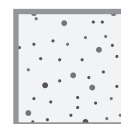


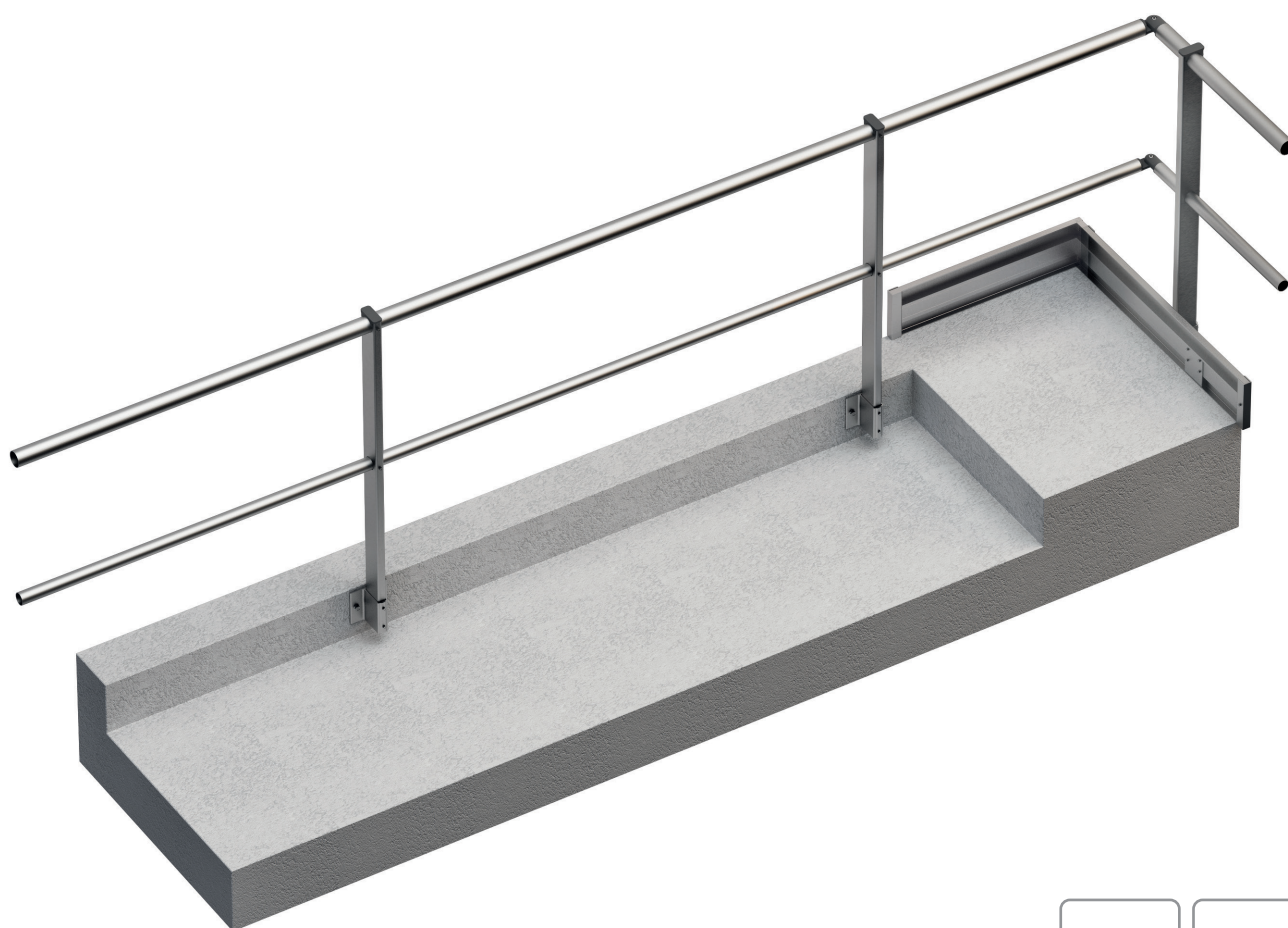
GUARD V - VD INSTALLATION MANUAL



C20/25



GL24H



EN
ISO 14122-3

NTC
2018

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MANUALE DI INSTALLAZIONE

DEFINIZIONE

Il parapetto GUARD con fissaggio verticale e con fissaggio verticale distanziato 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 a livello dei corrimano e dei correnti intermedi. Il parapetto GUARD a fissaggio verticale può essere fissato all'interno o all'esterno della parete.

NORMATIVE

Il parapetto GUARD a fissaggio verticale e verticale distanziato 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 a fissaggio verticale e verticale distanziato hanno superato con successo i test e le prove statiche e dinamiche richieste dalle normative EN ISO 14122-3 e NF EN 85-015. Certificati di conformità: APAVE AT5890779-1 per il parapetto GUARD con fissaggio verticale e n. AT5791764-4 e n. AT5791764-5 per il parapetto GUARD con fissaggio verticale distanziato, sia per la versione dritta che per quella inclinata.

RICHIAMO DELLE 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 fermapiiede deve essere inferiore o uguale a 500 mm.
- La tavola fermapiiede deve avere un'altezza minima di 100 mm. Se esiste uno spazio vuoto tra il fermapiiede 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.

- Il corrimano e i correnti intermedi sono dotati di estremità affusolate pensate per essere innestate l'una nell'altra.
- Assemblaggio con viti HC e viti autofilettanti fornite.
- Tavola fermapiiede obbligatoria in caso di fissaggio a parete e con cordolo minore di 100 mm.

USO - MANUTENZIONE

- 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 le istruzioni 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.

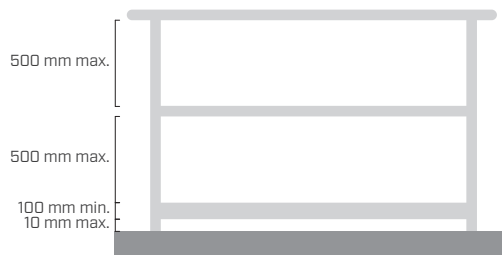
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PARAPETTO SENZA TAVOLA FERMAPIEDE



con cordolo maggiore di 150 mm

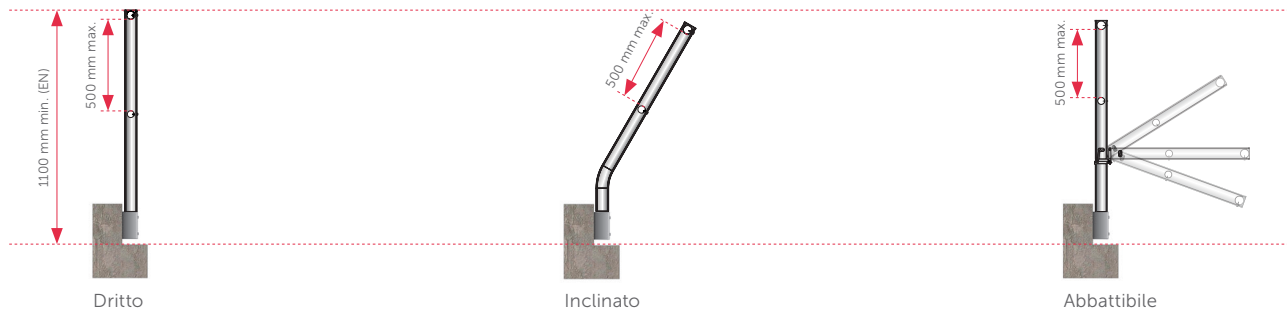
PARAPETTO CON TAVOLA FERMAPIEDE



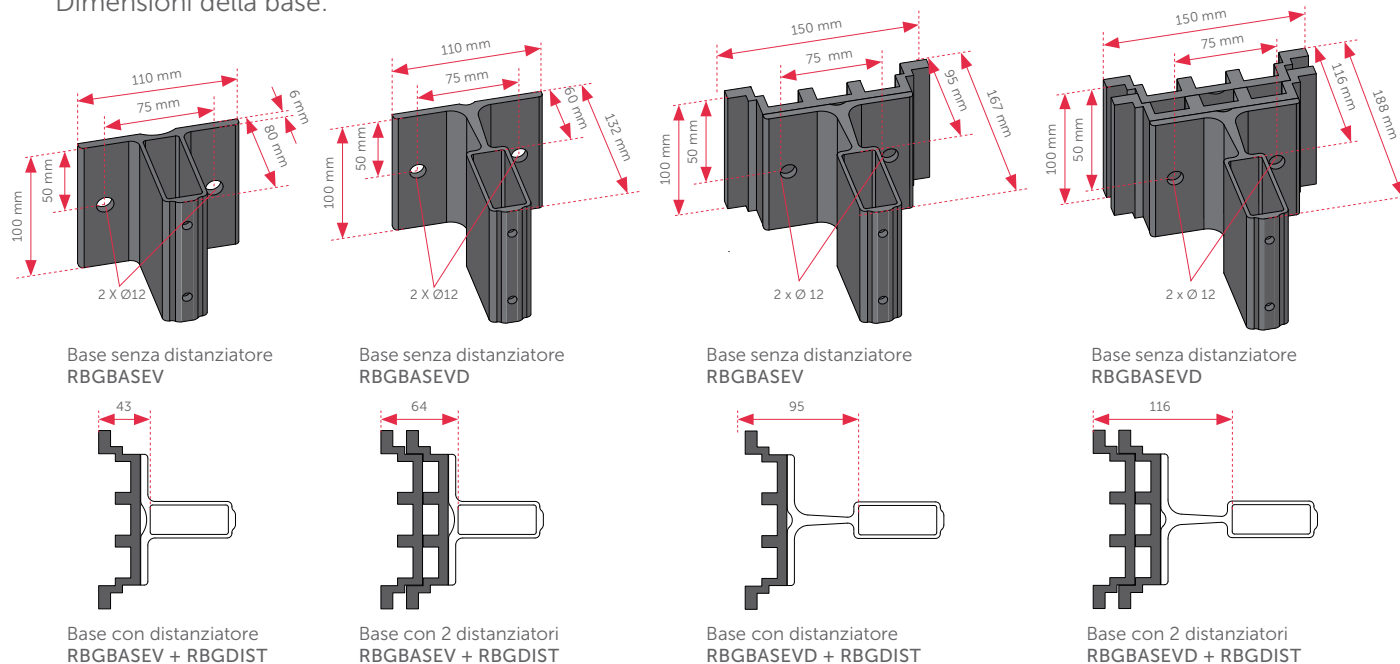
senza cordolo o inferiore a 150 mm

DIMENSIONI

Dimensioni dei montanti:

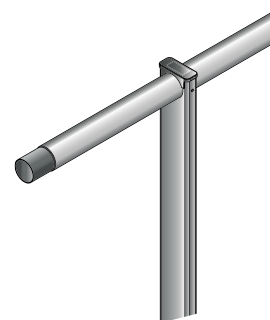


Dimensioni della base:

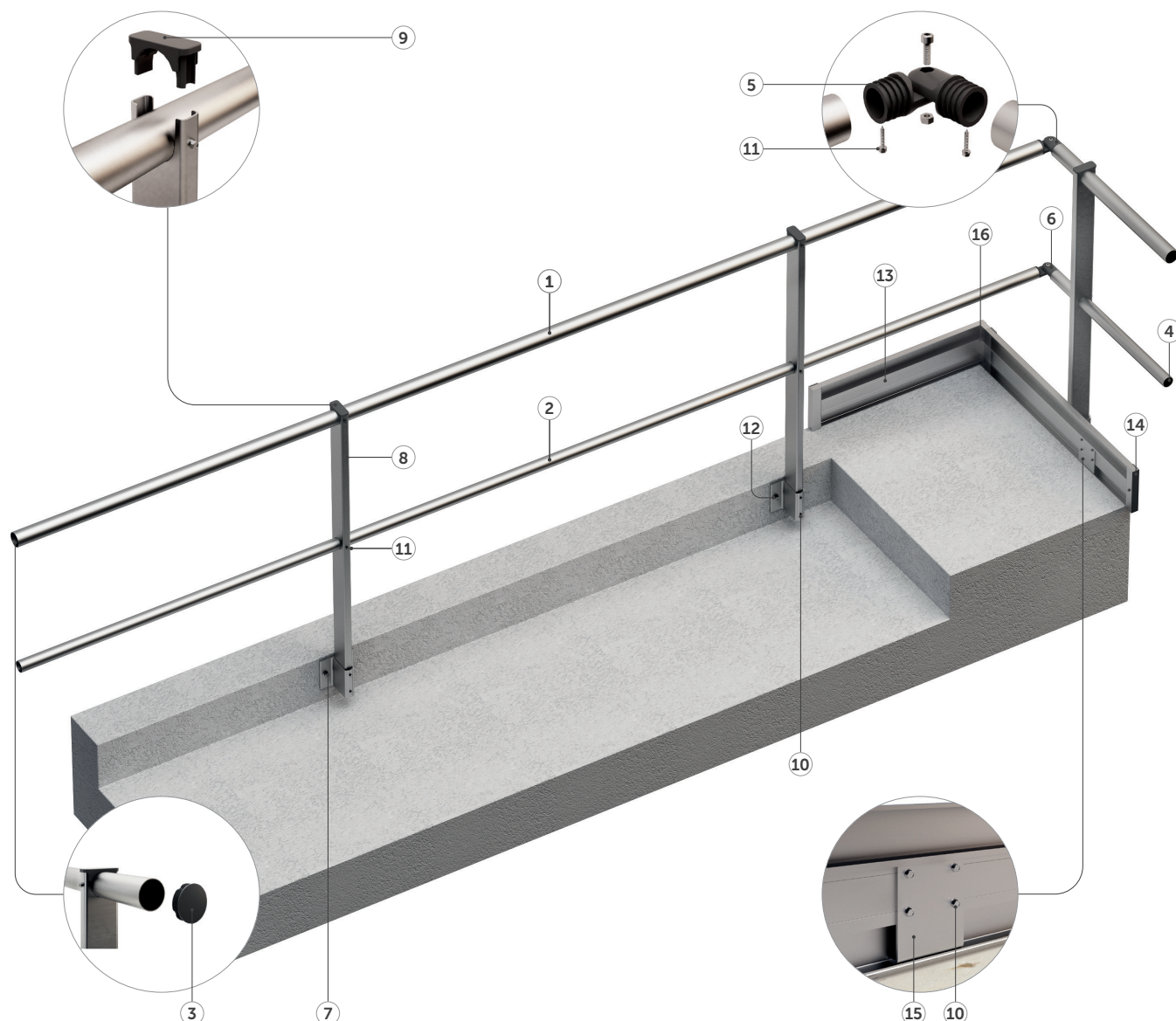


MONTAGGIO OTTIMIZZATO

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



GUARD V/GUARD VD **PARAPETTO FISSAGGIO VERTICALE E VERTICALE DISTANZIATO**



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 RBGBASEV	piastra di base fissaggio a parete GUARD V
7 RBGBASEVD	piastra di base fissaggio a muro sporgente GUARD VD
RBGSUP118	montante dritto H = 1182 mm incavo Ø45 mm
RBGSUP130	montante dritto H = 1300 mm incavo Ø45 mm
8 RBGSUP115I	montante inclinato H = 1157 mm incavo Ø45 mm
RBGSUP760WH NEW	montante dritto altezza 760 mm senza corrente intermedio; (cordolo perimetrale altezza min. 600 mm)

CODICE	descrizione
9 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
CODICE	descrizione
10 RBGSCR4816	vite autoforante 4,8 x 16 mm INOX
11 RBGSCR4825	vite autoforante 4,8 x 25 mm INOX
12 RBGSCR4832	vite autoforante 4,8 x 32 mm INOX
13 RBGTB	tavola fermapiEDE 3000 x 150 x 19 mm
14 RBGTBCAP	tappo per tavola fermapiEDE H = 150 mm
15 RBGTBJUN	connettore dritto tavola fermapiEDE H = 150
16 RBGTBCOR	rinvio d'angolo tavola fermapiEDE H = 150 mm
RBGDIST	elemento distanziatore GUARD V-VD + 35 mm

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

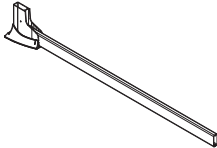
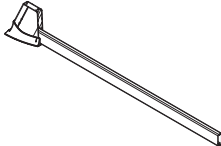
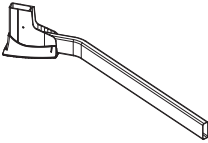
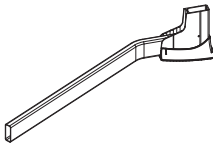
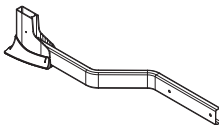
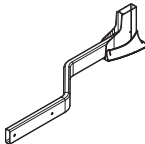
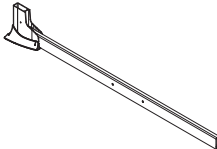
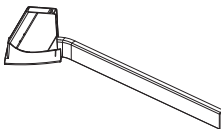
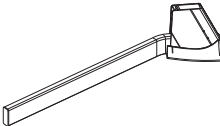
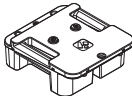
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GRUPPO	CODICE	descrizione	pz.	
CORRIMANI E CORRENTI INTERMEDI	RBGBAR45	corrimano Ø45 mm con ghiere incassabili L = 3000 mm	1	
	RBGBAR35	corrente intermedio Ø35 con ghiere incassabili L = 3000 mm	1	
	RBGBAR45F	corrimano senza ghiere incassabili Ø45 mm L = 3000 mm	1	
	RBGBAR35F	corrente intermedio senza senza ghiere 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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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	

GUARD | componenti

CODICI E DIMENSIONI

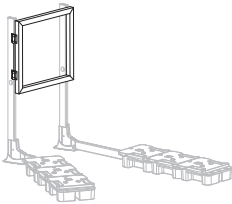
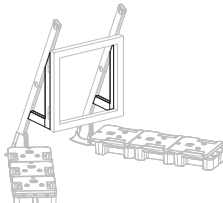
GRUPPO	CODICE	descrizione	pz.	
BASI PER FISSAGGIO SU LAMIERA GRECATA	RBGBASE250PA	piastra per fissaggio a lamiera grecate passo 250 mm, GUARD parallelo alle greche (escluse viti)	1	
	RBGBASE333PA	piastra per fissaggio a lamiera grecate passo 333 mm, GUARD parallelo alle greche (escluse viti)	1	
	RBGBASE250PE	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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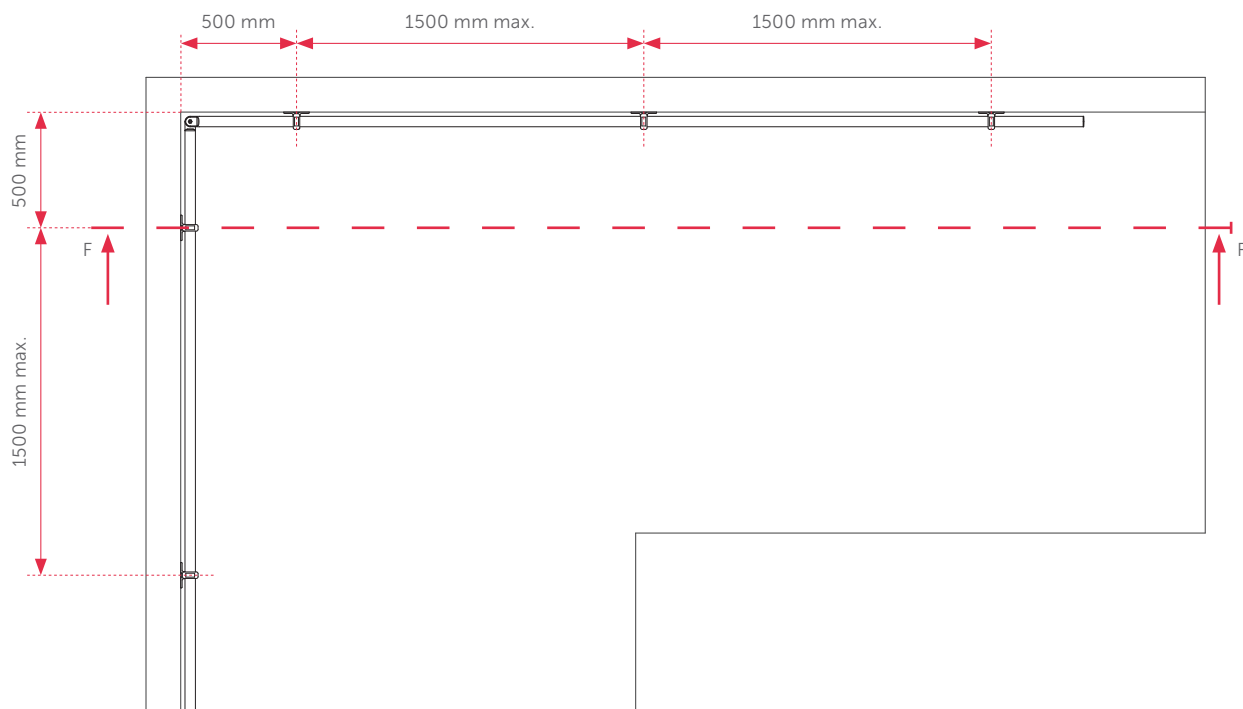
GUARD | componenti

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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■ SCHEMA DI MONTAGGIO DEL PARAPETTO (EN 14122-3)



NOTA

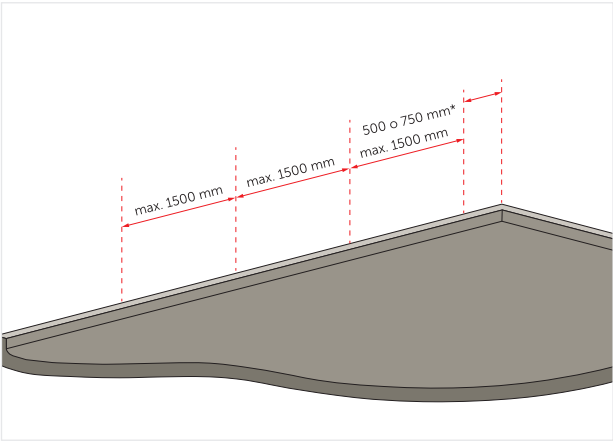
* Per il parapetto inclinato l'interasse tra il montante e il muro perimetrale è di 750 mm max.
NTC 2018: l'interasse max. per l'NTC 2018 è 1332 mm per il montante dritto e 1000 mm per il montante inclinato.

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INSTALLAZIONE

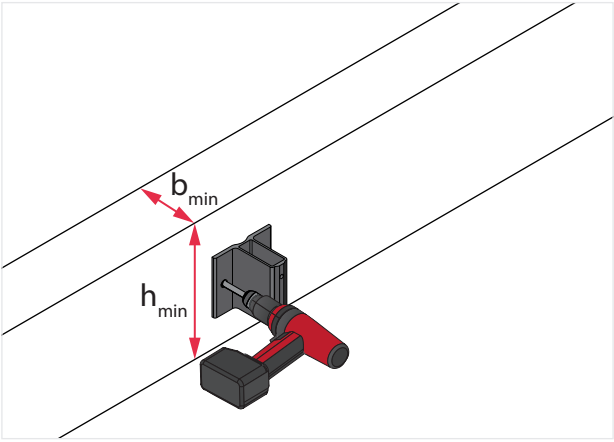
MONTAGGIO DEL PARAPETTO FISSAGGIO A PARETE GUARD

Il montaggio del parapetto autoportante GUARD richiede almeno due persone.
È preferibile cominciare l'installazione da dove si trova un angolo.



1 - Tracciare un punto di riferimento ogni 1500 mm al massimo.

* la distanza tra il montante e il bordo del cordolo deve essere di 500 mm per il parapetto dritto e di 750 mm per il parapetto inclinato.



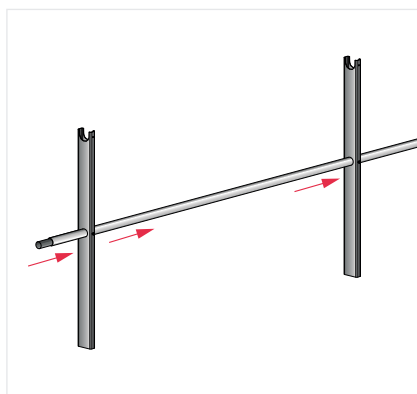
2 - Seguire le raccomandazioni per il fissaggio della base ad una distanza minima dal bordo del cordolo.

GUARD V		Altezza montante 1180 mm carico sul fissaggio 797 dN		Altezza montante 1010 mm carico sul fissaggio 597 dN		Altezza montante 760 mm carico sul fissaggio 429 dN	
		h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]
CLS NON FESSURATO 	VIN-FIX 5.8 barra M10 	150	180	120	155	100	140
	SKR CE 10x80 Acciaio zincato 					120	110
	AB1 A4 10x92 			150	120	150	120
LEGNO 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

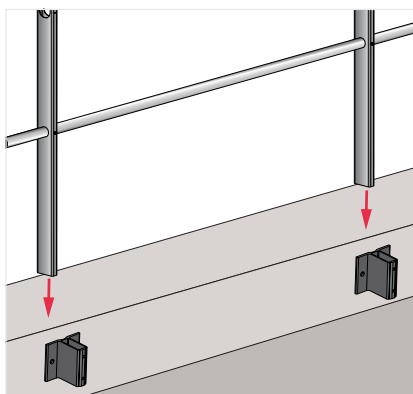
Per le distanze minime e la modalità di posa attenersi alle istruzioni originali del fabbricante del fissaggio

* n.1 cartuccia VIN-FIX per 20 fissaggi; utilizzabile con pistola FLY. Si prega di consultare le schede tecniche degli ancoranti sul sito www.rothoblaas.it

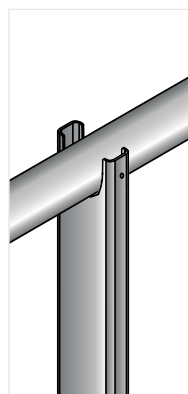
INSTALLAZIONE



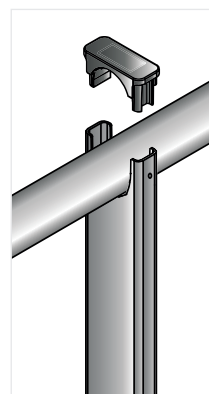
3 - Inserire un corrente intermedio in 2 montanti.



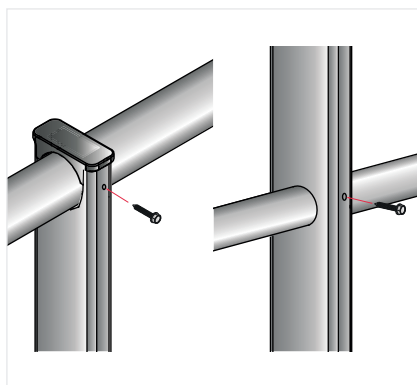
4 - Inserire il tutto nelle basi.



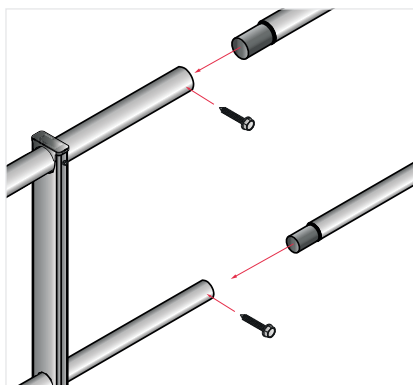
5 - Posizionare il corrimano sui montanti.



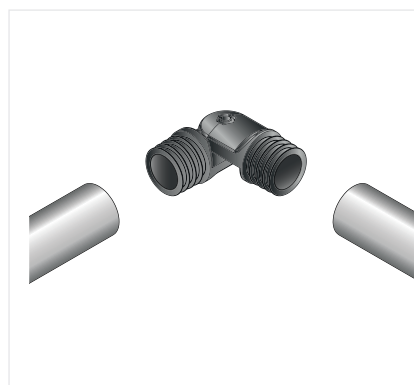
6 - Chiudere la parte superiore del montante.



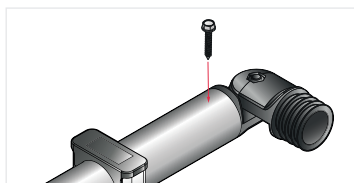
7 - Avvitare le viti autoforanti 4,8 x 25 sul montante a livello del corrimano e del corrente intermedio.



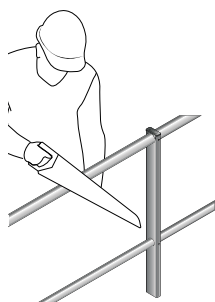
8 - Inserire i corrimani e i correnti intermedi delle sezioni già montate e fissate con viti 4,8 x 16.



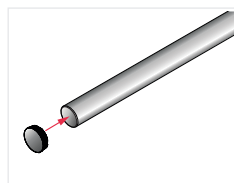
9 - Inserire gli angoli dei corrimani e dei correnti intermedi.



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



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



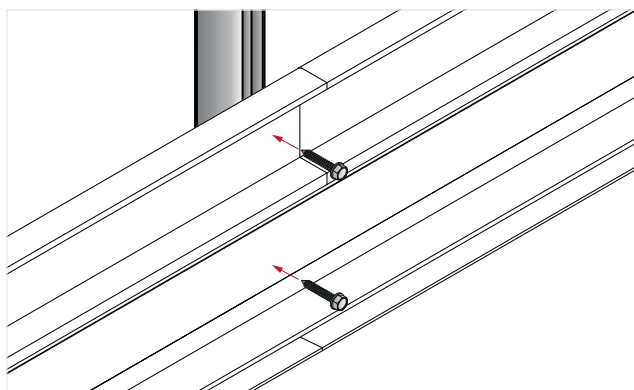
12 - Inserire i tappi o le terminazioni a muro nei corrimani o correnti intermedi.



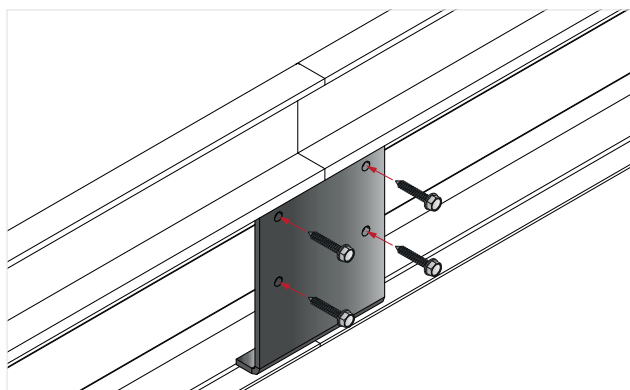
13 - Fissare gli angoli con viti autoforanti 4,8 x 25.

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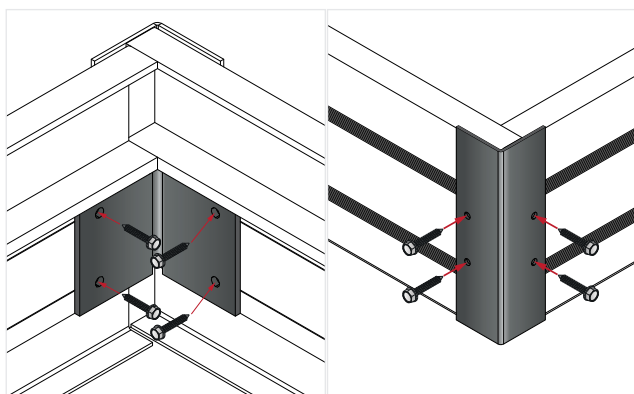
FASSAGGIO DELLA TAVOLA FERMAPIEDE



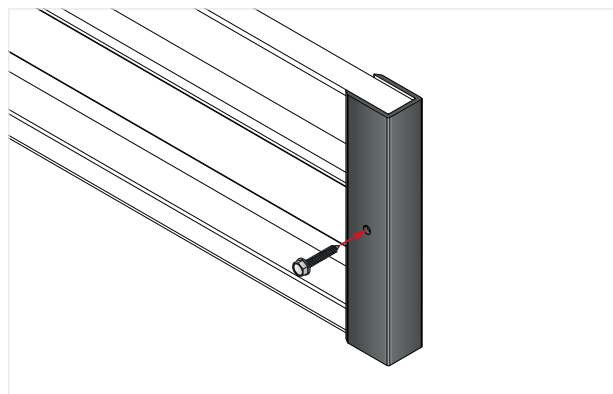
1 - Fissare la tavola fermapiEDE al montante con 2 viti 4,8 x 25.



2 - Fissare i profili delle tavole fermapiEDE tra loro con i connettori e 4 viti autoforanti 4,8 x 16.



3 - Per gli angoli, fissare i connettori interni ed esterni con 8 viti autoforanti 4,8 x 16.



4 - Infine, fissare i tappi della tavola fermapiEDE con 1 vite autoforante 4,8 x 16.

INSTALLATIONSANLEITUNG

DEFINITION

Das Geländer GUARD mit vertikaler Befestigung und mit beabstandeter vertikaler Befestigung 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 Zwischenläufe eine schnelle und einfache Montage. Das vertikal befestigte Geländer GUARD kann innen oder außen an der Wand befestigt werden.

NORMEN

Das Geländer GUARD mit vertikaler und beabstandeter vertikaler Befestigung 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 mit vertikaler und beabstandeter vertikaler Befestigung haben die statischen und dynamischen Tests und Prüfungen nach EN ISO 14122-3 und NF EN 85-015 erfolgreich bestanden. Konformitätserklärungen: APAVE AT5890779-1 für das Geländer GUARD mit vertikaler Befestigung und AT5791764-4 sowie AT5791764-5 für das Geländer GUARD mit beabstandeter vertikaler Befestigung sowohl in der geraden als auch geneigten Version.

VERWEIS AUF VERORDNUNGEN

- 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 Aufkan-

tung.

- Max. Achsabstand zwischen den Pfosten: 1500 mm.
- Winkel für Handlauf und Mittellauf mit Einrastung verstellbar.
- Der Handlauf und die Zwischenläufe haben sich verjüngende Enden, die ineinander gesteckt werden können.
- Montage mit HC-Schrauben und selbstschneidenden Schrauben im Lieferumfang.
- Obligatorische Fußleiste bei Wandbefestigung und bei Aufkantung unter 100 mm.

VERWENDUNG - WARTUNG

- 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 Schutzeinrichtung, 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

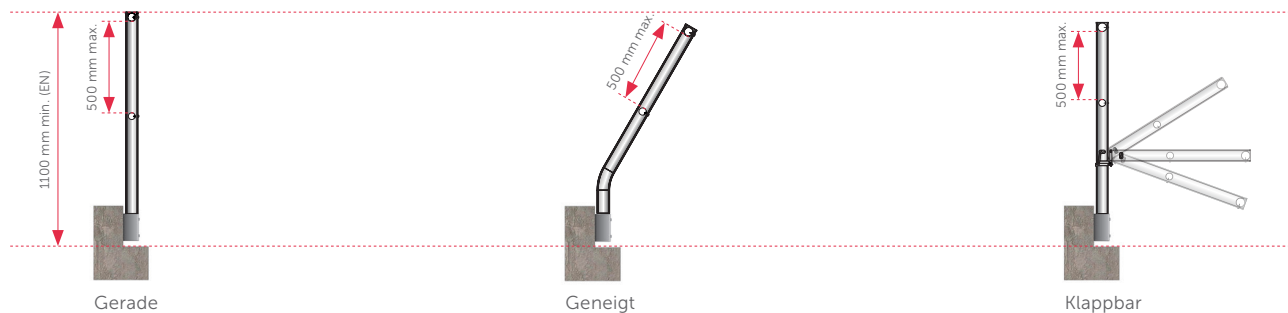
GELÄNDER MIT FUSSLEISTE



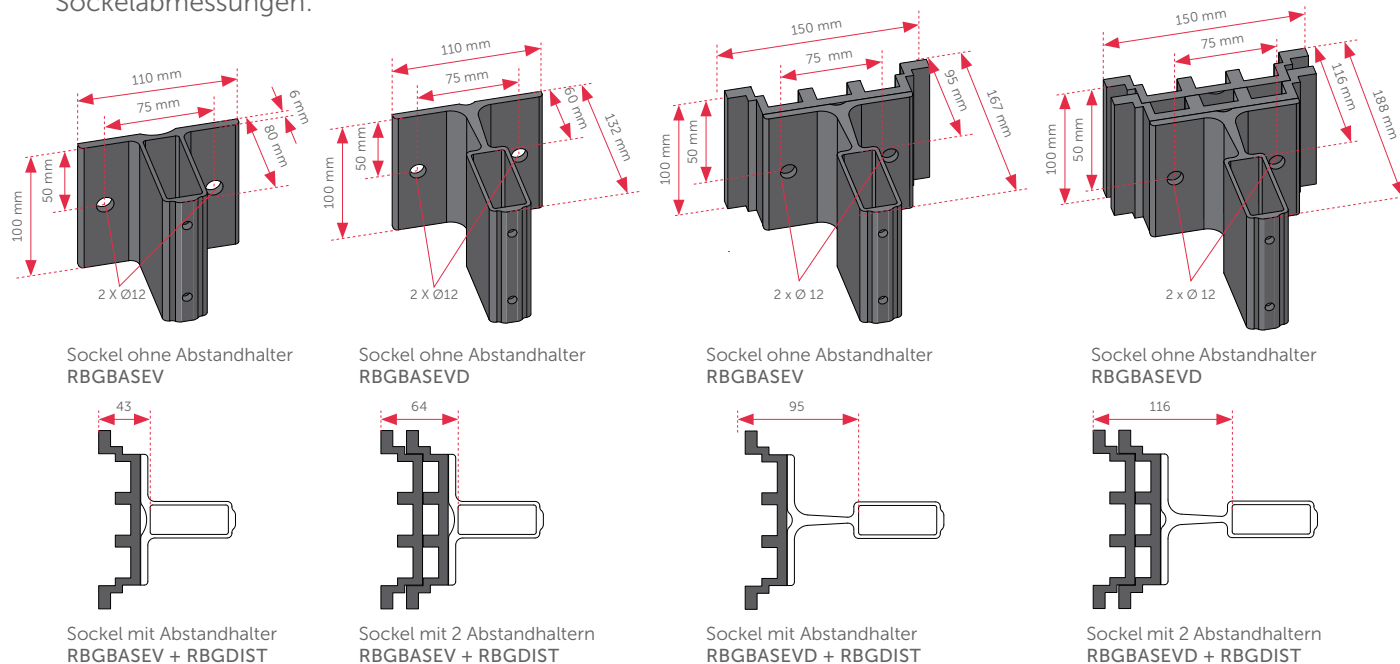
ohne Attika oder unter 150 mm

ABMESSUNGEN

Abmessungen der Pfosten:

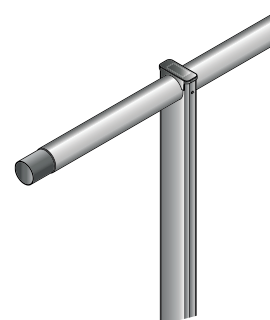


Sockelabmessungen:



■ OPTIMIERTE MONTAGE

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



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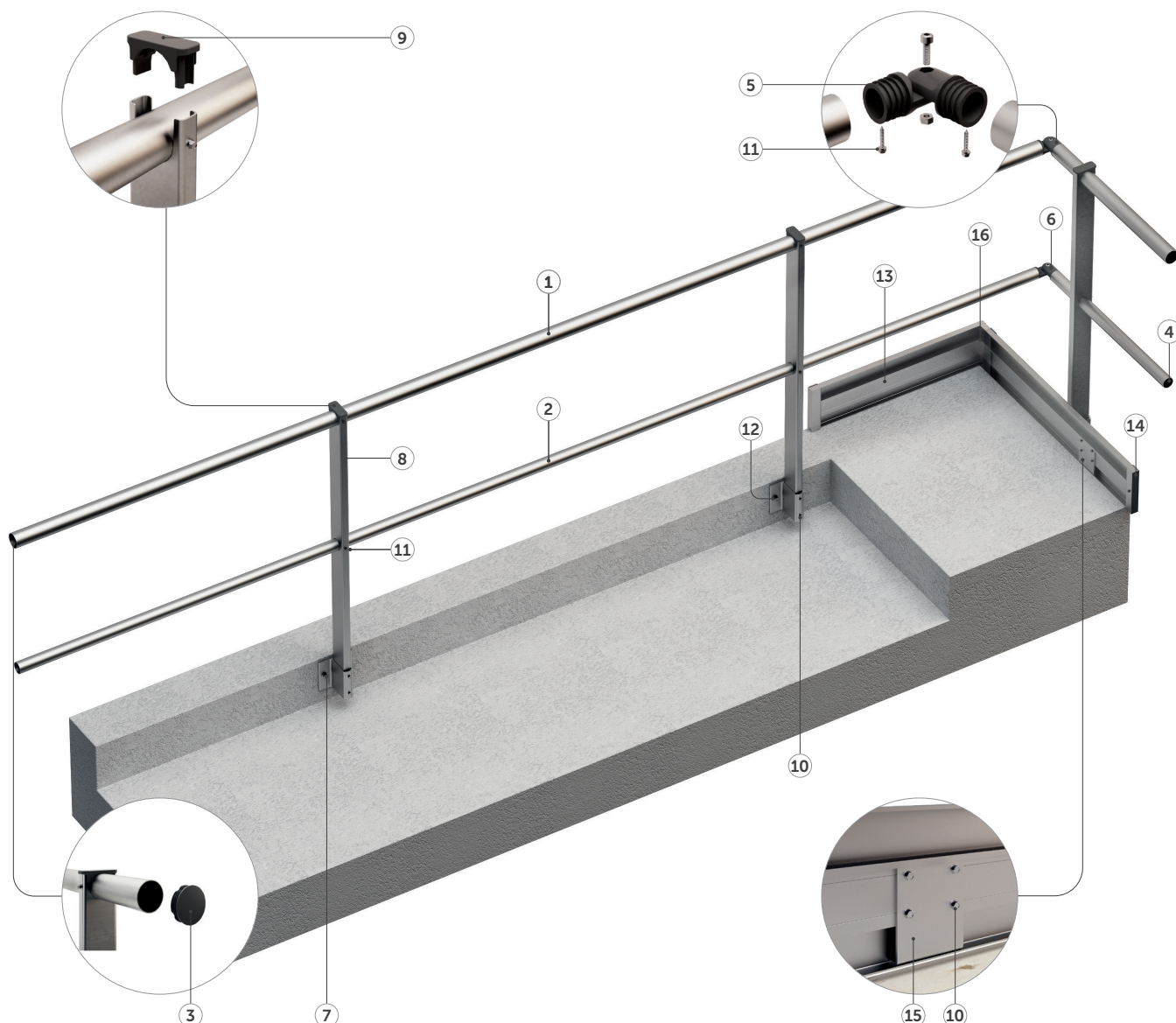
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■ GUARD V/GUARD VD **GELÄNDER MIT VERTIKALER UND BEABSTANDET VERTIKALER BEFESTIGUNG**

EN
14122-3:
2016

NTC
2018

NF
E85-015:
2019



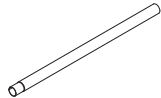
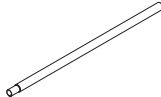
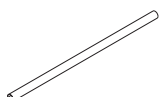
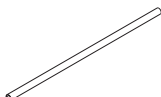
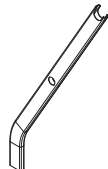
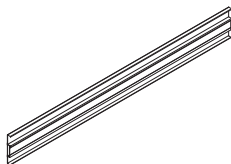
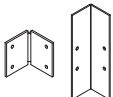
ART.-NR.	Beschreibung
1 RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm
2 RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm
3 RBGCAP45	Kappe für Handlauf Ø45 mm
4 RBGCAP35	Kappe für Mittellauf Ø35 mm
5 RBGCOR45	Winkelstück für Handlauf Ø45 mm
6 RBGCOR35	Winkelstück für Mittellauf Ø35 mm
5-6 RBGCORAL	Winkelstück aus Aluminium für Handlauf und Mittellauf (alternativ zu RBGCOR45 / RBGCOR35)
RBGBASEV	Grundplatte für Wandbefestigung GUARD V
7 RBGBASEVD	Grundplatte für Befestigung an Attikawand GUARD VD
RBGSUP118	Gerader Pfosten H = 1182 mm mit Aufnahme Ø45 mm
RBGSUP130	Gerader Pfosten H = 1300 mm mit Aufnahme Ø45 mm
8 RBGSUP115I	Geneigter Pfosten H = 1157 mm mit Aufnahme Ø45 mm
RBGSUP760WH NEW	gerader Pfosten Höhe 760 mm ohne Mittellauf; (Attika- höhe min. 600 mm)

ART.-NR.	Beschreibung
9 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
ART.-NR.	Beschreibung
10 RBGSCR4816	Selbstbohrende Schraube 4,8 x 16 mm Edelstahl
11 RBGSCR4825	Selbstbohrende Schraube 4,8 x 25 mm Edelstahl
12 RBGSCR4832	Selbstbohrende Schraube 4,8 x 32 mm Edelstahl
13 RBGTB	Fußleiste 3000 x 150 x 19 mm
14 RBGTBCAP	Kappe für Fußleiste H = 150 mm
15 RBGTBJUN	Gerader Verbinder Fußleiste H = 150
16 RBGTBCOR	Winkelstück Fußleiste H = 150 mm
RBGDIST	Abstandhalter GUARD V-VD + 35 mm
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 | Komponenten

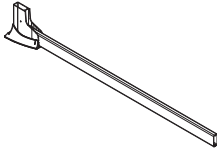
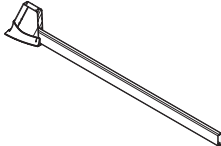
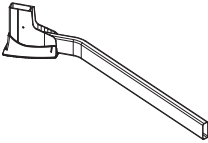
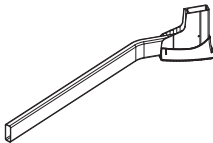
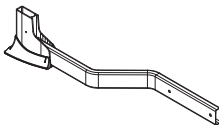
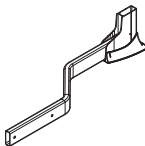
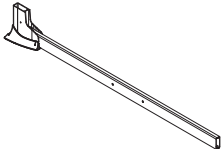
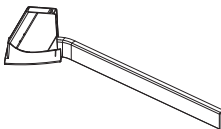
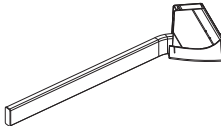
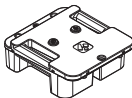
ARTIKELNUMMERN UND ABMESSUNGEN

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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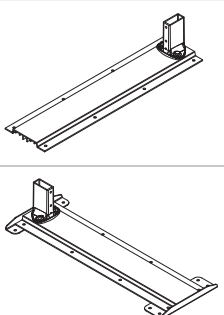
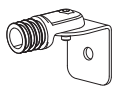
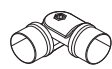
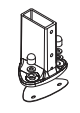
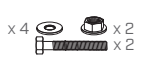
ARTIKELNUMMERN UND ABMESSUNGEN

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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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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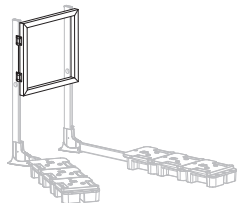
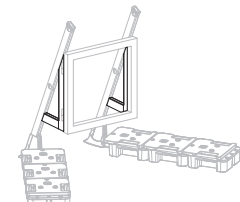
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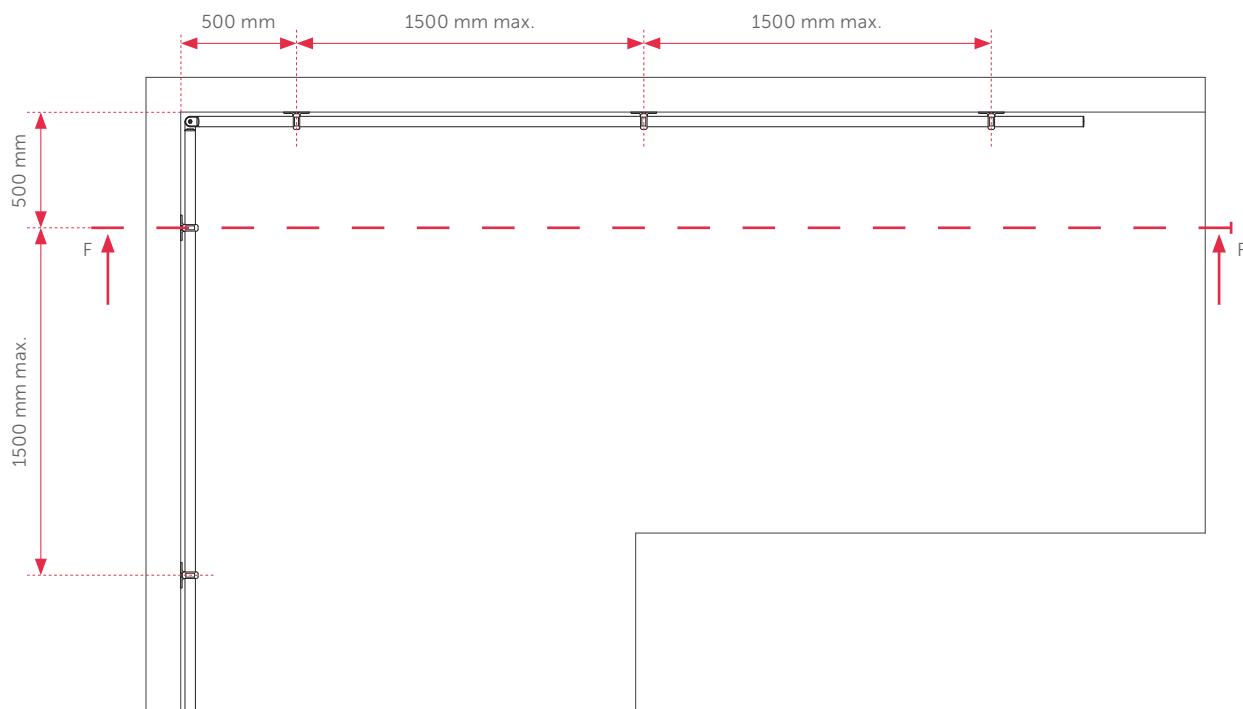
GUARD | Komponenten

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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■ SCHUTZGELÄNDER-MONTAGEPLAN (EN 14122-3)



ANMERKUNG

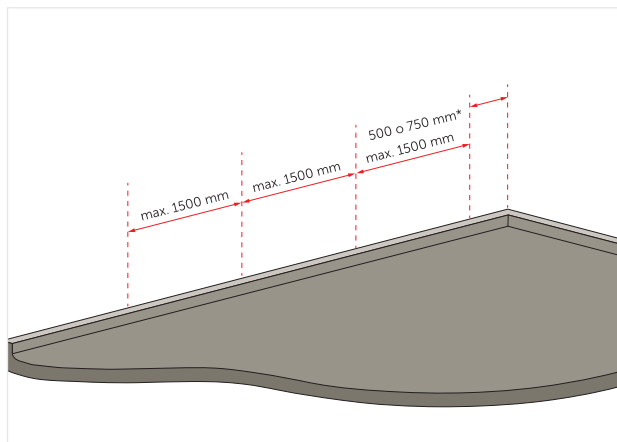
* Beim geneigten Geländer beträgt der Achsabstand zwischen Pfosten und Begrenzungsmauer max. 750 mm.
NTC 2018: Der max. Achsabstand für NTC 2018 beträgt 1332 mm für den geraden Pfosten und 1000 mm für den geneigten Pfosten.

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MONTAGE

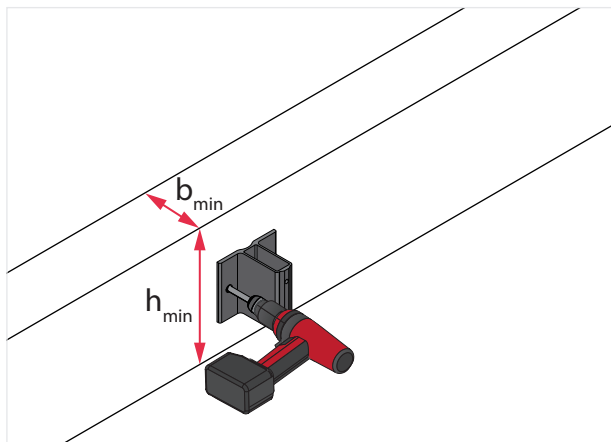
MONTAGE DES GELÄNDERS - WANDBEFESTIGUNG GUARD

Für die Montage des selbsttragenden Geländers GUARD werden mindestens zwei Personen benötigt. Es empfiehlt sich, die Montage dort zu beginnen, wo sich ein Winkelstück befindet.



1 - Max. alle 1500 mm einen Bezugspunkt anreißen.

* Der Abstand zwischen dem Pfosten und dem Rand der Aufkantung muss beim geraden Schutzgelenk 500 mm und beim geneigten Schutzgelenk 750 mm betragen.



2 - Die Empfehlungen für die Befestigung des Sockels in einem Mindestabstand vom Rand der Aufkantung befolgen.

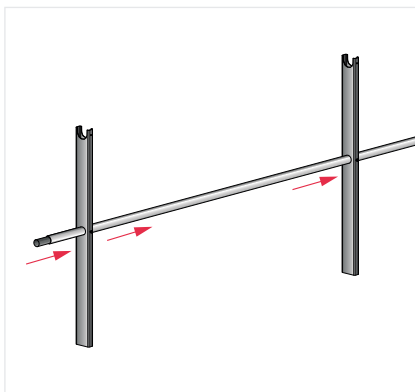
GUARD V		Pfostenhöhe 1180 mm Last auf Befestigung 797 dN		Pfostenhöhe 1010 mm Last auf Befestigung 597 dN		Pfostenhöhe 760 mm Last auf Befestigung 429 dN	
		h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]
UNGERISSENER BETON 	VIN-FIX 5,8 Stange M10 	150	180	120	155	100	140
	SKR CE 10x80 Verzinkter Stahl 					120	110
	AB1 A4 10x92 			150	120	150	120
HOLZ 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

⚠️ Für die Mindestabstände und die Einbauweise sind die Originalanleitungen des Herstellers der Befestigung zu beachten

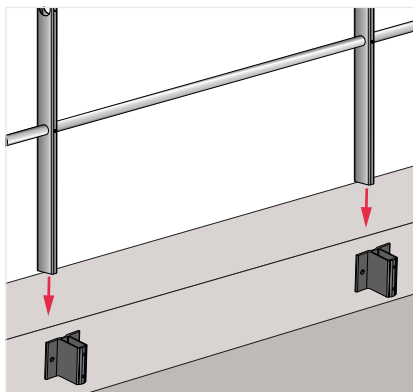
* 1 Kartusche VIN-FIX für 20 Befestigungen; verwendbar mit Pistole FLY. Bitte die technischen Datenblätter der Anker auf der Website www.rothoblaas.de beachten

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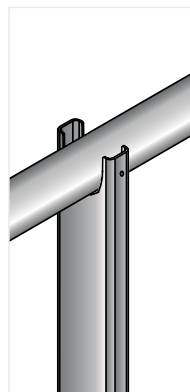
MONTAGE



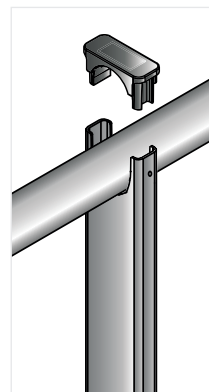
3 - Einen Mittellauf in 2 Pfosten einsetzen.



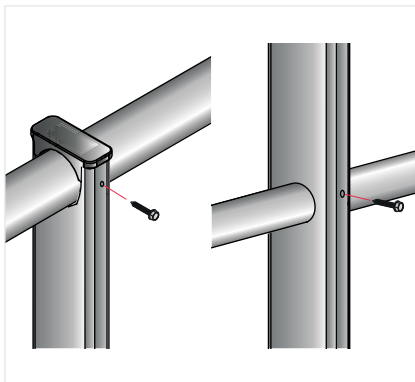
4 - Die Baugruppe in die Sockel einsetzen.



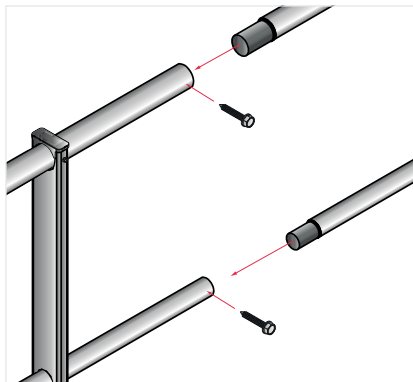
5 - Den Handlauf auf den Pfosten ablegen.



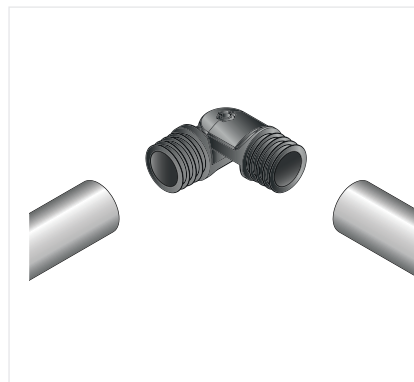
6 - Das Oberteil des Pfostens schließen.



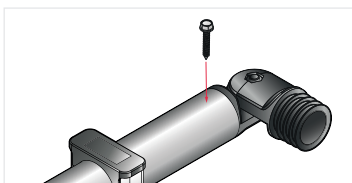
7 - Die selbstbohrenden Schrauben 4,8 x 25 am Pfosten auf der Höhe des Handlaufs und des Mittellaufs anziehen.



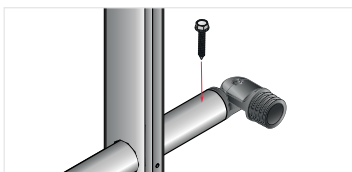
8 - Die Handläufe und die Zwischenläufe der bereits montierten und befestigten Abschnitte mit Schrauben 4,8 x 16 einsetzen.



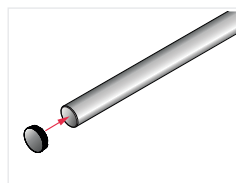
9 - Die Winkelstücke der Handläufe und der Zwischenläufe einsetzen.



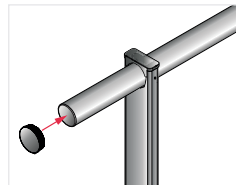
10 - Die Winkelstücke mit selbstbohrenden Schrauben 4,8 x 25 befestigen.



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

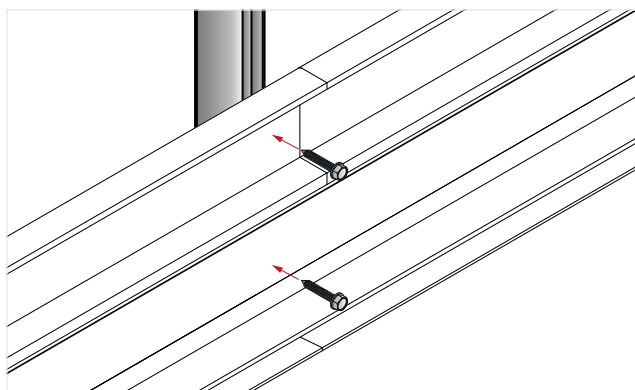


12 - Die Kappen oder die Wandabschlüsselemente an den Handläufen oder Zwischenläufen einstecken.

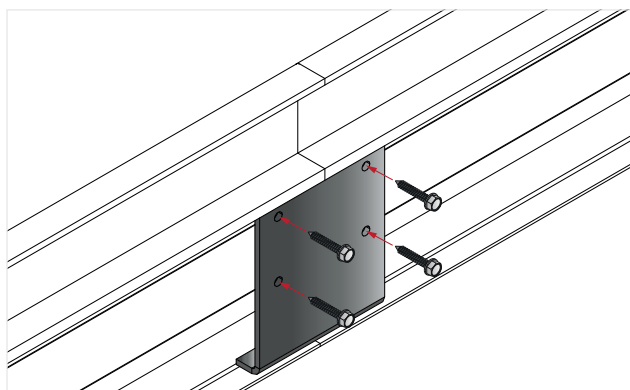


13 - Die Winkelstücke mit selbstbohrenden Schrauben 4,8 x 25 befestigen.

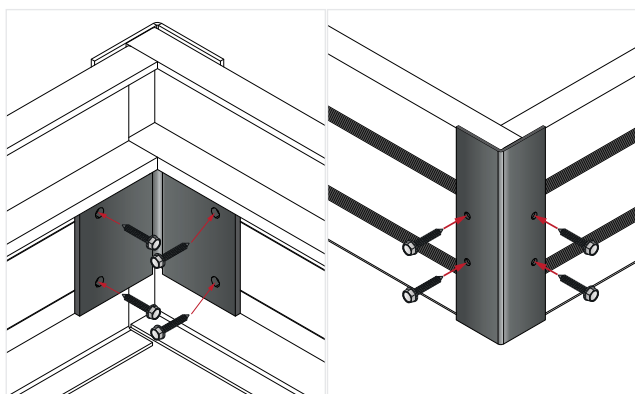
BEFESTIGUNG DES FUSSLEISTES



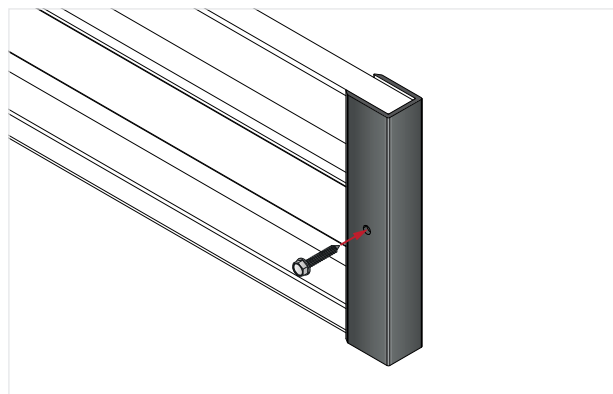
1 - Die Fußleiste mit 2 Schrauben 4,8 x 25 am Pfosten befestigen.



2 - Die Profile der Fußleisten mit den Verbindern und 4 selbstbohrenden Schrauben 4,8 x 16 aneinander befestigen.



3 - Für die Winkelstücke die internen und externen Verbinder mit 8 selbstbohrenden Schrauben 4,8 x 16 befestigen.



4 - Abschließend die Fußleistenkappen mit 1 selbstbohrenden Schraube 4,8 x 16 befestigen.

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INSTALLATION MANUAL

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DEFINITION

The GUARD railing with vertical fastening and spaced vertical fastening 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 beams. The GUARD railing with vertical fastening can be fastened either inside or outside the wall.

STANDARDS

The GUARD railing with vertical and spaced vertical fastening 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 railings with vertical and spaced vertical fastening have successfully passed the static and dynamic tests and trials required by EN ISO 14122-3 and NF EN 85-015. Certificates of Conformity: APAVE AT5890779-1 for the GUARD railing with vertical fastening and no. AT5791764-4 and no. AT5791764-5 for the GUARD railing with spaced vertical fastening, for both the straight and the angled version.

REFERENCE REGULATIONS

- 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 handrail and intermediate beams have tapered ends designed to 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.

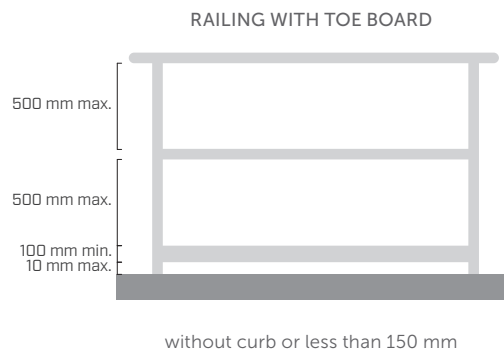
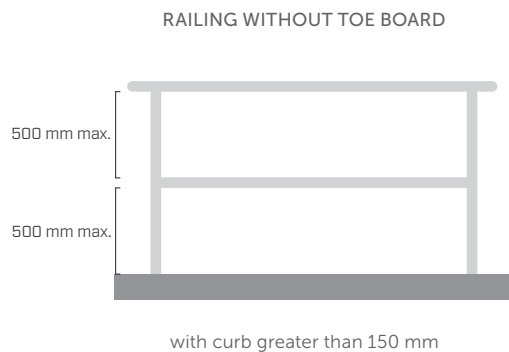
USE - MAINTENANCE

- 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

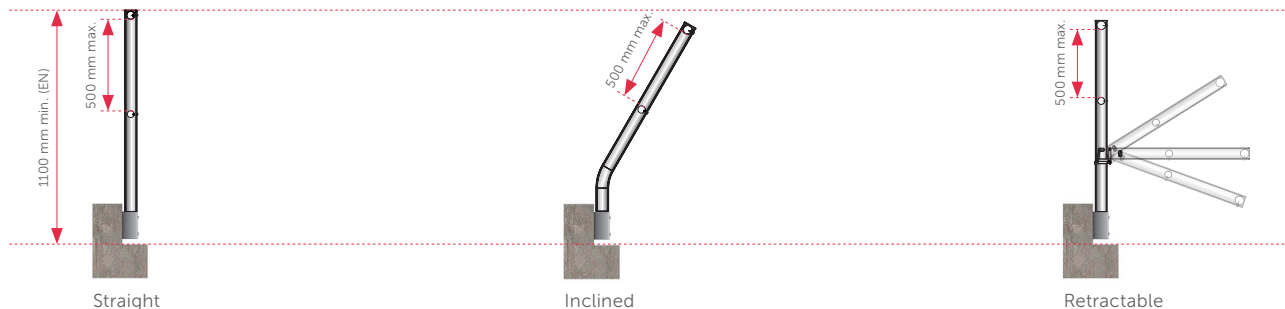
The raw aluminium components are packed in contact with each other. The action of rain, on the closed package, will facilitate oxidation of these components. In this case, surface stains may appear. These do not call into question the quality of the aluminium but can damage the aesthetic appearance of 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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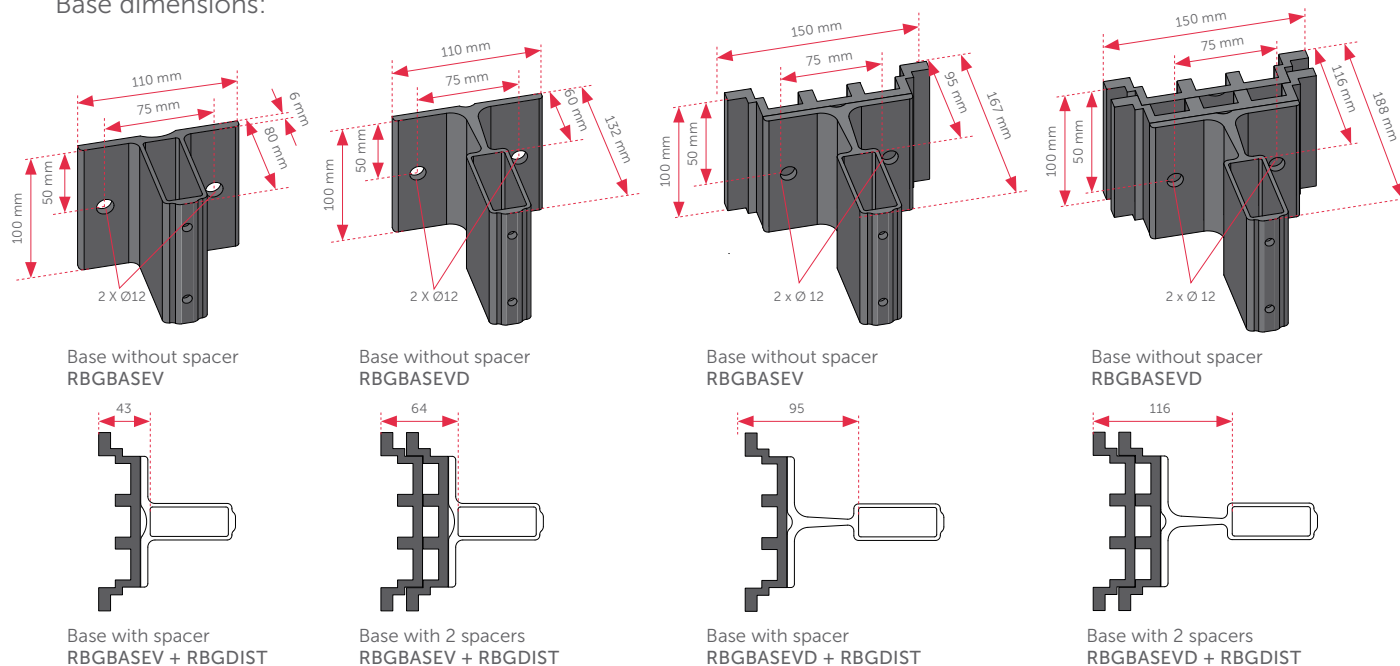


DIMENSIONS

Dimensions of the uprights:

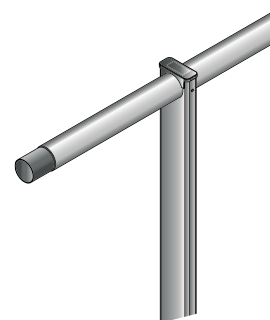


Base dimensions:



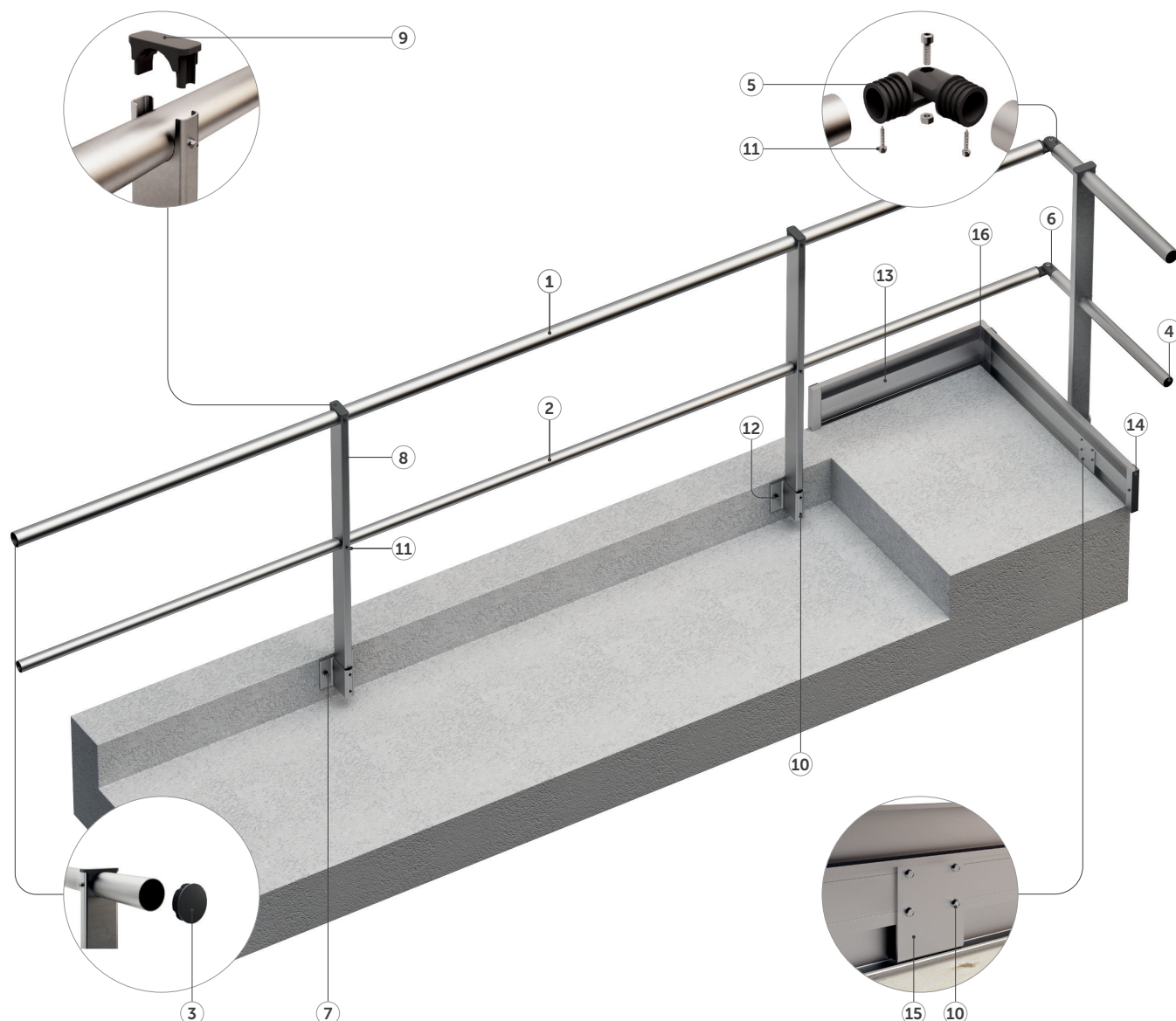
OPTIMISED ASSEMBLY

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



GUARD V/GUARD VD

RAILING VERTICAL AND VERTICAL SPACED FASTENING



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)
RBGBASEV	bottom plate for wall fastening GUARD V
7 RBGBASEVD	bottom plate for fastening on projecting wall GUARD VD
RBGSUP118	straight upright H = 1182 mm groove Ø45 mm
RBGSUP130	straight upright H = 1300 mm groove Ø45 mm
8 RBGSUP115I	inclined upright H = 1157 mm groove Ø45 mm
RBGSUP760WH NEW	straight upright height 760 mm without intermediate rail; (perimeter rail height min. 600 mm)

CODE	description
9 RBGCAP	upright cap 68 x 28 mm groove Ø45 mm
CODE	description
10 RBGSCR4816	stainless steel self-drilling screw 4,8 x 16 mm
11 RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm
12 RBGSCR4832	stainless steel self-drilling screw 4,8 x 32 mm
13 RBGTB	toe board 3000 x 150 x 19 mm
14 RBGTBCAP	cap for toe board H = 150 mm
15 RBGTBJUN	straight connector toe board H = 150
16 RBGTBCOR	angle bracket for toe board H = 150 mm
RBGDIST	spacer element GUARD V-VD + 35 mm

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 | 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

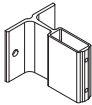
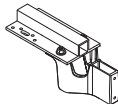
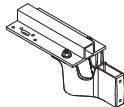
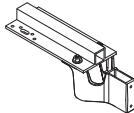
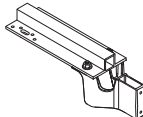
GROUP	CODE	description	pcs	
STANDARD BASES	RBGBASEW	base for self-supporting GUARD W straight with support leg	1	
	RBGBASEWI	base for self-supporting GUARD W inclined with support leg	1	
	RBGBASEWFCR	support leg curved at right at 25° per angle	1	
	RBGBASEWFCL	support leg curved at left at 25° per angle	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

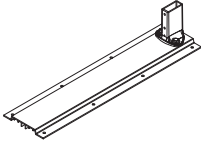
CODES AND DIMENSIONS

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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GUARD | components

CODES AND DIMENSIONS

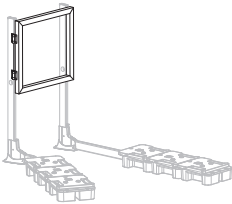
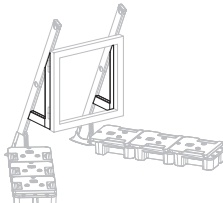
GROUP	CODE	description	pcs	
BASES FOR FASTENING ON TRAPEZOIDAL METAL ROOF	RBGBASE250PA	plate for fastening to trapezoidal sheet metal, pitch 250 mm, GUARD parallel to trapezoidal sheet metal (excluding screws)	1	
	RBGBASE333PA	plate for fastening to trapezoidal sheet metal, pitch 333 mm, GUARD parallel 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	-	 x 4 x 2 x 2

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GUARD | components

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	

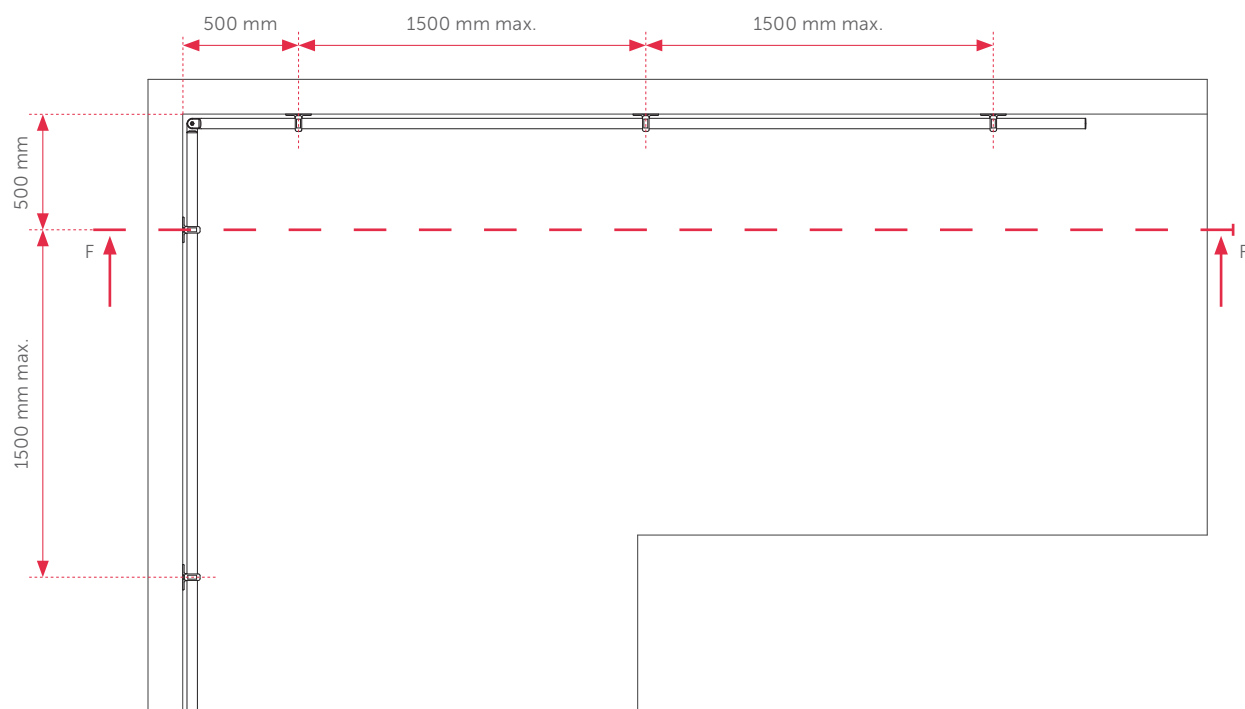
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RAILING ASSEMBLY DIAGRAM (EN 14122-3)



NOTES

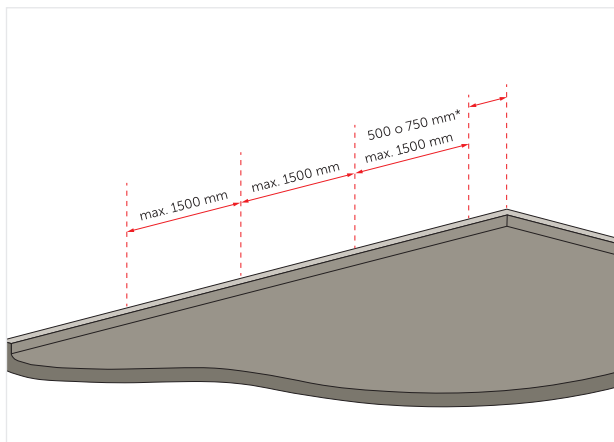
- * For the inclined railing the spacing between the upright and the perimeter wall is 750 mm max.
NTC 2018: the max spacing for NTC 2018 is 1332 mm for straight upright and 1000 mm for inclined upright.

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INSTALLATION

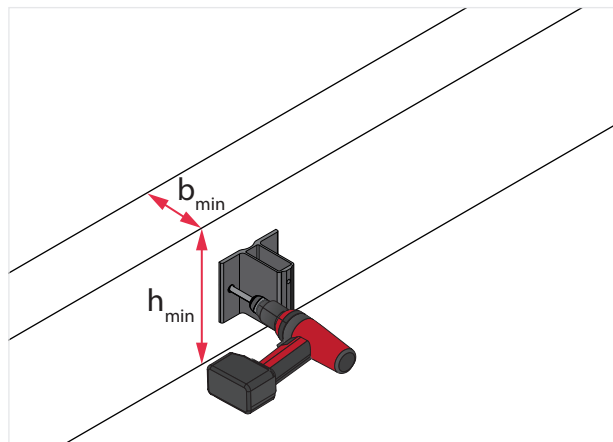
RAILING ASSEMBLY - WALL FASTENING GUARD

At least two people are required to assemble the GUARD self-supporting railing.
It is best to start the installation from a corner.



1 - Draw a reference point every 1500 mm maximum.

* the distance between the upright and the edge of the curb must be 500 mm for straight railing and 750 mm for inclined railing.



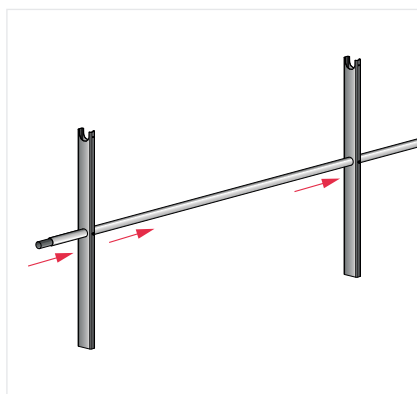
2 - Follow the recommendations for fastening the base at a minimum distance from the curb of the railing.

GUARD V		Upright height 1180 mm load on fastening system 797 dN		Upright height 1010 mm load on fastening system 597 dN		Upright height 760 mm load on fastening system 429 dN	
		h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]
UNCRACKED CONCRETE 	VIN-FIX 5.8 M10 rod 	150	180	120	155	100	140
	SKR CE 10x80 Zinc-plated steel 					120	110
	AB1 A4 10x92 			150	120	150	120
TIMBER 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

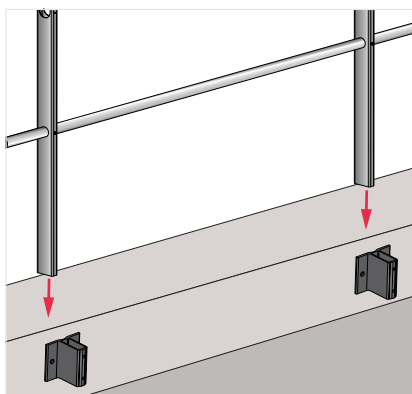
Consult the fastener manufacturer's original instructions for minimum spacing and installation procedure

* no.1 VIN-FIX cartridge for 20 fastenings; usable with FLY gun. Please refer to the technical data sheets of the anchors on www.rothoblaas.com

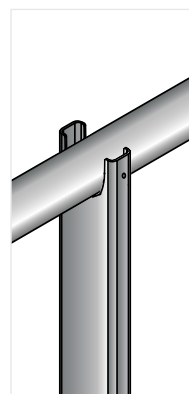
INSTALLATION



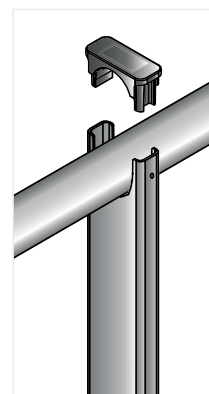
3 - Insert an intermediate rail into 2 uprights.



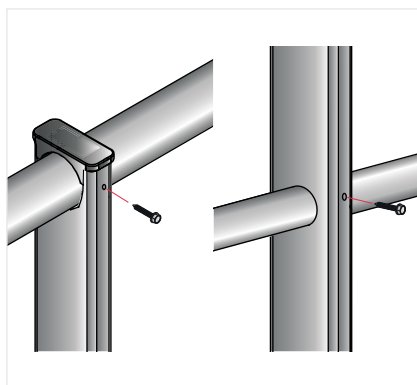
4 - Insert everything into the bases.



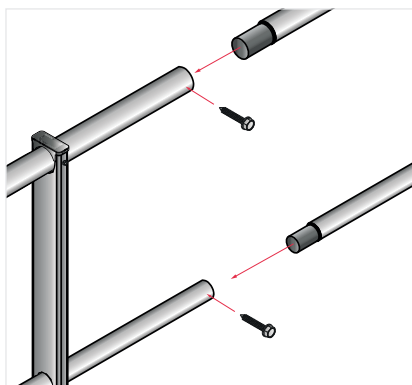
5 - Position the handrail on the uprights.



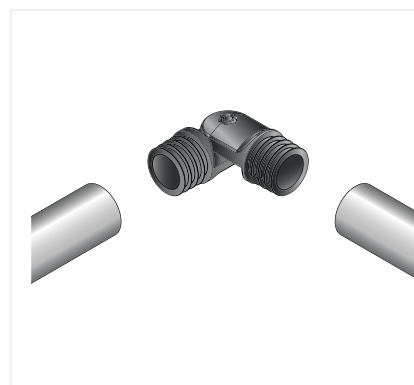
6 - Close the upper part of the upright.



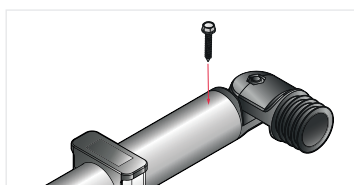
7 - Screw the 4,8 x 25 self-drilling screws on the upright at the level of the handrail and the intermediate rail.



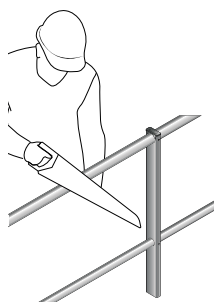
8 - Insert the handrails and intermediate rails of the assembled sections and fasten with 4,8 x 16 screws.



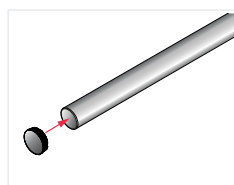
9 - Insert the angle brackets of the handrails and intermediate rails.



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



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



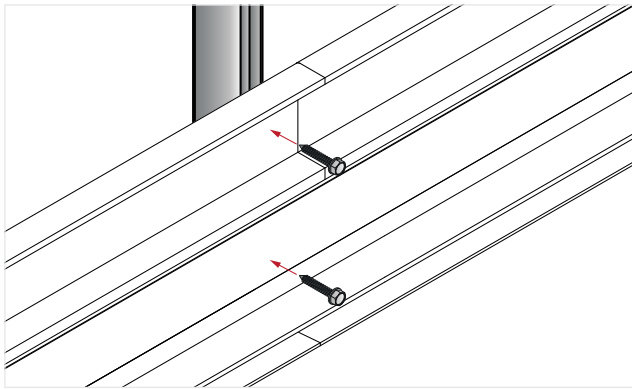
12 - Insert the caps or wall terminations into the handrails or intermediate rails.



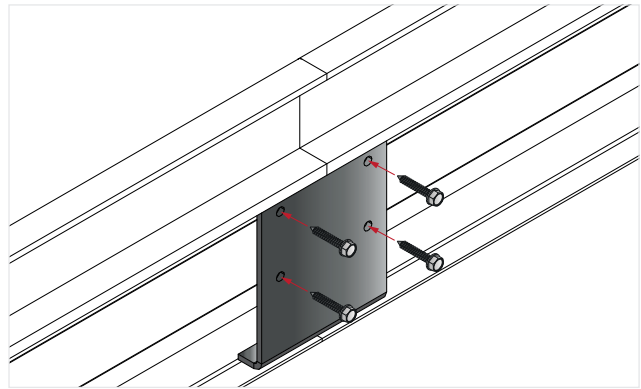
13 - Fasten the angle brackets with 4,8 x 25 self-drilling screws.

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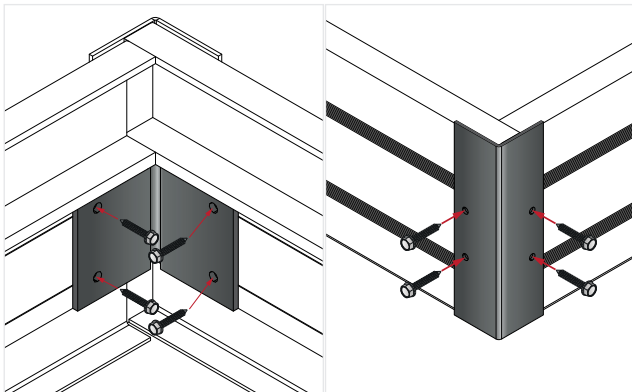
TOE BOARD FASTENING



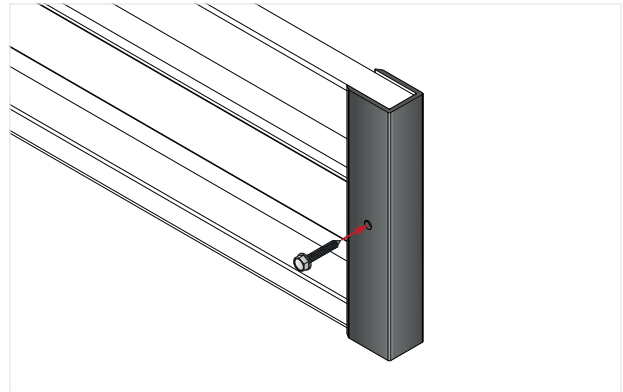
1 - Fasten the toe board to the upright with 2 screws 4,8 x 25.



2 - Fasten the profiles of the toe boards together using the connectors and 4 self-drilling screws 4,8 x 16.



3 - For the angle brackets, fasten the internal and external connectors with 8 self-drilling screws 4,8 x 16.



4 - Finally, fasten the caps of the toe board with 1 self-drilling screw 4,8 x 16.

MANUAL DE INSTALACIÓN

DEFINICIÓN

La baranda GUARD con fijación vertical y fijación vertical distanciada 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 pasamanos y barras intermedias. La baranda GUARD con fijación vertical se puede fijar en el interior o el exterior de la pared.

NORMATIVAS

La baranda GUARD con fijación vertical y vertical distanciada entra en el ámbito de aplicación de la normativa europea EN ISO 14122-3 de diciembre de 2007 «Seguridad de las máquinas - Medios de acceso permanentes a máquinas - Parte 3: Escaleras, escaleras puente, barandas» a la normativa NF E 85-015 de abril de 2008 «Elementos de instalación industrial - Medios de acceso permanentes».

Las barandas GUARD con fijación vertical y vertical distanciada han superado con éxito los controles y las pruebas estáticas y dinámicas requeridas por la normativa EN ISO 14122-3 y NF EN 85-015. Certificados de conformidad: APAVE AT5890779-1 para la baranda GUARD con fijación vertical y n.º AT5791764-4 y n.º AT5791764-5 para la baranda GUARD con fijación vertical distanciada, tanto para la versión recta como inclinada.

RECORDATORIO DE LAS NORMATIVAS

- 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.
- El pasamanos y las barras intermedias tienen extremos ahuecados diseñados para encajar unos con otros.
- Montaje con tornillos HC y tornillos autorroscantes suministrados.
- El rodapié es obligatorio en caso de fijación a pared y con murete perimetral inferior a 100 mm.

USO - MANTENIMIENTO

- 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

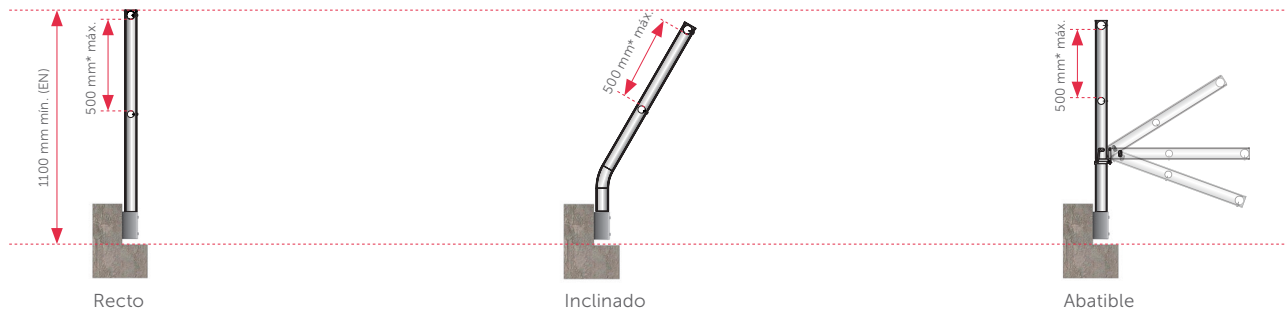
BARANDA CON RODAPIÉ



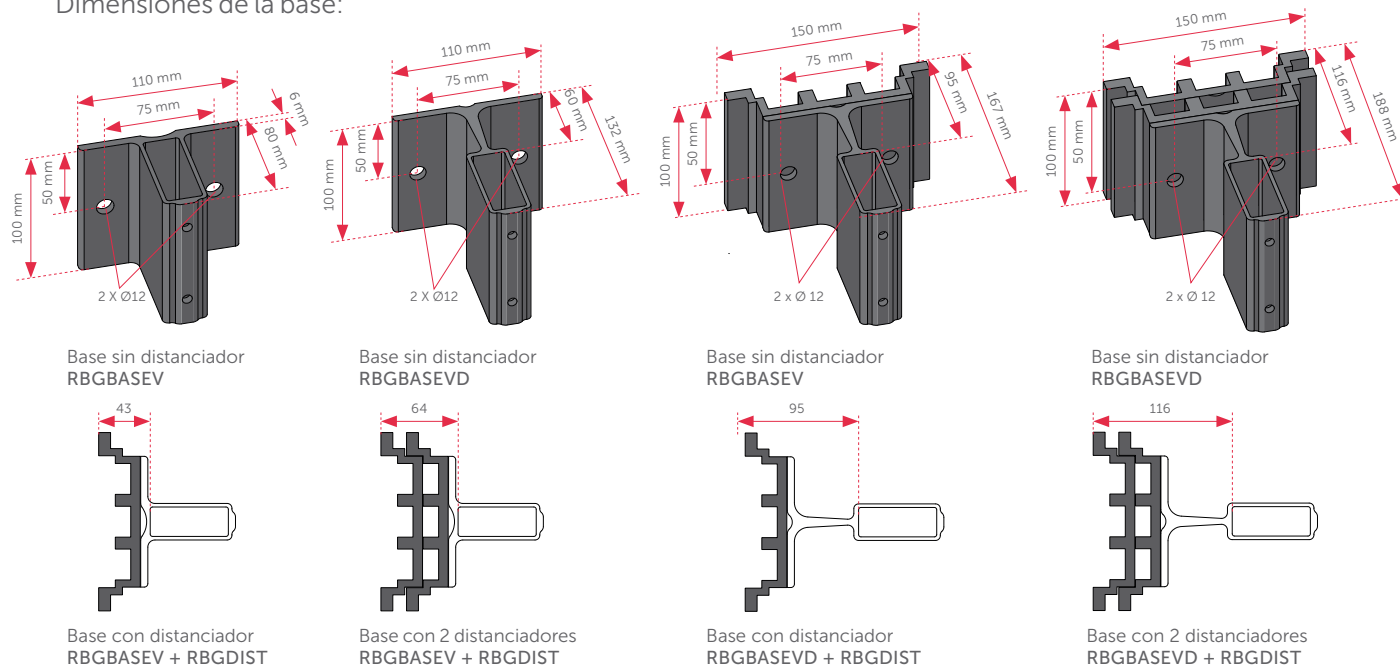
sin murete perimetral o inferior a 150 mm

DIMENSIONES

Dimensiones de los montantes:

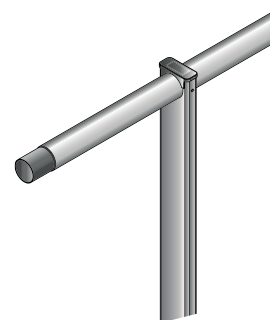


Dimensiones de la base:



MONTAJE OPTIMIZADO

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



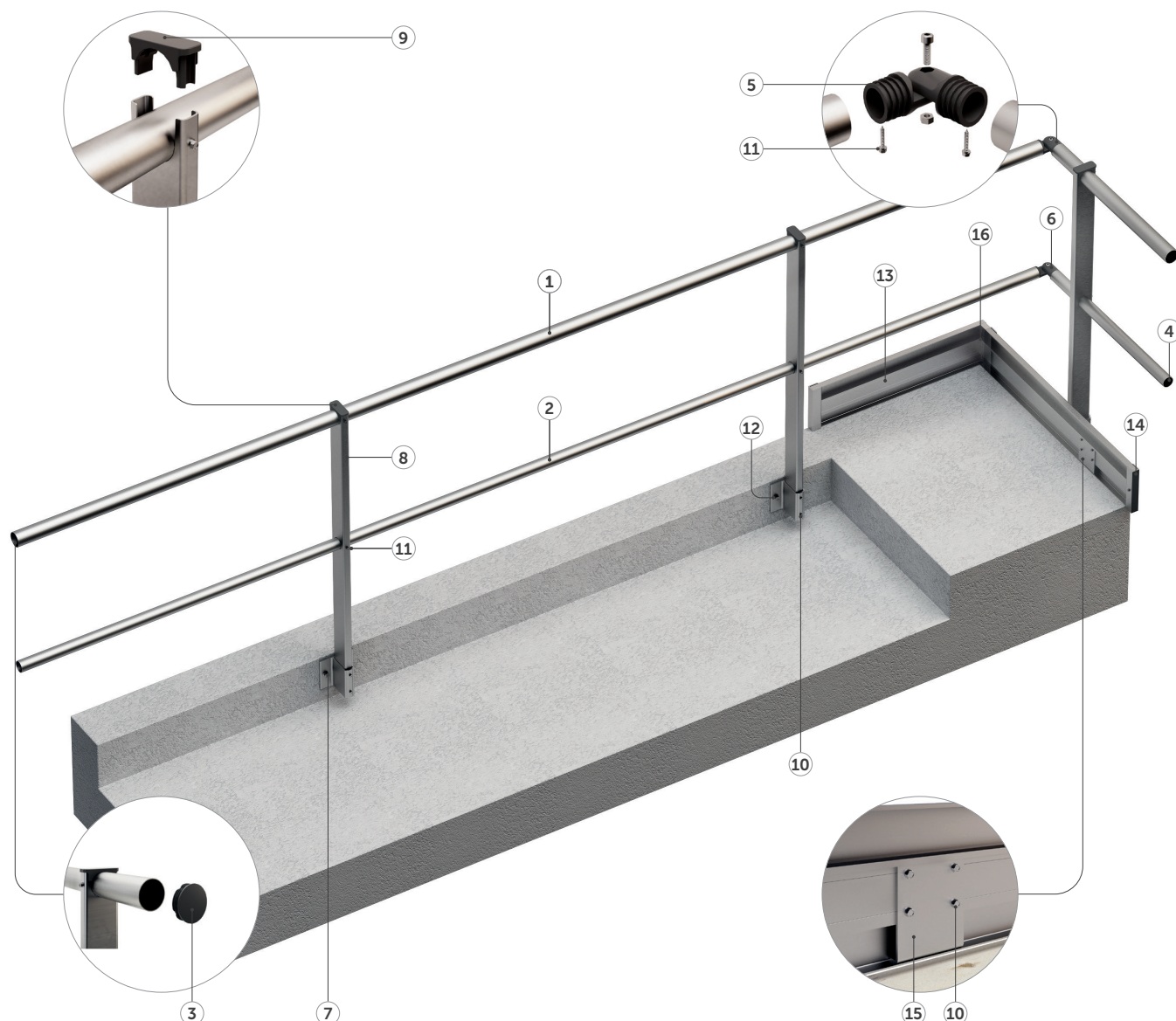
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GUARD V/GUARD VD BARANDA FIJACIÓN VERTICAL Y VERTICAL DISTANCIADA

EN
14122-3:
2016

NTC
2018

NF
E85-015:
2019



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)
RBGBASEV	placa base fijación a pared GUARD V
7 RBGBASEVD	placa base fijación a pared saliente GUARD V
RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm
RBGSUP130	montante recto H = 1300 mm hueco Ø45 mm
8 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
9 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
CÓDIGO	descripción
10 RBGSCR4816	tornillo autoperforante 4,8 x 16 mm de acero inoxidable
11 RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable
12 RBGSCR4832	tornillo autoperforante 4,8 x 32 mm de acero inoxidable
13 RBGTB	rodapié 3000 x 150 x 19 mm
14 RBGTBCAP	tapón para rodapié H = 150 mm
15 RBGTBJUN	conector recto rodapié H = 150 mm
16 RBGTBCOR	reenvío de ángulo rodapié H = 150 mm
RBGDIST	elemento distanciador GUARD V-VD + 35 mm

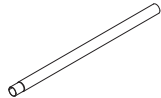
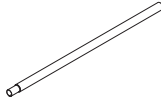
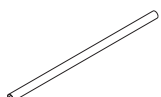
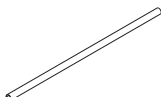
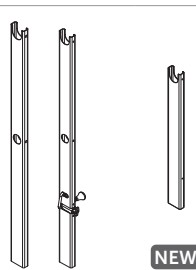
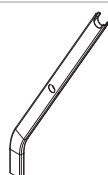
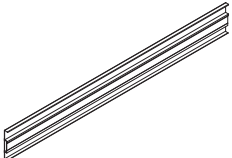
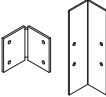
Para fijación a pared:

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 | componentes

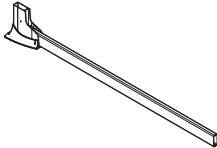
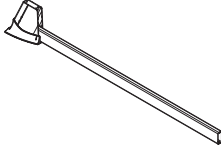
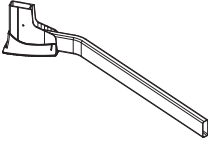
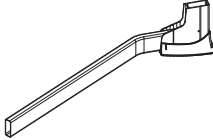
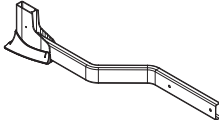
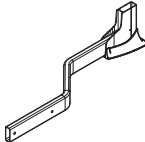
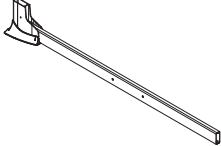
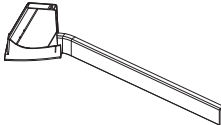
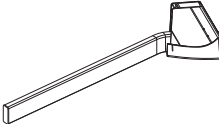
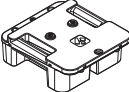
CÓDIGOS Y DIMENSIONES

GRUPO	CÓDIGO	descripción	unid.	
PASAMANOS Y BARRAS INTERMEDIAS	RBGBAR45	pasamanos Ø45 mm con virolas empotrables L = 3000 mm	1	
	RBGBAR35	barra intermedia Ø35 con virolas empotrables L = 3000 mm	1	
	RBGBAR45F	pasamanos sin virolas empotrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	barra intermedia sin virolas 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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GUARD | componentes

CÓDIGOS Y DIMENSIONES

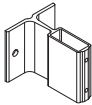
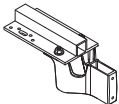
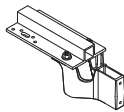
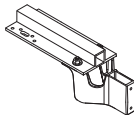
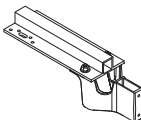
GRUPO	CÓDIGO	descripción	unid.	
BASES ESTÁNDARES	RBGBASEW	base para baranda autoportante GUARD W recta con pata de sostén	1	
	RBGBASEWI	base para baranda autoportante GUARD W inclinada con pata de sostén	1	
	RBGBASEWFCR	pata de sostén con curva a la derecha a 25° para ángulo	1	
	RBGBASEWFCL	pata de sostén 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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GUARD | componentes

CÓDIGOS Y DIMENSIONES

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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GUARD | componentes

CÓDIGOS Y DIMENSIONES

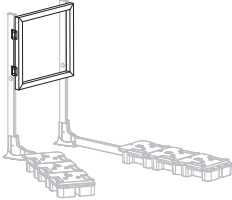
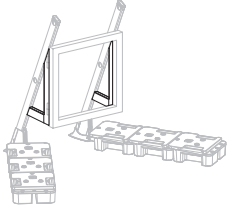
GRUPO	CÓDIGO	descripción	unid.	
BASES PARA FIJACIÓN A CHAPA TRAPEZOIDAL	RBGBASE250PA	placa para fijación a chapas trapezoidales con paso de 250 mm, GUARD paralelo a las grecas (tornillos no incluidos)	1	
	RBGBASE333PA	placa para fijación a chapas trapezoidales con paso de 333 mm, GUARD paralelo a las 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	-	

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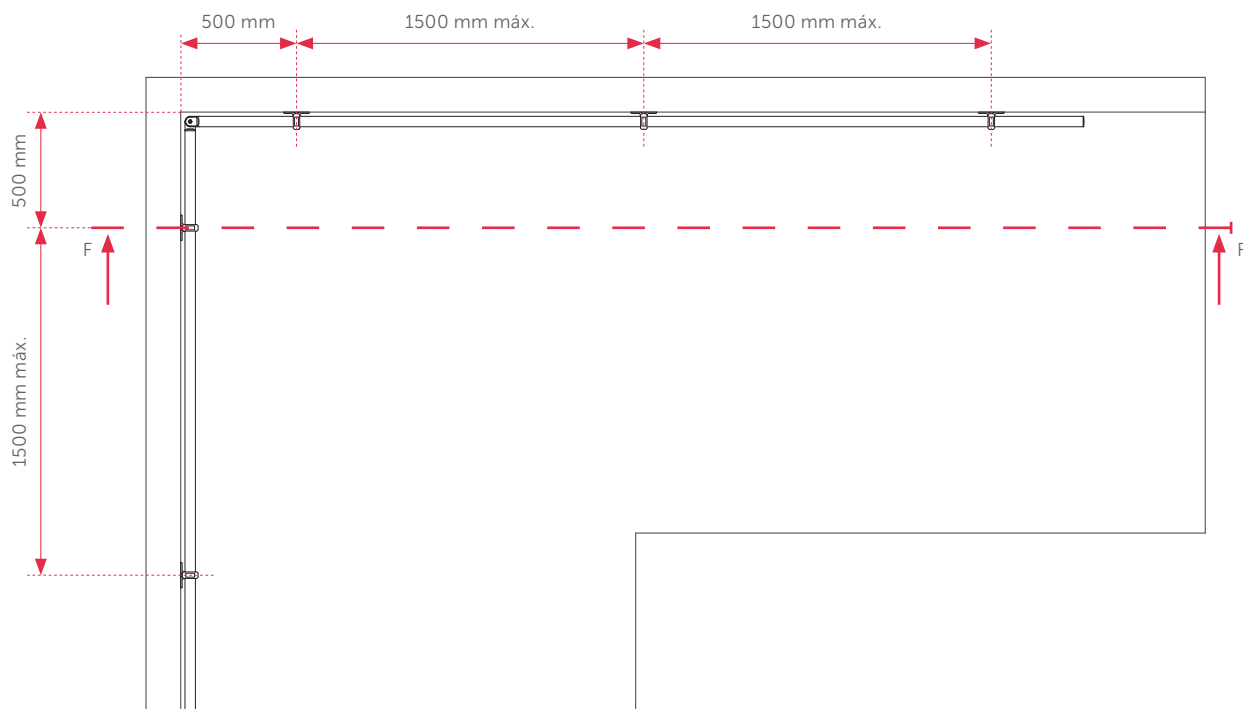
GUARD | componentes

CÓDIGOS Y DIMENSIONES

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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■ ESQUEMA DE MONTAJE DE LA BARANDA [EN 14122-3]



NOTAS

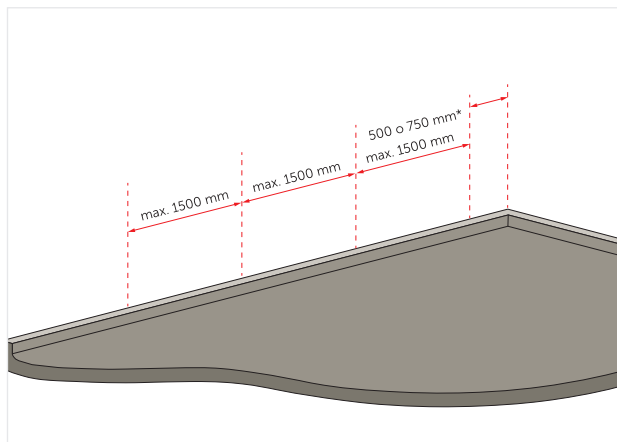
* Para la baranda inclinada, entre el montante y el murete perimetral puede haber un interje de 750 mm.
NTC 2018: la distancia máxima para NTC 2018 es de 1332 mm para el montante recto y 1000 mm para el montante inclinado.

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INSTALACIÓN

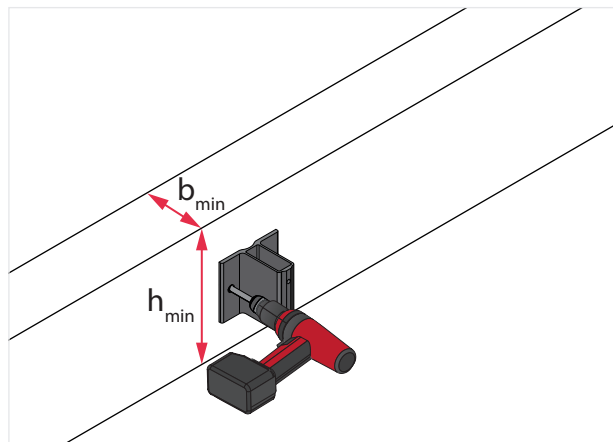
MONTAJE DE LA BARANDA FIJACIÓN A PARED GUARD

Para montar la baranda autoportante GUARD se necesitan al menos dos personas.
Es preferible empezar la instalación por una esquina.

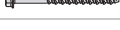
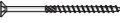


1 - Marcar un punto de referencia cada 1500 mm como máximo.

* la distancia entre el montante y borde de la cadena tiene que ser de 500 mm para la baranda recta y de 750 mm para la baranda inclinada.



2 - Fijar la base de manera que se garantice la distancia mínima de la baranda al borde de la cadena.

GUARD V		Altura montante 1180 mm carga en la fijación 797 dN		Altura montante 1010 mm carga en la fijación 597 dN		Altura montante 760 mm carga en la fijación 429 dN	
		h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]
HORMIGÓN NO FIDURA- DO 	VIN-FIX 5.8 barra M10 	150	180	120	155	100	140
	SKR CE 10x80 Acero galvanizado 					120	110
	AB1 A4 10x92 			150	120	150	120
MADERA 	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

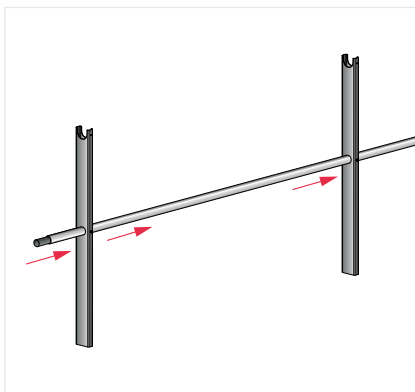
  Para las distancias mínimas y la modalidad de instalación, atenerse a las instrucciones originales del fabricante del sistema de fijación

* n.º 1 cartucho VIN-FIX para 20 fijaciones; se puede usar con la pistola FLY. Se ruega consultar las fichas técnicas de los anclajes en el sitio web www.rothoblaas.es

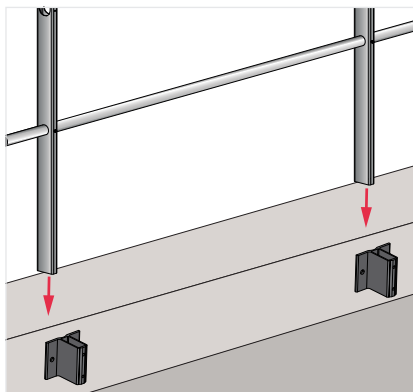
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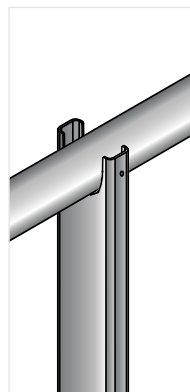
■ INSTALACIÓN



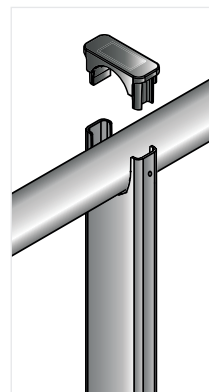
3 - Colocar una barra intermedia entre dos montantes.



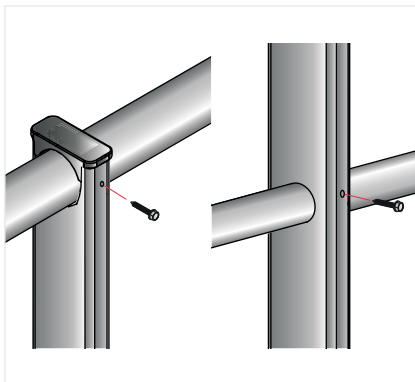
4 - Colocar todo en las bases.



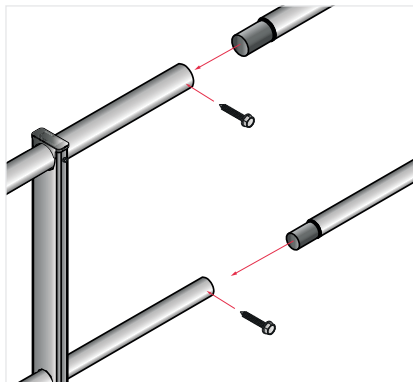
5 - Colocar el pasamanos en los montantes.



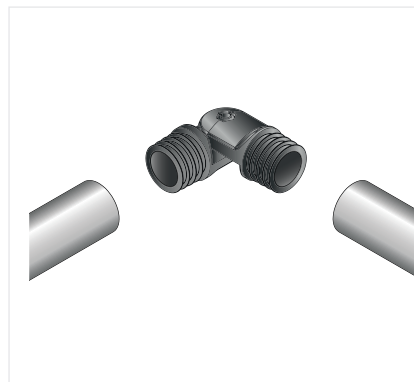
6 - Cerrar la parte superior del montante.



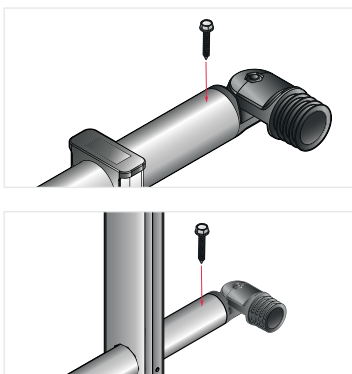
7 - Enroscar los tornillos autoperforantes 4,8 x 25 que fijan el pasamanos y la barra intermedia al montante.



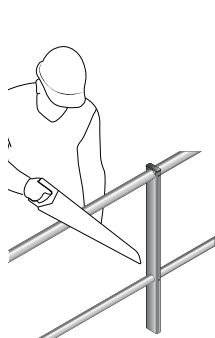
8 - Acoplar los pasamanos y las barras intermedias de las secciones montadas y fijadas con tornillos 4,8 x 16.



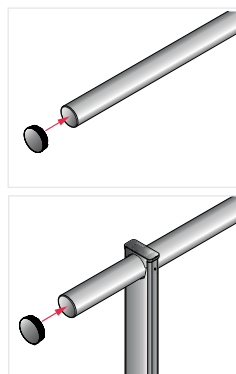
9 - Introducir los ángulos en los pasamanos y las barras intermedias.



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



11 - Adaptar la última sección cortando la parte sobrante.

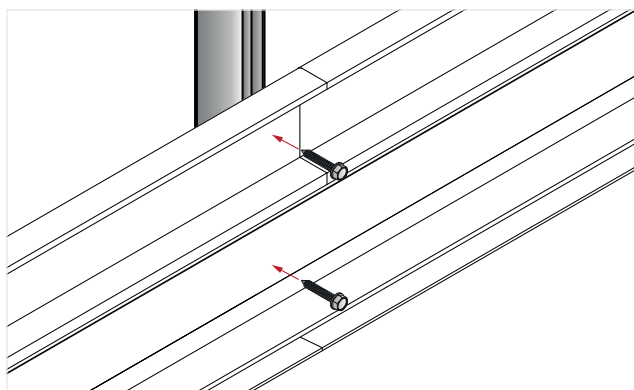


12 - Poner los tapones o los elementos terminales en los pasamanos o barras intermedias.

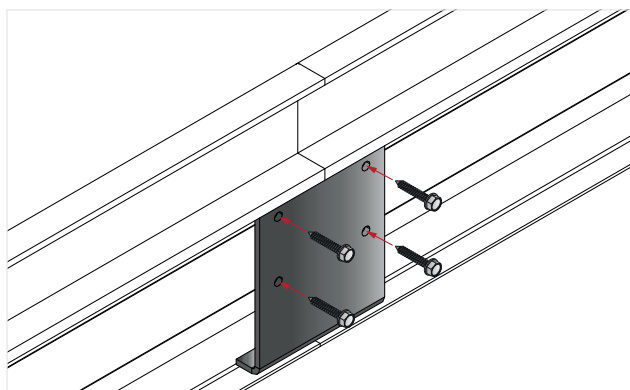


13 - Fijar los ángulos con tornillos autoperforantes 4,8 x 25.

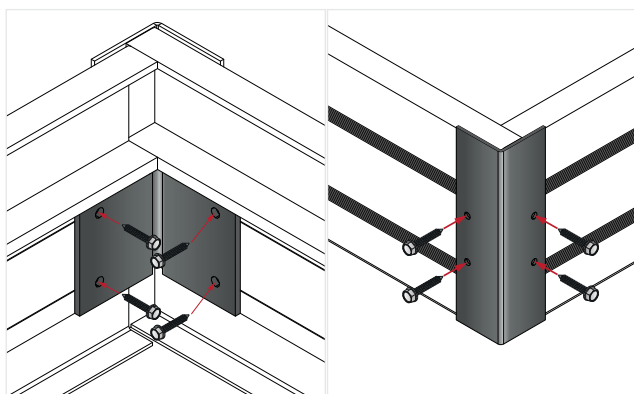
FIJACIÓN DEL RODAPIÉ



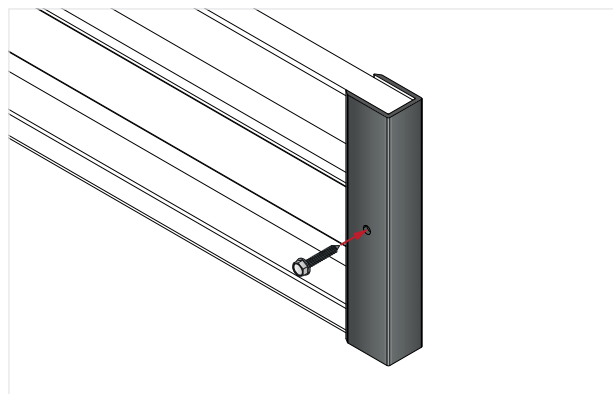
1 - Fijar el rodapié al montante mediante 2 tornillos 4,8 x 25.



2 - Fijar el perfil de rodapié entre sí mediante los conectores y 4 tornillos autoperforantes 4,8 x 16.



3 - Para los ángulos, fijar los conectores internos y externos con 8 tornillos autoperforantes 4,8 x 16.



4 - Por último, fijar los tapones de los rodapiés con 1 tornillo autoperforante 4,8 x 16.

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MANUEL D'INSTALLATION

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DÉFINITION

Le garde-corps GUARD avec fixation verticale et fixation verticale distancée 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 fixation verticale peut être fixé à l'intérieur ou à l'extérieur du mur.

RÉGLEMENTATIONS

Le garde-corps GUARD à fixation verticale et verticale distancée 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'installations industrielles - Moyens d'accès permanents ».

Les garde-corps GUARD à fixation verticale et verticale distancée ont passé avec succès les tests et les essais statiques et dynamiques requis par la norme EN ISO 14122-3 et NF EN 85-015. Certificats de conformité : APAVE AT5890779-1 pour le garde-corps GUARD avec fixation verticale et n° AT5791764-4 et n° AT5791764-5 pour le garde-corps GUARD avec fixation verticale distancée, aussi bien pour la version droite que celle inclinée.

RAPPEL DES NORMES

- 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.

- La lisse et les sous-lisses sont dotées d'extrémités effilées conçues pour s'emboîter les unes 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

- 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 les 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

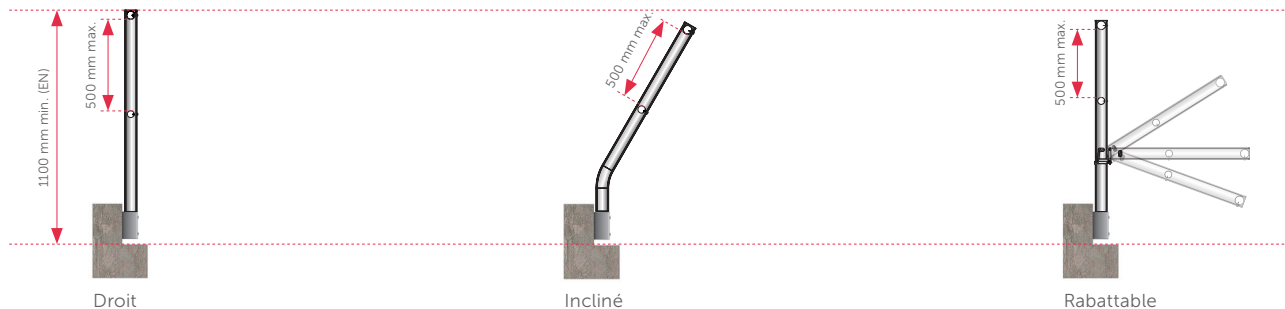
GARDE-CORPS AVEC PLINTHE GARDE-PIEDS



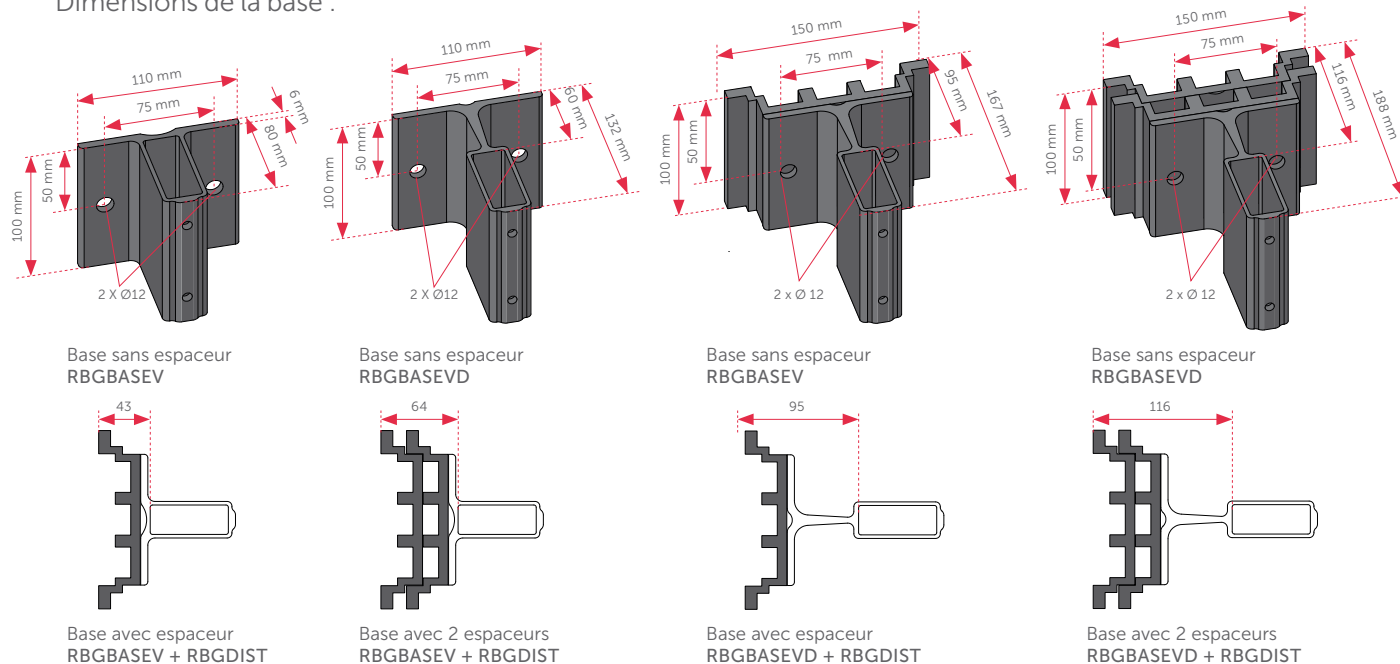
sans bord ou inférieur à 150 mm

DIMENSIONS

Dimensions des montants :

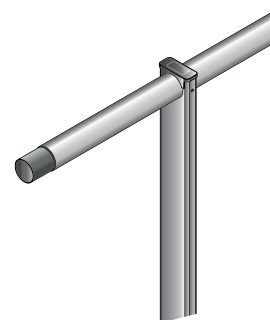


Dimensions de la base :



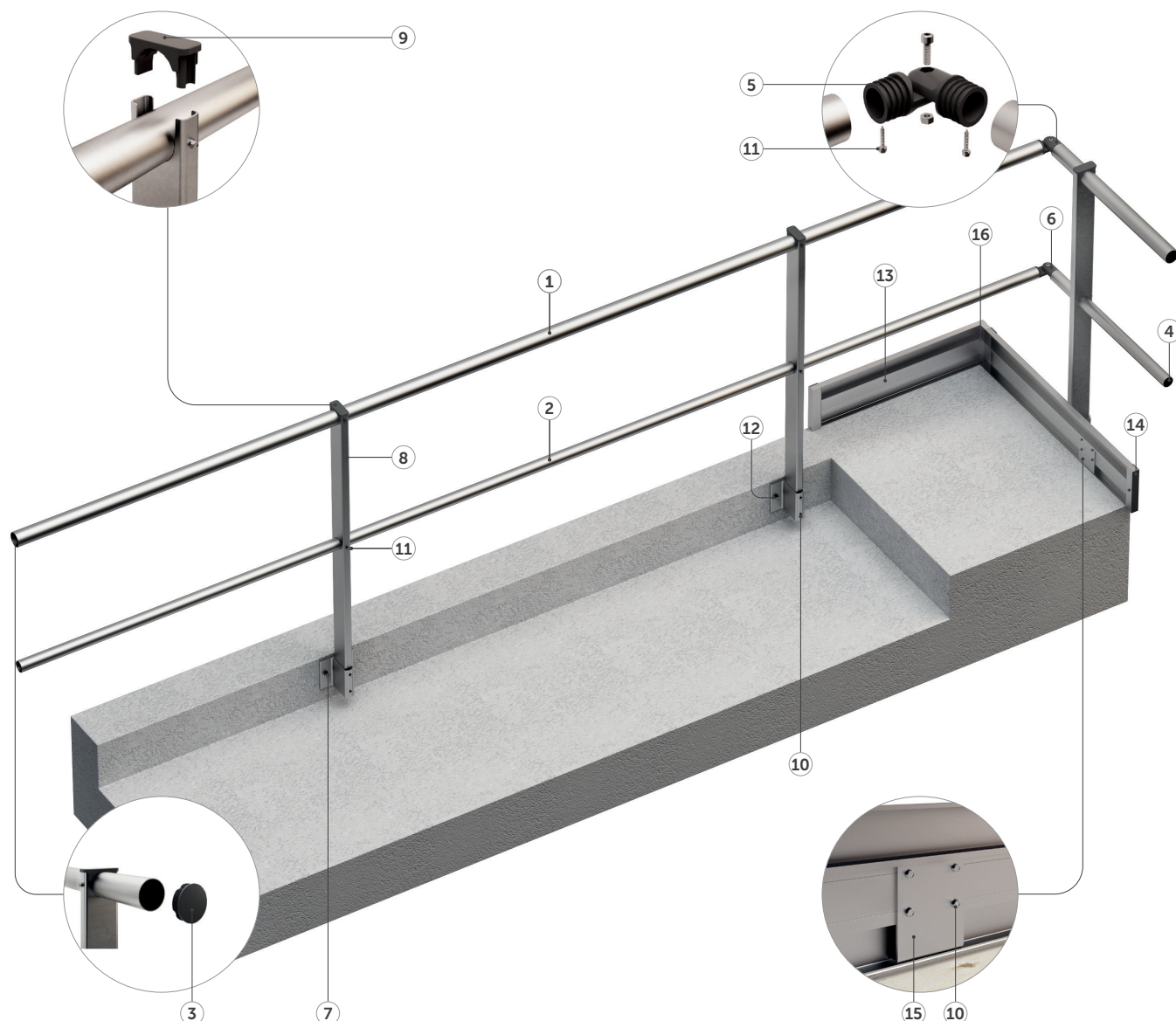
MONTAGE OPTIMISÉ

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



GUARD V/GUARD VD

GARDE-CORPS FIXATION VERTICALE ET VERTICALE DISTANCÉE



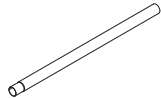
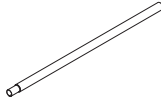
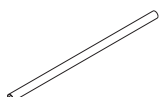
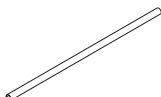
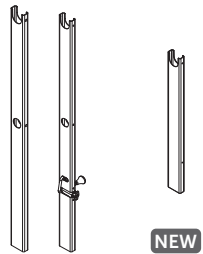
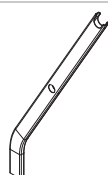
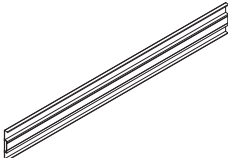
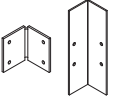
CODE	description
1 RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm
2 RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm
3 RBGCAP45	bouchon pour lisse Ø45 mm
4 RBGCAP35	bouchon pour sous-lisse Ø35 mm
5 RBGCOR45	angle pour lisse Ø45 mm
6 RBGCOR35	angle pour sous-lisse Ø35 mm
5-6 RBGCORAL	coin en aluminium pour lisse et sous-lisse (alternatif à RBGCOR45/ RBGCOR35)
RBGBASEV	plaque de base fixation murale GUARD V
7 RBGBASEVD	plaque de base fixation murale saillante GUARD VD
RBGSUP118	montant droit H = 1182 mm cavité Ø45 mm
RBGSUP130	montant droit H = 1300 mm cavité Ø45 mm
8 RBGSUP115I	montant incliné H = 1157 mm cavité Ø45 mm
RBGSUP760WH NEW	montant droit hauteur 760 mm sans sous-lisse ; (bord périphérique hauteur min. 600 mm)

CODE	description
9 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
CODE	description
10 RBGSCR4816	vis autoforeuses 4,8 x 16 mm INOX
11 RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX
12 RBGSCR4832	vis autoforeuses 4,8 x 32 mm INOX
13 RBGTB	plinth garde-pieds 3000 x 150 x 19 mm
14 RBGTBCAP	bouchon pour plinth garde-pieds H = 150 mm
15 RBGTBJUN	raccord droit pour plinth garde-pieds H = 150
16 RBGTBCOR	jonction d'angle pour plinth garde-pieds H = 150 mm
RBGDIS	élément espaceur GUARD V-VD + 35 mm

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

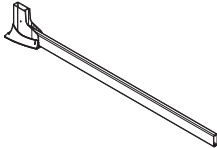
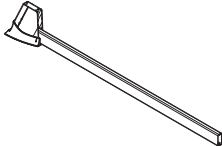
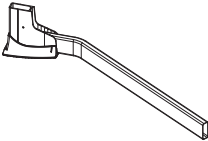
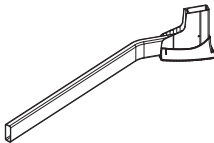
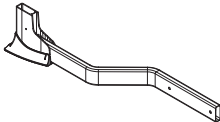
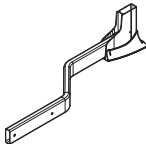
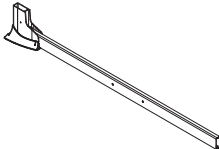
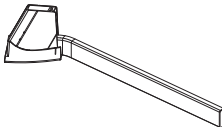
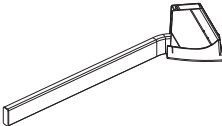
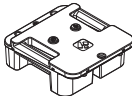
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GROUPE	CODE	description	pcs.	
LISSES ET SOUS-LISSES	RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR45F	lisse sans bagues encastrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	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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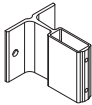
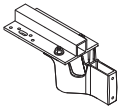
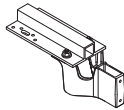
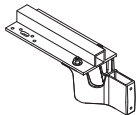
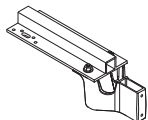
CODES ET DIMENSIONS

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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CODES ET DIMENSIONS

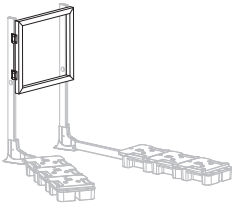
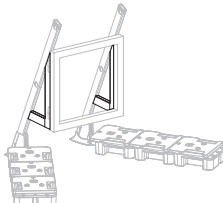
GROUPE	CODE	description	pcs.	
BASES POUR FIXATION SUR TÔLE BAC ACIER	RBGBASE250PA	plaque pour fixation sur tôle bac acier pas 250 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE333PA	plaque pour fixation sur tôle bac acier pas 333 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE250PE	plaque 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 RBGBASEWF et RBGBASEWFR / RBGBASEWFL	-	

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CODES ET DIMENSIONS

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	

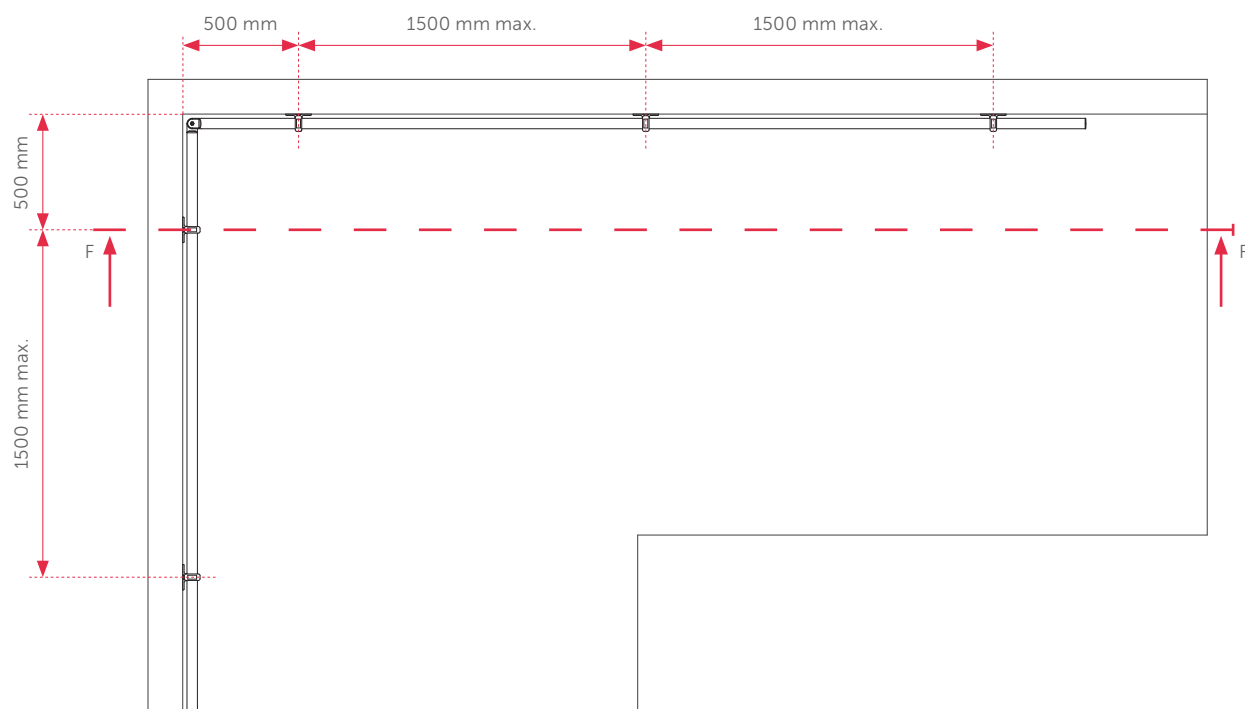
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■ SCHÉMA DE MONTAGE DU GARDE-CORPS (EN 14122-3)



NOTE

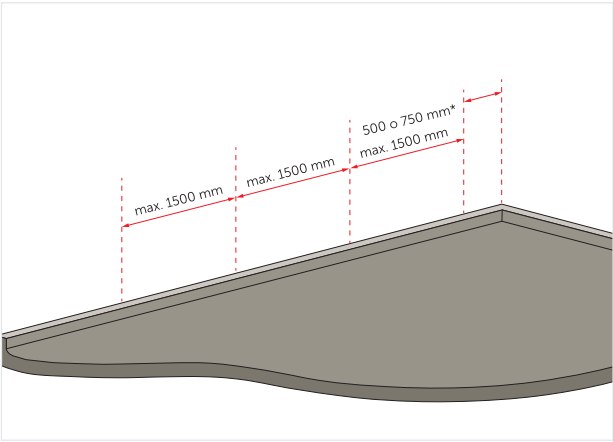
* Pour le garde-corps incliné, l'entraxe entre le montant et le mur périmétrique est de 750 mm max.
NTC 2018 : l'entraxe max pour l'NTC 2018 est 1 332 mm pour le montant droit et 1 000 mm pour le montant incliné.

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INSTALLATION

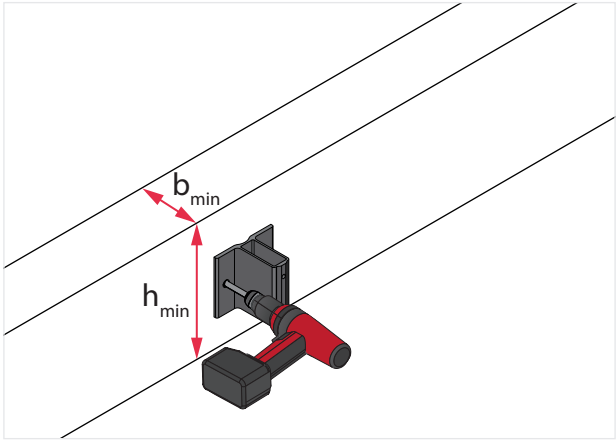
MONTAGE DU GARDE-CORPS FIXATION MURALE GUARD

Le montage du garde-corps autoportant GUARD exige la présence d'au moins deux personnes.
Il est préférable de commencer l'installation par un angle.

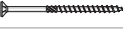


1 - Tracer un point de repère tous les 1500 mm au maximum.

* la distance entre le montant et l'arête du bord doit être de 500 mm pour le garde-corps droit et de 750 mm pour le garde-corps incliné.



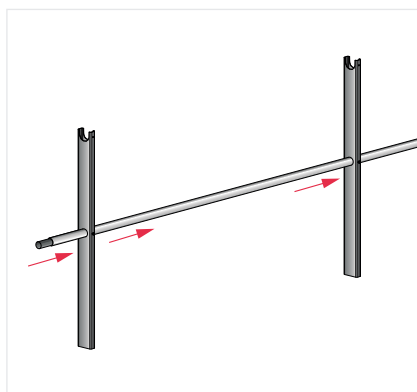
2 - Suivre les recommandations pour la fixation de la base à une distance minimum de l'arête du bord.

GUARD V		Hauteur du montant 1180 mm chargé sur la fixation 797 dN		Hauteur du montant 1010 mm chargé sur la fixation 597 dN		Hauteur du montant 760 mm chargé sur la fixation 429 dN	
		h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]	h_{min} [mm]	b_{min} [mm]
CLS NON FISSURÉ	VIN-FIX 5,8 tige M10 	150	180	120	155	100	140
	SKR CE 10x80 Acier galvanisé 					120	110
	AB1 A4 10x92 			150	120	150	120
BOIS	HBS 10x160 + HUS10 			-	-	80	160
	VGS 11x100 + HUS10 			88	100	88	100

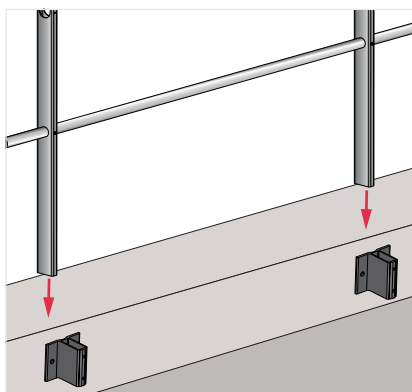
  Pour les distances minimales et modalités de pose, veuillez suivre les instructions originales du fabricant de la fixation

* 1 cartouche VIN-FIX pour 20 fixations ; utilisable avec pistolet FLY. Veuillez consulter les fiches techniques des ancrages sur le site www.rothoblaas.fr

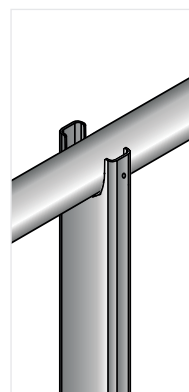
INSTALLATION



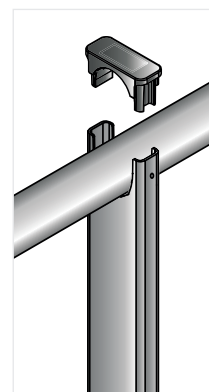
3 - Insérer une sous-lisse dans 2 montants.



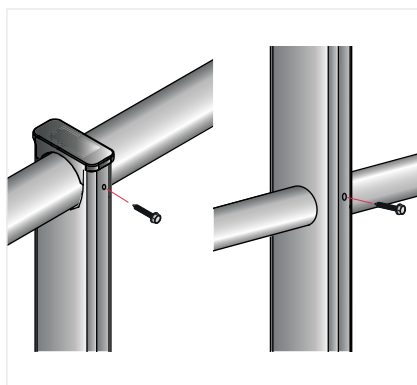
4 - Insérer le tout dans les bases.



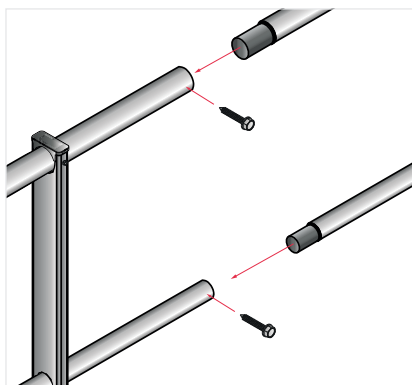
5 - Positionner la lisse sur les montants.



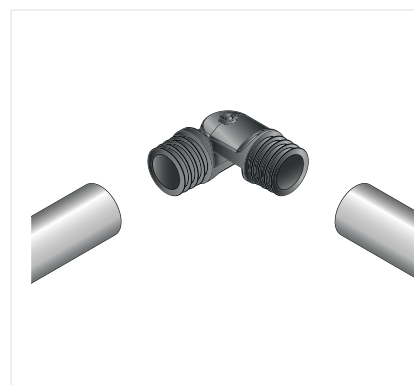
6 - Fermer la partie supérieure du montant.



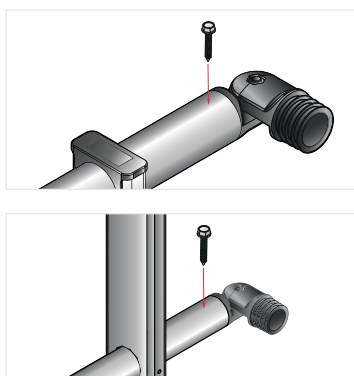
7 - Visser les vis 4,8 x 25 sur le montant au niveau de la lisse et de la sous-lisse.



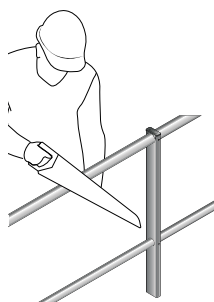
8 - Insérer les lisses et les sous-lisses des sections déjà montées et fixées avec des vis 4,8, x 16.



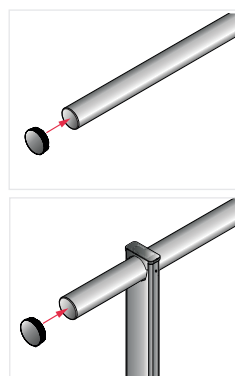
9 - Insérer les angles des lisses et des sous-lisses.



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



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



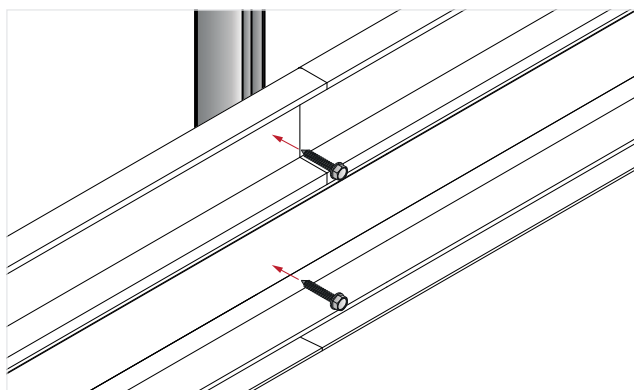
12 - Insérer les bouchons ou les éléments terminaux muraux sur les lisses ou les sous-lisses.



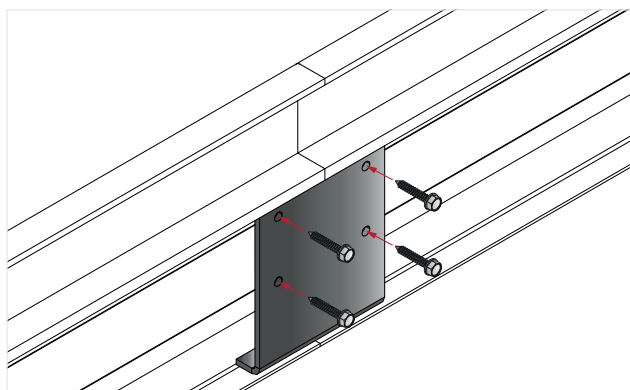
13 - Fixer les angles avec des vis autoforeuses 4,8 x 25.

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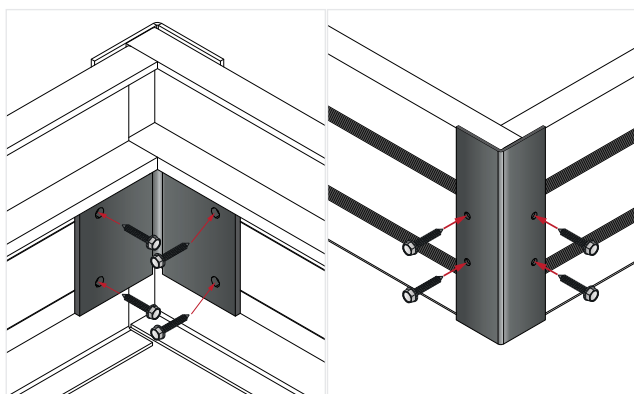
■ FIXATION DE LA PLINTHE GARDE-PIEDS



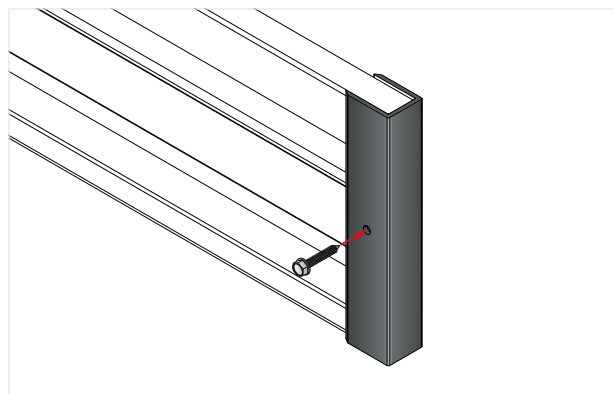
1 - Fixer la plinthe au montant avec 2 vis 4,8 x 25.



2 - Fixer les profils de la plinthe garde-pieds entre eux avec les connecteurs et 4 vis autoforeuses 4,8 x 16.



3 - Pour les angles, fixer les connecteurs internes et externes avec 8 vis autoforeuses 4,8 x 16.



4 - Enfin, fixer les bouchons de la plinthe avec 1 vis autoforeuse 4,8 x 16.

