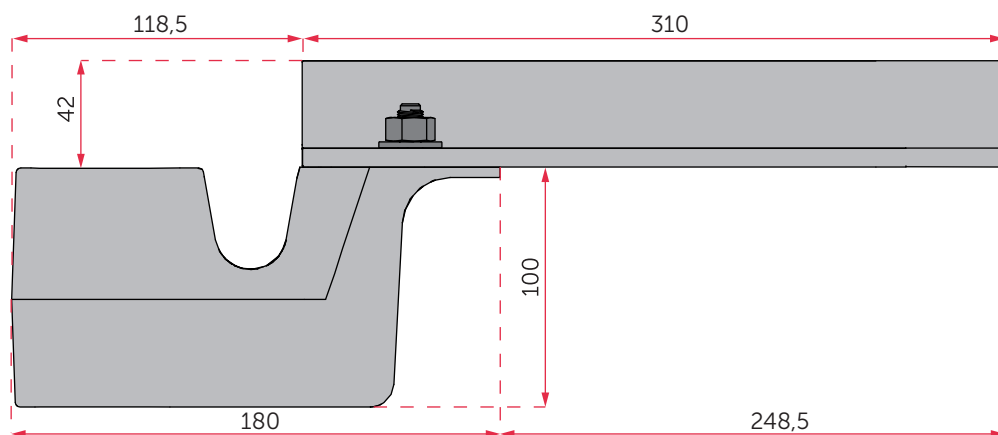
HYBRID ALUMINIUM BASE Z FOR CURB WITH INSULATION UP TO 130 mm



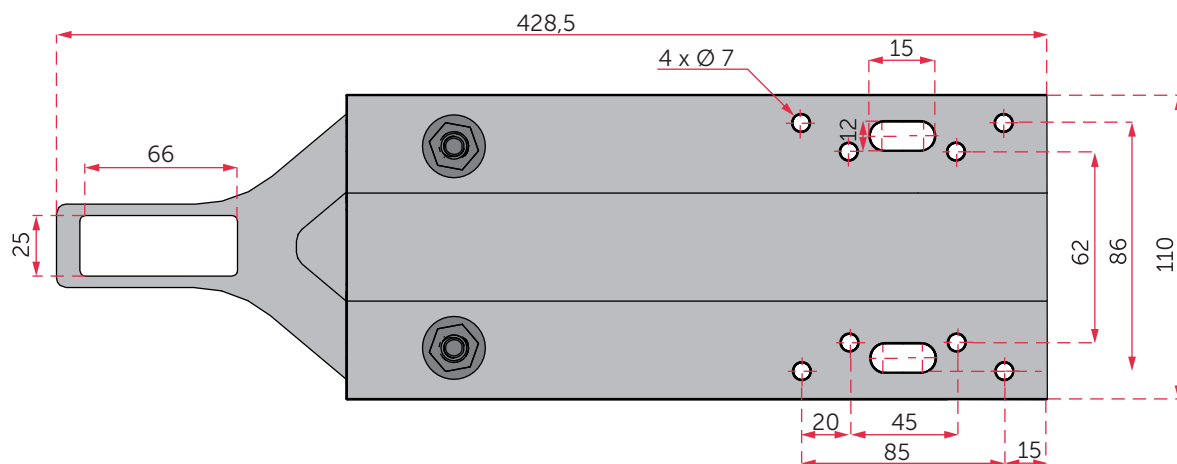
Section



Side view



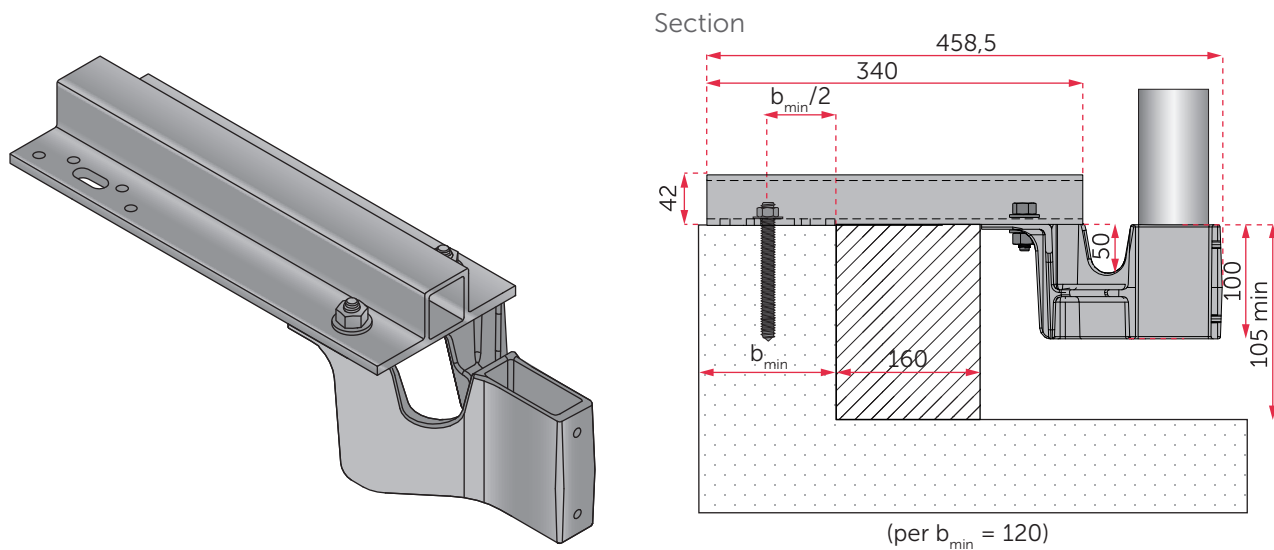
Top view



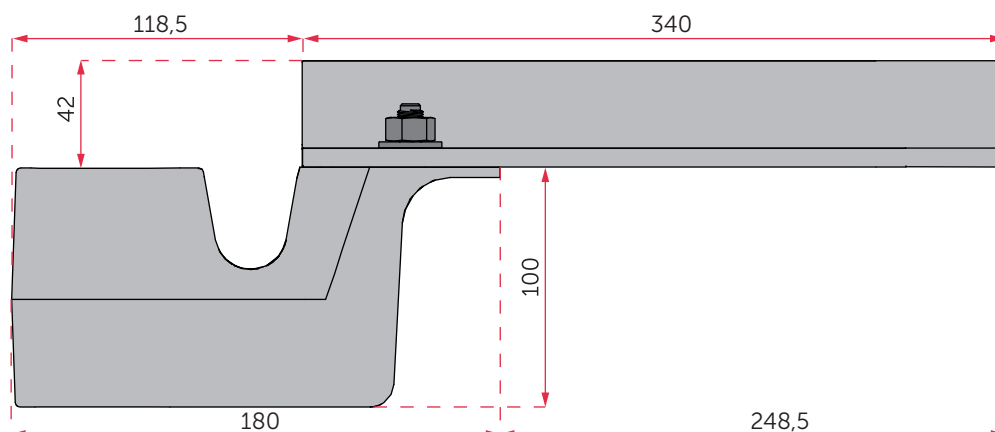
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RAILING: FASTENING UNDER COVERING (STANDARD BASE Z)

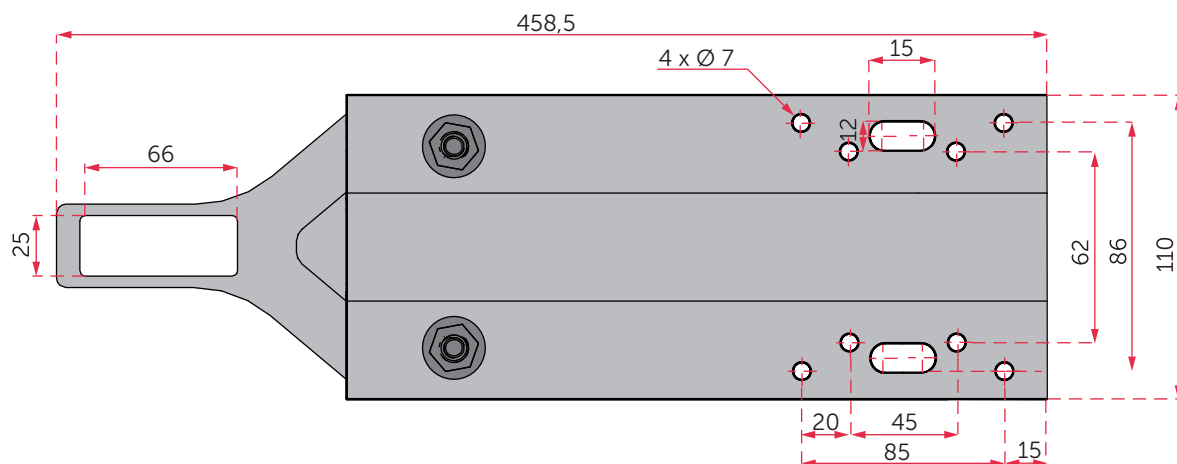
HYBRID ALUMINIUM BASE Z FOR CURB WITH INSULATION UP TO 160 mm



Side view



Top view



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FASTENING

It is imperative to observe the edge distances recommended by the suppliers of the fasteners.

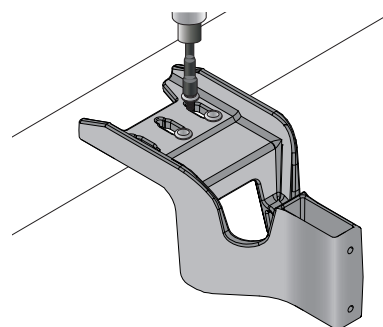
Fastening possible on two types of supports:

- On concrete with 1 or 2 dowels
- On concrete with insulation: 3 models, up to 160 mm insulation

GUARD Z		Upright height 1180 mm load on fastening system 698 dN		Upright height 1010 mm load on fastening system 526 dN		Upright height 760 mm load on fastening system 378 dN	
		b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]
UNCRACKED CONCRETE 	VIN-FIX 5.8 M10 rod 	120	110	100	175	-	-
	SKR CE 10x80 Zinc-plated steel 	150	68	120	70	100	70
	AB1 A4 10x92 	150	68	150	68	150	68
TIMBER 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

FASTENING ON METAL STRUCTURE WITH 6 SELF-DRILLING SCREWS

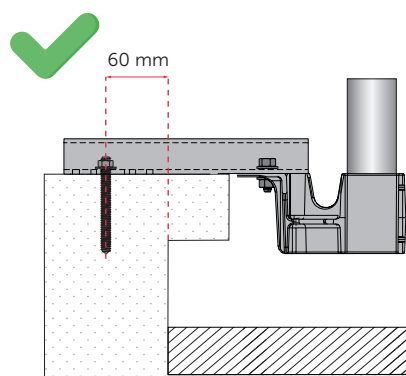
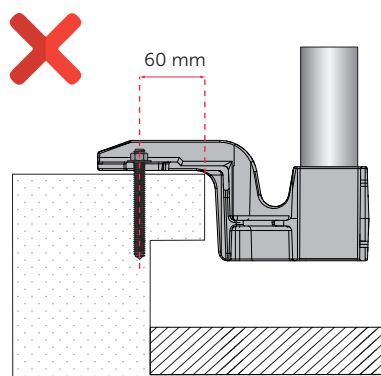
To determine the effort and feasibility based on the support and validation of the screw supplier, request a preliminary study by the engineering and design department.



FASTENING ON CONCRETE CURB WITH PROTRUSION

ATTENTION: It is imperative to observe a distance of 60 mm from the body of the curb and not from its protrusion.

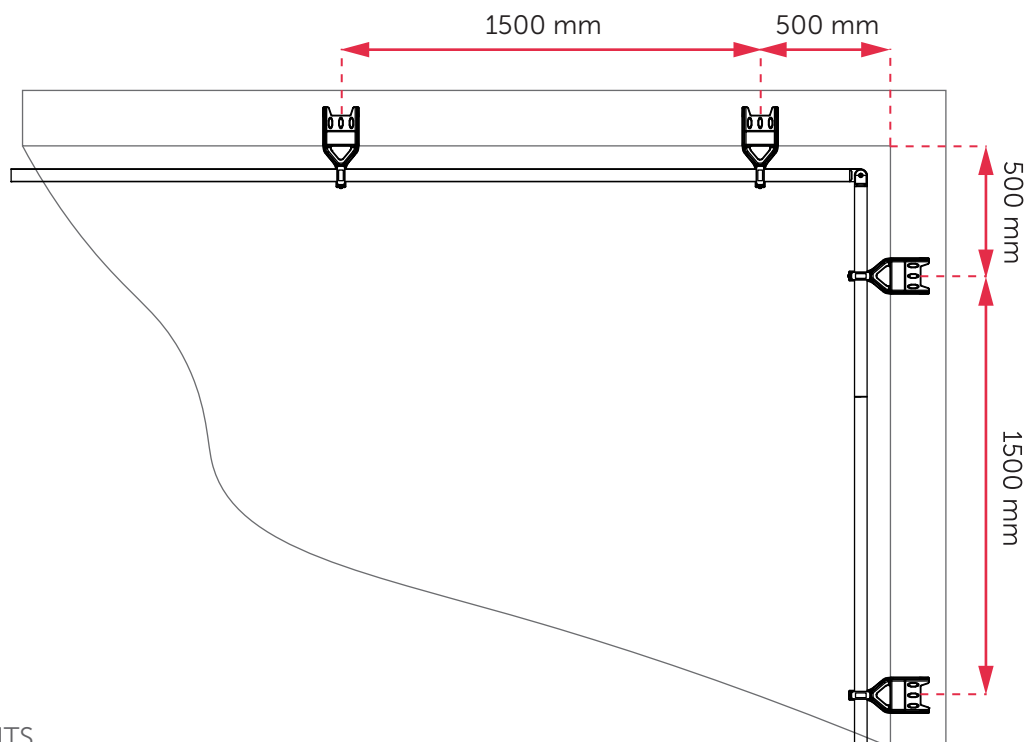
The Base RBGBASEZ is not suitable for this configuration, it is necessary to use the base RBGBASEZ70.



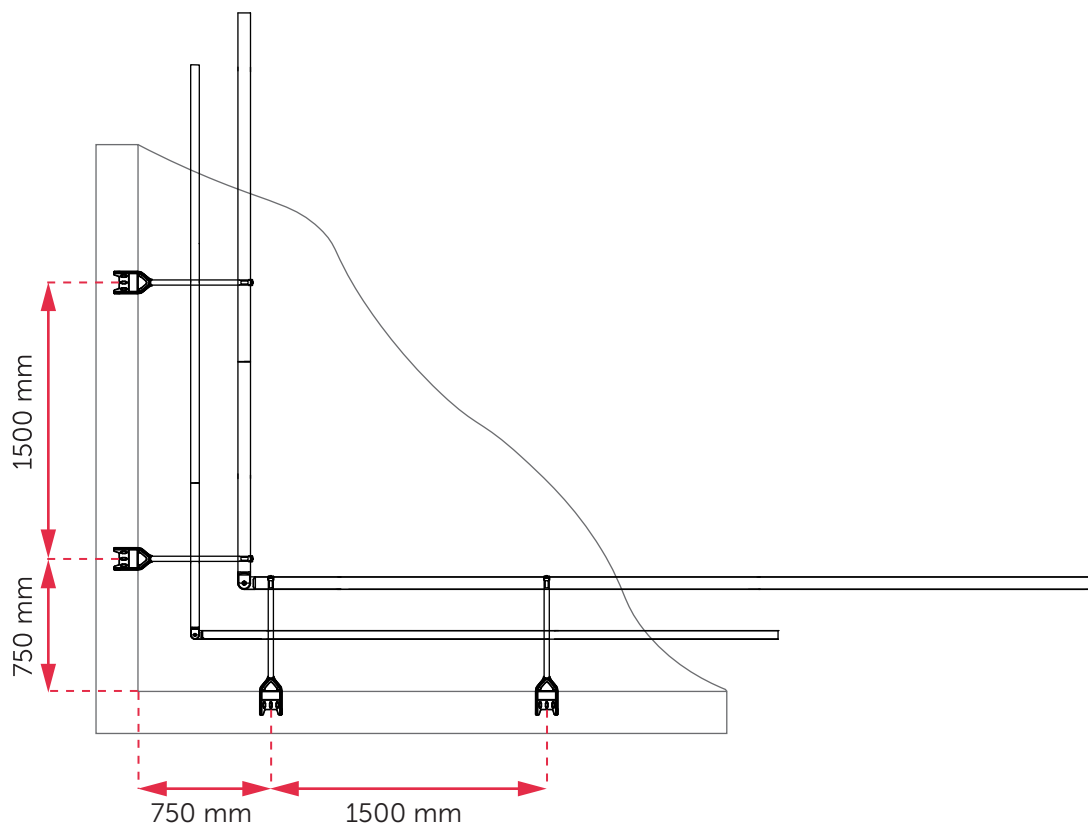
■ INSTALLATION

RAILING INSTALLATION UNDER COVERING WITH BASE Z

STRAIGHT UPRIGHTS



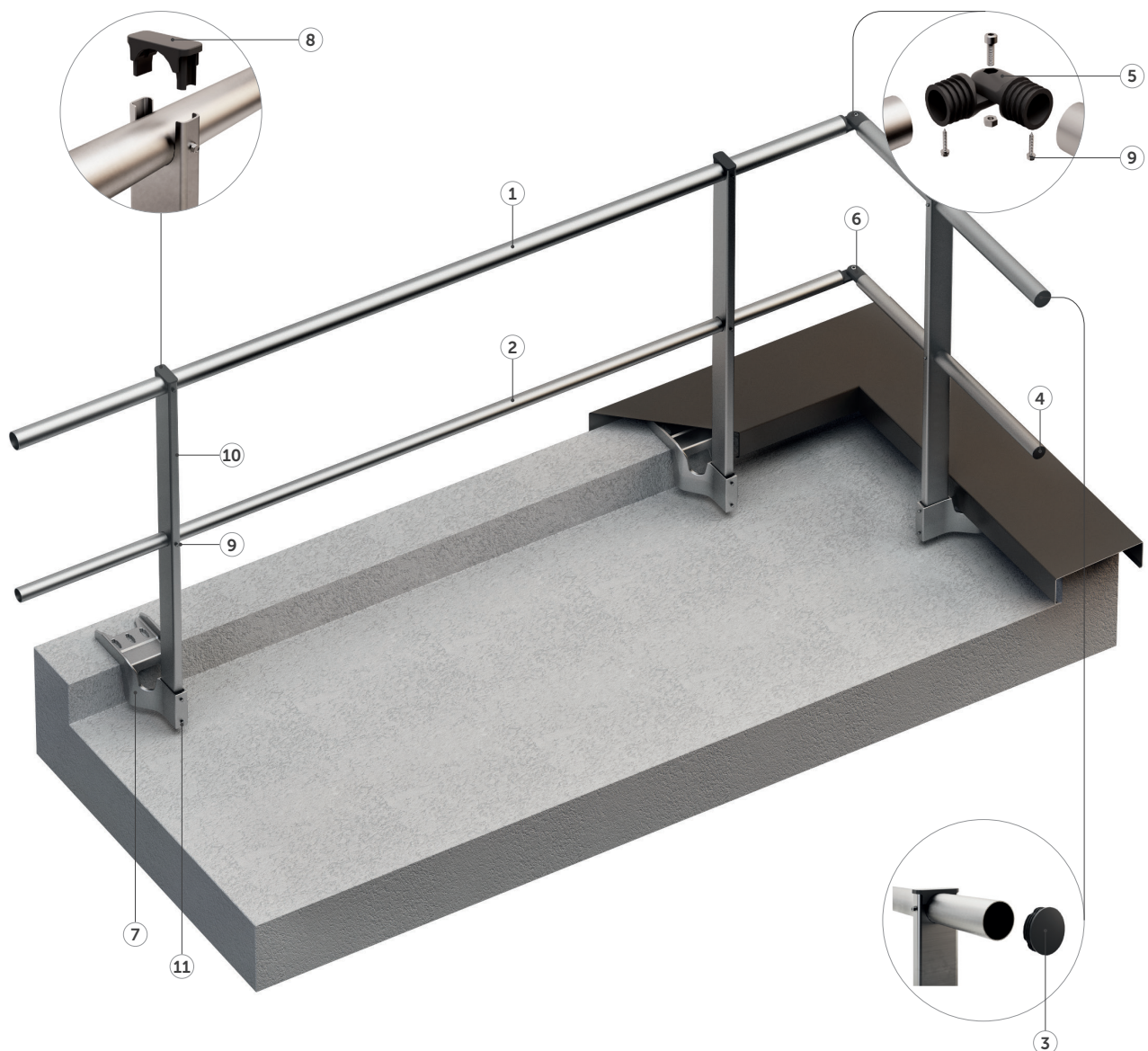
INCLINED UPRIGHTS



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GUARD Z

A Z FASTENING RAILING



CODE	description
1 RBGBAR45	Ø45 mm handrail with flush-mounted ring nuts L = 3000 mm
2 RBGBAR35	Ø35 intermediate rail with flush-mounted ring nuts L = 3000 mm
3 RBGCAP45	cap for handrail Ø45 mm
4 RBGCAP35	cap for intermediate rail Ø35 mm
5 RBGCOR45	angle bracket for handrail Ø45 mm
6 RBGCOR35	angle bracket for intermediate rail Ø35 mm
5-6 RBGCORAL	aluminium angle bracket for handrail and intermediate rail (alternative to RBGCOR45/ RBGCOR35)
7 RBGBASEZ	standard aluminium base Z for perimeter wall without insulation GUARD Z with grub screws included
8 RBGCAP	upright cap 68 x 28 mm groove Ø45 mm
9 RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm

CODE	description
RBGSUP110	straight upright H = 1105 mm groove Ø45 mm
RBGSUP118	straight upright H = 1182 mm groove Ø45 mm
10 RBGSUP115I	inclined upright H = 1157 mm groove Ø45 mm
RBGSUP760WH NEW	straight upright height 760 mm without intermediate rail; (perimeter curb height min. 600 mm)

CODE	description
11 RBGSCR810	grub screw M8 x 10 mm (spare part)

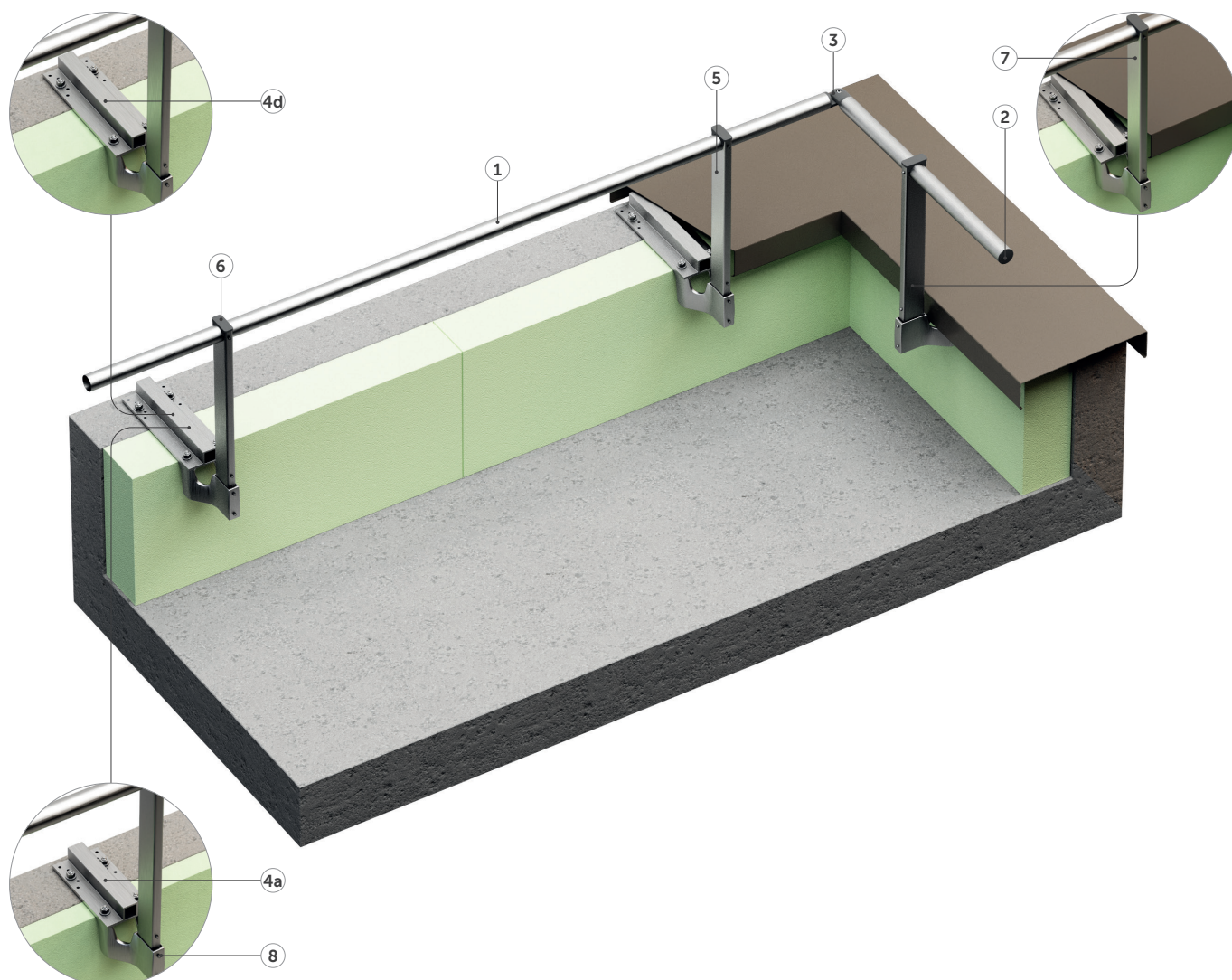
For wall fastening:

RBGWALL45	end element for handrail Ø45 mm
RBGWALL35	end element for round intermediate rail Ø35 mm
RBGWALLAL	aluminium end element for handrail and intermediate rail

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GUARD Z

Z FASTENING RAILING WITH INSULATION LAYER



CODE	description
1 RBGBAR45	Ø45 mm handrail with flush-mounted ring nuts L = 3000 mm
2 RBGCAP45	cap for handrail Ø45 mm
3 RBGCOR45	angle bracket for handrail Ø45 mm
a. RBGBASEZ70 NEW	GUARD Z base with 70 mm thick insulation
b. RBGBASEZ100 NEW	GUARD Z base with 100 mm thick insulation
c. RBGBASEZ130 NEW	GUARD Z base with 130 mm thick insulation
d. RBGBASEZ160 NEW	GUARD Z base with 160 mm thick insulation
RBGSUP760WH NEW	straight upright height 760 mm without intermediate rail; (perimeter curb height min. 600 mm)
5 RBGSUP110	straight upright H = 1105 mm groove Ø45 mm
RBGSUP118	straight upright H = 1182 mm groove Ø45 mm
RBGSUP115I	inclined upright H = 1157 mm groove Ø45 mm

CODE	description
6 RBGCAP	upright cap 68 x 28 mm groove Ø45 mm
7 RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm
CODE	description
8 RBGSCR810	grub screw M8 x 10 mm (spare part)

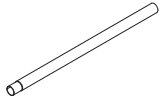
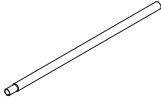
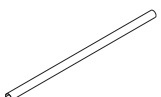
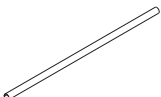
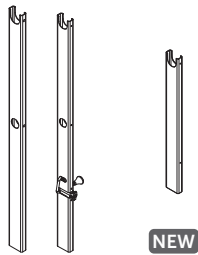
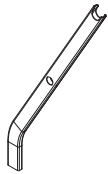
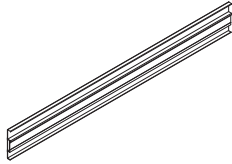
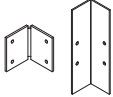
For wall fastening:

RBGWALL45	end element for handrail Ø45 mm
RBGWALLAL	aluminium end element for handrail and intermediate rail

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GUARD | components

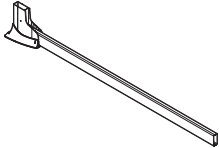
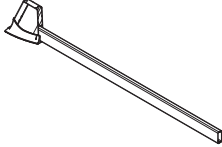
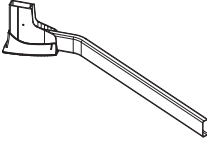
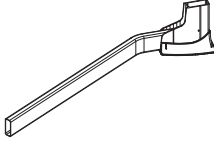
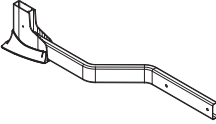
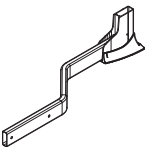
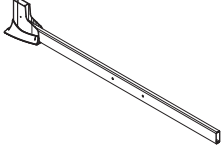
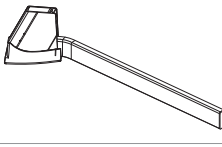
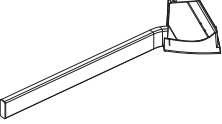
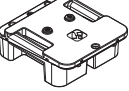
CODES AND DIMENSIONS

GROUP	CODE	description	pcs	
HANDRAILS AND INTERMEDIATE RAILS	RBGBAR45	Ø45 mm handrail with flush-mounted ring nuts L = 3000 mm	1	
	RBGBAR35	Ø35 intermediate rail with flush-mounted ring nuts L = 3000 mm	1	
	RBGBAR45F	handrail without flush-mounted ring nuts Ø45 mm L = 3000 mm	1	
	RBGBAR35F	intermediate rail without flush-mounted ring nuts Ø35 mm L = 3000 mm	1	
	RBGCAP	upright cap 68 x 28 mm groove Ø45 mm	1	
STRUTS	RBGSUP100	straight upright H = 1028 mm groove Ø45 mm	1	
	RBGSUP110	straight upright H = 1105 mm groove Ø45 mm	1	
	RBGSUP118	straight upright H = 1182 mm groove Ø45 mm	1	
	RBGSUP110F	pull-down upright H = 1105 mm groove Ø45 mm	1	
	RBGSUP100F	pull-down upright H = 1010 mm groove Ø45 mm	1	
	RBGSUP130	straight upright H = 1300 mm groove Ø45 mm	1	
	RBGSUP760WH NEW	straight strut 760 mm high without intermediate rail	1	
	RBGSUP115I	inclined upright H = 1157 mm groove Ø45 mm	1	
TOE BOARD AND ACCESSORIES	RBGTB	toe board 3000 x 150 x 19 mm	1	
	RBGTBJUN	straight connector of toe board H = 150 mm	1	
	RBGTBCOR	angle bracket for toe board H = 150 mm	1	
	RBGTBCAP	cap for toe board H = 150 mm	1	
	RBGTBW	support for toe board H = 150 mm for GUARD W	1	
	RBGTBH	support for toe board H = 150 mm	1	

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GUARD | components

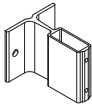
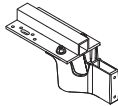
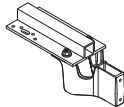
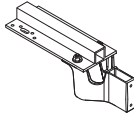
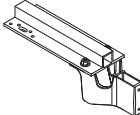
CODES AND DIMENSIONS

GROUP	CODE	description	pcs	
STANDARD BASES	RBGBASEW	base for self-supporting GUARD W straight with support leg	1	
	RBGBASEWI	base for self-supporting GUARD W inclined with support leg	1	
	RBGBASEWFCR	support leg curved at right at 25° per angle	1	
	RBGBASEWFCL	support leg curved at left at 25° per angle	1	
	RBGBASEWFR	support leg with curve at right for folding railing	1	
	RBGBASEWFL	support leg with curve at left for folding railing	1	
	RBGBASEWF	base for self-supporting GUARD W with holes	1	
	RBGBASEWIFCR NEW	support leg for 25° right-hand bend inclined strut	1	
	RBGBASEWIFCL NEW	support leg for 25° left-hand bend inclined strut	1	
	RBGBASEWE	locking wedge for GUARD W (spare part)	1	
	RBGWEIGHT	plastic counterweight 12,5 kg for GUARD W	3	
	RBGBASEV	bottom plate for wall fastening GUARD V	1	

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GUARD | components

CODES AND DIMENSIONS

GROUP	CODE	description	pcs	
STANDARD BASES	RBGBASEVD	bottom plate for fastening on projecting wall GUARD VD	1	
	RBGDIST	spacer piece GUARD V-VD + 35 mm	1	
	RBGBASEH	bottom plate horizontal fastening painted grey GUARD H	1	
	RBGBASEZ	standard aluminium base Z for perimeter wall without insulation GUARD Z	1	
	RBGBASEZ70 NEW	GUARD Z base with 70 mm thick insulation	1	
	RBGBASEZ100 NEW	GUARD Z base with 100 mm thick insulation	1	
	RBGBASEZ130 NEW	GUARD Z base with 130 mm thick insulation	1	
	RBGBASEZ160 NEW	GUARD Z base with 160 mm thick insulation	1	

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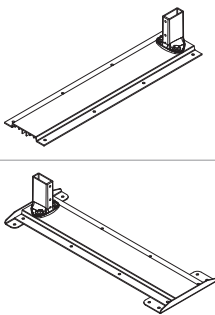
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GUARD | components

CODES AND DIMENSIONS

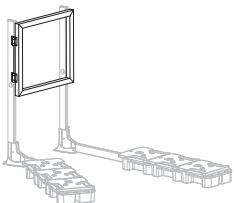
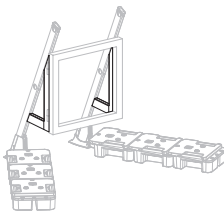
GROUP	CODE	description	pcs	
BASES FOR FASTENING ON TRAPEZOIDAL METAL ROOF	RBGBASE250PA	plate for fastening to trapezoidal sheet metal, pitch 250 mm, GUARD parallel to trapezoidal sheet metal (excluding screws)	1	
	RBGBASE333PA	plate for fastening to trapezoidal sheet metal, pitch 333 mm, GUARD parallel to trapezoidal sheet metal (excluding screws)	1	
	RBGBASE250PE	plate for fastening to trapezoidal sheet metal, pitch 250 mm, GUARD perpendicular to the frets (excluding screws)	1	
	RBGBASE333PE	plate for fastening to trapezoidal sheet metal, pitch 333 mm, GUARD perpendicular to trapezoidal sheet metal (excluding screws)	1	
ACCESSORIES	RBGCAP45	cap for handrail Ø45 mm	1	
	RBGCAP35	cap for intermediate rail Ø35 mm	1	
	RBGCOR45	angle bracket for handrail Ø45 mm	1	
	RBGCOR35	angle bracket for intermediate rail Ø35 mm	1	
	RBGWALL45	end element for handrail Ø45 mm	1	
	RBGWALL35	end element for intermediate rail Ø35 mm	1	
	RBGCORAL	aluminium angle bracket for handrail	1	
	RBGWALLAL	aluminium end element for handrail	1	
	RBGBASEHKIT	waterproofing kit for base GUARD H	1	
	RBGWEDGE	plastic wedge for shimming	1	
FASTENING SCREWS	RBGSCR4816	stainless steel self-drilling screw 4,8 x 16 mm	25	
	RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm	25	
	RBGSCR4832	stainless steel self-drilling screw 4,8 x 32 mm	25	
	RBGSCR4850	stainless steel self-drilling screw 4,8 x 50 mm	25	
	RBGSCR627	self-drilling screw for stainless steel sheet 6 x 27 mm	25	
	RBGSCR810	grub screw M8 x 10 (spare part)	10	
	RBGSCRWAS	sealing washer	25	
	RBGBASEWFKIT NEW	kit for joining RBGBASEWF and RBGBASEWFR / RBGBASEWFL	-	

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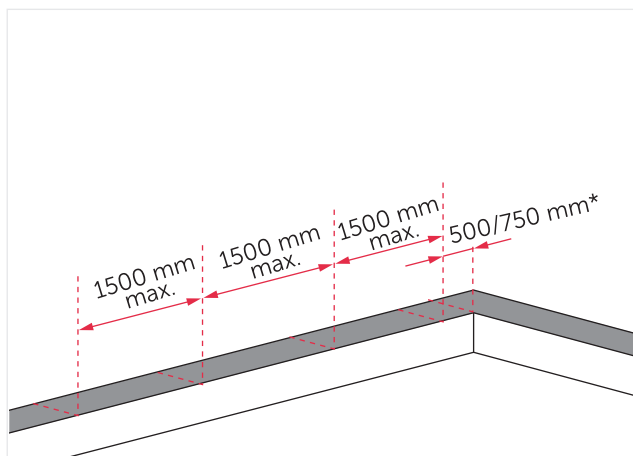
CODES AND DIMENSIONS

GROUP	CODE	description	pcs	
SAFETY GATES KIT	RBGGATE600	safety door 500 mm height with hinges assembled L = 600 mm	1	
	RBGGATE1100	safety door 500 mm height with hinges width L = 1100 mm	1	
	RBGGATEWISUP NEW	support for inclined strut gate	1	
MANUALS	RBGUARDHMAN	manual for GUARD H	1	
	RBGUARDVMAN	manual for GUARD V	1	
	RBGUARDMMAN	manual for GUARD M	1	
	RBGUARDZMAN	manual for GUARD Z	1	
	RBGUARDWMAN	manual for GUARD W	1	

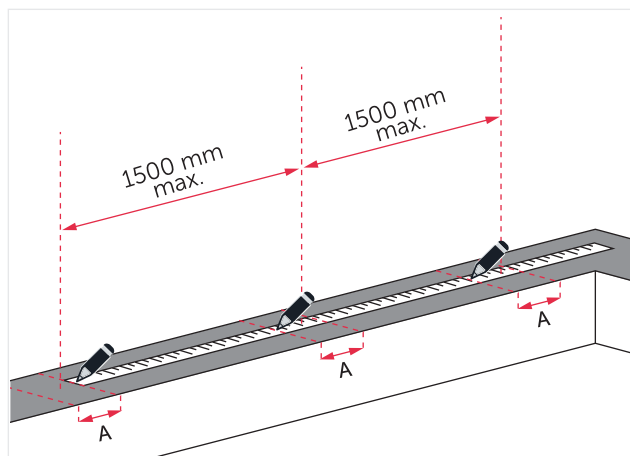
INSTALLATION

ASSEMBLY OF RAILING UNDER COVER WITH RGBBASEZ BASE

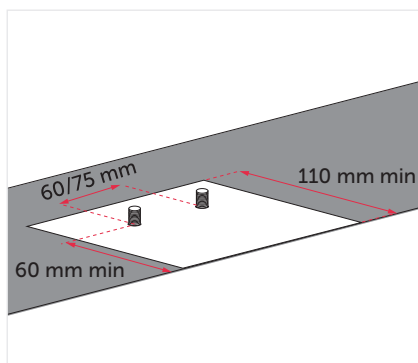
The installation of the railing under cover (RGBBASEZ Base) requires a minimum of two people. IT IS best to start the installation in a corner.



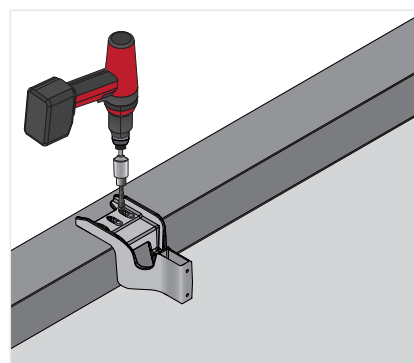
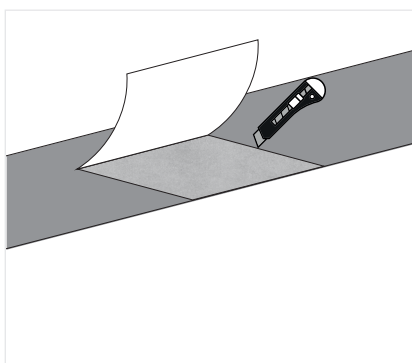
1 - Draw a mark every 1500 mm maximum. The dimension between the upright and the edge of the curb must be 500 mm for straight railing and 750 mm for inclined railing.



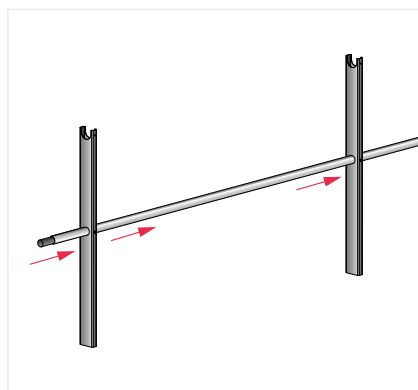
2 - For the arrangement of the bases, use a guiding line to make the spacing markings A = 60 mm for the RGBBASEZ base, A = 70 mm for RGBBASEZ70 bases, A = 100 mm for RGBBASE100, A = 130 mm for RGBBASEZ130 and A = 160 mm for RGBBASEZ160, or according to the arrangement plan.



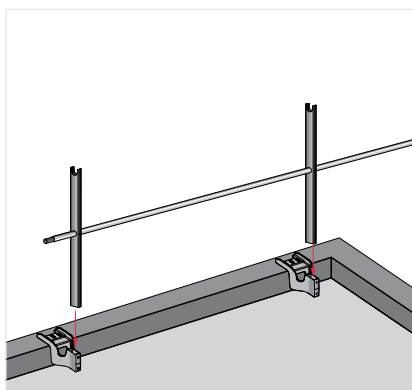
3 - Z bases must be fastened directly onto the curb. If the waterproofing covers it, cut at the location of each Z base.



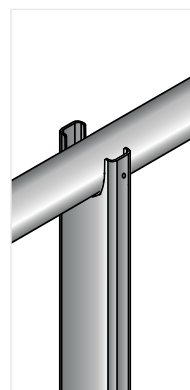
4 - Fasten the base on the curb according to the support (see page 9)



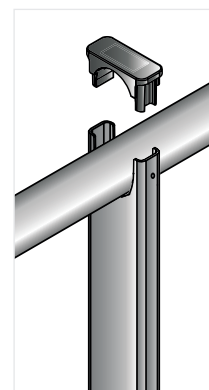
5 - Insert an intermediate rail into 2 uprights.



6 - Insert everything into the bases.

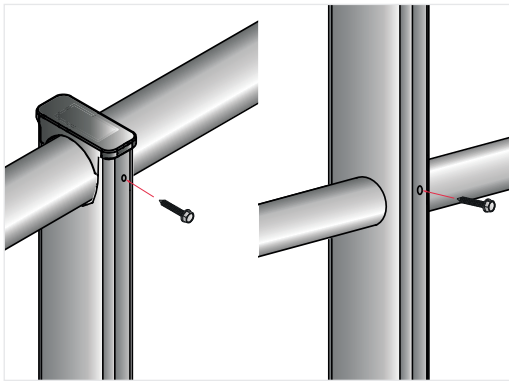


7 - Position the handrail on the uprights.

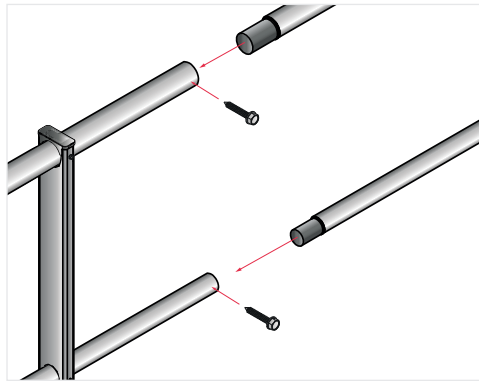


8 - Close the upper part of the upright.

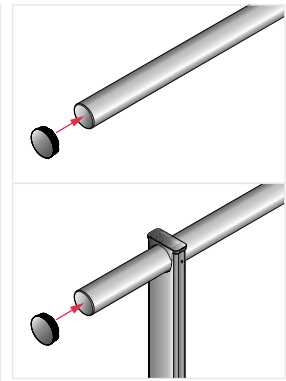
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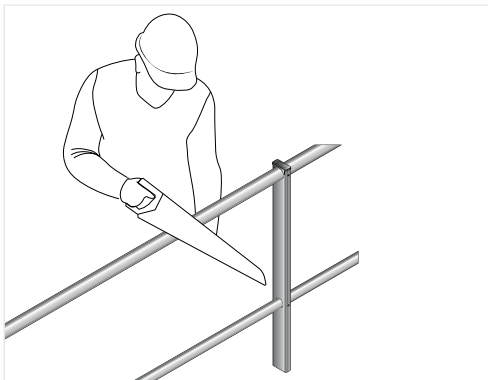
9 - Screw the 4,8 x 25 self-drilling screws on the upright at the level of the handrail and the intermediate rail.



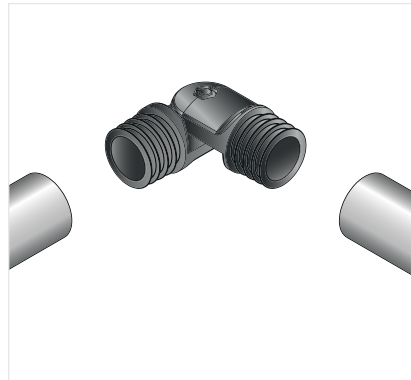
10 - Insert the handrails and intermediate rails of the assembled sections and fasten with 4,8 x 16 screws.



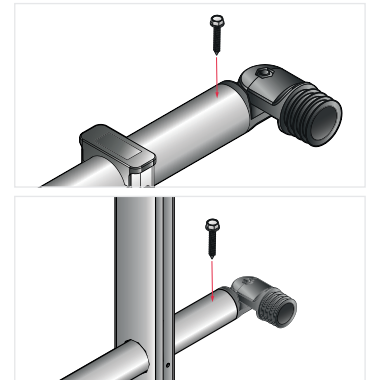
14 - Insert the caps or wall terminations into the handrails or intermediate rails.



13 - Adapt the last section by cutting off the excess part.

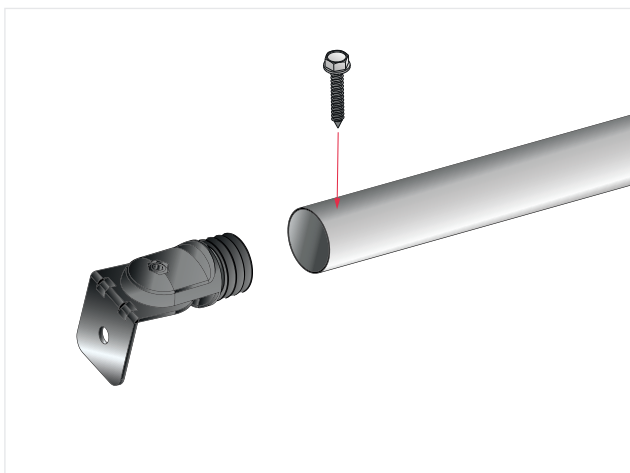


11 - Insert the angle brackets of the handrails and intermediate rails.

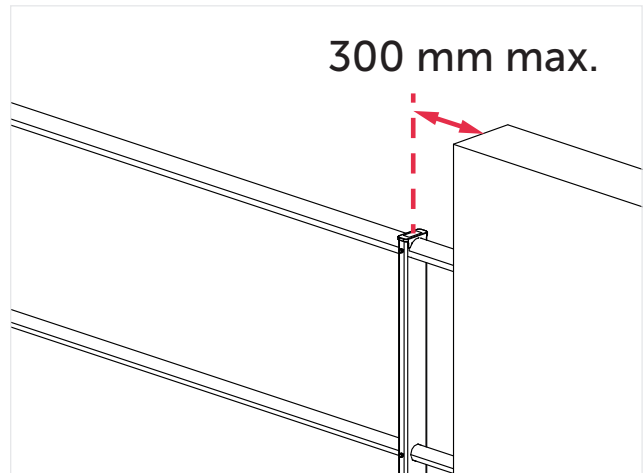


12 - Fasten the angle brackets with 4,8 x 25 self-drilling screws.

ASSEMBLY OF WALL FASTENERS



1 - Fasten the angle brackets with 4,8 x 25 self-drilling screws.



2 - Observe the maximum spacing of 300 mm between the upright and the wall.

MANUAL DE INSTALACIÓN

DEFINICIÓN

La baranda GUARD con base en Z y base en Z para murete perimetral aislado es un equipo de protección colectiva anticaída. La baranda GUARD es la solución ideal para poner en seguridad las cubiertas. Su diseño permite una aplicación fácil y rápida gracias a las virolas empotrables en los pasamanos y las barras intermedias. La baranda GUARD con base en Z para murete perimetral aislado está disponible en 4 modelos: 70, 100, 130 y 160. Este se puede utilizar cuando el murete perimetral dispone de saliente.

NORMATIVAS

La baranda GUARD Z entra en el ámbito de aplicación de la norma europea EN ISO 14122-3 de marzo 2007, «Seguridad de las máquinas. Medios de acceso permanentes a máquinas. Parte 3: Escaleras, escalas de escalones y guardacuerpos», y de la norma NF E85-015 de abril de 2008 «Elementos de instalación industriales – Medios de acceso permanentes».

Las barandas GUARD Z han superado con éxito los controles y las pruebas estáticas y dinámicas requeridas por las normativas EN ISO 14122-3.

REFERENCIA A NORMAS

- Las barandas se deben instalar siempre que la altura de caída sea superior a 2 metros (comprobar la normativa local).
- El pasamanos de la baranda debe quedar a una altura de al menos 1100 mm de la superficie de pisoteo (comprobar la normativa local).
- Entre el pasamanos y la barra intermedia y entre esta y el rodapié debe haber una distancia menor o igual a 500 mm.
- El rodapié debe tener una altura mínima de 100 mm. Si el rodapié no queda a ras de la superficie de pisoteo, la distancia máxima permitida entre ambos es de 10 mm.
- La distancia entre dos montantes no debe ser superior a 1500 mm. **ATENCIÓN: si al montar la baranda GUARD se supera la distancia máxima permitida entre los montantes, igual a 1500 mm, la instalación se considerará no conforme.**
- Si el pasamanos se interrumpe, la distancia entre los dos tramos del pasamanos debe estar comprendida entre 75 y 120 mm. Si hay puntos de paso con peligro de caída, se deben cerrar con una cancela de cierre automático dotada de pasamanos y barra intermedia a una altura similar a la de la baranda.
- Baranda abatible: antes de instalar una baranda abatible hay que instalar una línea de vida PATROL. Esta también se utilizará durante la instalación y el mantenimiento.

CONSEJOS DE MONTAJE

- Altura mínima de la baranda/cadenas con fijación interna: 150 mm.
- Perforación a un mínimo de 75 mm del borde superior de la cadena.
- Intereje máx. entre montantes: 1500 mm.
- Ángulo de pasamanos y barras ajustables para que se ensamblen.
- Los componentes del pasamanos y de las barras intermedias se acoplan entre sí.
- Montaje con tornillos HC y tornillos autorroscantes suministrados.

trados.

- El rodapié es obligatorio en caso de fijación a pared y con murete perimetral inferior a 100 mm.

USO - MANTENIMIENTO

- Es responsabilidad del instalador asegurarse de que la estructura de soporte sea adecuada para la base en Z. Por ejemplo, para un murete perimetral de hormigón se requiere una prueba de extracción. Para otros soportes, la validación se realiza mediante cálculo y/o pruebas.
- La persona que instale la baranda tiene que ser un operario cualificado y debe respetar las normas de uso sobre los trabajos en altura. Por lo tanto, antes del uso, debe garantizar su propia seguridad (uso de una línea de vida temporal, EPI, plataforma, etc.).
- Antes del uso, el usuario debe realizar un control visual de la baranda GUARD para asegurarse de que no presente ninguna anomalía (golpes, deformaciones, etc.).
- La baranda GUARD no requiere mantenimiento especial; sin embargo, es aconsejable que un operario cualificado realice una inspección visual al menos una vez al año.
- Si la baranda GUARD no está bien instalada, está dañada o se ha utilizado para detener una caída, se debe dejar de usar de inmediato y no se puede volver a utilizar hasta que un operario cualificado la haya examinado y controlado y haya autorizado su uso por escrito.
- Si el producto se revende fuera del primer país de destino, para garantizar la seguridad del usuario es esencial que el distribuidor suministre las instrucciones de uso en el idioma del país donde vaya destinado el producto. Si se solicita, estos documentos los puede proporcionar el fabricante.
- La baranda GUARD es un equipo de protección colectiva permanente que debe ser utilizado por profesionales en cubiertas no accesibles al público.
- Si se instala en un ambiente industrial contaminado, petroquímico o naval o bien cerca del mar, la baranda GUARD debe someterse obligatoriamente a un tratamiento superficial adecuado, como pintura en polvo, anodizado, etc.
- Si se proporciona un esquema de montaje, se ruega consultarlo durante la instalación.
- En caso contrario, se debe respetar una distancia de 1.500 mm entre cada montante y la posición de los montantes en relación con las esquinas de las cubiertas.

ALMACENAMIENTO

Los componentes de aluminio bruto se empaquetan en contacto entre sí. La acción de la lluvia en el paquete cerrado facilita la oxidación de los componentes. En este caso, es posible que aparezcan manchas en la superficie. Estas manchas no afectan la calidad del aluminio, pero pueden perjudicar el aspecto estético de la baranda. Se aconseja desembalar el producto y guardar los componentes en el almacén separados (sin contacto entre ellos), o bien guardar los paquetes sin abrir en un lugar seco.

BARANDA SIN RODAPIÉ



con murete perimetral superior a 150 mm

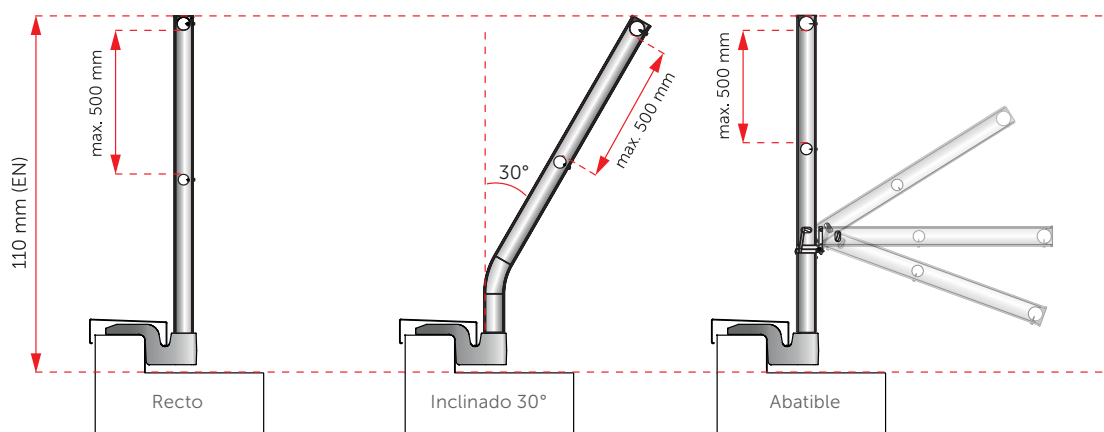
BARANDA CON RODAPIÉ



sin murete perimetral o inferior a 150 mm

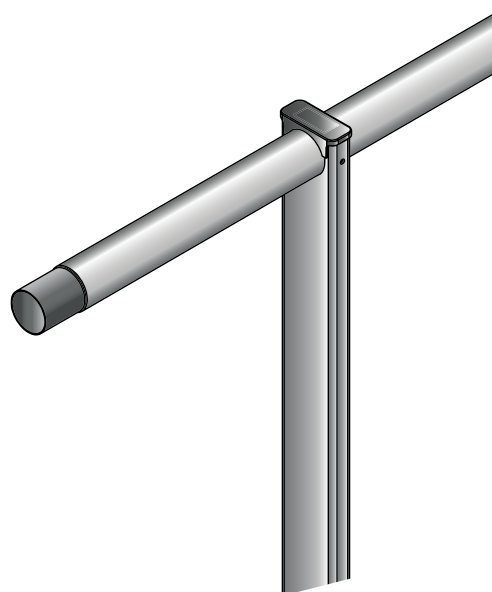
DIMENSIONES

Dimensiones de los montantes:



MONTAJE OPTIMIZADO

- Nuevos ángulos (plástico y ALU) para pasamanos redondo.
- Nuevo tapón para pasamanos redondo.
- Montantes: alojamiento en la parte superior para el pasamanos + agujeros para facilitar el montaje del pasamanos y de la barra intermedia.



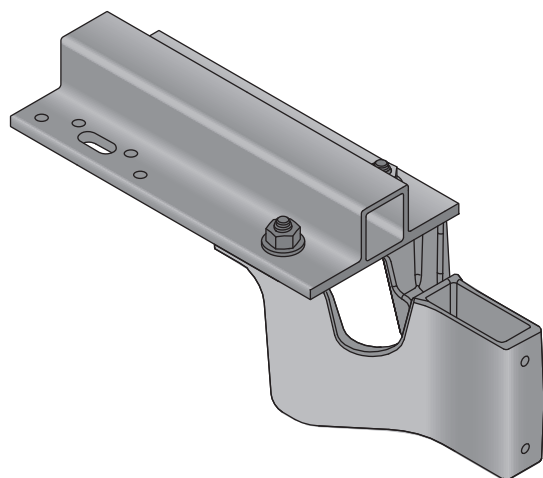
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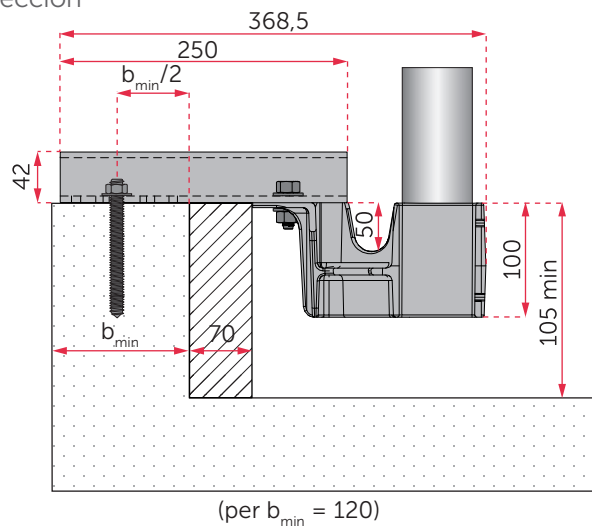


■ BARANDA: FIJACIÓN BAJO ALBARDILLA (BASE EN Z ESTÁNDAR)

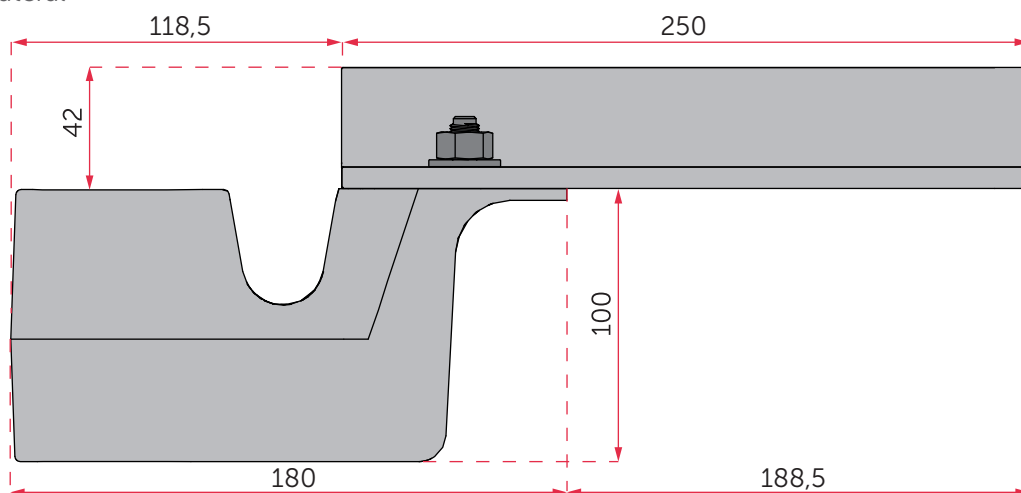
BASE EN Z DE ALUMINIO HÍBRIDA PARA MURETE PERIMETRAL CON AISLANTE HASTA 70 mm



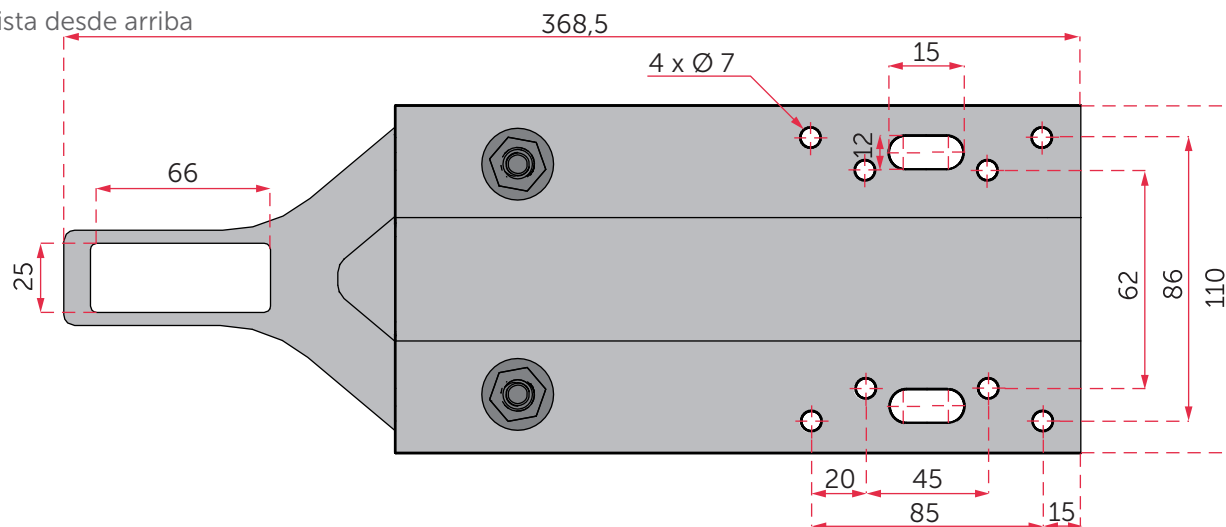
Sección



Vista lateral



Vista desde arriba



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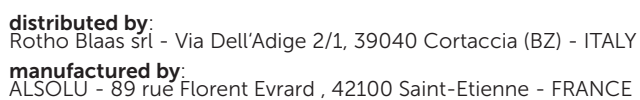
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RESERVEN

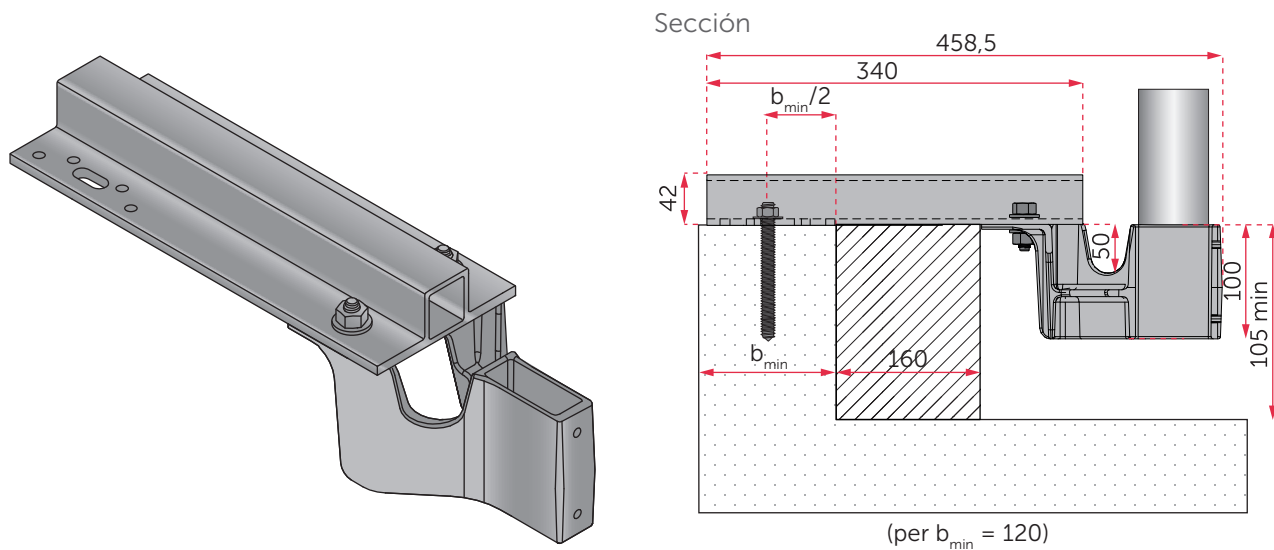
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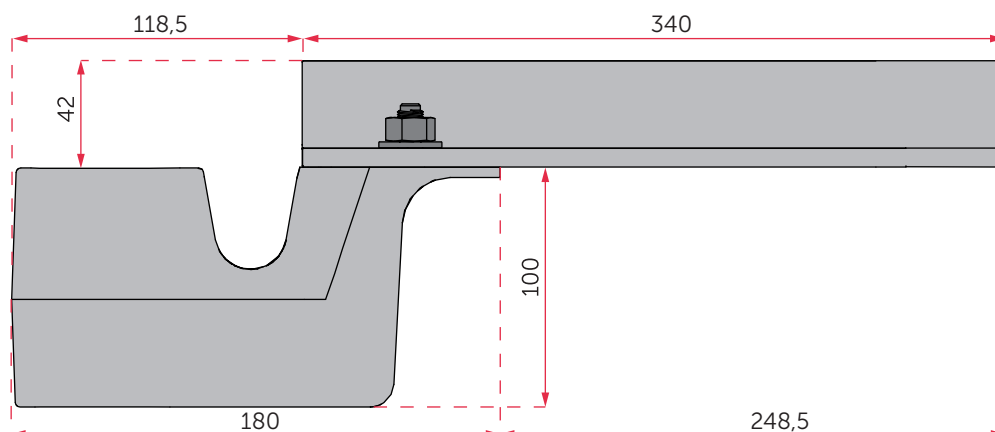


BARANDA: FIJACIÓN BAJO ALBARDILLA (BASE EN Z ESTÁNDAR)

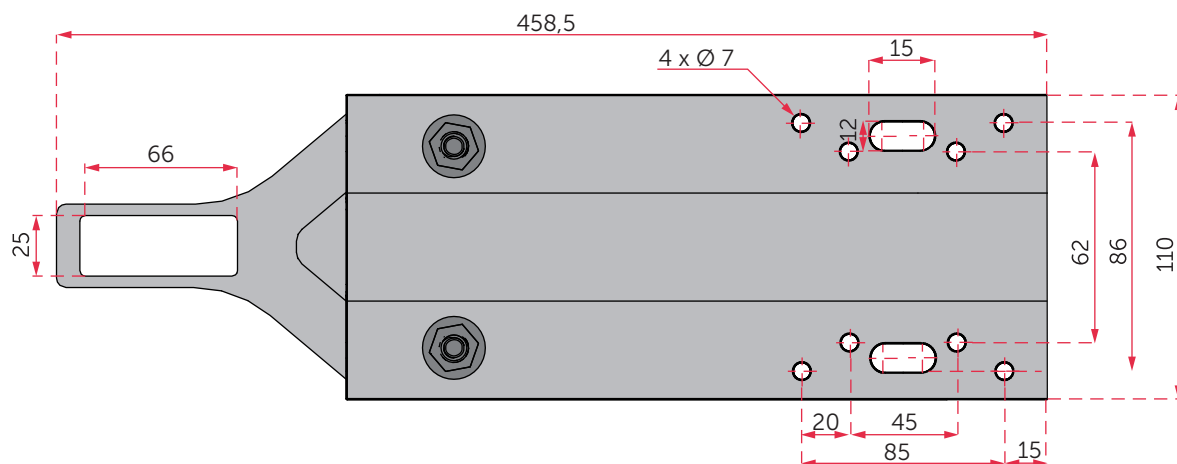
BASE EN Z DE ALUMINIO HÍBRIDA PARA MURETE PERIMETRAL CON AISLANTE HASTA 160 mm



Vista lateral



Vista desde arriba



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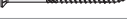
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FIJACIÓN

ES obligatorio respetar las distancias a los bordes aconsejadas por los proveedor de los elementos de fijación.

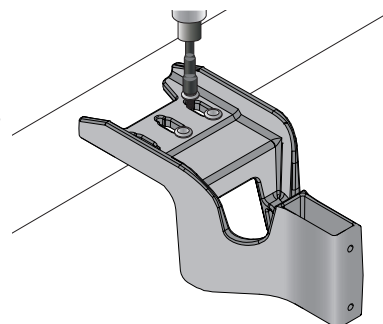
Fijación posible sobre dos tipos de soporte:

- En hormigón con 1 o 2 tacos
- En hormigón con aislante: 3 modelos, hasta 160 mm de aislante

GUARD Z		Altura del montante 1180 mm carga en la fijación 698 dN		Altura del montante 1010 mm carga en la fijación 526 dN		Altura del montante 760 mm carga en la fijación 378 dN	
		b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]
HORMIGÓN NO FIDURADO	VIN-FIX 5.8 barra M10 	120	110	100	175	-	-
	SKR CE 10x80 Acero galvanizado 	150	68	120	70	100	70
	AB1 A4 10x92 	150	68	150	68	150	68
MADERA	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

FIJACIÓN A UNA ESTRUCTURA METÁLICA CON 6 TORNILLOS AUTOPERFORANTES

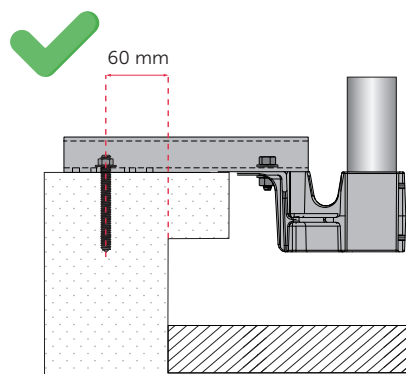
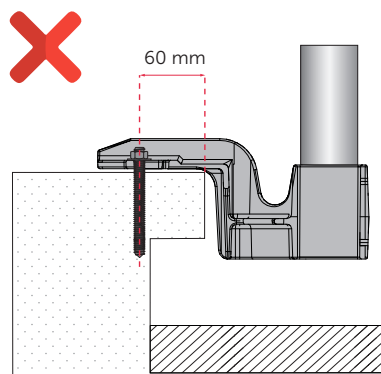
Para determinar el esfuerzo y la factibilidad en función del soporte y la validación del proveedor de tornillos, se requiere un estudio preliminar por parte el Departamento de Ingeniería y Diseño.



FIJACIÓN A MURETE PERIMETRAL DE HORMIGÓN CON SALIENTE

ATENCIÓN: es obligatorio respetar una distancia de 60 mm del cuerpo del murete perimetral y no de su saliente.

La base RBGBASEZ no es adecuada para esta configuración, por lo tanto, hay que utilizar la base RBGBASEZ70.

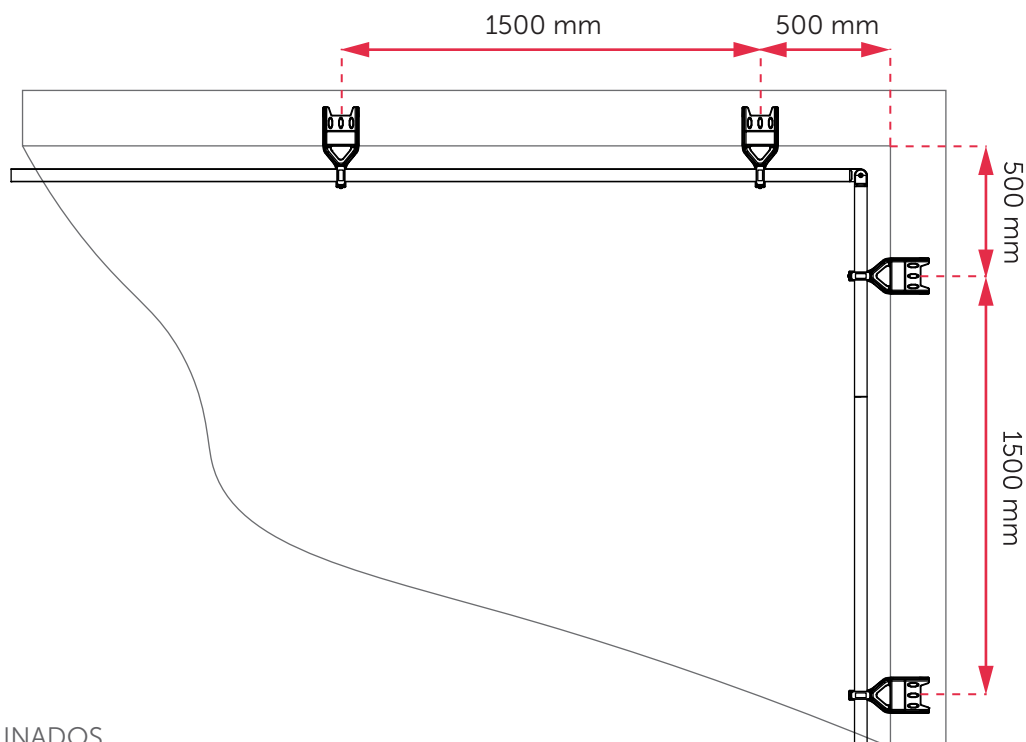


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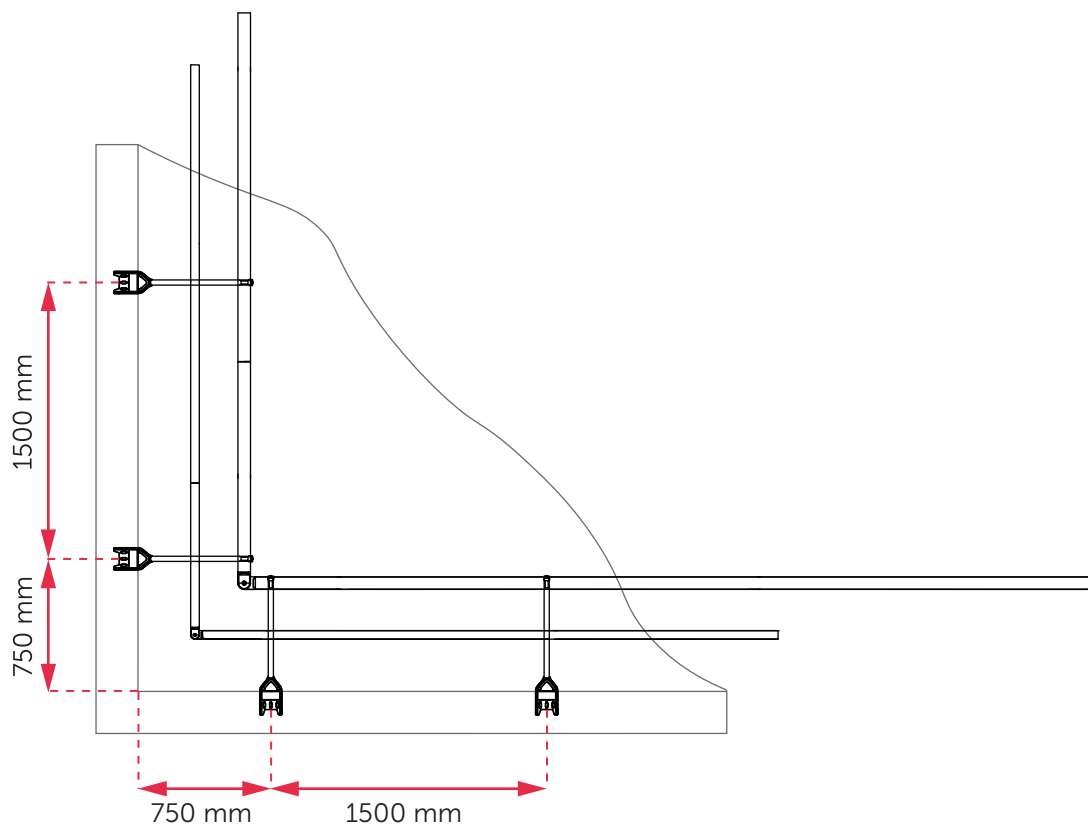
■ INSTALACIÓN

INSTALACIÓN DE LA BARANDA BAJO ALBARDILLA CON BASE EN Z

MONTANTES RECTOS



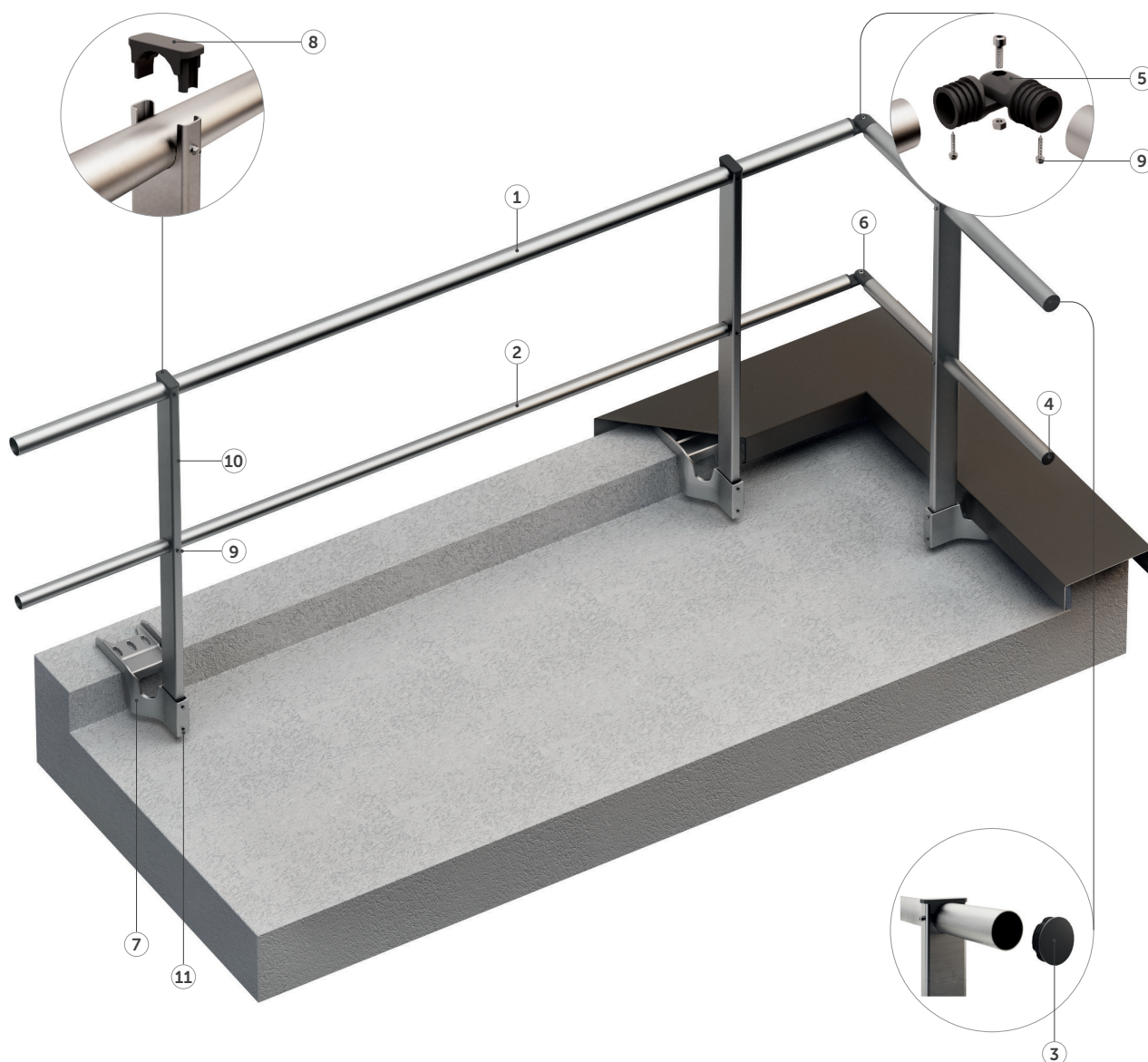
MONTANTES INCLINADOS



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GUARD Z

BARANDA FIJACIÓN EN Z



CÓDIGO	descripción
1 RBGBAR45	pasamanos Ø45 mm con virolas empotrables L = 3000 mm
2 RBGBAR35	barra intermedia Ø35 con virolas empotrables L = 3000 mm
3 RBGCAP45	tapón para pasamanos Ø45 mm
4 RBGCAP35	tapón para barra intermedia Ø35 mm
5 RBGCOR45	ángulo para pasamanos Ø45 mm
6 RBGCOR35	ángulo para barra intermedia Ø35 mm
5-6 RBGCORAL	ángulo de aluminio para pasamanos y barra intermedia (alternativo a RBGCOR45/ RBGCOR35)
7 RBGBASEZ	base estándar en Z de aluminio para pared perimetral sin aislante GUARD Z con tornillos prisionero incluidos
8 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
9 RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable

CÓDIGO	descripción
RBGSUP110	montante recto H = 1105 mm hueco Ø45 mm
RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm
10 RBGSUP115I	montante inclinado H = 1157 mm hueco Ø45 mm
RBGSUP760WH NEW	montante recto altura 760 mm sin barra intermedia; (murete perimetral de 600 mm de altura mínima)
CÓDIGO	descripción
11 RBGSCR810	tornillo prisionero M8 x 10 mm (recambio)

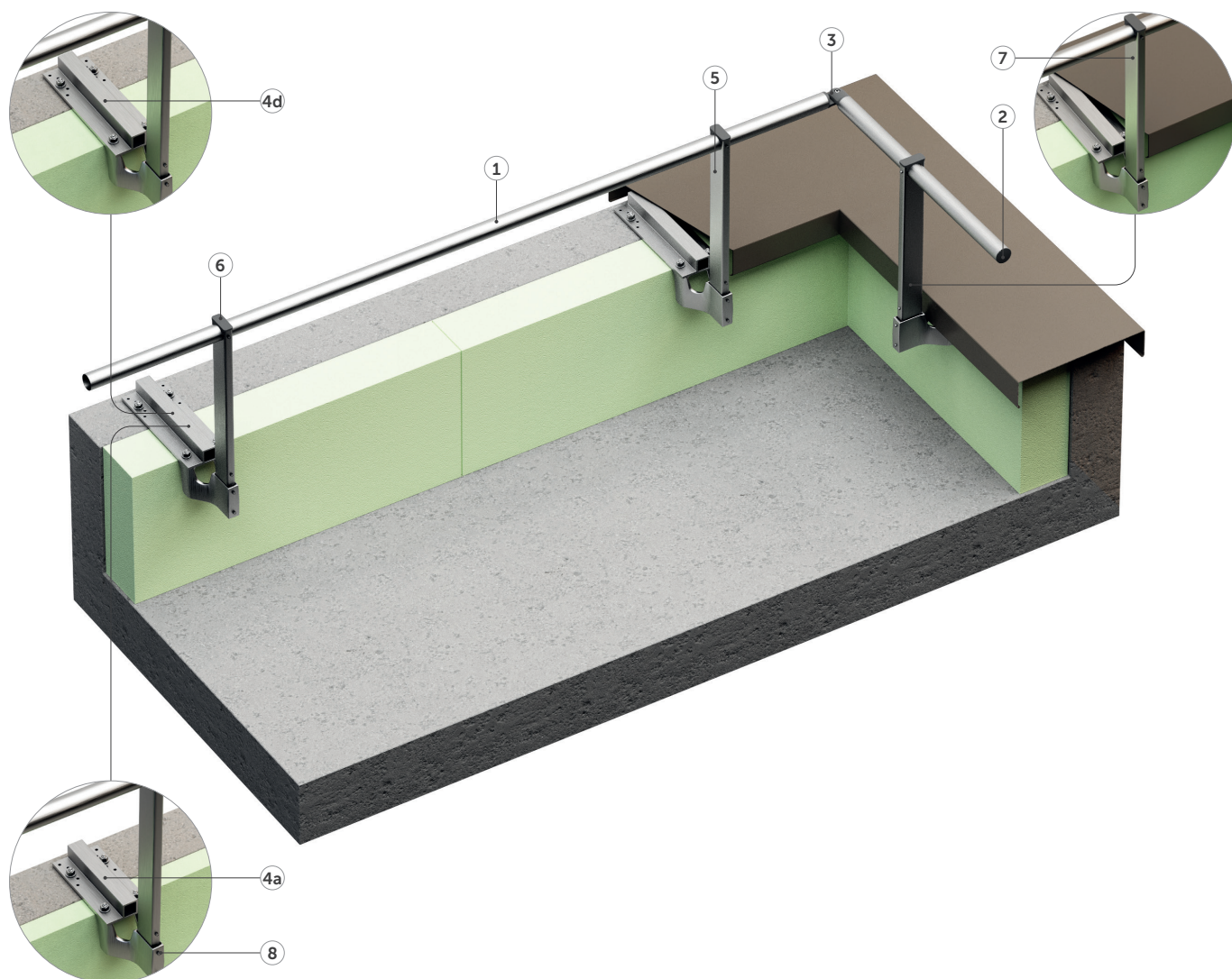
Para fijación a pared:

RBGWALL45	elemento terminal para pasamanos Ø45 mm
RBGWALL35	elemento terminal para barra intermedia redonda Ø35 mm
RBGWALLAL	elemento terminal de aluminio para pasamanos y barra intermedia

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GUARD Z

BARANDA FIJACIÓN EN Z CON AISLANTE



CÓDIGO	descripción
1 RBGBAR45	pasamanos Ø45 mm con virolas empotrables L = 3000 mm
2 RBGCAP45	tapón para pasamanos Ø45 mm
3 RBGCOR45	ángulo para pasamanos Ø45 mm
4	
a. RBGBASEZ70 NEW	base GUARD Z con aislante espesor 70 mm
b. RBGBASEZ100 NEW	base GUARD Z con aislante espesor 100 mm
c. RBGBASEZ130 NEW	base GUARD Z con aislante espesor 130 mm
d. RBGBASEZ160 NEW	base GUARD Z con aislante espesor 160 mm
RBGSUP760WH NEW	montante recto altura 760 mm sin barra intermedia; (murete perimetral de 600 mm de altura mínima)
5	
RBGSUP110	montante recto H = 1105 mm hueco Ø45 mm
RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm
RBGSUP115I	montante inclinado H = 1157 mm hueco Ø45 mm

CÓDIGO	descripción
6 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
7 RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable
8 RBGSCR810	tornillo prisionero M8 x 10 mm (recambio)
Para fijación a pared:	
RBGWALL45	elemento terminal para pasamanos Ø45 mm
RBGWALLAL	elemento terminal de aluminio para pasamanos y barra intermedia

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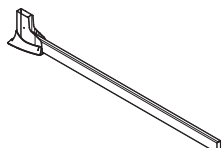
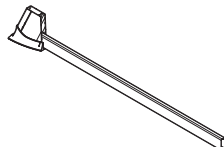
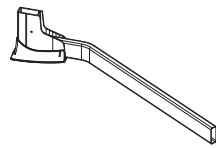
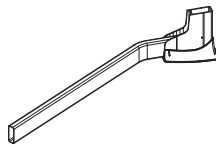
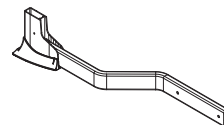
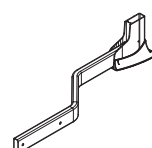
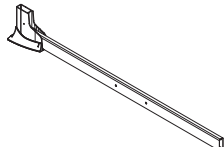
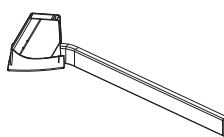
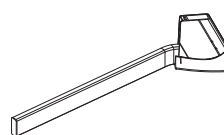
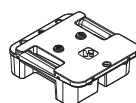
CÓDIGOS Y DIMENSIONES

GRUPO	CÓDIGO	descripción	unid.	
PASAMANOS Y BARRAS INTERMEDIAS	RBGBAR45	pasamanos Ø45 mm con violas empotrables L = 3000 mm	1	
	RBGBAR35	barra intermedia Ø35 con violas empotrables L = 3000 mm	1	
	RBGBAR45F	pasamanos sin violas empotrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	barra intermedia sin violas empotrables Ø35 mm L = 3000 mm	1	
	RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm	1	
MONTANTES	RBGSUP100	montante recto H = 1028 mm hueco Ø45 mm	1	
	RBGSUP110	montante recto H = 1105 mm hueco Ø45 mm	1	
	RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm	1	
	RBGSUP110F	montante abatible H = 1105 mm hueco Ø45 mm	1	
	RBGSUP100F	montante abatible H = 1010 mm hueco Ø45 mm	1	
	RBGSUP130	montante recto H = 1300 mm hueco Ø45 mm	1	
	RBGSUP760WH NEW	montante recto altura 760 mm sin barra intermedia	1	
	RBGSUP115I	montante inclinado H = 1157 mm hueco Ø45 mm	1	
RODAPIÉS Y ACCESORIOS	RBGTB	rodapié 3000 x 150 x 19 mm	1	
	RBGTBJUN	conector recto de rodapié H = 150 mm	1	
	RBGTBCOR	reenvío de ángulo rodapié H = 150 mm	1	
	RBGTBCAP	tapón para rodapié H = 150 mm	1	
	RBGTBW	soporte para rodapié H = 150 mm para GUARD W	1	
	RBGTBH	soporte para rodapié H = 150 mm	1	

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CÓDIGOS Y DIMENSIONES

GRUPO	CÓDIGO	descripción	unid.	
BASES ESTÁNDARES	RBGBASEW	base para baranda autoportante GUARD W recta con pata de sostén	1	
	RBGBASEWI	base para baranda autoportante GUARD W inclinada con pata de sostén	1	
	RBGBASEWFCR	pata de sostén con curva a la derecha a 25° para ángulo	1	
	RBGBASEWFCL	pata de sostén con curva a la izquierda a 25° para ángulo	1	
	RBGBASEWFR	pata de sostén con curva a la derecha para baranda abatible	1	
	RBGBASEWFL	pata de sostén con curva a la izquierda para baranda abatible	1	
	RBGBASEWF	base para baranda autoportante GUARD W con agujeros	1	
	RBGBASEWIFCR NEW	pata de sostén para montante inclinado con curva a la derecha a 25°	1	
	RBGBASEWIFCL NEW	pata de sostén para montante inclinado con curva a la izquierda a 25°	1	
	RBGBASEWE	cuña de bloqueo para GUARD W (recambio)	1	
	RBGWEIGHT	contrapeso de plástico 12,5 kg para GUARD W	3	
	RBGBASEV	placa base fijación a pared GUARD V	1	

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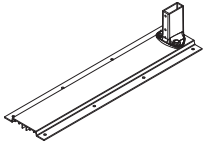
GRUPO	CÓDIGO	descripción	unid.	
BASES ESTÁNDARES	RBGBASEVD	placa base fijación a pared saliente GUARD V	1	
	RBGDIST	elemento distanciador GUARD V-VD + 35 mm	1	
	RBGBASEH	placa base fijación horizontal pintada en gris GUARD H	1	
	RBGBASEZ	base en Z de aluminio estándar para pared perimetral sin aislante GUARD Z	1	
	RBGBASEZ70 NEW	base GUARD Z con aislante espesor 70 mm	1	
	RBGBASEZ100 NEW	base GUARD Z con aislante espesor 100 mm	1	
	RBGBASEZ130 NEW	base GUARD Z con aislante espesor 130 mm	1	
	RBGBASEZ160 NEW	base GUARD Z con aislante espesor 160 mm	1	

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GRUPO	CÓDIGO	descripción	unid.	
BASES PARA FIJACIÓN A CHAPA TRAPEZOIDAL	RBGBASE250PA	placa para fijación a chapas trapezoidales con paso de 250 mm, GUARD paralelo a las grecas (tornillos no incluidos)	1	
	RBGBASE333PA	placa para fijación a chapas trapezoidales con paso de 333 mm, GUARD paralelo a las grecas (tornillos no incluidos)	1	
	RBGBASE250PE	placa para fijación a chapas trapezoidales con paso de 250 mm, GUARD perpendicular a las grecas (tornillos no incluidos)	1	
	RBGBASE333PE	placa para fijación a chapas trapezoidales con paso de 333 mm, GUARD perpendicular a las grecas (tornillos no incluidos)	1	
ACCESORIOS	RBGCAP45	tapón para pasamanos Ø45 mm	1	
	RBGCAP35	tapón para barra intermedia Ø35 mm	1	
	RBGCOR45	ángulo para pasamanos Ø45 mm	1	
	RBGCOR35	ángulo para barra intermedia Ø35 mm	1	
	RBGWALL45	elemento terminal para pasamanos Ø45 mm	1	
	RBGWALL35	elemento terminal para barra intermedia Ø35 mm	1	
	RBGCORAL	ángulo de aluminio para pasamanos	1	
	RBGWALLAL	elemento terminal de aluminio para pasamanos	1	
	RBGBASEHKIT	kit de impermeabilización para base GUARD H	1	
	RBGWEDGE	cuña de plástico para relleno	1	
TORNILLOS DE FIJACIÓN	RBGSCR4816	tornillo autoperforante 4,8 x 16 mm de acero inoxidable	25	
	RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable	25	
	RBGSCR4832	tornillo autoperforante 4,8 x 32 mm de acero inoxidable	25	
	RBGSCR4850	tornillo autoperforante 4,8 x 50 mm de acero inoxidable	25	
	RBGSCR627	tornillo autoperforante para chapa de acero inoxidable 6 x 27 mm	25	
	RBGSCR810	tornillo prisionero M8 x 10 mm (recambio)	10	
	RBGSCRWAS	arandela de estanquidad	25	
	RBGBASEWFKIT NEW	kit de unión RBGBASEWF y RBGBASEWFR / RBGBASEWFL	-	x 4  x 2  x 2

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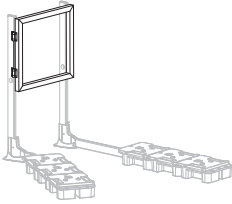
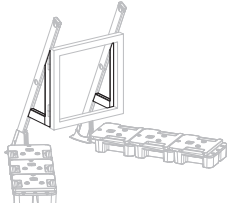
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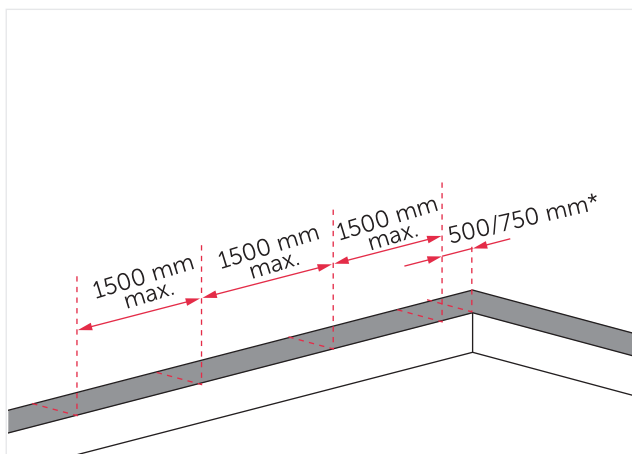
GRUPO	CÓDIGO	descripción	unid.	
KIT CANCELAS DE SEGURIDAD	RBGGATE600	cancela de seguridad de 500 mm de altura con bisagras montadas L = 600 mm	1	
	RBGGATE1100	cancela de seguridad de 500 mm de altura con bisagras montadas L = 1100 mm	1	
	RBGGATEWISUP NEW	soporte para cancela montante inclinado	1	
MANUALES	RBGUARDHMAN	manual para GUARD H	1	
	RBGUARDVMAN	manual para GUARD V	1	
	RBGUARDMMAN	manual para GUARD M	1	
	RBGUARDZMAN	manual para GUARD Z	1	
	RBGUARDWMAN	manual para GUARD W	1	

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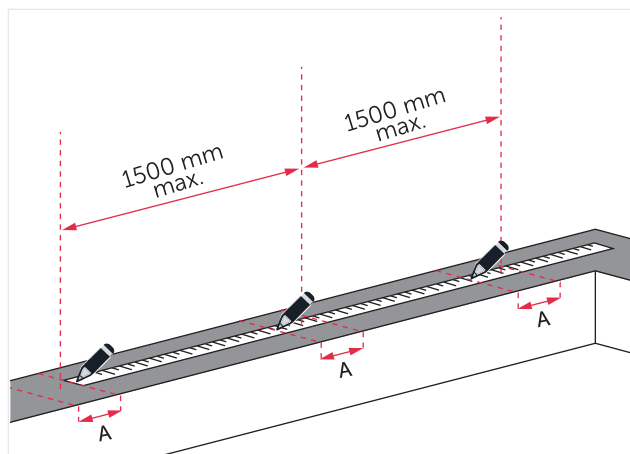
INSTALACIÓN

INSTALACIÓN DE LA BARANDA BAJO ALBARDILLA CON BASE RGBBASEZ

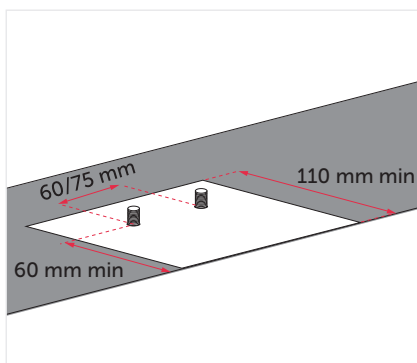
El montaje de la baranda bajo albardilla (base RGBBASEZ) requiere al menos dos personas. ES mejor empezar la instalación en una esquina.



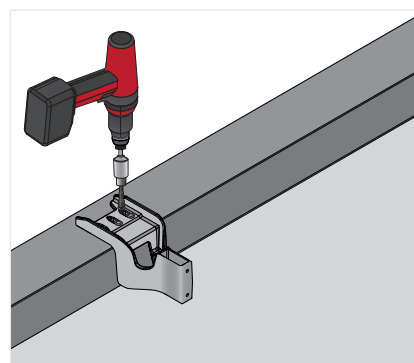
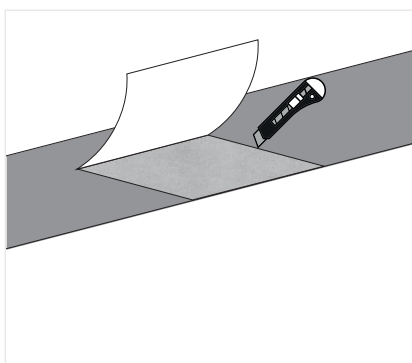
1 - Realizar una mara cada 1500 mm como máximo. La distancia entre el montante y el borde del murete perimetral tiene que ser de 500 mm para la baranda recta y de 750 mm para la baranda inclinada.



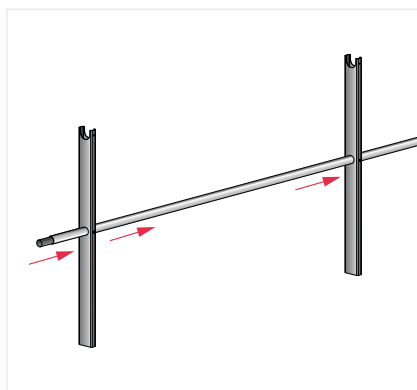
2 - Para la disposición de las bases, marcar con una cuerda las dimensiones del interje A = 60 mm para la base RGBBASEZ, A = 70 mm para la RGBBASEZ70, A = 100 mm para la RGBBASE100, A = 130 mm para la RGBBASE130 y A = 160 mm para RGBBASE160, o según el esquema de disposición.



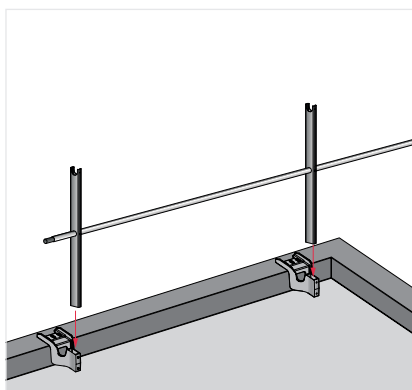
3 - Las bases en Z tienen que fijarse directamente al murete perimetral. Si la impermeabilización lo cubre, cortar por donde se vaya a colocar cada base en Z.



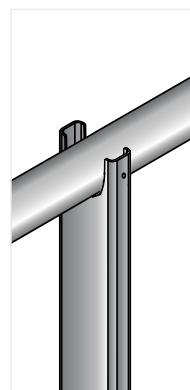
4 - Fijar la base al murete perimetral según el soporte (cf. página 9)



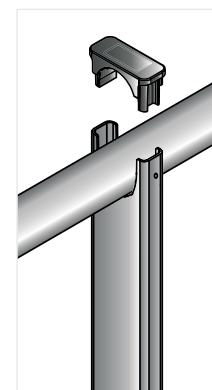
5 - Colocar una barra intermedia entre dos montantes.



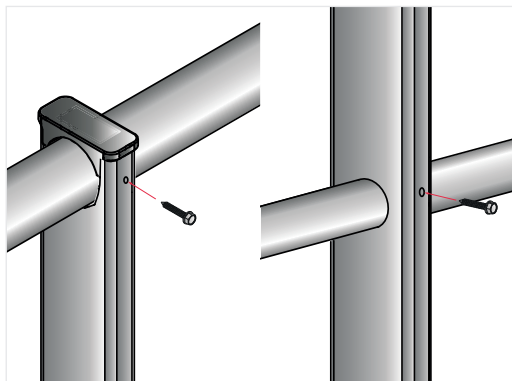
6 - Colocar todo en las bases.



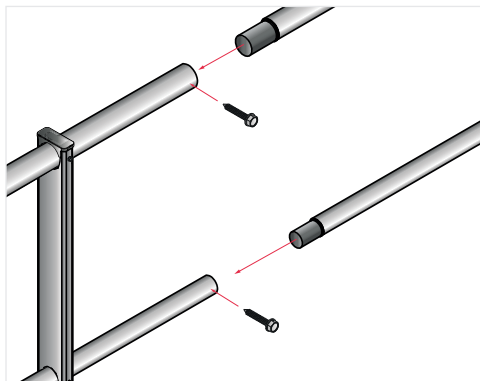
7 - Colocar el pasamanos en los montantes.



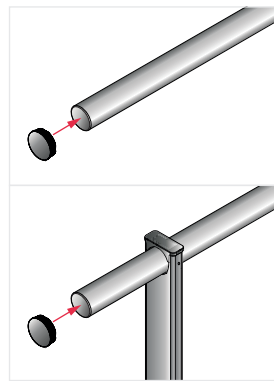
8 - Cerrar la parte superior del montante.



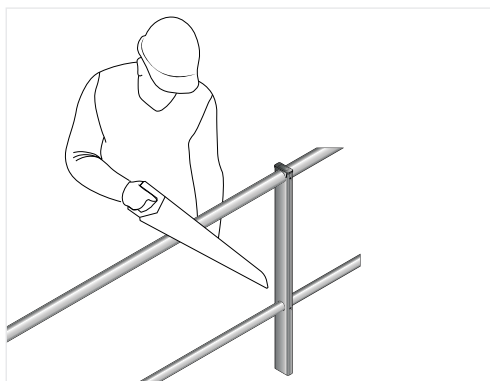
9 - Enroscar los tornillos autoperforantes 4,8 x 25 que fijan el pasamanos y la barra intermedia al montante.



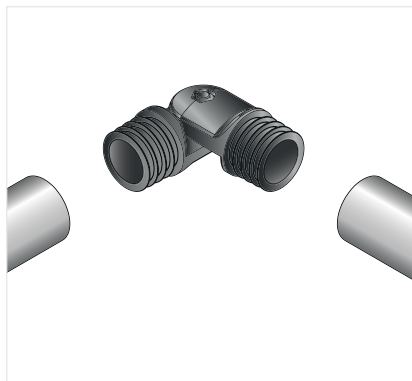
10 - Acoplar los pasamanos y las barras intermedias de las secciones montadas y fijadas con tornillos 4,8 x 16.



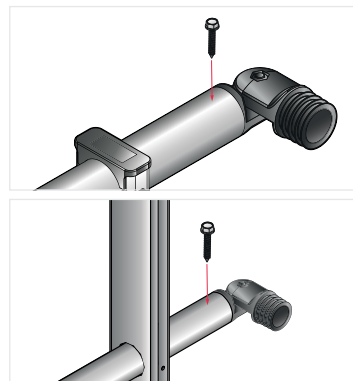
14 - Poner los tapones o los elementos terminales en los pasamanos o barras intermedias.



13 - Adaptar la última sección cortando la parte sobrante.

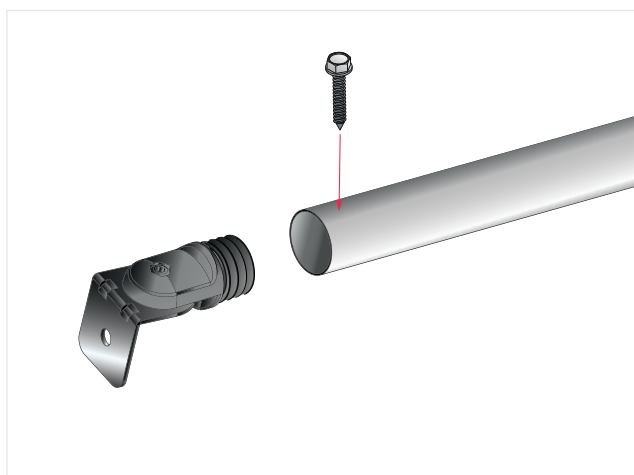


11 - Introducir los ángulos en los pasamanos y las barras intermedias.

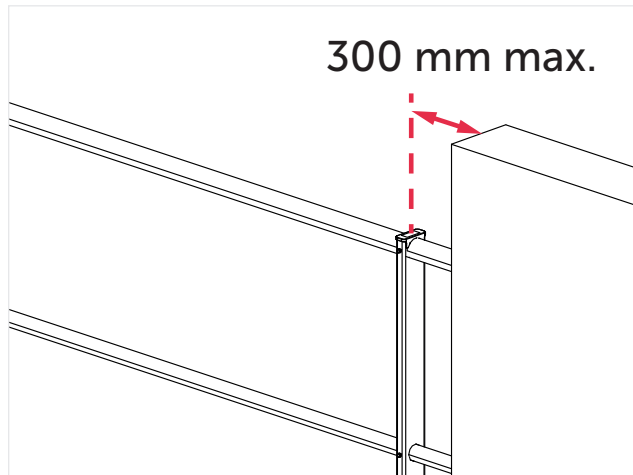


12 - Fijar los ángulos con tornillos autoperforantes 4,8 x 25.

MONTAJE DE LOS ELEMENTOS DE FIJACIÓN A LA PARED



1 - Fijar los ángulos con tornillos autoperforantes 4,8 x 25.



2 - Respetar el interje máximo de 300 mm entre el montante y la pared.

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MANUEL D'INSTALLATION

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DÉFINITION

Le garde-corps GUARD avec base Z et base Z pour bordure isolée est un dispositif de protection collective antichute. Le garde-corps GUARD est la solution idéale pour la mise en sécurité des toitures. Son design permet une installation rapide et simple grâce aux bagues encastrables au niveau des lisses et sous-lisses. Le garde-corps GUARD à base Z pour bordure isolée est disponible en 4 modèles : 70, 100, 130 et 160. Il peut être utilisé lorsqu'il y a une saillie sur la bordure.

RÉGLEMENTATIONS

Le garde-corps GUARD Z est conforme à la norme européenne EN ISO 14122-3 de décembre 2007, « Sécurité des machines - Moyens d'accès permanents aux machines - Partie 3 : Escaliers, échelles à marches, garde-corps », et à la norme NF E 85-015 d'avril 2008 « Éléments d'installation industriels - Moyens d'accès permanents ».

Les garde-corps GUARD Z ont passé avec succès les tests et les essais statiques et dynamiques requis par la norme EN ISO 14122-3.

RÉFÉRENCES RÉGLEMENTAIRES

- Un garde-corps doit être installé lorsque la hauteur de chute dépasse 2 mètres (vérifier la réglementation locale).
- La hauteur de la lisse du garde-corps doit être au moins 1100 mm au-dessus de la surface de passage (vérifier la réglementation locale).
- L'espace libre entre la lisse et la sous-lisse et entre la sous-lisse et la plinthe doit être inférieur ou égal à 500 mm.
- La plinthe garde-pieds doit avoir une hauteur minimum de 100 mm. S'il existe un espace vide entre la plinthe et la surface de passage, il ne doit pas dépasser 10 mm.
- La distance entre deux montants ne doit pas dépasser 1 500 mm. **ATTENTION : Une installation du garde-corps GUARD qui ne respecte pas la distance maximale de 1 500 mm entre les montants génère la non-conformité de l'installation.**
- Si la lisse est interrompue, l'espace vide entre deux sections de la lisse doit avoir une largeur comprise entre 75 mm et 120 mm. S'il existe des points de passage avec danger de chute, ils doivent être protégés par un portail à fermeture automatique doté d'une lisse et d'une sous-lisse de la même hauteur que le garde-corps.
- Garde-corps rabattable : une ligne de vie PATROL doit être installée avant d'installer le garde-corps rabattable. Elle sera également utilisée durant son installation et son entretien.

CONSEILS POUR L'ASSEMBLAGE

- Hauteur minimum du garde-corps/bord avec fixation interne : 150 mm.
- Perçage à 75 mm minimum de l'arête supérieure du bord.
- Entraxe max. entre les montants : 1500 mm.
- Angles de lisse et traverse réglable à encastrer.
- Les composants des lisses et des sous-lisses qui s'encastrent les uns dans les autres.
- Assemblage avec vis HC et vis autoforeuses fournies.
- Plinthe obligatoire en cas de fixation murale et

avec bord inférieur à 100 mm.

UTILISATION - ENTRETIEN

- L'installateur est chargé de s'assurer que la structure de support puisse accueillir la base Z. Par exemple, pour une bordure en béton, un test de retrait est nécessaire. Pour d'autres supports, la validation est effectuée par calcul et/ou par test.
- La personne qui effectue l'installation du garde-corps GUARD doit être un opérateur qualifié respectant les règles d'utilisation concernant les travaux en hauteur. Elle doit donc, avant l'utilisation, s'assurer de sa propre sécurité (utilisation d'une ligne de vie temporaire, EPI, plateforme, etc.).
- Avant l'utilisation, l'utilisateur doit s'assurer à travers un contrôle visuel que le garde-corps GUARD ne présente aucune anomalie (choc, déformation, etc.).
- Le garde-corps GUARD n'exige aucun entretien particulier, toutefois un contrôle visuel doit être effectué au moins une fois par an, par un opérateur compétent.
- Si le garde-corps GUARD n'est pas correctement installé, il est probablement endommagé ou il a été utilisé pour éviter une chute. Son utilisation doit être immédiatement interdite et il ne devra plus être utilisé tant que un opérateur compétent n'ait pas autorisé par écrit sa réutilisation, après inspection et vérification.
- Si le produit est revendu hors du premier pays de destination, il est essentiel, pour la sécurité de l'utilisateur, que le revendeur fournisse le mode d'emploi dans la langue du pays d'utilisation du produit. Ces documents pourront être fournis sur demande en contactant le fabricant.
- Le garde-corps GUARD est un dispositif de protection collective permanent qui doit être utilisé par des professionnels sur les toitures non accessibles au public.
- Si le garde-corps GUARD est installé dans un milieu industriel pollué, pétrochimique, naval, ou en bord de mer, il devra nécessairement être soumis à un traitement de surface approprié comme le revêtement par poudre, l'anodisation, etc.
- Si une planimétrie a été fournie, il faut se référer à ce document lors de l'installation.
- S'il n'y a pas de planimétrie, une distance de 1500 mm entre chaque montant et la position des montants par rapport aux angles des toitures doivent être respectées.

STOCKAGE

Les composants en aluminium brut sont conditionnés en contact les uns avec les autres. L'action de la pluie sur l'emballage fermé favorisera l'oxydation de ces composants. Dans ce cas, des taches peuvent apparaître à la surface. Celles-ci ne mettent pas en cause la qualité de l'aluminium mais peuvent nuire à l'aspect esthétique du garde-corps. Il est conseillé de débarrasser le colis et de conserver les composants séparés dans l'entrepôt (aucun contact entre eux), ou de conserver les colis encore emballés dans un endroit sec.

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GARDE-CORPS SANS PLINTHE GARDE-PIEDS



avec bord supérieur de 150 mm

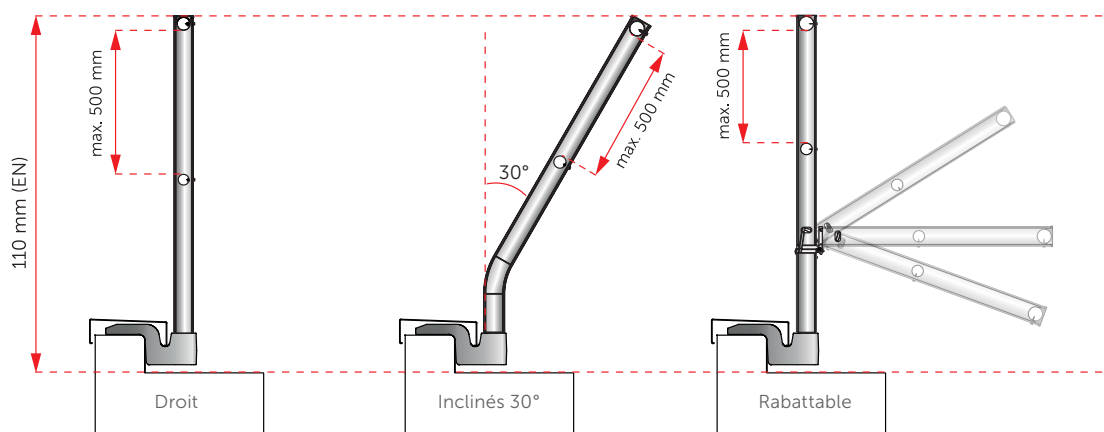
GARDE-CORPS AVEC PLINTHE GARDE-PIEDS



sans bord ou inférieur à 150 mm

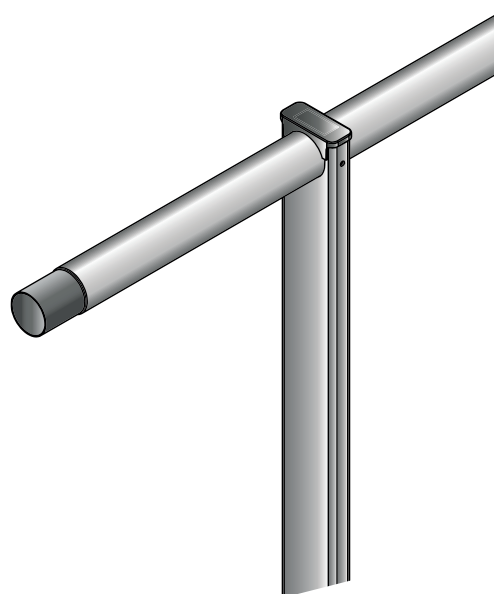
DIMENSIONS

Dimensions des montants :



MONTAGE OPTIMISÉ

- Nouveaux angles (plastique et ALU) pour lisse ronde ;
- Nouveau bouchon pour lisse ronde ;
- Montants : fente dans la partie supérieure pour recevoir la lisse + trous pour faciliter le montage de la lisse et de la sous-lisse.



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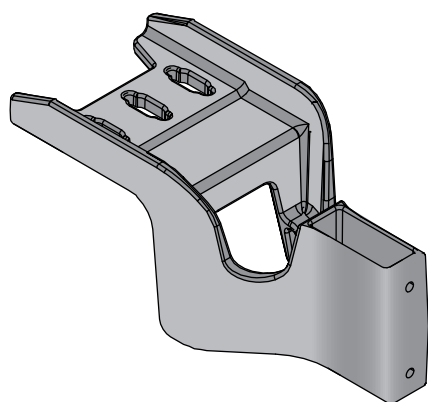
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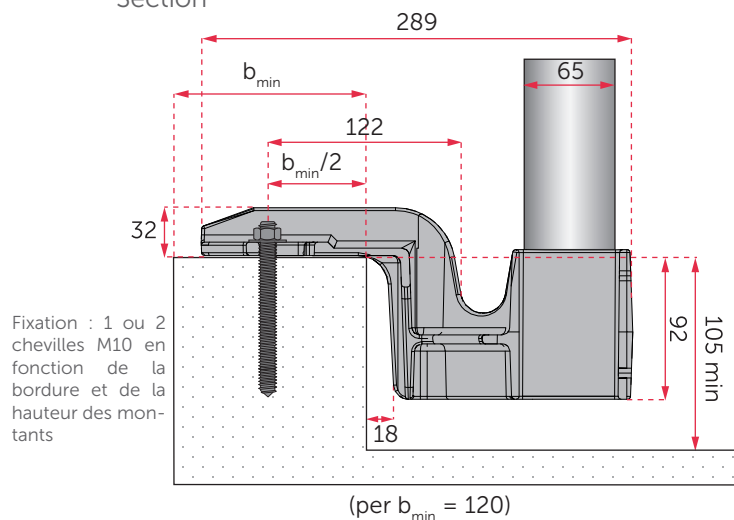
ALSOLU - 89 rue Florent Evrard, 42100 Saint-Etienne - FRANCE

■ GARDE-CORPS : FIXATION SOUS TOITURE (BASE Z STANDARD)

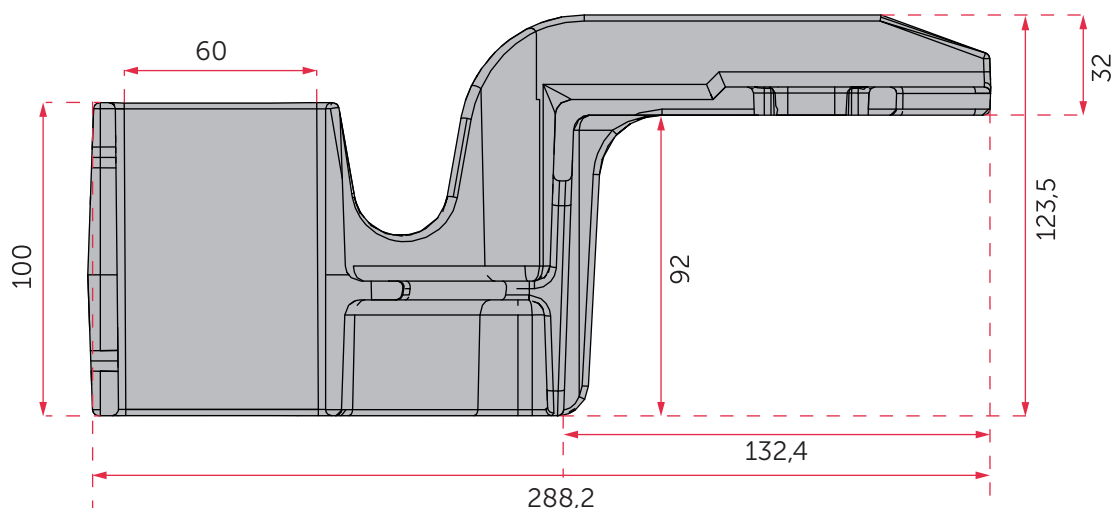
BASE Z EN ALUMINIUM HYBRIDE POUR BORDURE SANS ISOLANT



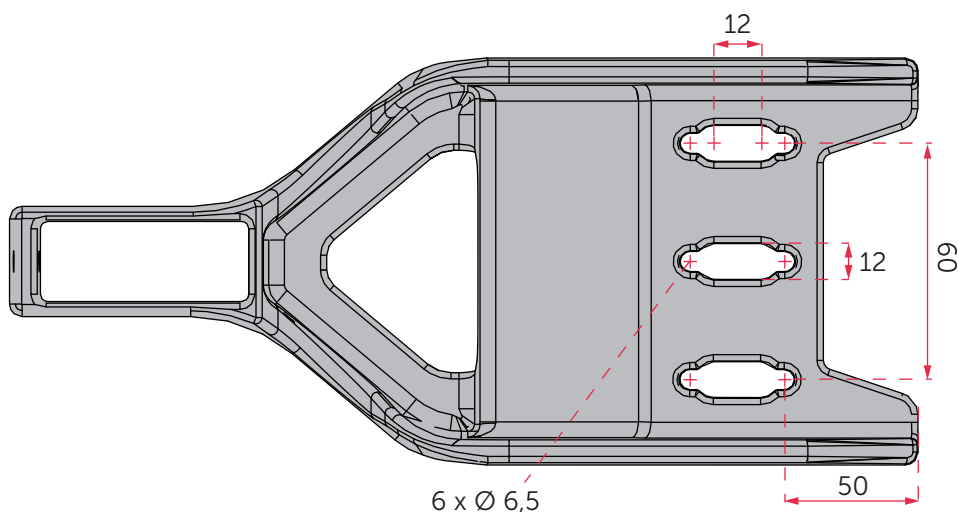
Section



Vue latérale



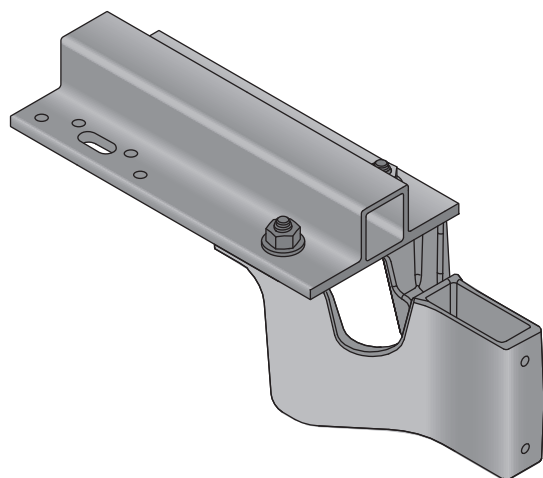
Vue d'en haut



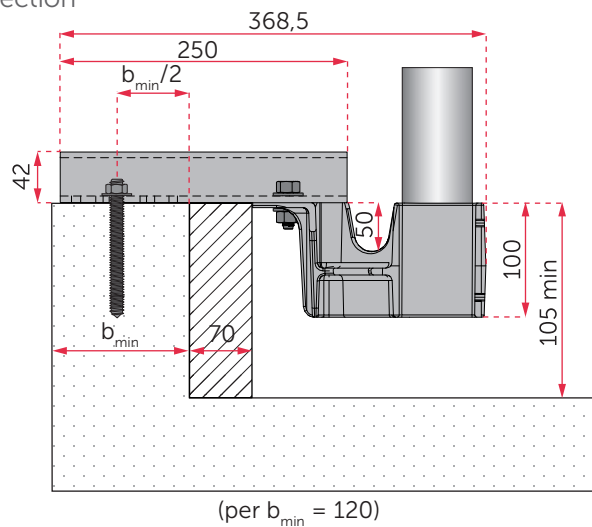
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■ GARDE-CORPS : FIXATION SOUS TOITURE (BASE Z STANDARD)

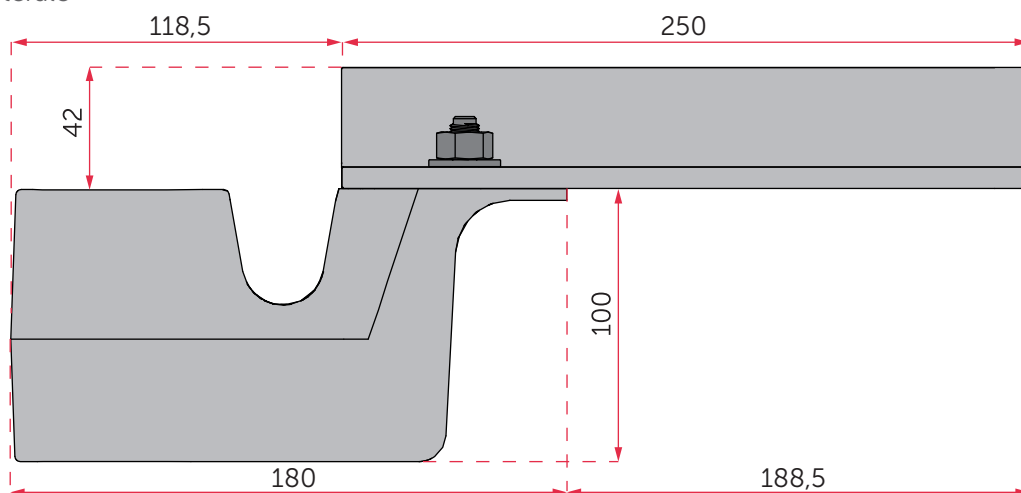
BASE Z EN ALUMINIUM HYBRIDE POUR BORDURE AVEC ISOLANT JUSQU'À 70 mm



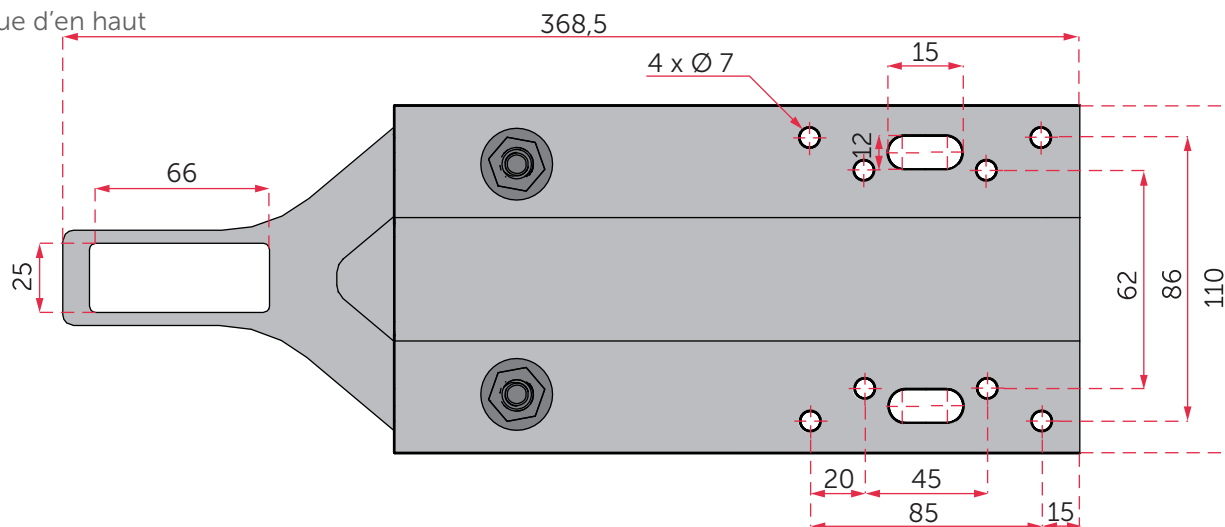
Section



Vue latérale



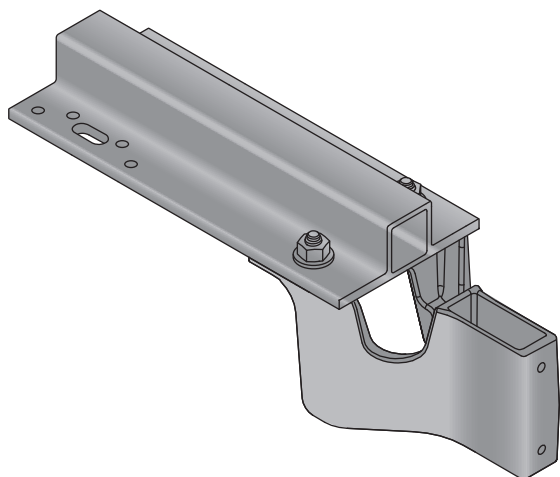
Vue d'en haut



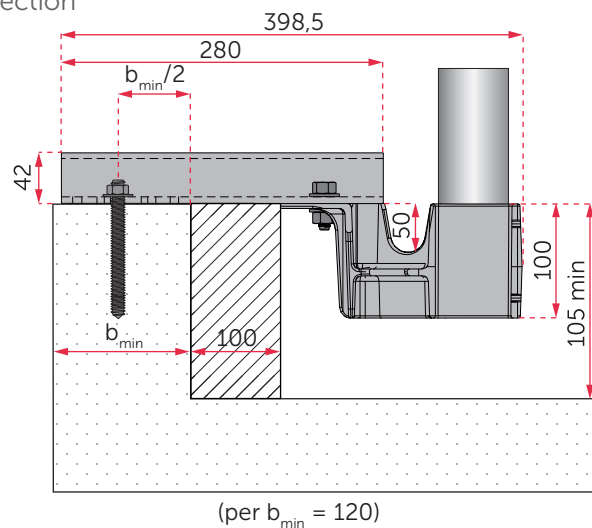
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■ GARDE-CORPS : FIXATION SOUS TOITURE (BASE Z STANDARD)

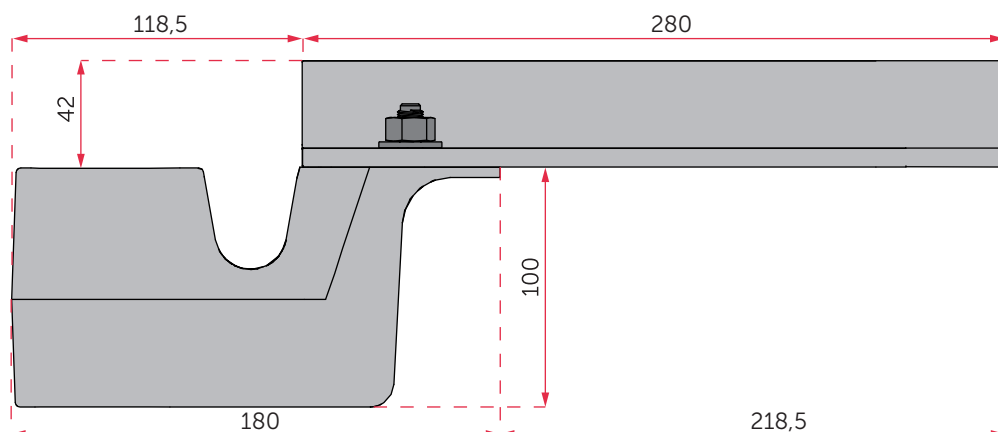
BASE Z EN ALUMINIUM HYBRIDE POUR BORDURE AVEC ISOLANT JUSQU'À 100 mm



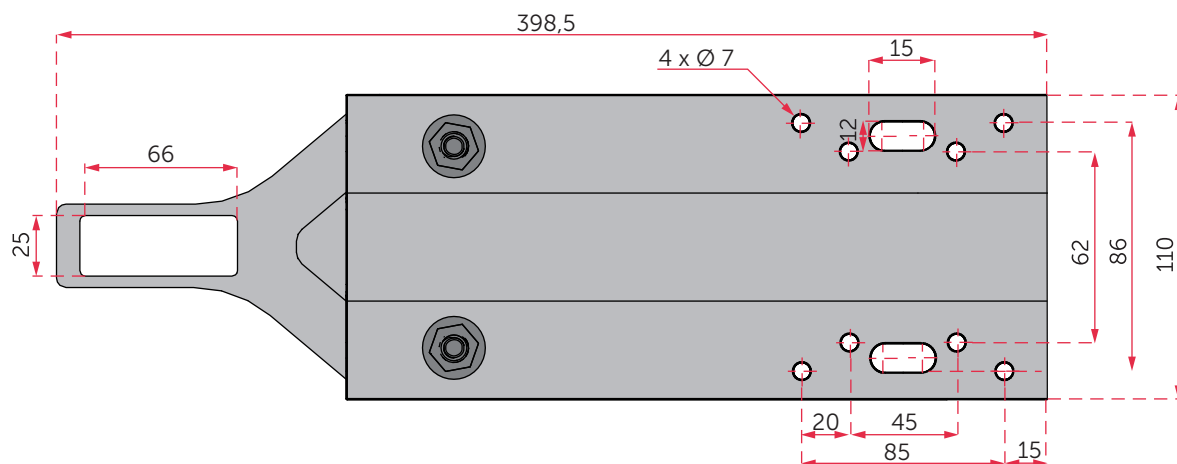
Section



Vue latérale



Vue d'en haut



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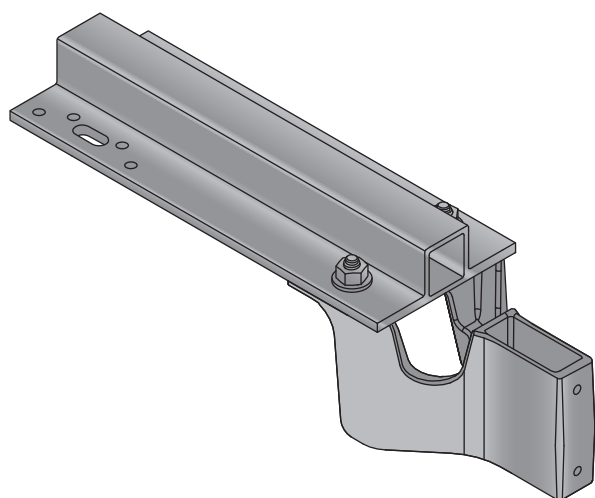
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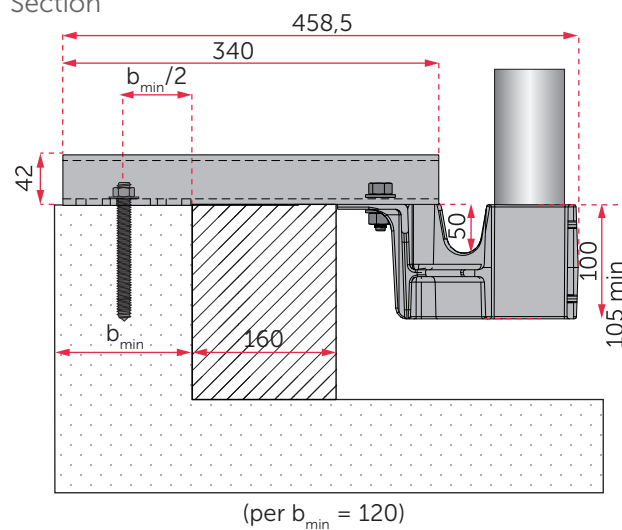
IT DE EN ES FR

■ GARDE-CORPS : FIXATION SOUS TOITURE (BASE Z STANDARD)

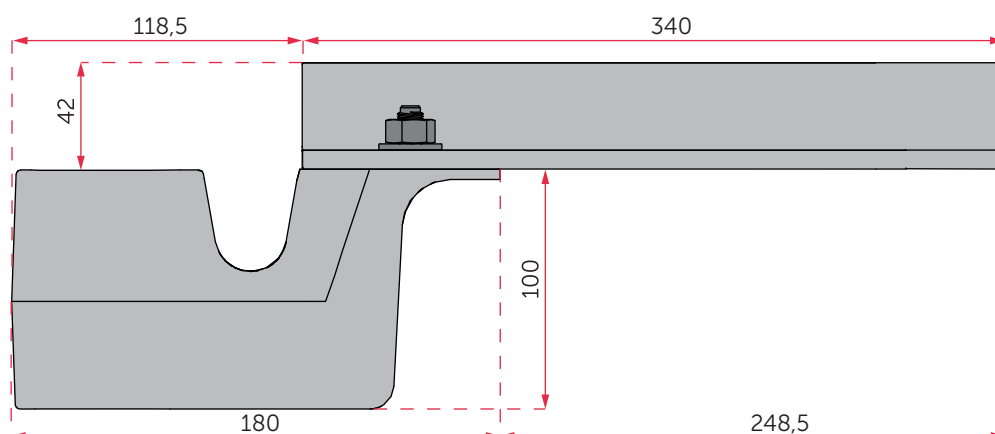
BASE Z ALUMINIUM HYBRIDE POUR BORDURE AVEC ISOLANT JUSQU'À 160 mm



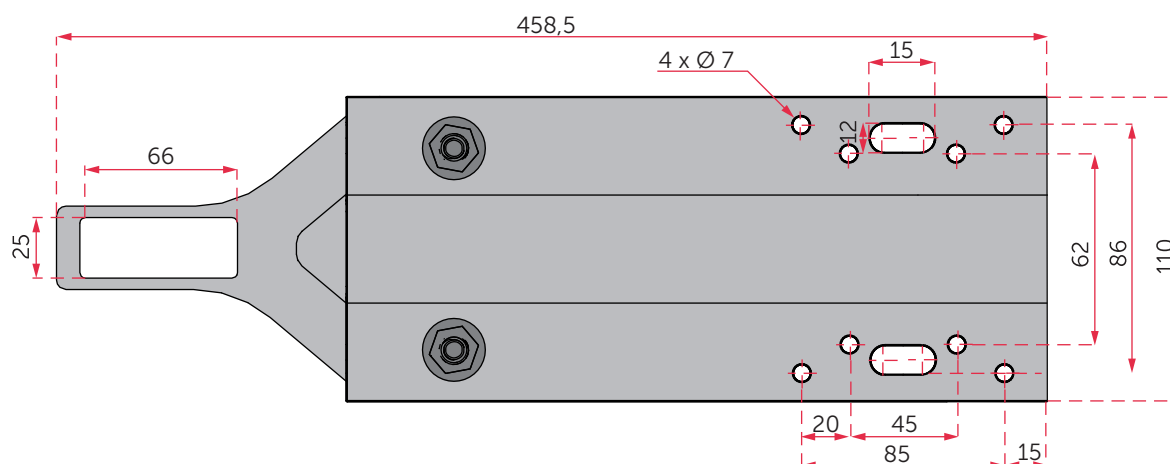
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Vue latérale



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FIXATION

IL EST impératif de respecter les distances des bords conseillées par les fournisseurs des éléments de fixation.

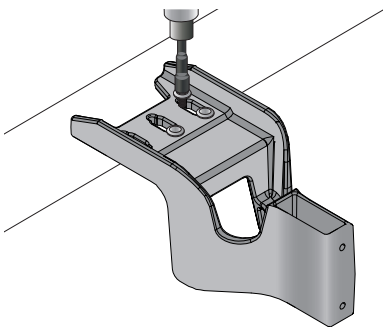
Fixation possible sur deux types de supports :

- Sur béton avec 1 ou 2 chevilles
- Sur béton avec isolant : 3 modèles, jusqu'à 160 mm d'isolant

GUARD Z		Hauteur du montant 1180 mm charge sur la fixation 698 dN		Hauteur du montant 1010 mm charge sur la fixation 526 dN		Hauteur du montant 760 mm charge sur la fixation 378 dN	
		b _{min} [mm]	h _{min} [mm]	b _{min} [mm]	h _{min} [mm]	b _{min} [mm]	h _{min} [mm]
CLS NON FISSURÉ	VIN-FIX 5,8 tige M10 	120	110	100	175	-	-
	SKR CE 10x80 Acier galvanisé 	150	68	120	70	100	70
	AB1 A4 10x92 	150	68	150	68	150	68
BOIS	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

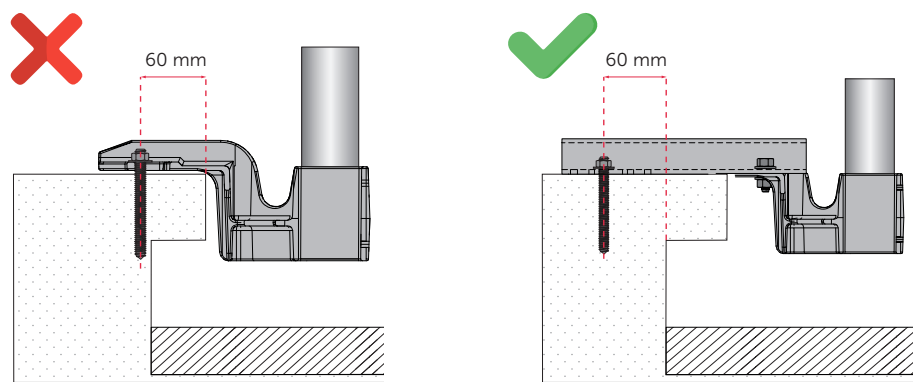
FIXATION SUR STRUCTURE MÉTALLIQUE AVEC 6 VIS AUTOFO-REUSES

Pour déterminer l'effort et la faisabilité en fonction du support et de la validation du fournisseur de vis, demander une étude préliminaire au département ingénierie et conception.



FIXATION SUR BORDURE EN BÉTON AVEC SAILLIE

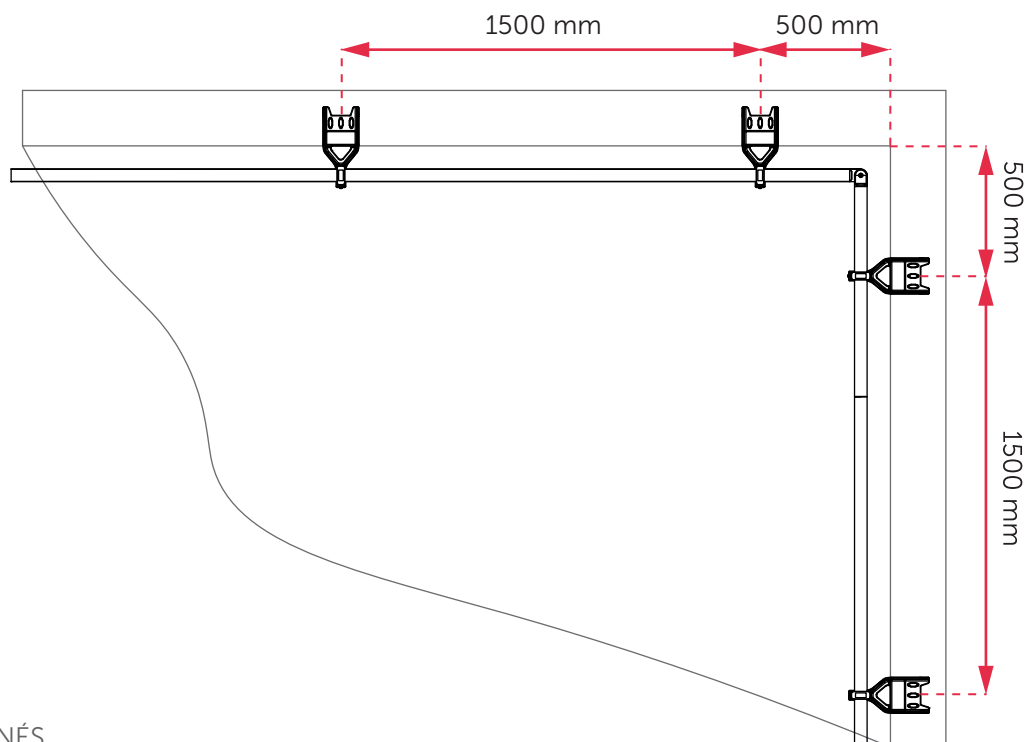
ATTENTION : Il est primordial de respecter une distance de 60 mm par rapport au corps de la bordure et non pas à sa saillie.
La base RBGBASEZ n'est pas adaptée à cette configuration, il est nécessaire d'utiliser la base RBGBASEZ70.



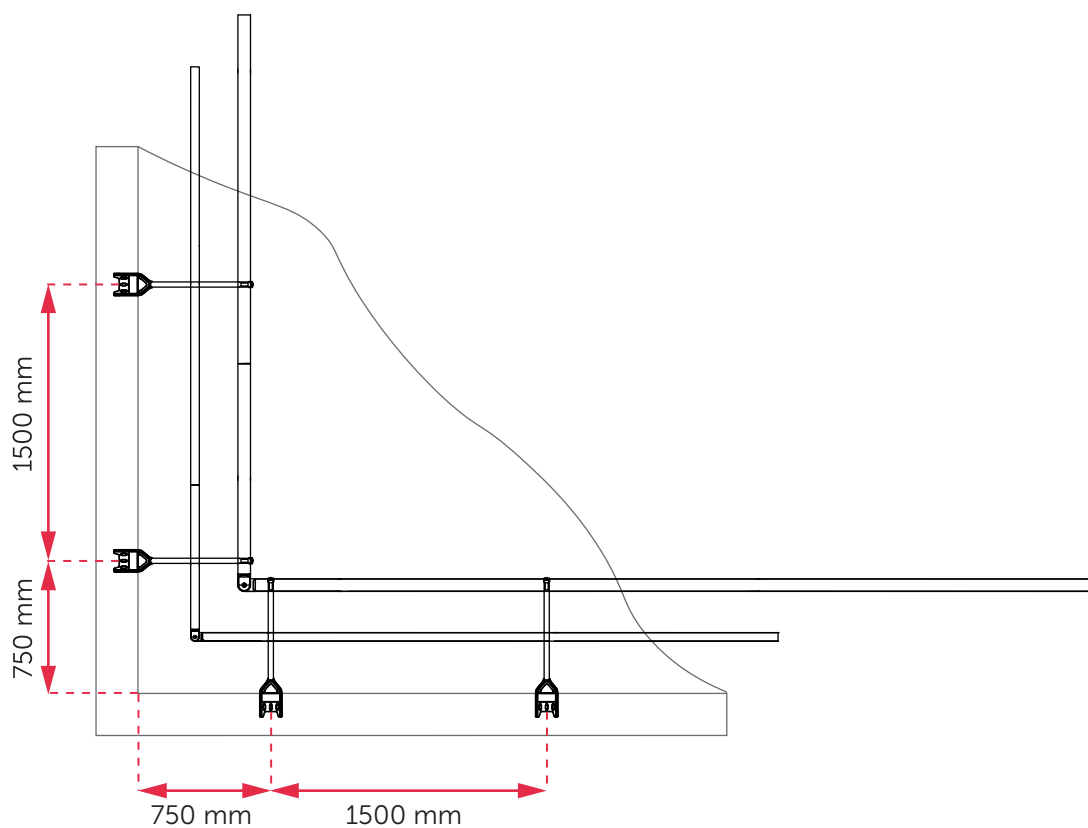
■ SYSTÈME

SYSTÈME DU GARDE-CORPS SOUS TOITURE AVEC BASE Z

MONTANTS DROITS



MONTANTS INCLINÉS

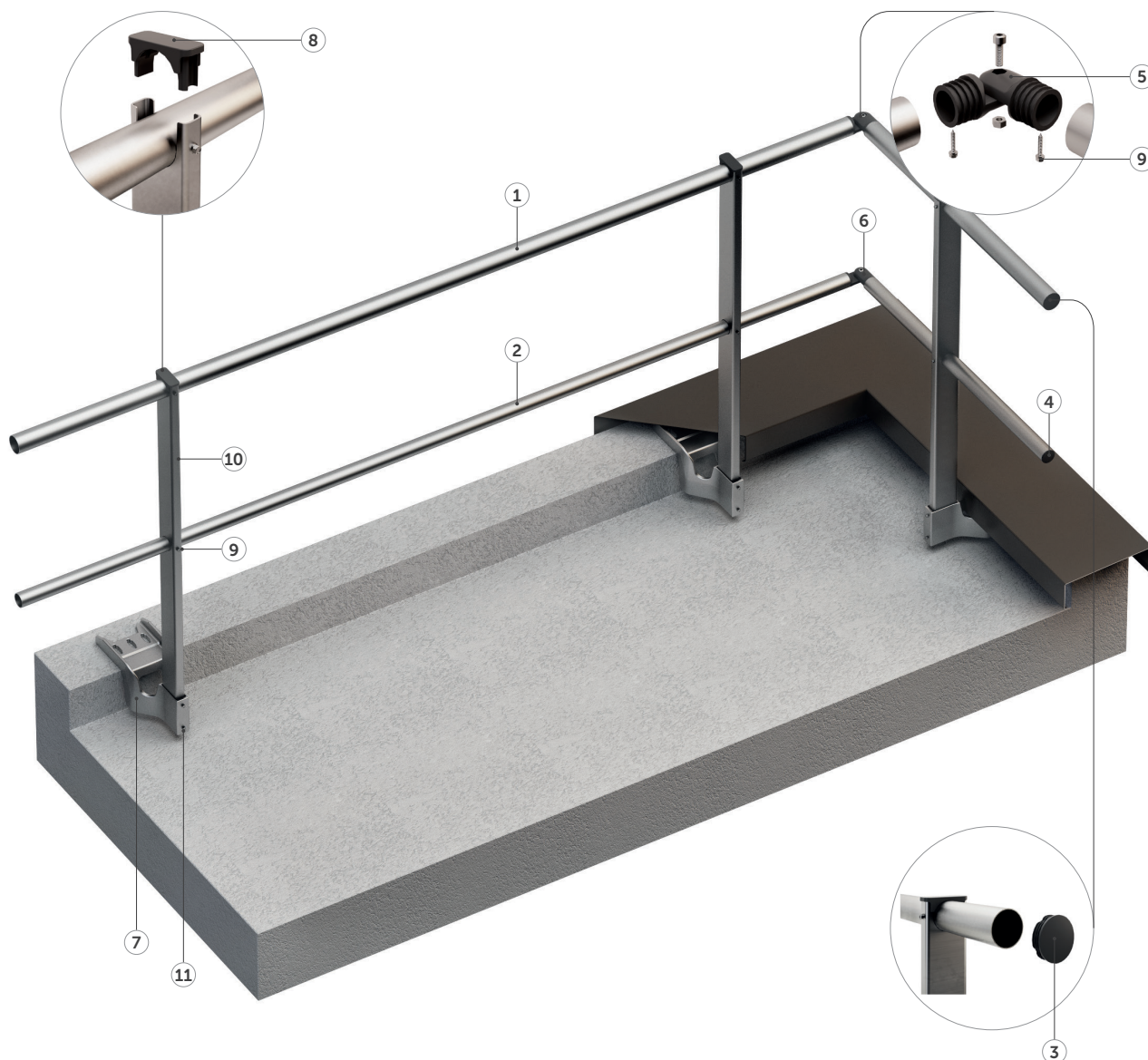


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GUARD Z

GARDE-CORPS FIXATION EN Z



CODE	description
1 RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm
2 RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm
3 RBGCAP45	bouchon pour lisse Ø45 mm
4 RBGCAP35	bouchon pour sous-lisse Ø35 mm
5 RBGCOR45	angle pour lisse Ø45 mm
6 RBGCOR35	angle pour sous-lisse Ø35 mm
5-6 RBGCORAL	coin en aluminium pour lisse et sous-lisse (alternatif à RBGCOR45/ RBGCOR35)
7 RBGBASEZ	base standard Z en aluminium pour mur périmétrique sans isolant GUARD Z avec vis sans tête incluses
8 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
9 RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX

CODE	description
RBGSUP110	montant droit H = 1105 mm cavité Ø45 mm
RBGSUP118	montant droit H = 1182 mm cavité Ø45 mm
10 RBGSUP115I	montant incliné H = 1157 mm cavité Ø45 mm
RBGSUP760WH NEW	montant droit hauteur 760 mm sans sous-lisse ; (bord périmétrique hauteur min. 600 mm)
CODE	description
11 RBGSCR810	vis sans tête M8 x 10 mm (pièce de rechange)

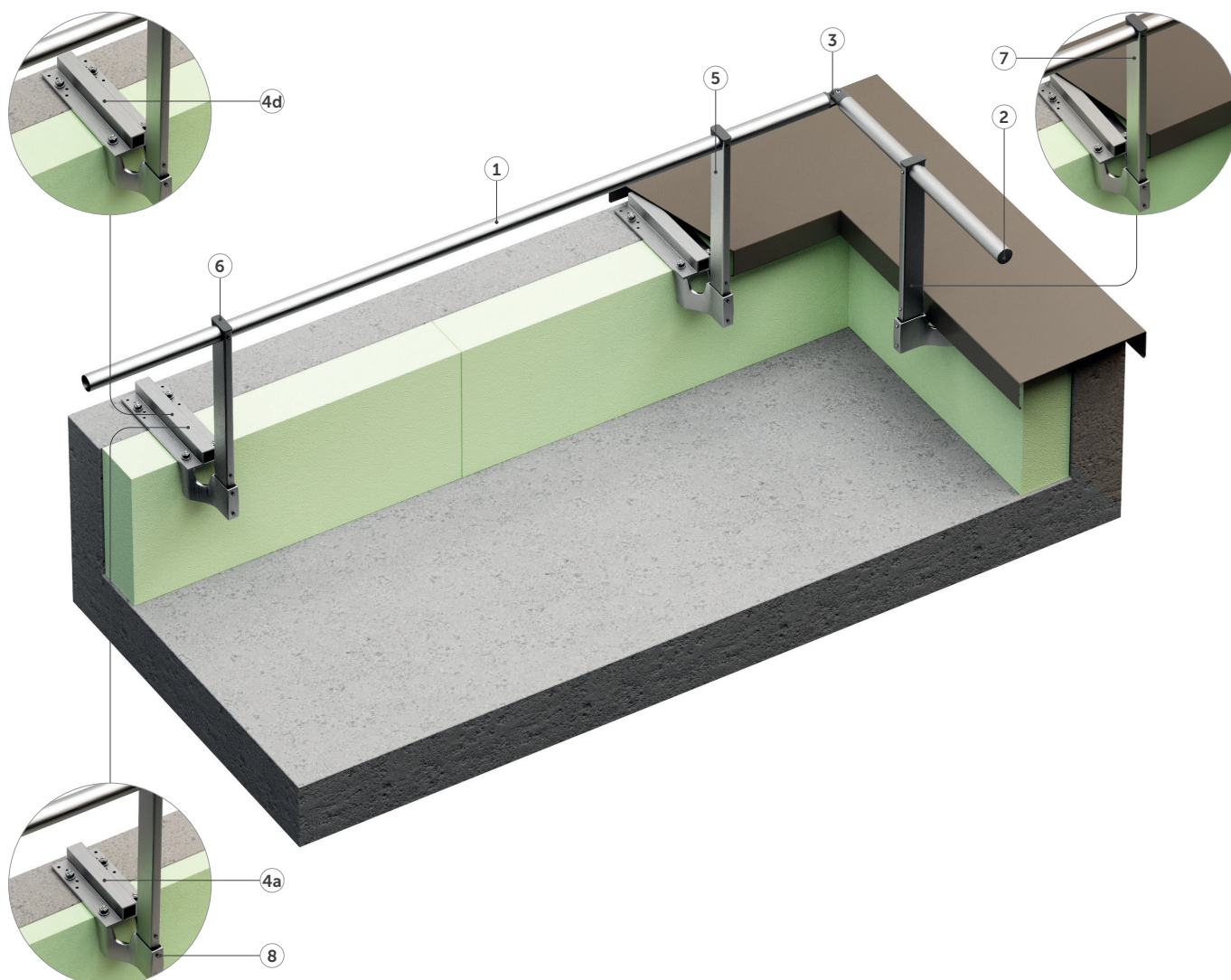
Pour fixation murale :

RBGWALL45	élément terminal pour lisse Ø45 mm
RBGWALL35	élément terminal pour sous-lisse ronde Ø35 mm
RBGWALLAL	élément terminal en aluminium pour lisse et sous-lisse

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GUARD Z

GARDE-CORPS FIXATION EN Z AVEC ISOLANT



CODE	description
1 RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm
2 RBGCAP45	bouchon pour lisse Ø45 mm
3 RBGCOR45	angle pour lisse Ø45 mm
a. RBGBASEZ70 NEW	base GUARD Z avec isolant épaisseur 70 mm
b. RBGBASEZ100 NEW	base GUARD Z avec isolant épaisseur 100 mm
c. RBGBASEZ130 NEW	base GUARD Z avec isolant épaisseur 130 mm
d. RBGBASEZ160 NEW	base GUARD Z avec isolant épaisseur 160 mm
RBGSUP760WH NEW	montant droit hauteur 760 mm sans sous-lisse ; (bord périmétrique hauteur min. 600 mm)
5 RBGSUP110	montant droit H = 1105 mm cavité Ø45 mm
RBGSUP118	montant droit H = 1182 mm cavité Ø45 mm
RBGSUP115I	montant incliné H = 1157 mm cavité Ø45 mm

CODE	description
6 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
7 RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX
CODE	description
8 RBGSCR810	vis sans tête M8 x 10 mm (pièce de rechange)

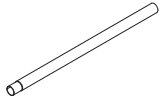
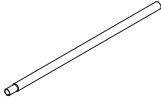
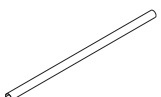
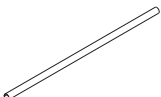
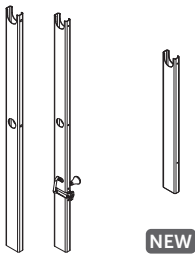
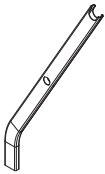
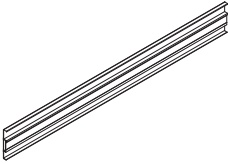
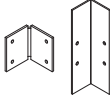
Pour fixation murale :

RBGWALL45	élément terminal pour lisse Ø45 mm
RBGWALLAL	élément terminal en aluminium pour lisse et sous-lisse

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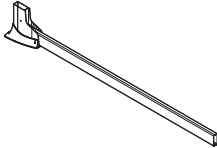
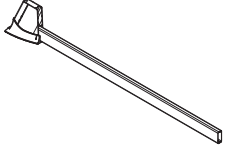
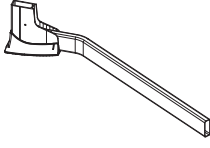
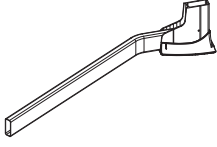
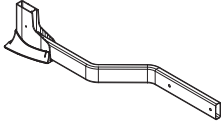
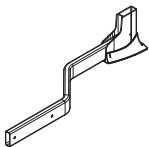
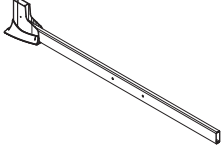
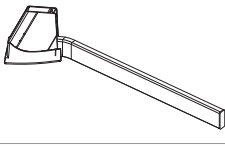
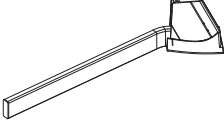
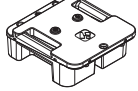
CODES ET DIMENSIONS

GROUPE	CODE	description	pcs.	
LISSES ET SOUS-LISSES	RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR45F	lisse sans bagues encastrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	sous-lisse sans bagues encastrables Ø35 mm L = 3000 mm	1	
	RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm	1	
MONTANTS	RBGSUP100	montant droit H = 1028 mm cavité Ø45 mm	1	
	RBGSUP110	montant droit H = 1105 mm cavité Ø45 mm	1	
	RBGSUP118	montant droit H = 1182 mm cavité Ø45 mm	1	
	RBGSUP110F	montant rabattable H = 1105 mm cavité Ø45 mm	1	
	RBGSUP100F	montant rabattable H = 1010 mm cavité Ø45 mm	1	
	RBGSUP130	montant droit H = 1300 mm cavité Ø45 mm	1	
	RBGSUP760WH NEW	montant droit hauteur 760 mm sans sous-lisse intermédiaire	1	
	RBGSUP115I	montant incliné H = 1157 mm cavité Ø45 mm	1	
PLINTHE GARDE-PIEDS ET ACCESSOIRES	RBGTB	plinthe garde-pieds 3000 x 150 x 19 mm	1	
	RBGTBJUN	raccord droit pour plinthe garde-pieds H = 150 mm	1	
	RBGTBCOR	jonction d'angle pour plinthe garde-pieds H = 150 mm	1	
	RBGTBCAP	bouchon pour plinthe garde-pieds H = 150 mm	1	
	RBGTBW	support pour plinthe garde-pieds H = 150 mm pour GUARD W	1	
	RBGTBH	support pour plinthe garde-pieds H = 150 mm	1	

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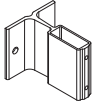
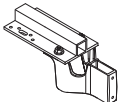
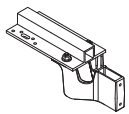
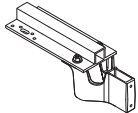
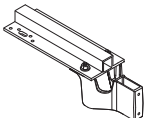
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CODES ET DIMENSIONS

GROUPE	CODE	description	pcs.	
BASES STANDARDS	RBGBASEW	base pour autoportant GUARD W droite avec pied d'appui	1	
	RBGBASEWI	base pour autoportant GUARD W inclinée avec pied d'appui	1	
	RBGBASEWFCR	pied d'appui courbé à droite à 25° pour angle	1	
	RBGBASEWFCL	pied d'appui courbé à gauche à 25° pour angle	1	
	RBGBASEWFR	pied d'appui avec coude à droite pour garde-corps rabattable	1	
	RBGBASEWFL	pied d'appui avec coude à gauche pour garde-corps rabattable	1	
	RBGBASEWF	base pour autoportant GUARD W avec trous	1	
	RBGBASEWIFCR NEW	pied d'appui pour montant incliné courbé à droite 25 °	1	
	RBGBASEWIFCL NEW	pied d'appui pour montant incliné courbé à gauche 25 °	1	
	RBGBASEWE	cale de blocage pour GUARD W (pièce de rechange)	1	
	RBGWEIGHT	contre-poids en plastique 12,5 kg pour GUARD W	3	
	RBGBASEV	plaque de base fixation murale GUARD V	1	

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CODES ET DIMENSIONS

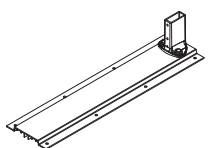
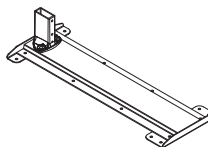
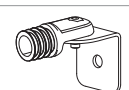
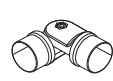
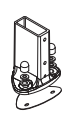
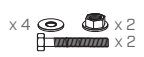
GROUPE	CODE	description	pcs.	
BASES STANDARDS	RBGBASEVD	plaque de base fixation murale saillante GUARD VD	1	
	RBGDIST	élément espaceur GUARD V-VD + 35 mm	1	
	RBGBASEH	plaque de base fixation horizontale peinte en gris GUARD H	1	
	RBGBASEZ	base Z aluminium standard pour mur périmétrique sans isolant GUARD Z	1	
	RBGBASEZ70 NEW	base GUARD Z avec isolant épaisseur 70 mm	1	
	RBGBASEZ100 NEW	base GUARD Z avec isolant épaisseur 100 mm	1	
	RBGBASEZ130 NEW	base GUARD Z avec isolant épaisseur 130 mm	1	
	RBGBASEZ160 NEW	base GUARD Z avec isolant épaisseur 160 mm	1	

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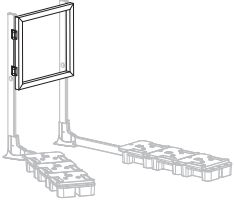
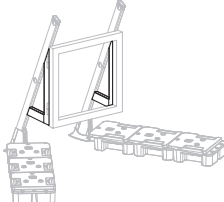
GROUPE	CODE	description	pcs.	
BASES POUR FIXATION SUR TÔLE BAC ACIER	RBGBASE250PA	plaque pour fixation sur tôle bac acier pas 250 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE333PA	plaque pour fixation sur tôle bac acier pas 333 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE250PE	plaque pour fixation sur tôle bac acier pas 250 mm, GUARD perpendiculaire aux nervures (sans vis)	1	
	RBGBASE333PE	plaque pour fixation sur tôle bac acier pas 333 mm, GUARD perpendiculaire aux nervures (sans vis)	1	
ACCESSOIRES	RBGCAP45	bouchon pour lisse Ø45 mm	1	
	RBGCAP35	bouchon pour sous-lisse Ø35 mm	1	
	RBGCOR45	angle pour lisse Ø45 mm	1	
	RBGCOR35	angle pour sous-lisse Ø35 mm	1	
	RBGWALL45	élément terminal pour lisse Ø45 mm	1	
	RBGWALL35	élément terminal pour sous-lisse Ø35 mm	1	
	RBGCORAL	coin en aluminium pour lisse	1	
	RBGWALLAL	élément terminal en aluminium pour lisse	1	
	RBGBASEHKIT	kit d'imperméabilisation pour base GUARD H	1	
	RBGWEDGE	coin de calage en plastique	1	
VIS DE FIXATION	RBGSCR4816	vis autoforeuses 4,8 x 16 mm INOX	25	
	RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX	25	
	RBGSCR4832	vis autoforeuses 4,8 x 32 mm INOX	25	
	RBGSCR4850	vis autoforeuses 4,8 x 50 mm INOX	25	
	RBGSCR627	vis autoforeuse pour tôle INOX 6 x 27 mm	25	
	RBGSCR810	vis sans tête M8 x 10 (pièce de rechange)	10	
	RBGSCRWAS	rondelle d'étanchéité	25	
	RBGBASEWFKIT	NEW kit pour union RBGBASEWFR et RBGBASEWFL	-	

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GROUPE	CODE	description	pcs.	
KIT PORTAILS DE SÉCURITÉ	RBGGATE600	porte de sécurité 500 mm de hauteur avec charnières montées L = 600 mm	1	
	RBGGATE1100	porte de sécurité 500 mm de hauteur avec charnières largeur L = 1100 mm	1	
	RBGGATEWISUP NEW	support pour portillon montant incliné	1	
MANUELS	RBGUARDHMAN	manuel pour GUARD H	1	
	RBGUARDVMAN	manuel pour GUARD V	1	
	RBGUARDMMAN	manuel pour GUARD M	1	
	RBGUARDZMAN	manuel pour GUARD Z	1	
	RBGUARDWMAN	manuel pour GUARD W	1	

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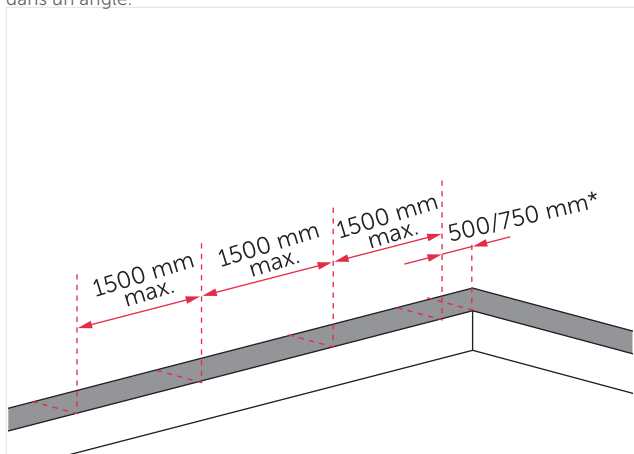
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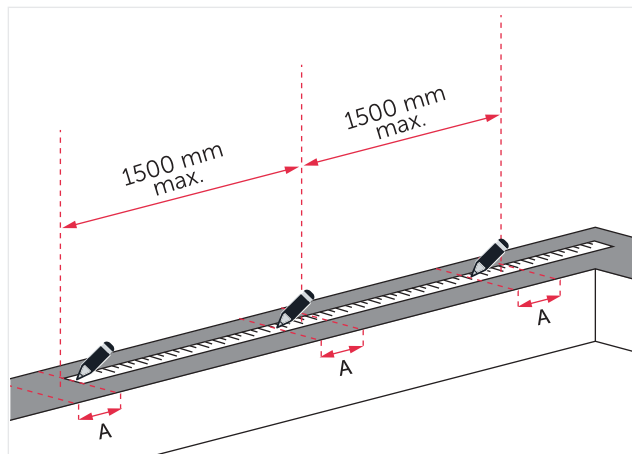
INSTALLATION

MONTAGE DU GARDE-CORPS SOUS TOITURE AVEC BASE RBGBASEZ

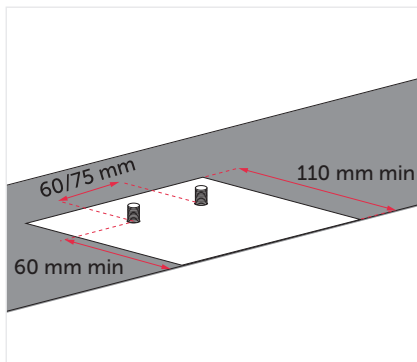
Le montage du garde-corps sous toiture (Base RBGBASEZ) exige un minimum de deux personnes. IL EST préférable de commencer l'installation dans un angle.



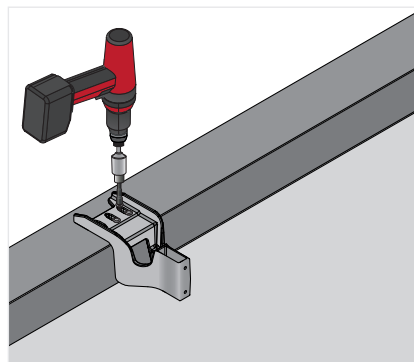
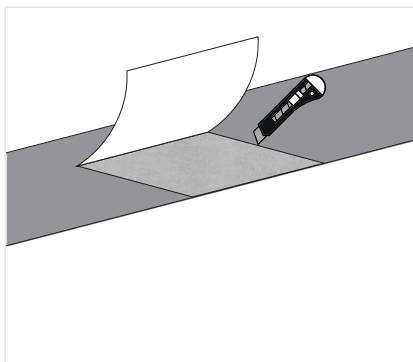
1 - Faire un signe tous les 1500 mm au maximum. La dimension entre le montant et l'arête de la bordure doit être de 500 mm pour le garde-corps droit et de 750 mm pour le garde-corps incliné.



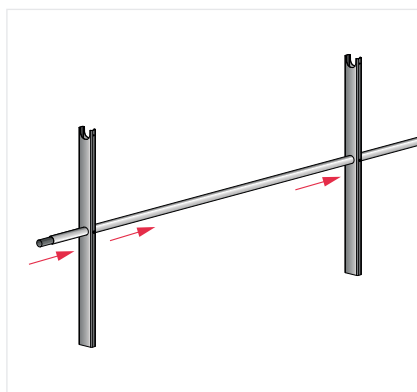
2 - Pour la disposition des bases, utiliser une ficelle pour marquer les dimensions d'entraxe A = 60 mm pour la base RBGBASEZ, A = 70 mm pour les bases RBGBASEZ70, A = 100 mm pour RBGBASE100, A = 130 mm pour RBGBASEZ130 et A = 160 mm pour RBGBASEZ160, ou bien selon le plan de disposition.



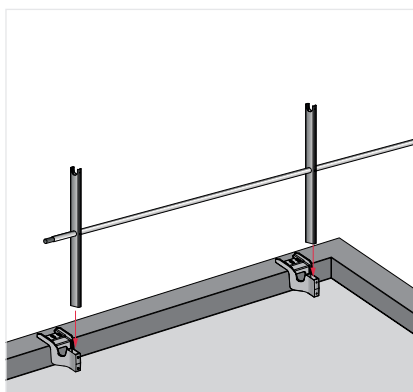
3 - Les bases Z doivent être directement fixées sur la bordure. Si l'imperméabilisation la recouvre, couper à l'emplacement de chaque base Z.



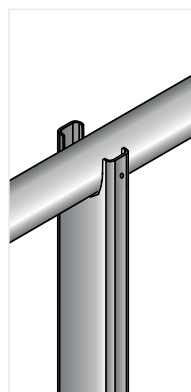
4 - Fixer la base sur la bordure selon le support (cf page 9)



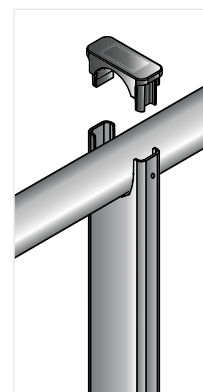
5 - Insérer une sous-lisse dans 2 montants.



6 - Insérer le tout dans les bases.

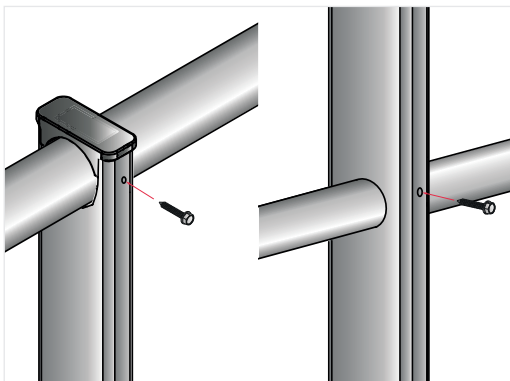


7 - Positionner la lisse sur les montants.

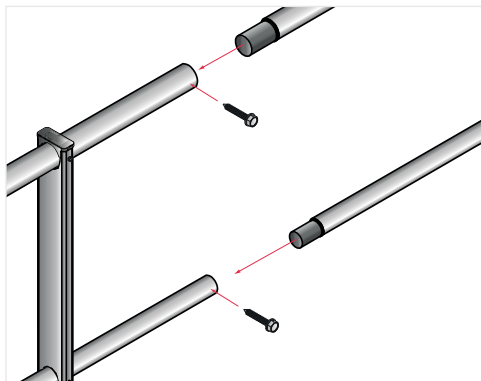


8 - Fermer la partie supérieure du montant.

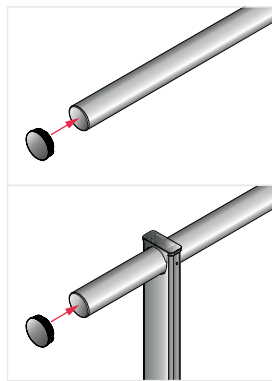
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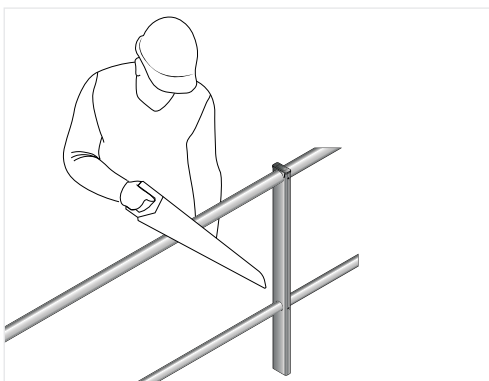
9 - Visser les vis 4,8 x 25 sur le montant au niveau de la lisse et de la sous-lisse.



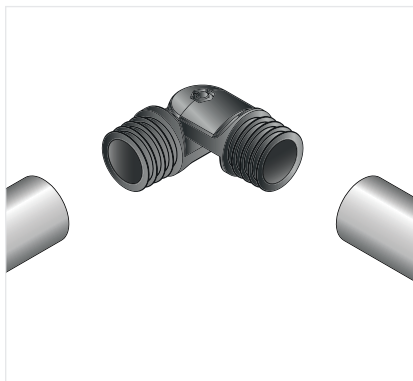
10 - Insérer les lisses et les sous-lisses des sections déjà montées et fixées avec des vis 4,8, x 16.



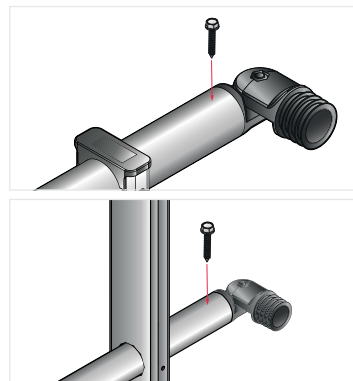
14 - Insérer les bouchons ou les éléments terminaux muraux sur les lisses ou les sous-lisses.



13 - Adapter la dernière section en coupant la partie excédante.

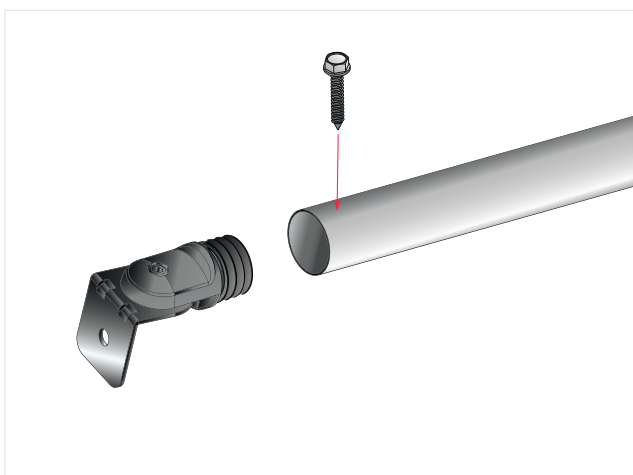


11 - Insérer les angles des lisses et des sous-lisses.

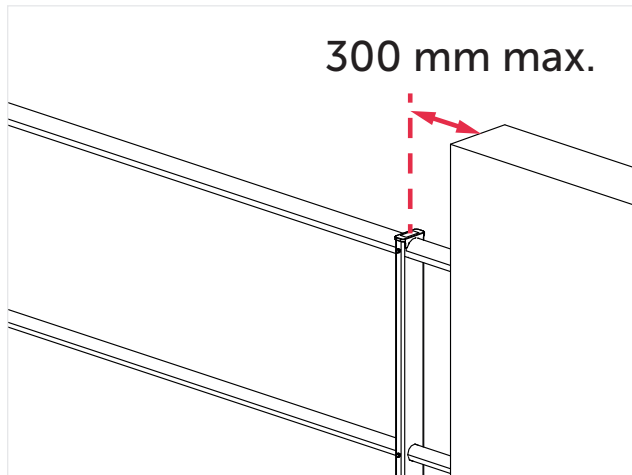


12 - Fixer les angles avec des vis autoforeuses 4,8 x 25.

MONTAGE DES ÉLÉMENTS DE FIXATION MURAUX



1 - Fixer les angles avec des vis autoforeuses 4,8 x 25.



2 - Respecter l'entraxe maximal de 300 mm entre le montant et le mur.

