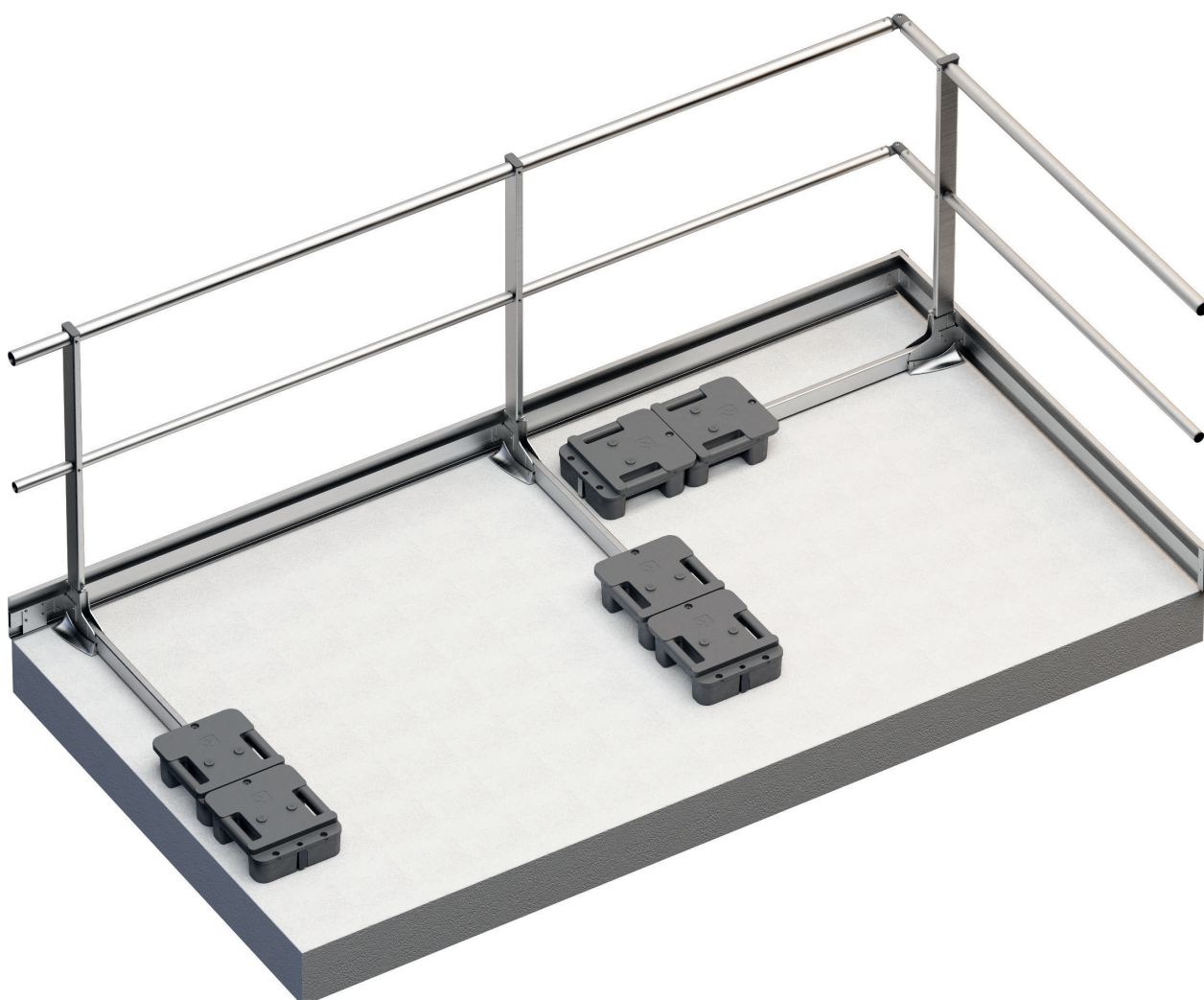


GUARD W INSTALLATION MANUAL



EN
14122-3:
2016

EN
13374+A1:
2018

NTC
2018

NF
E85-015:
2019

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MANUALE DI INSTALLAZIONE

DEFINIZIONE

Il parapetto GUARD autoportante è un dispositivo di protezione collettiva anticaduta. Costituisce la soluzione ideale per la messa in sicurezza delle coperture quando è tecnicamente impossibile effettuare saldature, fissarsi sulla veletta o sul solaio in cemento. Questo sistema evita le perforazioni o la necessità di un fissaggio sulla struttura. Il suo design permette un montaggio semplice e veloce del parapetto. Il contrappeso è un blocco in calcestruzzo da 12,5 kg, protetto da un involucro in ABS. La versione autoportante non va fissata alla struttura in alcun modo e non altera quindi l'integrità della copertura su cui viene posata. Il parapetto autoportante GUARD è anche una soluzione per la messa in sicurezza di lucernai. Permette anche di segnalare le zone di lavoro o di evacuazione.

NORMATIVE

Il parapetto autoportante GUARD rientra nel quadro della normativa europea EN ISO 14122-3 di marzo 2017, Sicurezza del macchinario - Mezzi di accesso permanenti al macchinario - Parte 3: Scale, scale a castello, parapetti.

Il parapetto autoportante GUARD ha superato con successo test e prove statiche e dinamiche richiesti dalla normativa EN ISO 14122-3.

Certificato di conformità: DEKRA n°5253744A/19 parapetto GUARD autoportante dritto, n°5253744A/21 parapetto GUARD autoportante inclinato.

RICHIAMO DELLE NORMATIVE

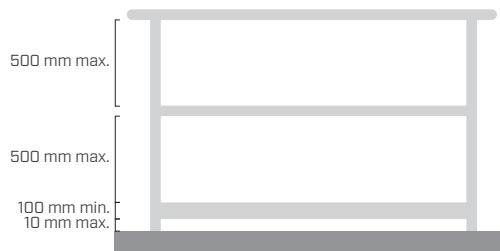
- Un parapetto deve essere installato quando l'altezza di caduta supera i 2000 mm (verificare le normative locali)
- L'altezza del corrimano del parapetto deve essere di almeno 1100 mm sopra la superficie di calpestio.
- Lo spazio libero tra il corrimano e il corrente intermedio e tra il corrente intermedio e il fermapiede deve essere inferiore o uguale a 500 mm.
- La tavola fermapiede (o bordo di arresto al piede) deve avere un'altezza minima di 100 mm. Se esiste uno spazio vuoto tra il fermapiede e la superficie di calpestio, esso non deve superare i 10 mm.
- Si devono installare 3 contrappesi (37,5 kg) sulla gamba di sostegno situata all'estremità, per ogni sezione che finisce con un tappo.
- ATTENZIONE:** Deve essere presente obbligatoriamente un muro perimetrale al bordo del tetto. In caso contrario, si prega di contattare il nostro ufficio.
- Se il corrimano è interrotto, 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.

PARAPETTO SENZA TAVOLA FERMAPIEDE



con cordolo maggiore di 150 mm

PARAPETTO CON TAVOLA FERMAPIEDE



senza cordolo o inferiore a 150 mm

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- Con muro perimetrale fino a 20 mm il parapetto autoportante è vietato. Da 20 mm a 100 mm si usa il fermapiede. Oltre i 100 mm il fermapiede non è necessario.

USO - MANUTENZIONE

- La persona che svolge l'installazione del parapetto GUARD deve essere una persona qualificata che rispetta le regole di utilizzo riguardante i lavori in altezza. Deve quindi, prima dell'uso, garantire la sua propria sicurezza (utilizzo di una linea di vita temporanea, DPI, piattaforma, ecc...).
- Prima dell'uso, l'utente deve assicurarsi mediante un controllo visivo che il parapetto GUARD non presenta 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 una persona 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 di non più farne uso prima che una persona competente ne abbia autorizzato per iscritto il suo riutilizzo, dopo ispezione e verifica.
- Se il prodotto è rivenduto fuori dal primo Paese di destinazione, è essenziale per la sicurezza dell'utente che il rivenditore fornisca l'istruzione per l'uso nella lingua del Paese di utilizzazione 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 dai professionisti sulle coperture non accessibili al pubblico.
- L'uso di una tavola fermapiede GUARD è obbligatorio se la terrazza non ha una veletta o se questa è inferiore a 100 mm.
- Se è installato in un ambiente inquinato industriale, petrolchimico, navale, o in riva al mare, il parapetto GUARD dovrà necessariamente essere sottoposto ad un trattamento superficiale adeguato come verniciatura a polvere, anodizzazione, etc.
- È proibito utilizzare le maniglie per il sollevamento della zavorra da terra al tetto.



STOCCAGGIO

I componenti in alluminio grezzo sono confezionati in contatto tra loro. L'azione della pioggia, sulla confezione non aperta, faciliterà l'ossidazione di questi componenti. In questo caso, delle macchie di superficie possono apparire. Queste non rimettono 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 tra di loro, (nessun contatto tra di loro), o di conservare i pacchetti ancora impacchettati al secco.

INSTALLAZIONE E ZONE DI VENTO

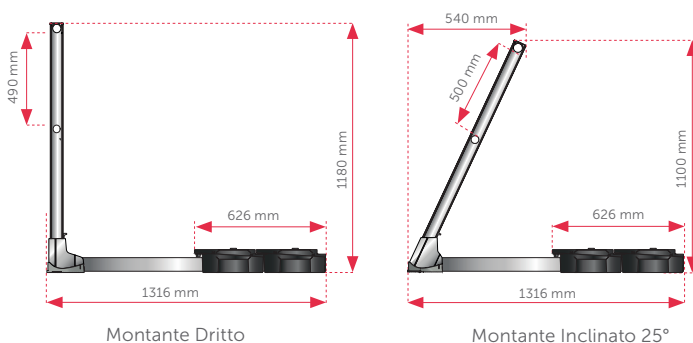
Il parapetto autoportante GUARD standard (2 contrappesi per ogni gamba di sostegno, 3 contrappesi per le gambe di sostegno situate alle estremità) è compatibile con la zona di vento 1 (sito protetto, normale ed esposto), la zona di vento 2 (sito protetto e normale) e la zona di vento 3 (sito protetto e normale). Sia solo per informazione, una velocità massima del vento di 166 km/h*.

Qualsiasi altra configurazione richiede precauzioni speciali (aggiunta di contrappesi) che devono essere studiate e validate in precedenza dal nostro ufficio di progettazione. Rothoblaas non può essere ritenuta responsabile per qualsiasi installazione che non sia conforme a queste raccomandazioni.

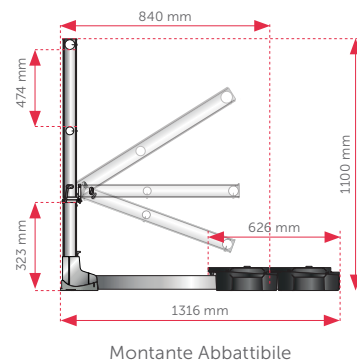
**Riferimento normativo: Norma NV 65 (DTU P 06-002) e Euro-code1 EN1991-1-4.*

DIMENSIONI

Dimensioni dei montanti:

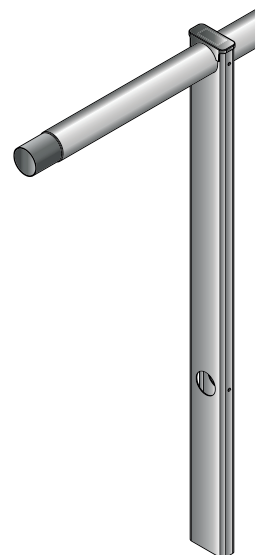


Dimensioni della base:



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 W

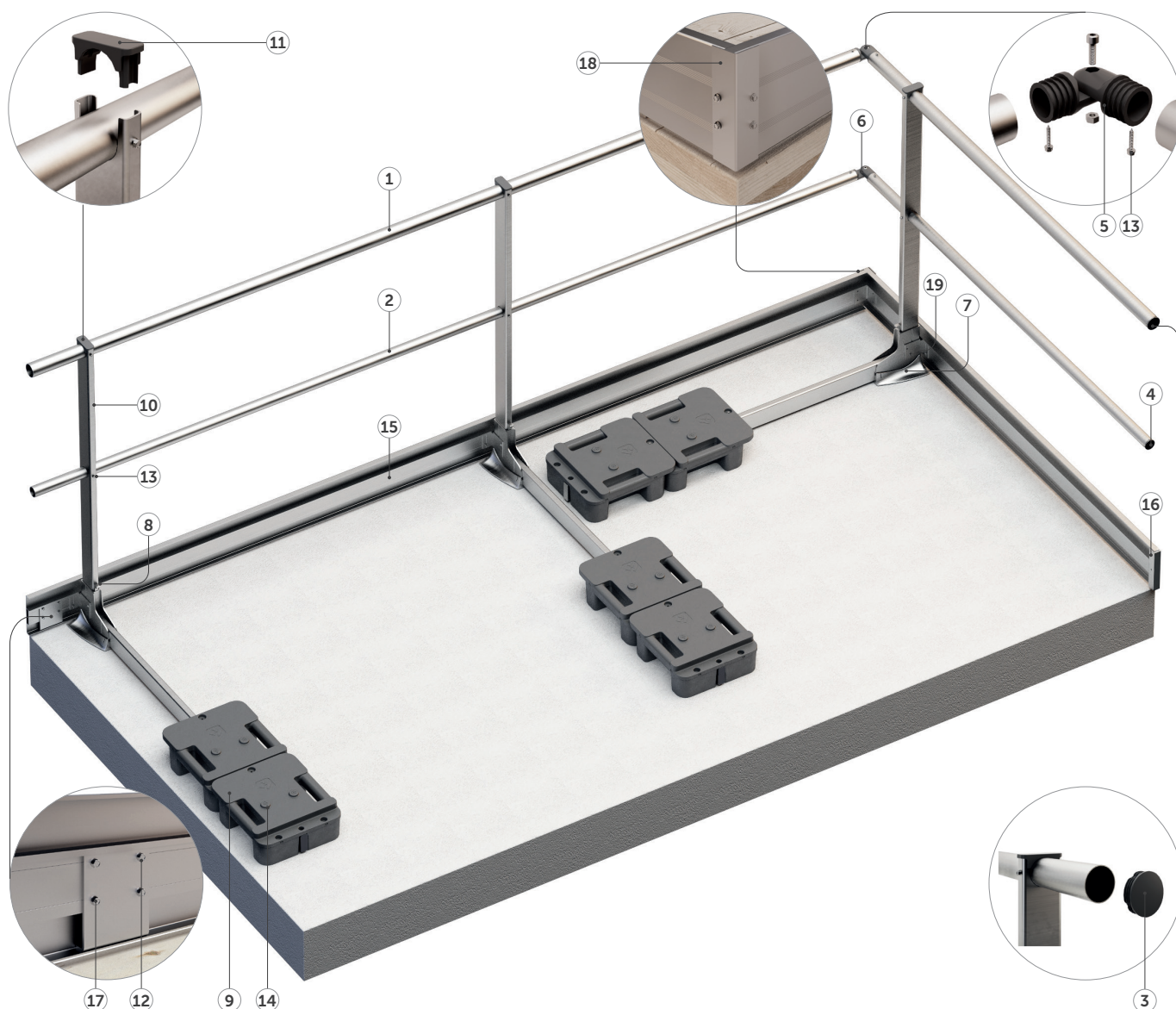
PARAPETTO AUTOPORTANTE

EN
14122-3:
2016

EN
13374+A1:
2018

NTC
2018

NF
E85-015:
2019



CODICE	descrizione
1 RBGBAR45	corrimano Ø45 mm con ghiera incassabili L = 3000 mm
2 RBGBAR35	corrente intermedio Ø35 con ghiera 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 RBGBASEW	base per autoportante GUARD W dritta con gamba di sostegno
8 RBGBASEWE	cuneo di bloccaggio per GUARD W
9 RBGWEIGHT	contrappeso di plastica 12,5 kg per GUARD W
10 RBGSUP110	montante dritto H = 1105 mm incavo Ø45 mm
10 RBGSUP118	montante dritto H = 1182 mm incavo Ø45 mm

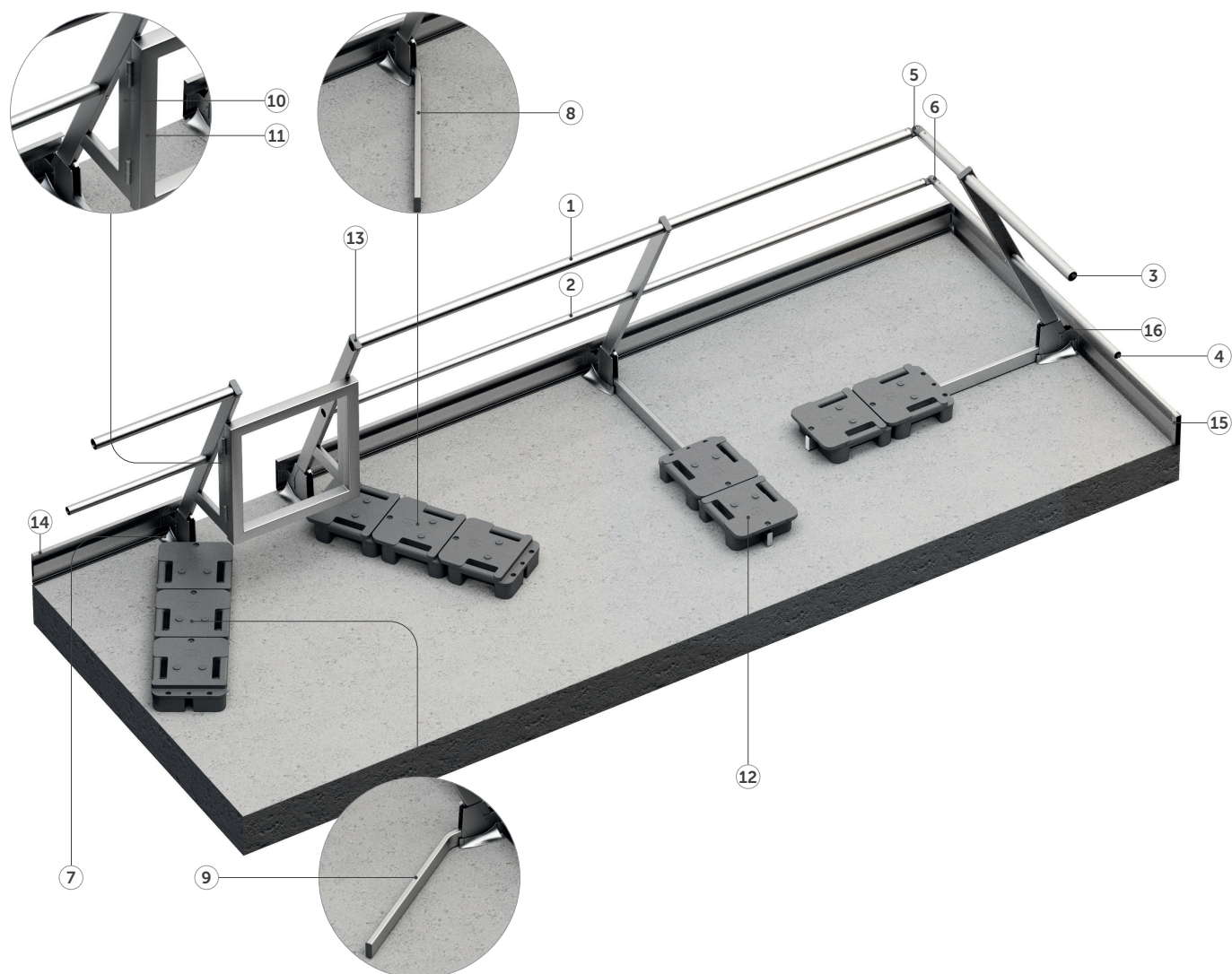
CODICE	descrizione
11 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
12 RBGSCR4816	vite autoforante 4,8 x 16 mm INOX
13 RBGSCR4825	vite autoforante 4,8 x 25 mm INOX
14 RBGSCR4850	vite autoforante 4,8 x 50 mm INOX
15 RBGTB	tavola fermapiède 3000 x 150 x 19 mm
16 RBGTBCAP	tappo per tavola fermapiède H = 150 mm
17 RBGTBJUN	connettore dritto tavola fermapiède H = 150 mm
18 RBGTBCOR	rinvio d'angolo tavola fermapiède H = 150 mm
19 RBGTBH	supporto per tavola fermapiède H = 150 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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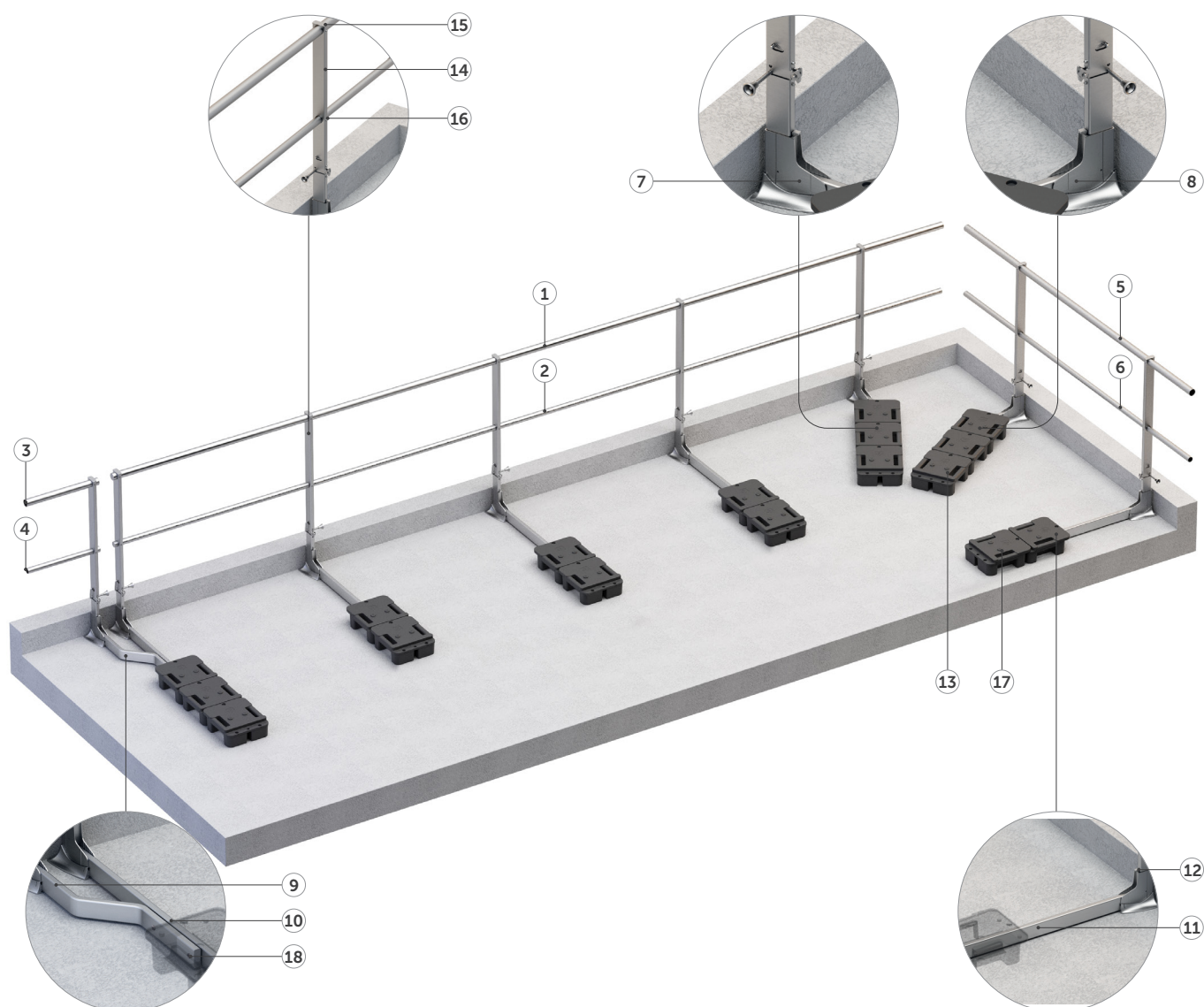


CODICE	descrizione
1 RBGBAR45	corrimano Ø45 mm con ghiera incassabili L = 3000 mm
2 RBGBAR35	corrente intermedio Ø35 con ghiera incassabili L = 3000 mm
3 RBGCAP45	tappo per corrimano Ø45 mm
4 RBGCAP35	tappo per corrente intermedio Ø35 mm
5 RBGCOR45	angolo per corrimano Ø45 mm
6 RBGCOR35	angolo per corrente intermedio Ø35 mm
5-6 RBGCORAL	angolo in alluminio per corrimano e corrente intermedio (alternativo a RBGCOR45/ RBGCOR35)
7 RBGBASEWI	base per autoportante GUARD W inclinata con gamba di sostegno
8 RBGBASEWIFCR NEW	gamba di sostegno per montante inclinato curva destra 25°
9 RBGBASEWIFCL NEW	gamba di sostegno per montante inclinato curva sinistra 25°
10 RBGGATEWISUP NEW	supporto per cancello montante inclinato

CODICE	descrizione
RBGGATE600	portello di sicurezza 500 mm di altezza con cerniere montate, L = 600 mm
11 RBGGATE1100	portello di sicurezza 500 mm di altezza con cerniere larghezza, L = 1100 mm
12 RBGWEIGHT	contrappeso di plastica 12,5 kg per GUARD W
CODICE	descrizione
13 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
14 RBGTB	tavola fermapiede 3000 x 150 x 19 mm
15 RBGTBCAP	tappo per tavola fermapiede H = 150 mm
16 RBGTBH	supporto per tavola fermapiede H = 150 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

GUARD W | sistema reclinabile

PARAPETTO AUTOPORTANTE RECLINABILE



CODICE	descrizione
1 RBGBAR45	corrimano Ø45 mm con ghiere incassabili L = 3000 mm
2 RBGBAR35	corrente intermedio Ø35 con ghiere incassabili L = 3000 mm
5 RBGBAR45F	corrimano senza ghiere incassabili Ø45 mm L = 3000 mm
6 RBGBAR35F	corrente intermedio senza ghiere incassabili Ø35 mm L = 3000 mm
3 RBGCAP45	tappo per corrimano Ø45 mm
4 RBGCAP35	tappo per corrente intermedio Ø35 mm
7 RBGBASEWFCR	gamba di sostegno per montante inclinato curva destra 25°
8 RBGBASEWFCL	gamba di sostegno per montante inclinato curva sinistra 25°
9 RBGBASEWFL	gamba di sostegno con curva a sinistra per parapetto abbattibile
10 RBGBASEWF	base per autoportante GUARD W con fori
11 RBGBASEW	base per autoportante GUARD W dritta con gamba di sostegno
12 RBGBASEWE	cuneo di bloccaggio per GUARD W

CODICE	descrizione
13 RBGWEIGHT	contrappeso di plastica 12,5 kg per GUARD W
RBGSUP100F	montante abbattibile H = 1010 mm incavo Ø45 mm
14 RBGSUP110F	montante abbattibile H = 1105 mm incavo Ø45 mm
CODICE	descrizione
15 RBGCAP	tappo montante 68 x 28 mm incavo Ø45 mm
16 RBGSCR4825	vite autoforante 4,8 x 25 mm INOX
17 RBGSCR4850	vite autoforante 4,8 x 50 mm INOX
18 RBGBASEWFKIT NEW	kit per il fissaggio GUARD W - F

Per fissaggio a muro:

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

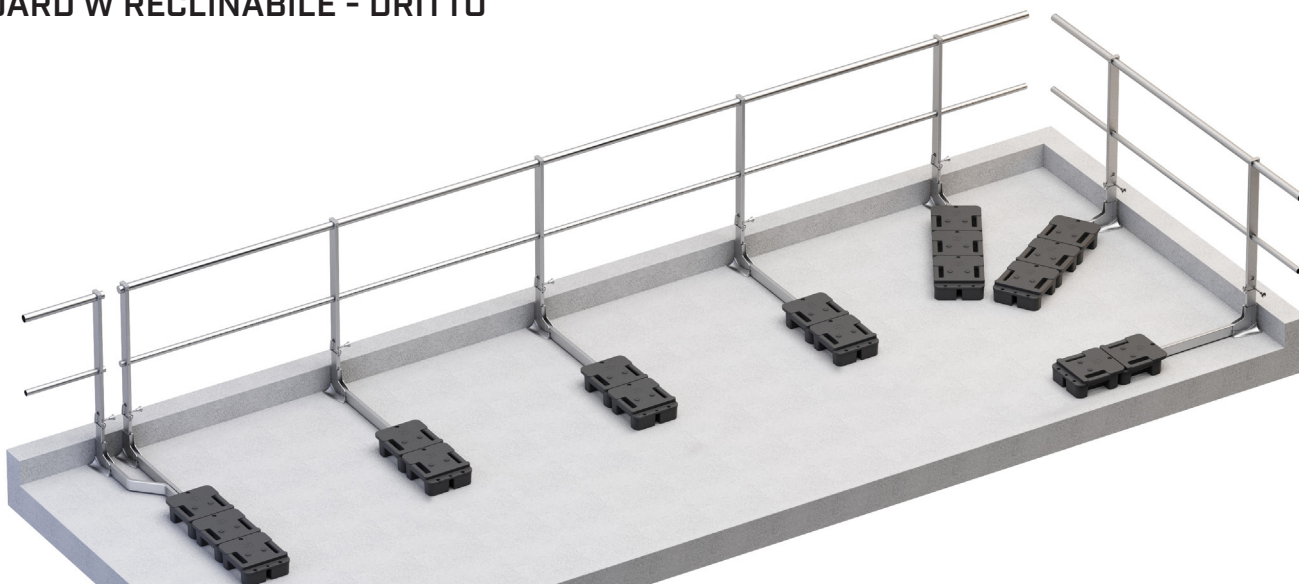
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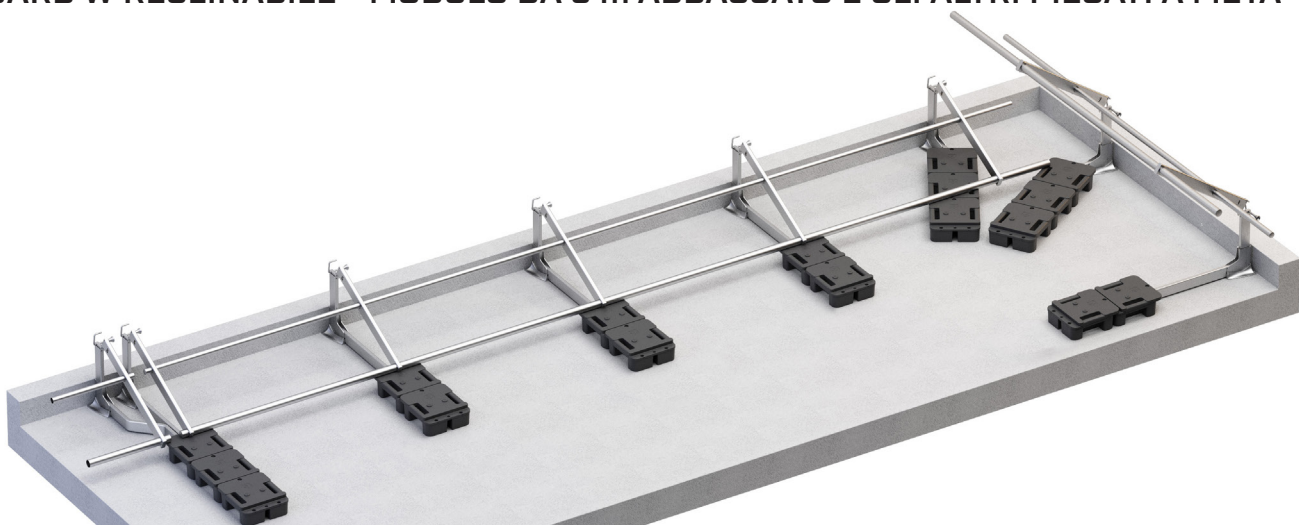
GUARD W | sistema reclinabile

Il parapetto ribaltabile GUARD è costituito da moduli con lunghezza variabile da 6, 12 o 18 m. Oltre ai 12 m si richiedono almeno due operatori per cambiare l'inclinazione del parapetto. Fare riferimento al Manuale di installazione per maggiori informazioni.

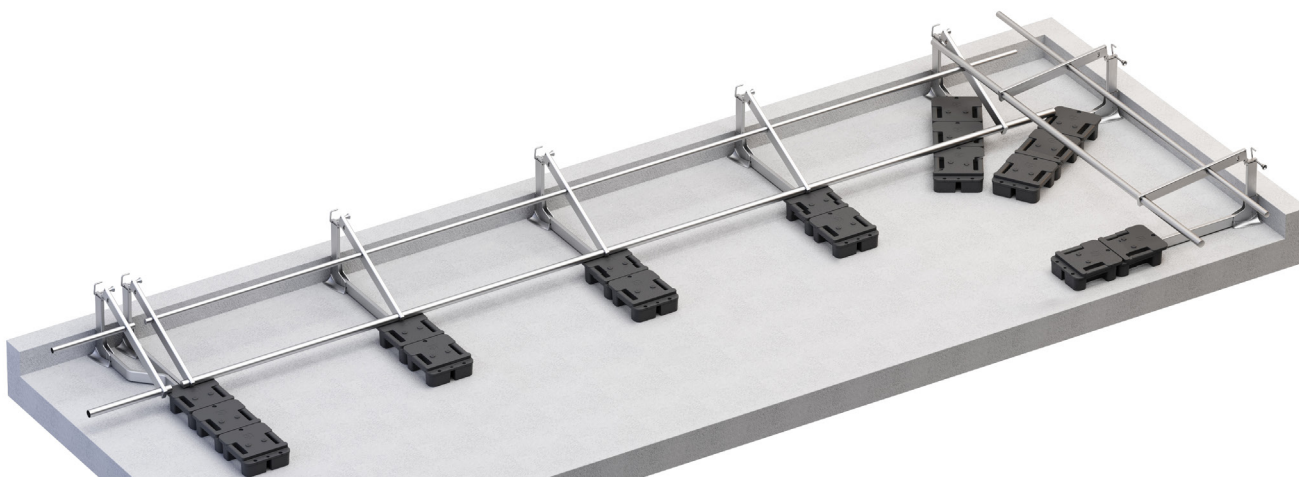
GUARD W RECLINABILE - DRITTO



GUARD W RECLINABILE - MODULO DA 6 m ABBASSATO E GLI ALTRI PIEGATI A METÀ

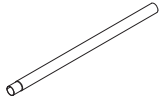
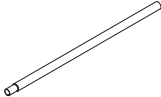
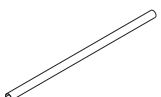
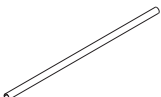
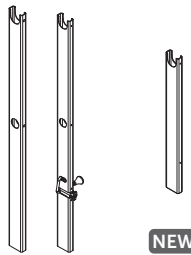
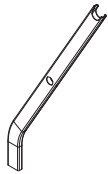
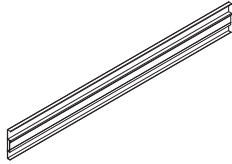
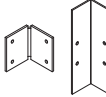


GUARD W RECLINABILE - TUTTI I MODULI PIEGATI



GUARD | componenti

CODICI E DIMENSIONI

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

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GUARD | componenti

CODICI E DIMENSIONI

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

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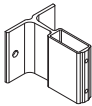
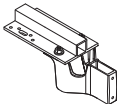
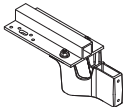
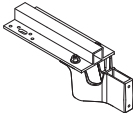
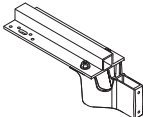
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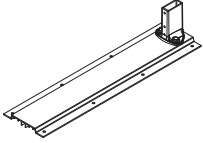
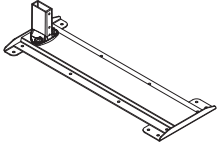
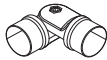
IT
DE
EN
ES
FR

GUARD | componenti

CODICI E DIMENSIONI

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

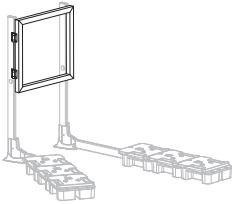
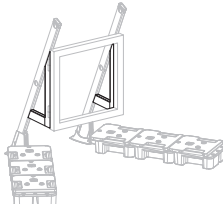
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GRUPPO	CODICE	descrizione	pz.	
BASI PER FISSAGGIO SU LAMIERA GRECATA	RBGBASE250PA	piastra per fissaggio a lamiera grecate passo 250 mm, GUARD parallelo alle greche (escluse viti)	1	
	RBGBASE333PA	piastra per fissaggio a lamiera grecate passo 333 mm,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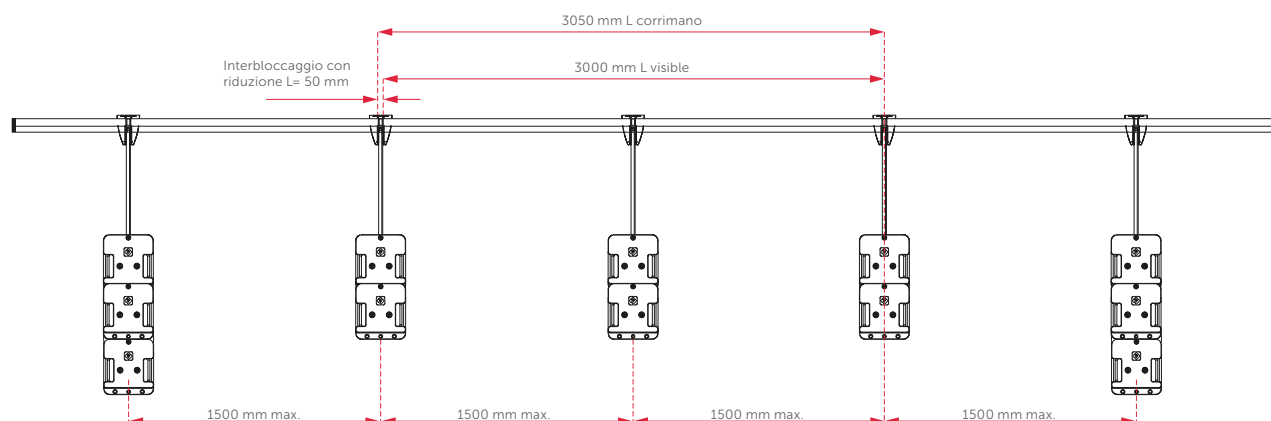
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CODICI E DIMENSIONI

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	

IMPIANTO DEL PARAPETTO AUTOPORTANTE GUARD (EN 14122-3)

MONTAGGIO DEL PARAPETTO IN LINEA DRITTA



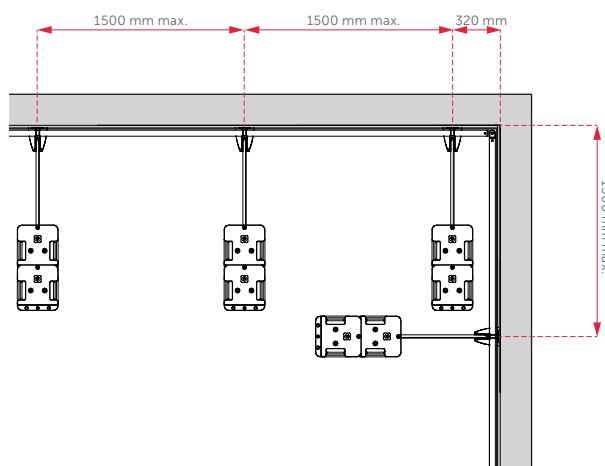
NTC 2018:

L'interasse max per l'NTC 2018 è 750 mm e vanno messe n.3 zavorre per supporto

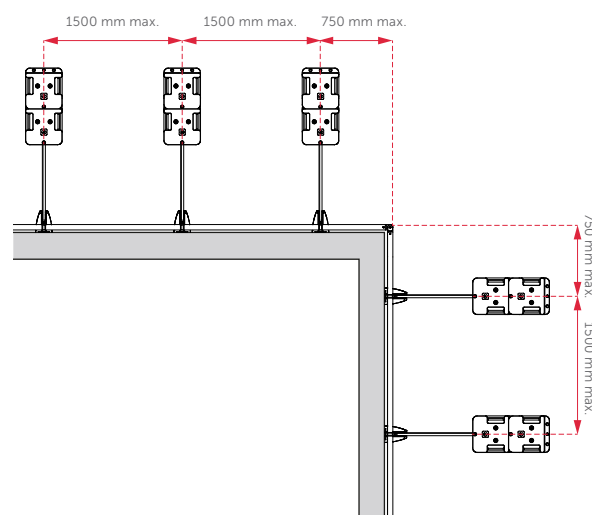
EN 13374+A1 :2018:

L'interasse max per la EN 13374 è di 2500 mm

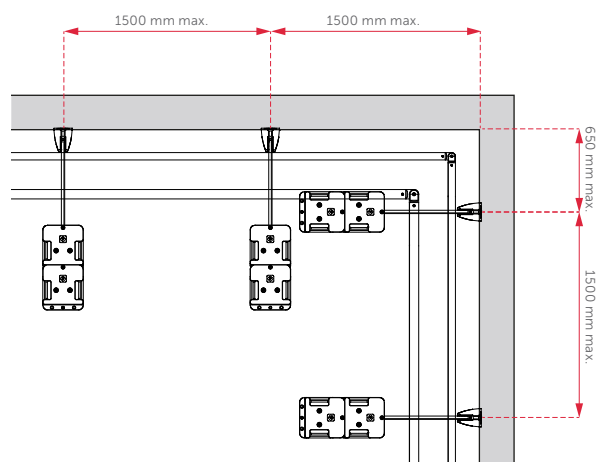
MONTAGGIO AUTOPORTANTE DRITTO - ANGOLO ESTERNO



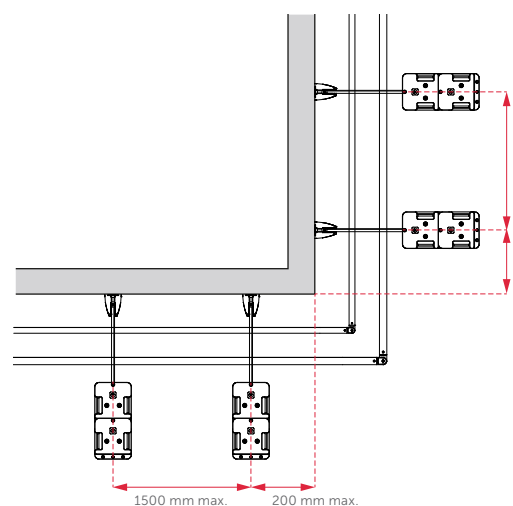
MONTAGGIO AUTOPORTANTE DRITTO - ANGOLO INTERNO



MONTAGGIO AUTOPORTANTE INCLINATO - ANGOLO ESTERNO



MONTAGGIO AUTOPORTANTE INCLINATO - ANGOLO INTERNO

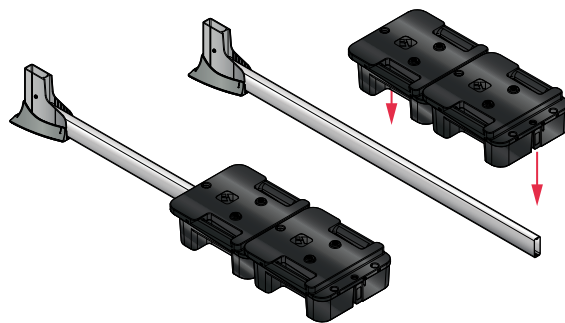
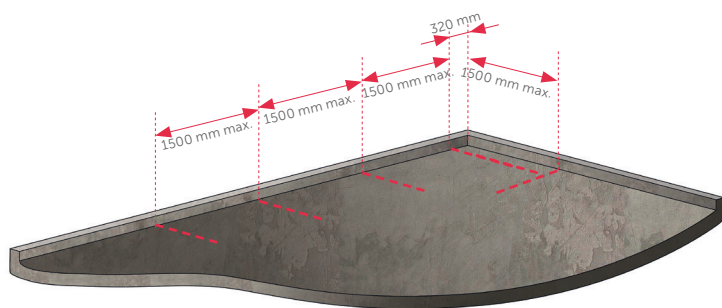


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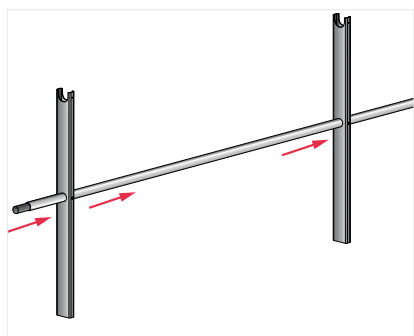
INSTALLAZIONE

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

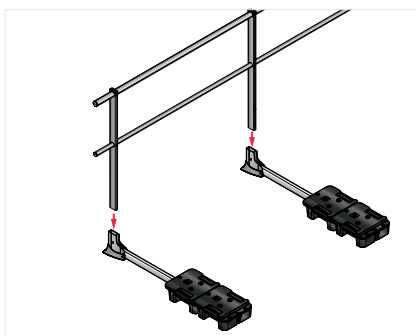


1 - Tracciare un punto di riferimento ad ogni 1500 mm al massimo e rimuovere la ghiaia se necessario al fine di posizionare il parapetto.

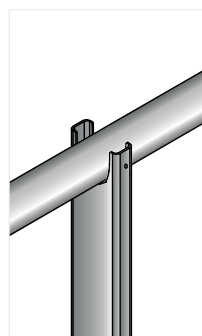
2 - Posizionare e regolare i contrappesi sulla gamba di sostegno affinché essa non superi il contrappeso.



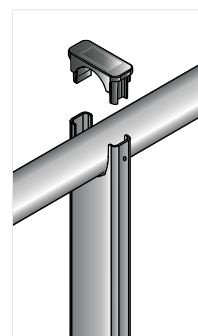
3 - Inserire un corrente intermedio in 2 montanti.



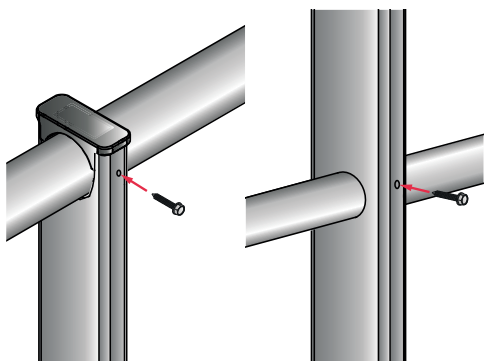
4 - Inserire l'insieme corrente intermedio + montanti nelle basi.



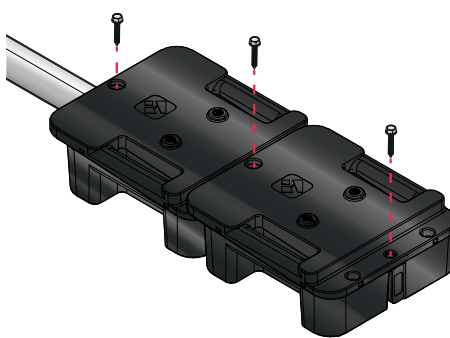
5 - Posizionare il corrimano sui montanti



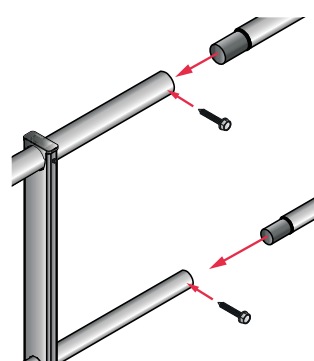
6 - Attaccare la parte superiore del montante.



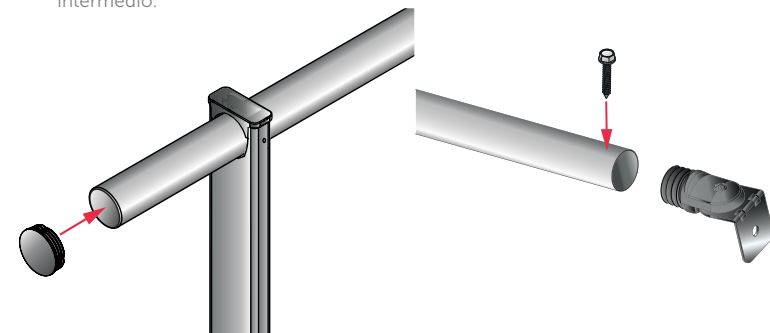
7 - Avvitare le viti autoforanti 4,8 x 25 mm sul montante a livello del corrimano e del corrente intermedio.



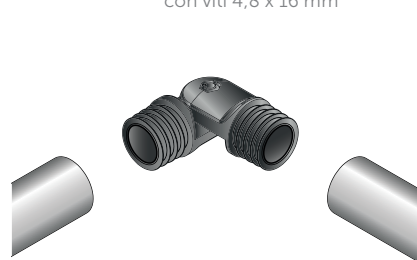
8 - Una volta montato l'insieme del parapetto stringere le viti autoforanti 4,8 x 50 mm indicato



9 - Assemblare i corrimani e i correnti intermedi fissando con viti 4,8 x 16 mm



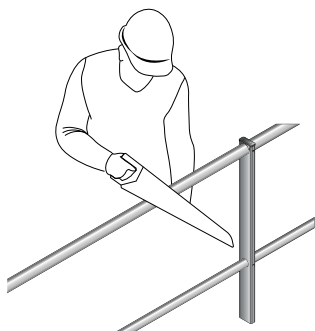
10 - Inserire i tappi o le terminazioni a muro ai corrimani o correnti intermedi.



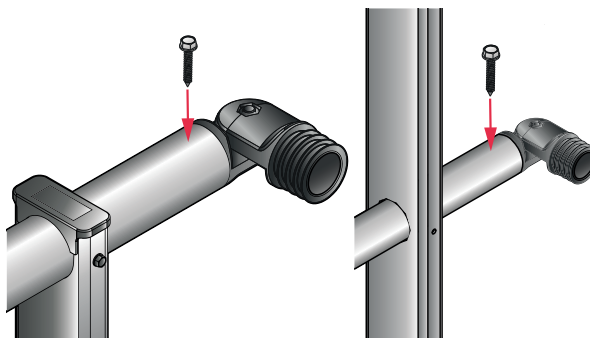
11 - Inserire gli angoli dei corrimani o dei correnti intermedi

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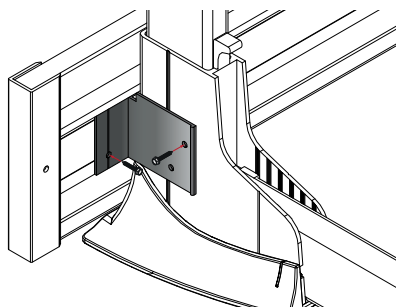


12 - Adattare l'ultima sezione tagliando la parte in eccedenza.

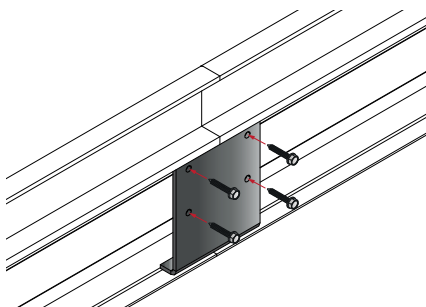


13 - Fissare gli angoli con viti autoforanti 4,8 x 25 mm

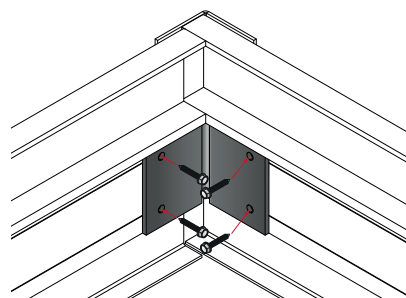
FISSAGGIO DELL'ASSE FERMAPIEDE



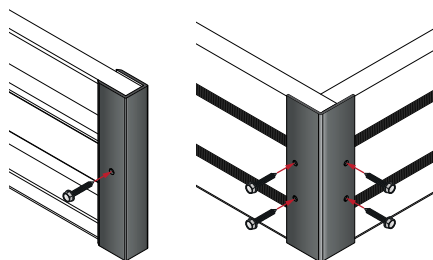
1 - Posizionare il supporto del fermapiEDE sulla base e fissarla con 4 viti autoforanti 4,8 x 16 mm (2 viti per ogni lato).



2 - Fissare le lunghezze della tavola fermapiEDE tra loro attraverso i connettori e 4 viti autoforanti 4,8 x 16 mm.

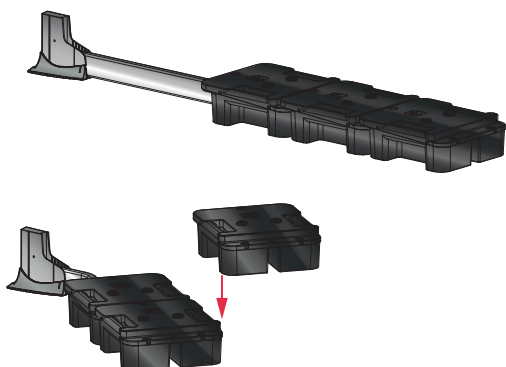


3 - Per gli angoli, fissare i connettori interni ed esterni con 8 viti autoforanti 4,8 x 16 mm.

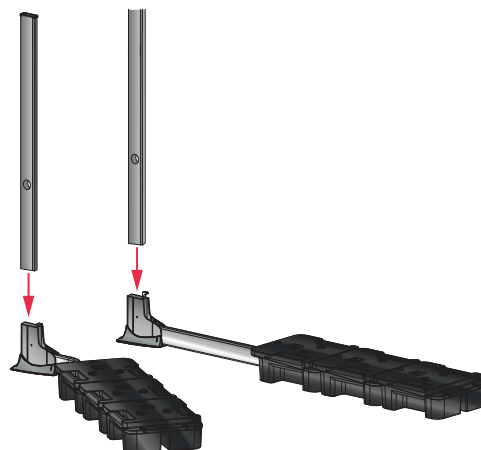


4 - Infine, fissare i tappi della tavola fermapiEDE con 1 vite autoforante 4,8 x 16 mm.

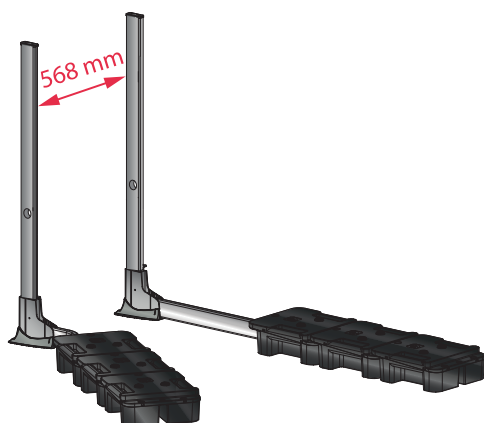
MONTAGGIO DEL CANCELLETTO DI SICUREZZA H 580 MM PER IL PARAPETTO AUTOPORTANTE DRITTO



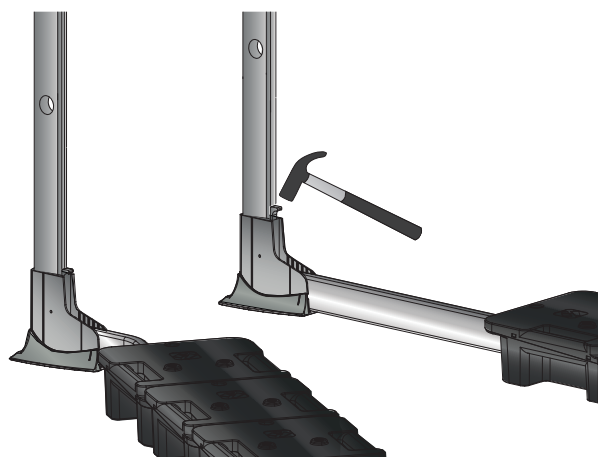
1 - Infilare i contrappesi nella gamba di sostegno curva. Il tubo della gamba deve raggiungere il livello del secondo contrappeso di plastica. Il terzo contrappeso è installato all'esterno della gamba.



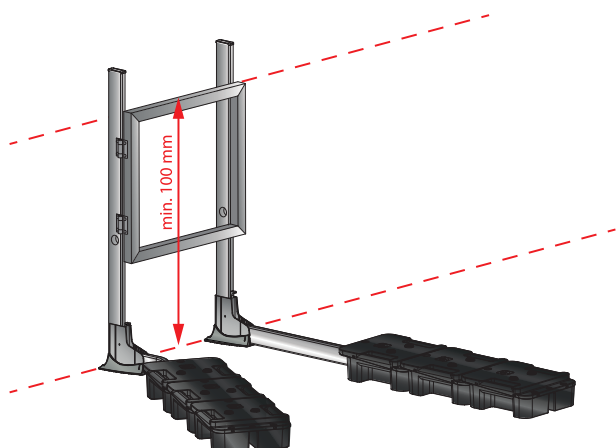
2 - Inserire i montanti nelle basi.



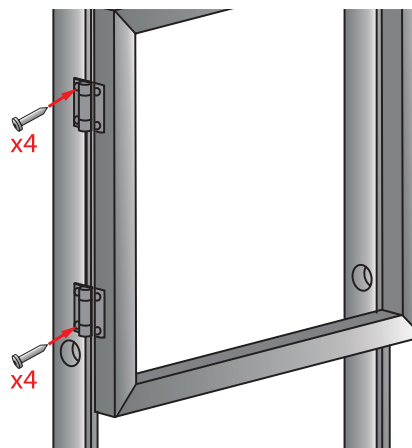
3 - Posizionare i montanti e le gambe di sostegno con un interasse di 568 mm.



4 - Con un martello inserire il cuneo di bloccaggio tra il montante e la base.



5 - Posizionare il cancello di sicurezza ad un'altezza minima di 1000 mm dal suolo.



6 - Fissare le cerniere del cancelletto di sicurezza mediante le viti DRILLNOX DBS2 6x25 mm fornite nel kit.

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INSTALLATIONSANLEITUNG

IT

DE

EN

ES

FR

DEFINITION

Das selbsttragende Geländer GUARD ist eine kollektive Schutz-
einrichtung zur Absturzsicherung. Wenn Schweißarbeiten tech-
nisch nicht möglich sind, ist dies die ideale Lösung zur Siche-
rung der Dächer, da sie auf Schutzmauern oder Zementböden
befestigt werden kann. Perforationen oder die Befestigung an
der Konstruktion sind für dieses System nicht erforderlich. Sein
Gestaltung ermöglicht eine schnelle und einfache Montage des
Geländers. Als Gegengewicht dient ein 12,5 kg Betonblock in ei-
ner ABS-Ummantelung. Die selbsttragende Ausführung wird in
keiner Weise an der Konstruktion befestigt und verändert somit
auch nicht den Originalzustand des Dachs, auf dem sie montiert
wird. Das selbsttragende Geländer GUARD ist auch eine Lösung
für die Sicherung von Oberlichtern. Außerdem können damit Ar-
beits- oder Evakuierungsbereiche gekennzeichnet werden.

NORMEN

Das selbsttragende Geländer GUARD unterliegt der EU-Norm EN
ISO 14122-3 vom März 2017, Sicherheit von Maschinen - Ortsfes-
te Zugänge zu maschinellen Anlagen - Teil 3: Treppen, Treppen-
leitern und Geländer.

Das selbsttragende Geländer GUARD hat die statischen und dyn-
amischen Tests und Prüfungen nach EN ISO 14122-3 erfolg-
reich bestanden.

Konformitätserklärung: DEKRA Nr. 5253744A/19 selbsttragendes
Geländer GUARD, Nr.*5253744A/21 geeignetes selbsttragendes
Geländer GUARD.

VERWEIS AUF VERORDNUNGEN

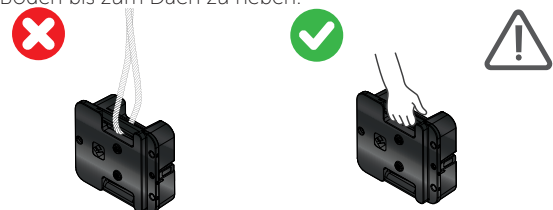
- Ein Geländer muss installiert werden, wenn die Fallhöhe 2000
mm überschreitet (lokale Vorschriften überprüfen).
- Die Höhe des Geländer-Handlaufs muss mindestens 1100 mm
über der begehbaren Fläche liegen.
- Der Freiraum zwischen Handlauf und Mittellauf sowie zwi-
schen Mittellauf und Fußleiste muss kleiner oder gleich 500
mm sein.
- Die Fußleiste (bzw. die Fußleiste) muss mindestens 100 mm
hoch sein. Wenn zwischen dem Bordbrett und der begehbaren
Fläche ein Leerraum ist, darf dieser 10 mm nicht über-
schreiten.
- Am Stützfuß, der sich am Ende befindet, müssen für jeden Ab-
schnitt, der mit einer Kappe endet, 3 Gegengewichte (37,5 kg)
installiert werden.
- **ACHTUNG:** An der Dachkante muss eine Begrenzungsmauer
vorhanden sein. Sollte dies nicht der Fall sein, wenden Sie sich
bitte an unsere Abteilung.
- Wenn der Handlauf unterbrochen ist, darf der Freiraum zwi-
schen zwei Segmenten des Handlaufs zwischen 75 mm und
120 mm breit sein. Sollten Durchgangspunkte mit Absturz-
gefahr vorhanden sein, müssen diese durch ein automatisch

schließendes Tor mit Handlauf und Mittellauf gesichert wer-
den.

- Bei einer Außenwand bis 20 mm ist das selbsttragende Ge-
länder verboten. Von 20 mm bis 100 mm wird die Fußleiste
verwendet. Über 100 mm hinaus ist die Fußleiste nicht erfor-
derlich.

VERWENDUNG - WARTUNG

- Die Person, welche die Montage des Geländers GUARD vor-
nimmt, muss entsprechend qualifiziert sein und die Nutzungs-
vorschriften 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 erfor-
derlich; jedoch muss es mindestens einmal jährlich von einer
sachkundigen Person 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 eine sachkundi-
ge Person den Wiedereinsatz nach 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 Gebrauchsanweisungen in der
Sprache des Landes bereitstellt, in dem das Produkt verwendet
wird. Diese Unterlagen können auf Anfrage durch den Herstel-
ler zur Verfügung gestellt werden.
- Das Geländer GUARD ist eine permanente kollektive Schutz-
einrichtung, die von Fachleuten auf Dächern verwendet wird,
welche für die Öffentlichkeit nicht zugänglich sind.
- Wenn die Terrasse keine Schutzmauer aufweist bzw. diese
niedriger als 100 mm ist, muss in jedem Fall eine Fußleiste GU-
ARD verwendet werden.
- Bei der Montage in einer verschmutzten Industrie-, Petroche-
mie-, Marine- oder Meeresumgebung muss die Oberfläche
des Geländers GUARD entsprechend behandelt, d. h. einer
Pulverlackierung, Eloxierung usw. unterzogen werden.
- Es ist verboten, die Griffe zu verwenden, um die Auflast vom
Boden bis zum Dach zu heben.



GELÄNDER OHNE FUSSLEISTE



mit Attika über 150 mm

GELÄNDER MIT FUSSLEISTE



ohne Attika oder unter 150 mm

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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 Pakete noch verschlossen an einem trockenen Ort aufzubewahren.

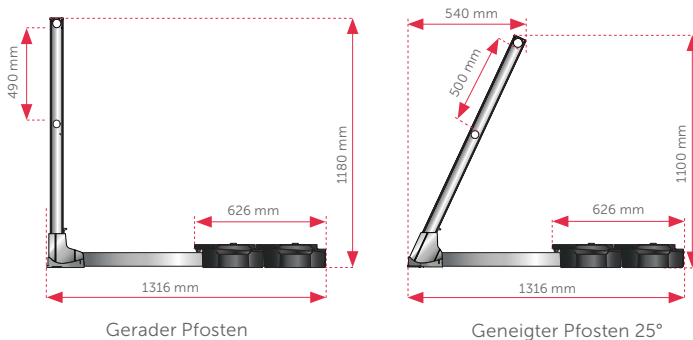
INSTALLATION UND WINDZONEN

Das selbsttragende Geländer GUARD in der Standard-Ausführung (2 Gegengewichte für jeden Stützfuß, 3 Gegengewichte für die Stützfüße an den Enden) ist kompatibel mit Windzone 1 (geschützter, normaler und exponierter Standort), Windzone 2 (geschützter und normaler Standort) und Windzone 3 (geschützter und normaler Standort). Maximale Windgeschwindigkeit von 166 km/h* (Angabe nur zur Information).

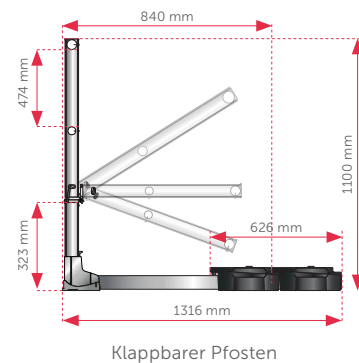
Jede andere Konfiguration benötigt besondere Vorsichtsmaßnahmen (weitere Gegengewichte), die im Vorfeld mit unserer Planungsabteilung ausgearbeitet und validiert werden müssen. Rothoblaas kann nicht für Installationen haftbar gemacht werden, die diesen Vorgaben nicht entsprechen.

ABMESSUNGEN

Abmessungen der Pfosten:

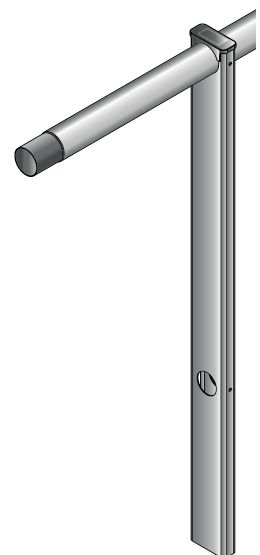


Sockelabmessungen:



OPTIMIERTE MONTAGE

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



GUARD W

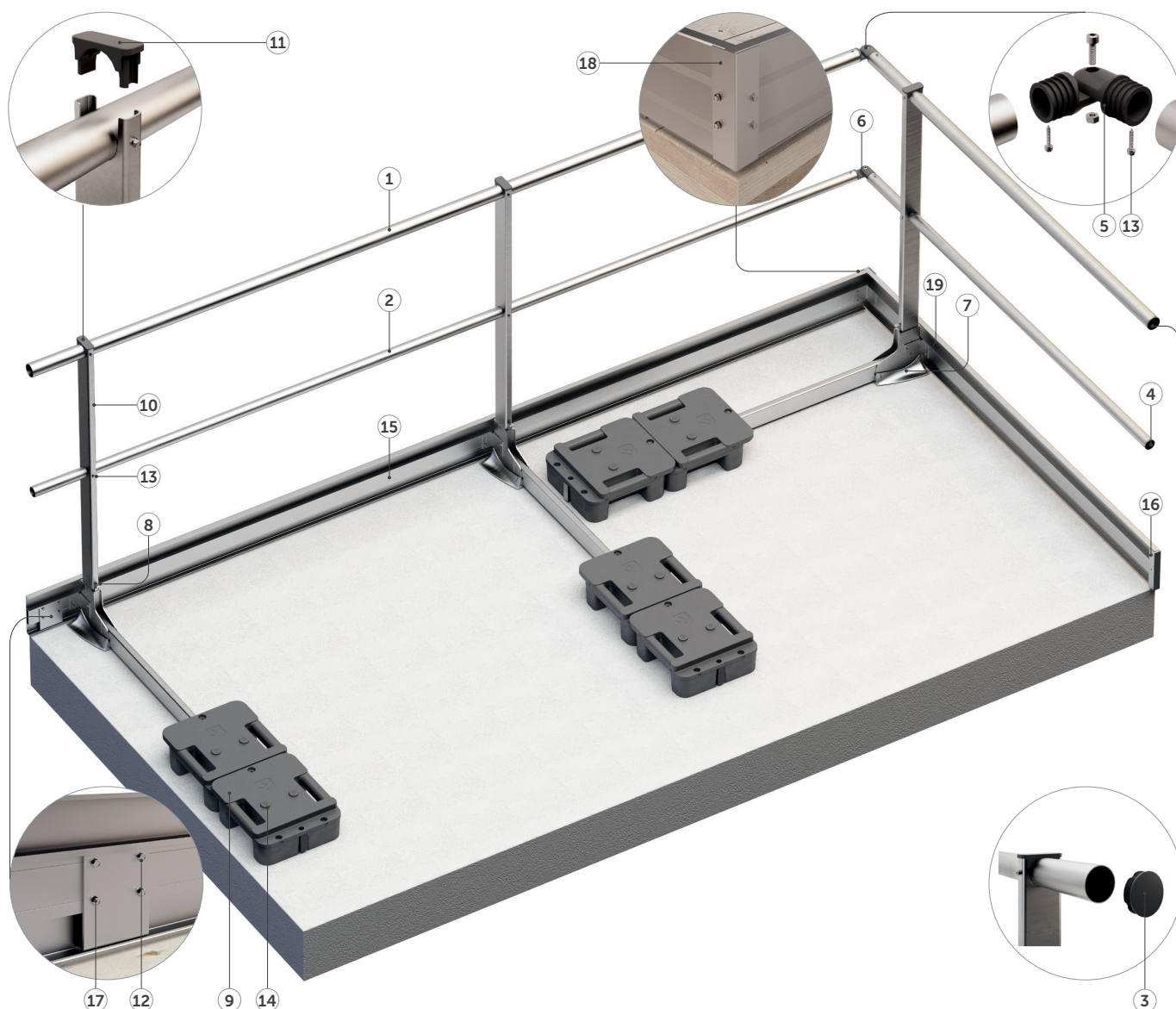
SELBSTTRAGENDES GELÄNDER

EN
14122-3:
2016

EN
13374+A1:
2018

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)
7 RBGBASEW	Grundplatte für gerades selbsttragendes Geländer GUARD W mit Stützfuß
8 RBGBASEWE	Sicherungskeil für GUARD W
9 RBGWEIGHT	Gegengewicht aus Kunststoff 12,5 kg für GUARD W
RBGSUP110	Gerader Pfosten H = 1105 mm mit Aufnahme Ø45 mm
10 RBGSUP118	Gerader Pfosten H = 1182 mm mit Aufnahme Ø45 mm

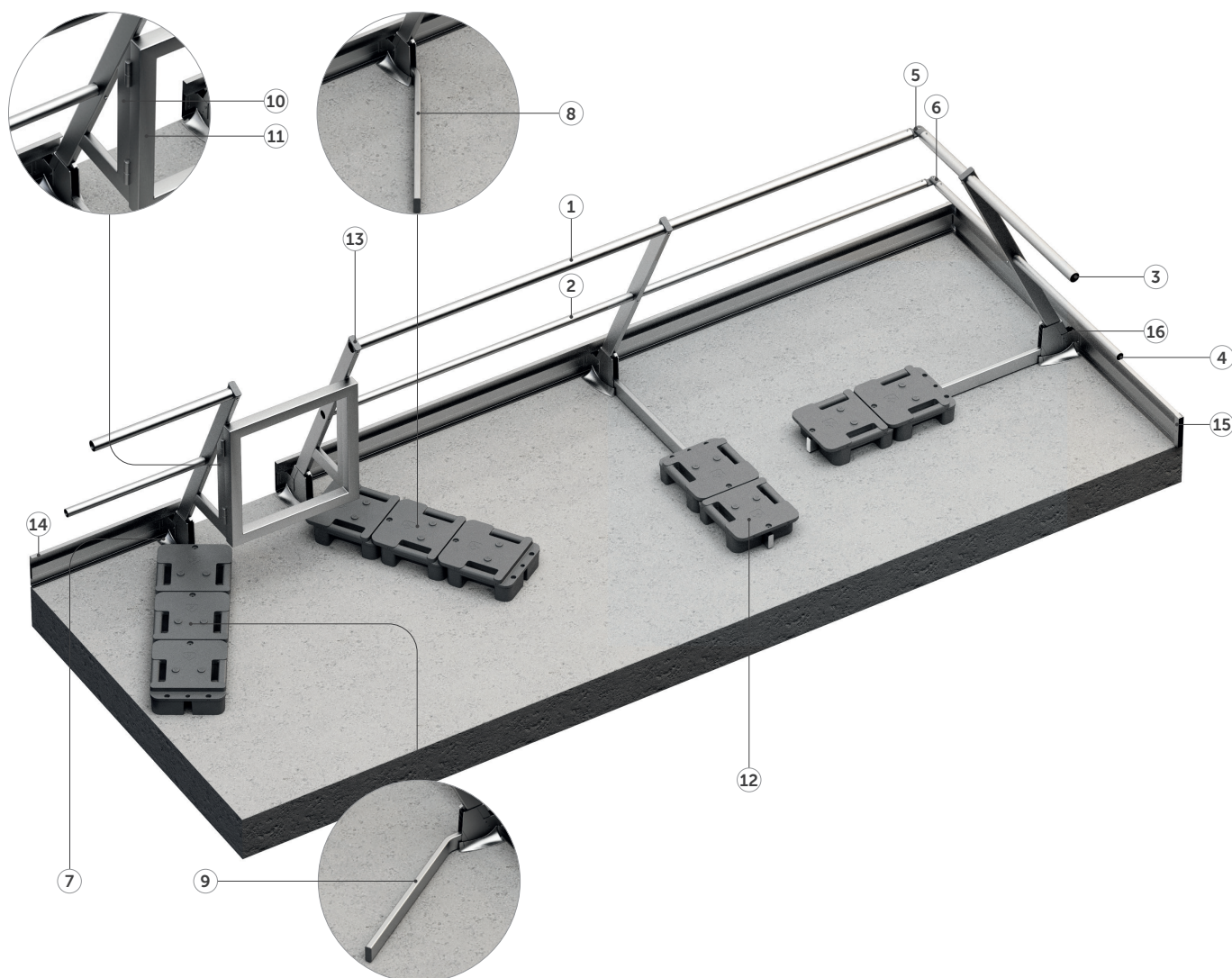
ART.-NR.	Beschreibung
11 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
12 RBGSCR4816	Selbstbohrende Schraube 4,8 x 16 mm Edelstahl
13 RBGSCR4825	Selbstbohrende Schraube 4,8 x 25 mm Edelstahl
14 RBGSCR4850	Selbstbohrende Schraube 4,8 x 50 mm Edelstahl
15 RBGTB	Fußleiste 3000 x 150 x 19 mm
16 RBGTBCAP	Kappe für Fußleiste H = 150 mm
17 RBGTBJUN	Gerader Verbinder Fußleiste H = 150 mm
18 RBGTBCOR	Winkelstück Fußleiste H = 150 mm
19 RBGTBH	Halterung Fußleiste H = 150 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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ART.-NR.	Beschreibung	ART.-NR.	Beschreibung
1 RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm	RBGGATE600	Schutztür Höhe 500 mm mit montierten Scharnieren, L = 600 mm
2 RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm	11 RBGGATE1100	Schutztür Höhe 500 mm mit Scharnieren, L = 1100 mm
3 RBGCAP45	Kappe für Handlauf Ø45 mm	12 RBGWEIGHT	Gegengewicht aus Kunststoff 12,5 kg für GUARD W
4 RBGCAP35	Kappe für Mittellauf Ø35 mm		
5 RBGCOR45	Winkelstück für Handlauf Ø45 mm	ART.-NR.	Beschreibung
6 RBGCOR35	Winkelstück für Mittellauf Ø35 mm	13 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
5-6 RBGCORAL	Winkelstück aus Aluminium für Handlauf und Mittellauf (alternativ zu RBGCOR45 / RBGCOR35)	14 RBGTB	Fußleiste 3000 x 150 x 19 mm
7 RBGBASEWI	Grundplatte für geneigtes selbsttragendes Geländer GUARD W mit Stützfuß	15 RBGTBCAP	Kappe für Fußleiste H = 150 mm
8 RBGBASEWIFCR NEW	Stützfuß für geneigten Pfosten, Biegung rechts 25°	16 RBGTBH	Halterung Fußleiste H = 150 mm
9 RBGBASEWIFCL NEW	Stützfuß für geneigten Pfosten, Biegung links 25°		
10 RBGGATEWISUP NEW	Halterung für Tür, geneigter Pfosten		

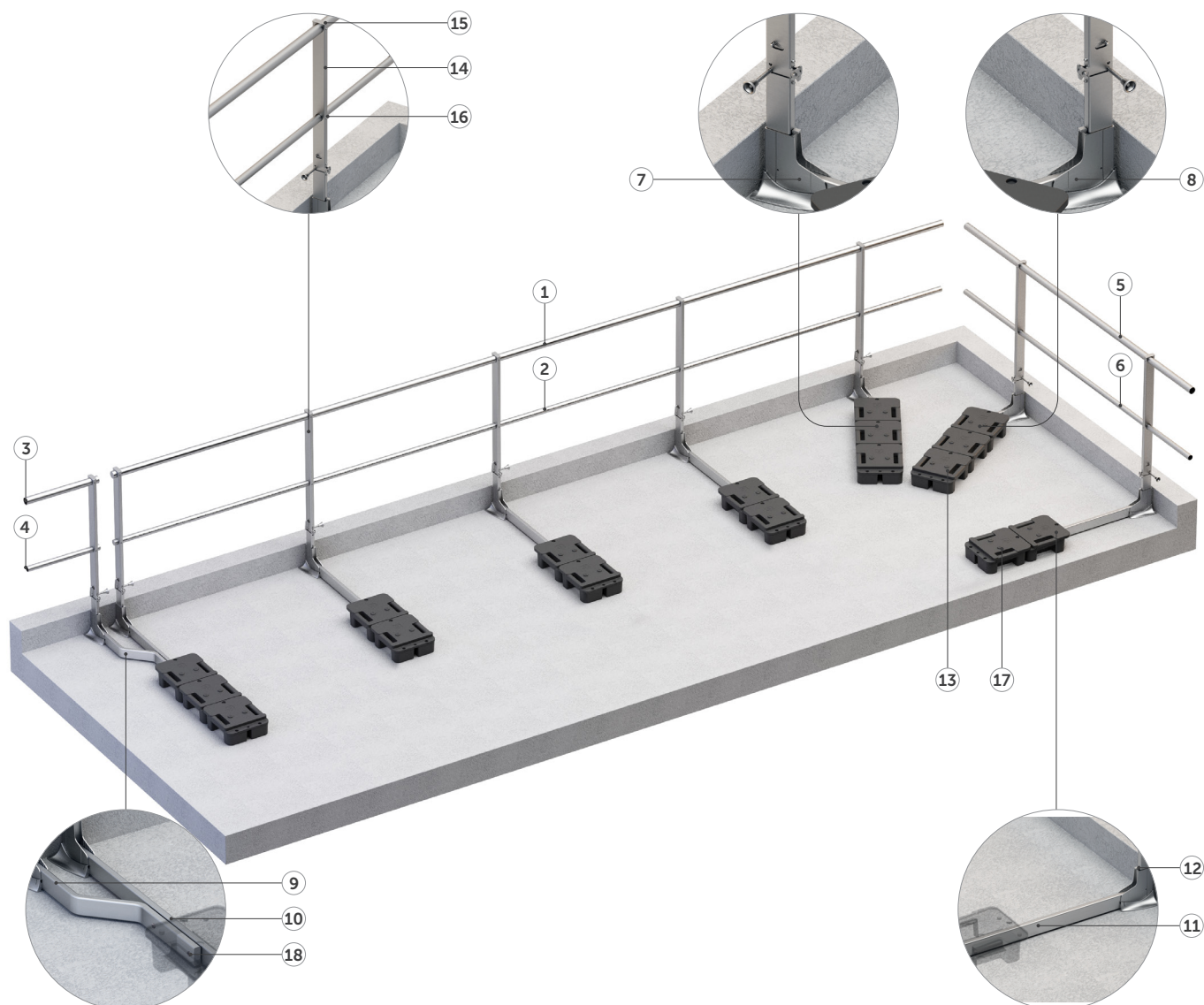
Für Wandbefestigung:

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 W | Klappbares System

KLAPPBARES SELBSTTRAGENDES GELÄNDER



ART.-NR.	Beschreibung	ART.-NR.	Beschreibung
1 RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm	13 RBGWEIGHT	Gegengewicht aus Kunststoff 12,5 kg für GUARD W
2 RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm	RBGSUP100F	Klappbarer Pfosten H = 1010 mm Aufnahme Ø45 mm
5 RBGBAR45F	Handlauf ohne verjüngte Aufnahme Ø45 mm L = 3000 mm	14 RBGSUP110F	Klappbarer Pfosten H = 1105 mm Aufnahme Ø45 mm
6 RBGBAR35F	Mittellauf ohne verjüngte Aufnahme Ø35 mm L = 3000 mm		
3 RBGCAP45	Kappe für Handlauf Ø45 mm	ART.-NR.	Beschreibung
4 RBGCAP35	Kappe für Mittellauf Ø35 mm	15 RBGCAP	Pfostenkappe 68 x 28 mm mit Aufnahme Ø45 mm
7 RBGBASEWFCR	Stützfuß für geneigten Pfosten, Biegung rechts 25°	16 RBGSCR4825	Selbstbohrende Schraube 4,8 x 25 mm Edelstahl
8 RBGBASEWFCL	Stützfuß für geneigten Pfosten, Biegung links 25°	17 RBGSCR4850	Selbstbohrende Schraube 4,8 x 50 mm Edelstahl
9 RBGBASEWFL	Stützfuß mit Biegung links für klappbares Geländer	18 RBGBASEWFKIT NEW	Befestigungssatz GUARD W-F
10 RBGBASEWF	Grundplatte für selbsttragendes GUARD W mit Löchern		Für Wandbefestigung:
11 RBGBASEW	Grundplatte für gerades selbsttragendes Geländer GUARD W mit Stützfuß	RBGWALL45	Endstück für Handlauf Ø45 mm
12 RBGBASEWE	Sicherungskeil für GUARD W	RBGWALL35	Endstück für Mittellauf, rund Ø35 mm
		RBGWALLAL	Endstück aus Aluminium für Handlauf und Mittellauf

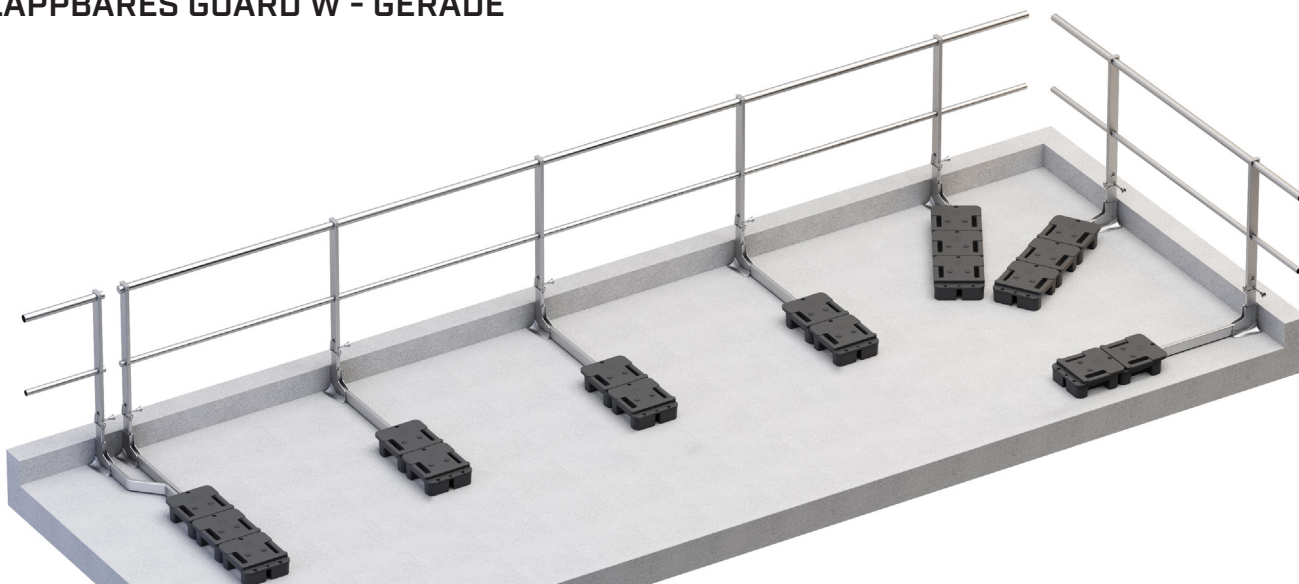
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GUARD W | Klappbares System

Das klappbare GUARD besteht aus Modulen mit einer variablen Länge von 6, 12 oder 18 m. Über 12 m werden für die Änderung der Geländeneigung mindestens zwei Personen benötigt. Für weitere Informationen siehe Installationsanleitung.

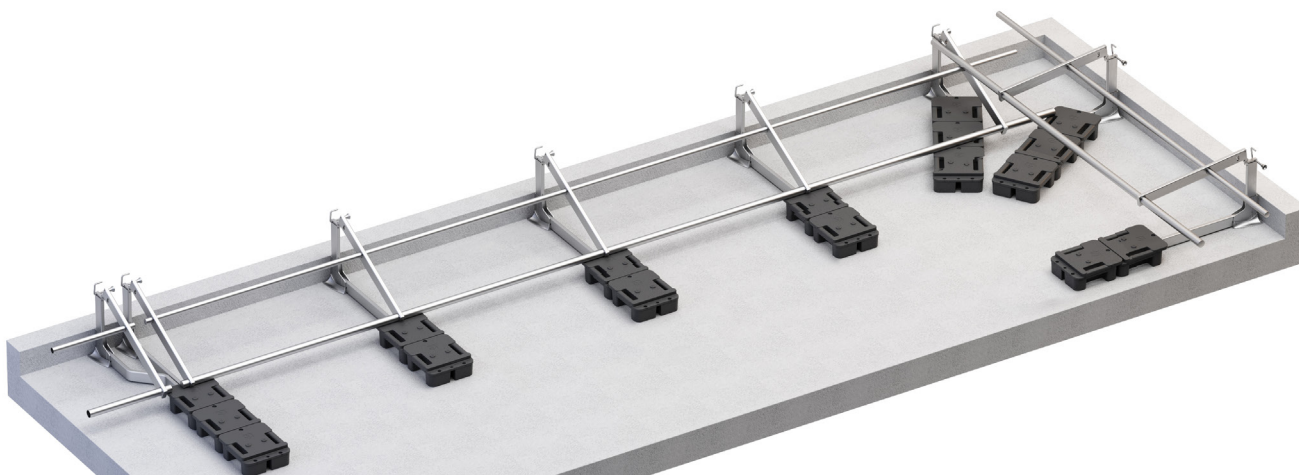
KLAPPBARES GUARD W - GERADE



KLAPPBARES GUARD W - MODUL ZU 6 m ABGESENKT, ÜBRIGE HALB UMGEKLAPPT

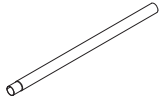
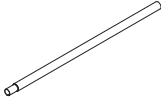
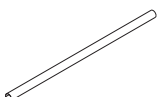
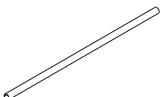
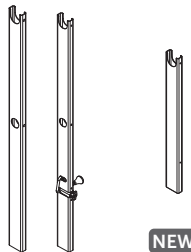
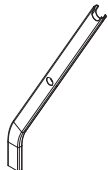
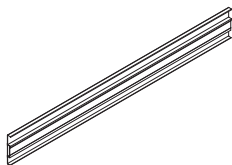
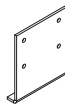
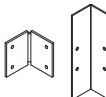


KLAPPBARES GUARD W - ALLE MODULE UMGEKLAPPT



GUARD | Komponenten

ARTIKELNUMMERN UND ABMESSUNGEN

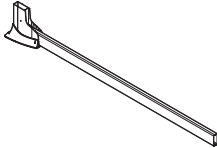
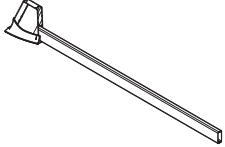
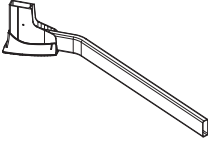
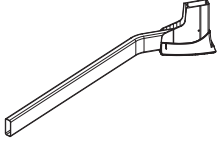
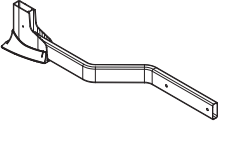
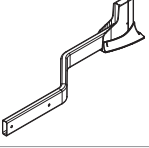
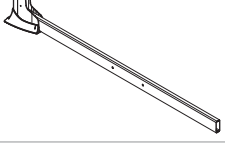
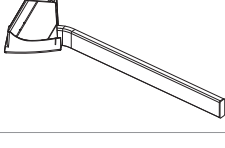
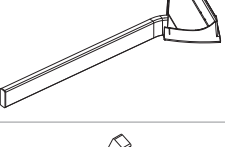
GRUPPE	ART.-NR.	Beschreibung	Stk.	
HANDLÄUFE UND MITTELLÄUFE	RBGBAR45	Handlauf Ø45 mm mit verjüngter Aufnahme L = 3000 mm	1	
	RBGBAR35	Mittellauf Ø35 mm mit verjüngter Aufnahme L = 3000 mm	1	
	RBGBAR45F	Handlauf ohne verjüngte Aufnahme Ø45 mm L = 3000 mm	1	
	RBGBAR35F	Mittellauf ohne verjüngte Aufnahme 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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GUARD | Komponenten

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	

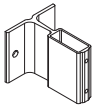
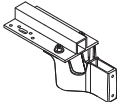
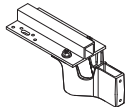
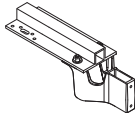
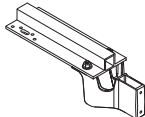
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ARTIKELNUMMERN UND ABMESSUNGEN

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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ARTIKELNUMMERN UND ABMESSUNGEN

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

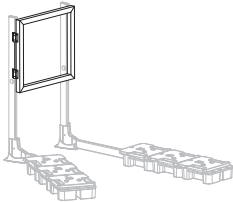
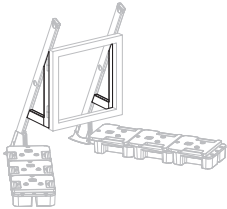
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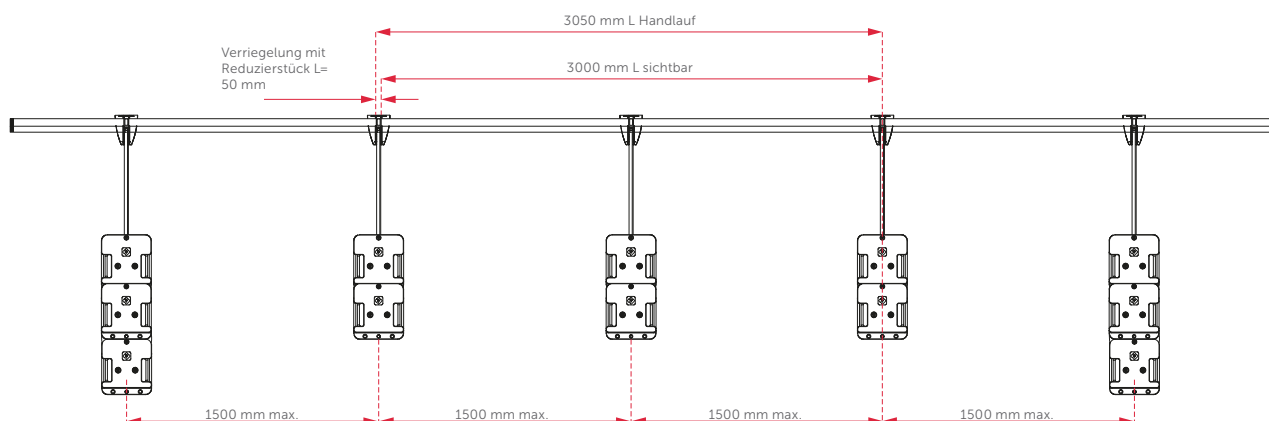
ARTIKELNUMMERN UND ABMESSUNGEN

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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ANLAGE DES SELBSTTRAGENDEN GELÄNDERS GUARD (EN 14122-3)

MONTAGE DES GELÄNDES IN GERADER LINIE



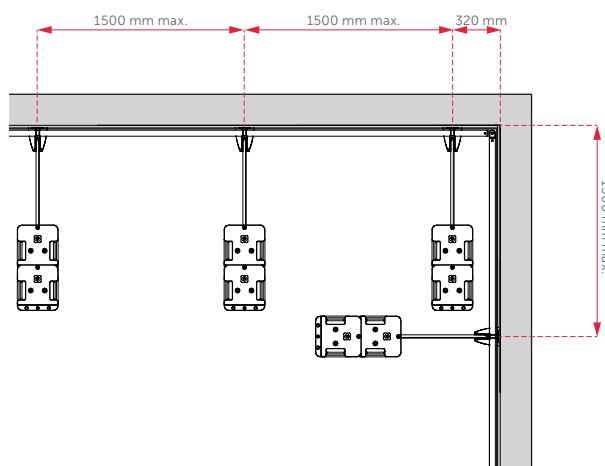
NTC 2018:

Der max. Achsabstand für NTC 2018 beträgt 750 mm; pro Halterung müssen 3 Auflasten angebracht werden

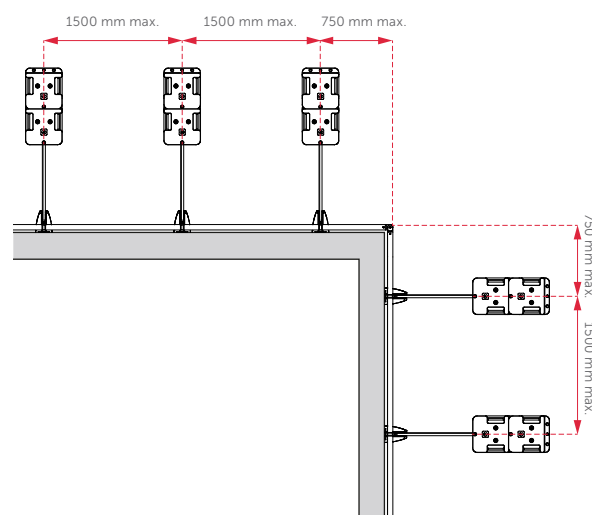
EN 13374+A1 :2018:

Der max. Achsabstand für EN 13374 beträgt 2500 mm

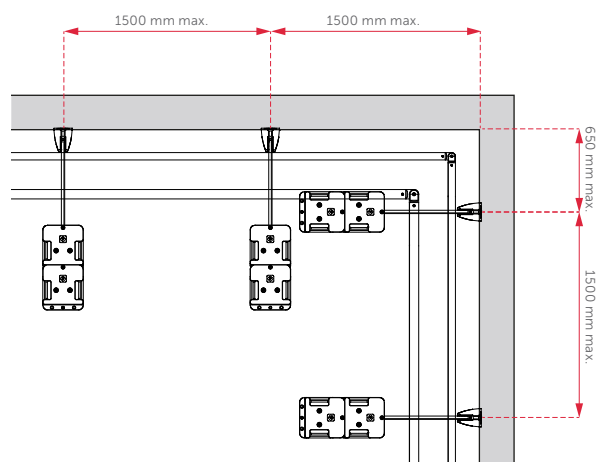
GERADE SELBSTTRAGENDE MONTAGE – AUSSENECKE



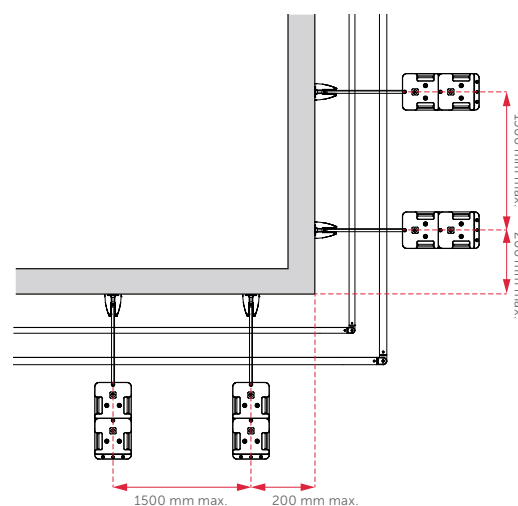
GERADE SELBSTTRAGENDE MONTAGE – INNENECKE



GENEIGTE SELBSTTRAGENDE MONTAGE – AUSSENECKE



GENEIGTE SELBSTTRAGENDE MONTAGE – INNENECKE

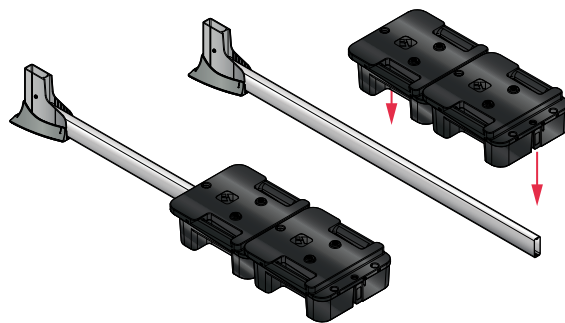
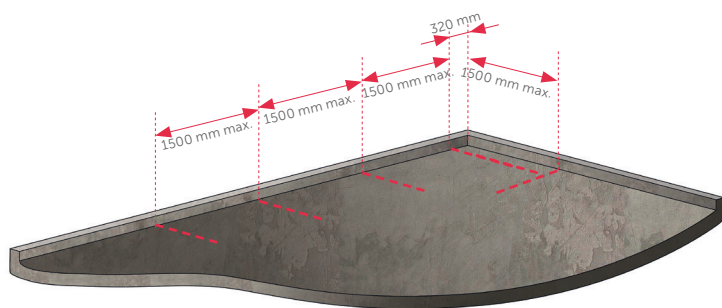


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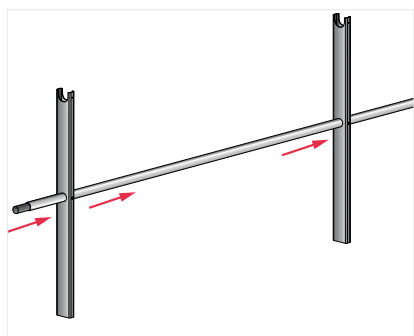
MONTAGE

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.

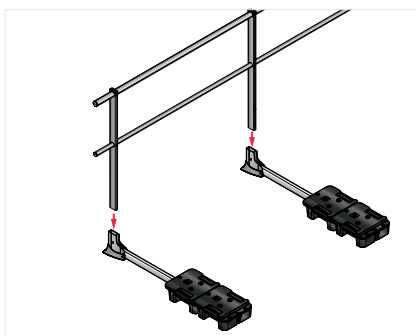


1 - Max. alle 1500 mm einen Bezugspunkt markieren und ggf. den Kies entfernen, damit das Geländer positioniert werden kann.

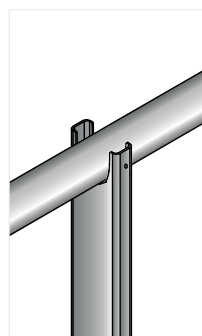
2 - Die Gegengewichte am Stützfuß so positionieren und einstellen, dass das Gegengewicht nicht über ihn hinausragt.



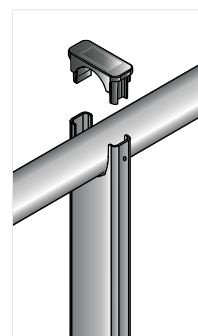
3 - Einen Mittellauf in 2 Pfosten einsetzen.



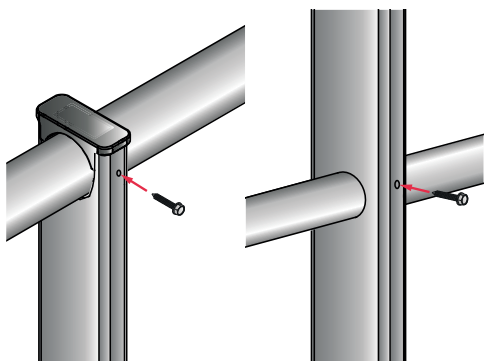
4 - Die Baugruppe Mittellauf + Pfosten in die Sockel einsetzen.



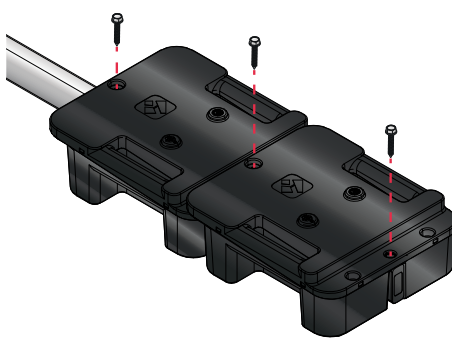
5 - Den Handlauf auf den Pfosten ablegen.



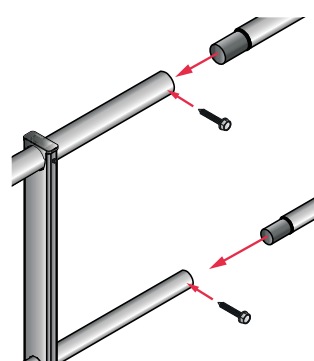
6 - Das Oberteil des Pfostens befestigen.



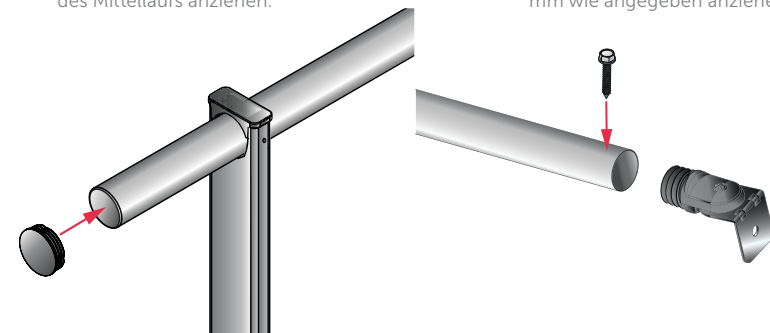
7 - Die selbstbohrenden Schrauben 4,8 x 25 mm am Pfosten auf der Höhe des Handlaufs und des Mittellaufs anziehen.



8 - Nachdem die Geländer-Baugruppe montiert wurde, die selbstbohrenden Schrauben 4,8 x 50 mm wie angegeben anziehen.



9 - Die Handläufe und Mittelläufe mit einer Schraube 4,8 x 16 mm befestigen.

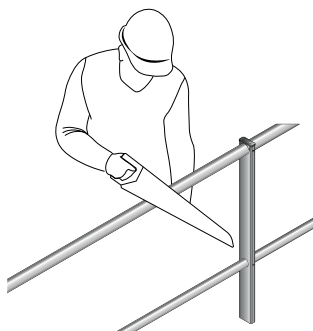


10 - Die Kappen oder die Wandabschlüsselemente an den Handläufen oder Zwischenläufen einstecken.

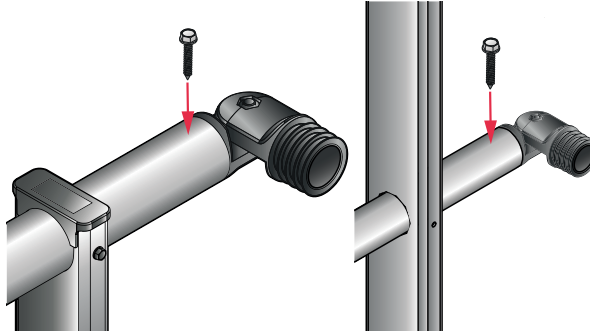


11 - Die Winkelstücke der Handläufe oder der Zwischenläufe einsetzen.

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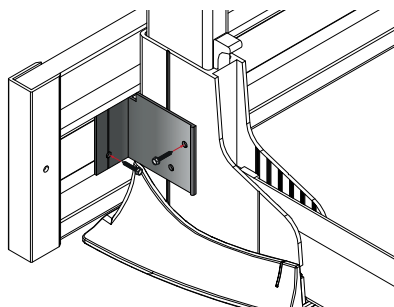


12 - Den letzten Abschnitt anpassen, indem das überstehende Teil abgeschnitten wird.

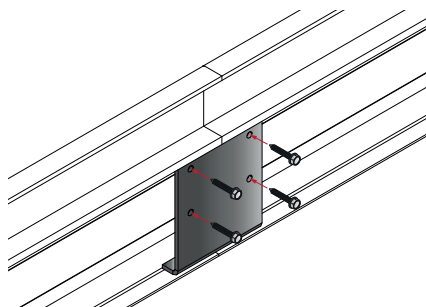


13 - Die Winkelstücke mit selbstbohrenden Schrauben 4,8 x 25 mm befestigen.

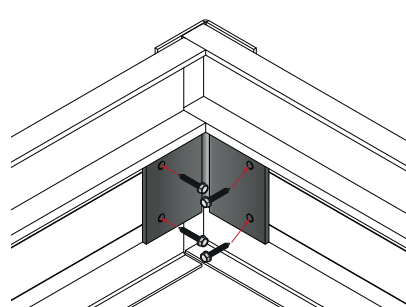
■ BEFESTIGUNG DER BORDBRETTACHSE



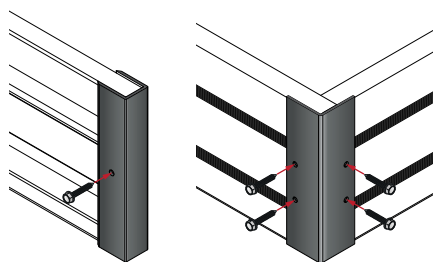
1 - Die Halterung der Fußleiste auf dem Sockel positionieren und mit 4 selbstbohrenden Schrauben zu 4,8 x 16 mm befestigen (2 Schrauben auf jeder Seite).



2 - Die Bordbretter der Länge nach mit den Verbindern und 4 selbstbohrenden Schrauben 4,8 x 16 mm befestigen.

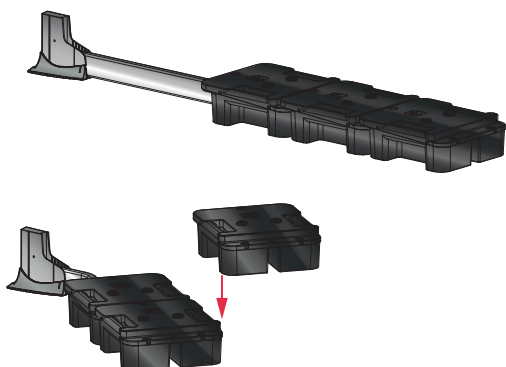


3 - Für die Winkelstücke die internen und externen Verbinder mit 8 selbstbohrenden Schrauben 4,8 x 16 mm befestigen.

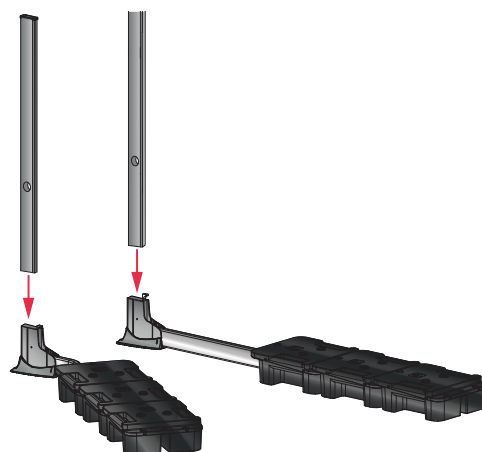


4 - Abschließend die Bordbrettkappen mit 1 selbstbohrenden Schraube 4,8 x 16 mm befestigen.

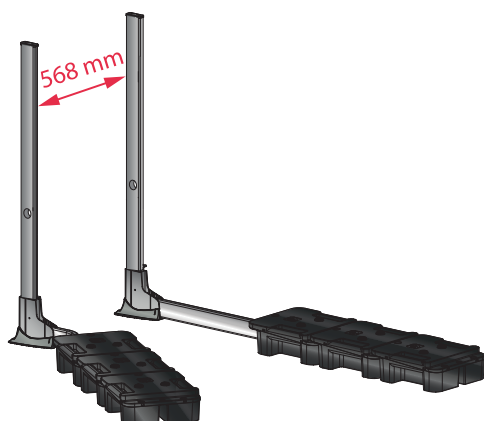
MONTAGE DES SICHERHEITSTORS H 580 MM FÜR DAS GERADE SELBSTTRAGENDE GELÄNDER



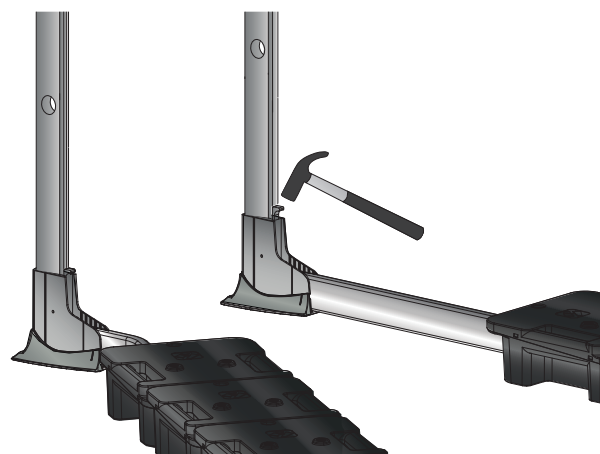
1 - Die Gegengewichte in den Stützfuß mit Biegung einführen. Das Rohr des Stützfußes muss die Höhe des zweiten Gegengewichts aus Kunststoff erreichen. Das dritte Gegengewicht ist an der Außenseite des Fußes angebracht.



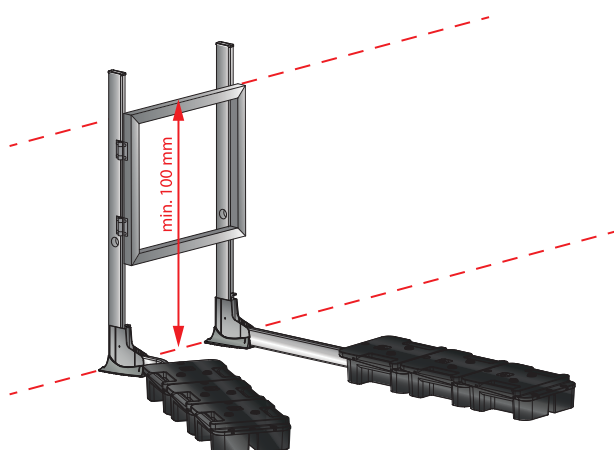
2 - Die Pfosten in die Sockel einsetzen.



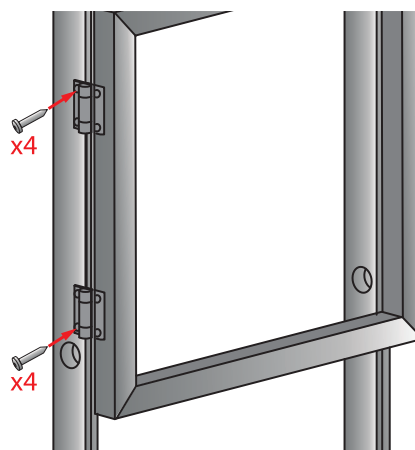
3 - Die Pfosten und die Stützfüße mit einem Achsabstand von 568 mm positionieren.



4 - Mit einem Hammer den Verriegelungskeil zwischen Pfosten und Sockel einsetzen.



5 - Das Sicherheitstor mindestens 1000 mm über dem Boden positionieren.



6 - Die Scharniere des Sicherheitstors mit den im Bausatz enthaltenen DRILLNOX DBS2 Schrauben 6x25 mm befestigen.

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INSTALLATION MANUAL

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DEFINITION

The GUARD self-supporting railing is a collective fall protective equipment. It is the ideal solution for securing roofs when it is technically impossible to make welds, fasten on the ceiling or concrete slab. This system avoids drilling or the need for fastening on the structure. Its design allows for quick and easy assembly of the railing. The counterweight is a 12.5 kg concrete block, protected by an ABS casing. The self-supporting version does not have to be fastening to the structure in any way and therefore does not alter the integrity of the roof on which it is installed. The GUARD self-supporting railing is also a solution for securing skylights. It can also be used to mark work or evacuation zones.

STANDARDS

GUARD self-supporting railings fall within the framework of the European standard EN ISO 14122-3 of March 2017, Safety of machinery - Permanent means of access to machinery - Part 3: Stairs, stepladders and guard-rails.

The GUARD self-supporting railing has successfully passed the static and dynamic tests and trials required by EN ISO 14122-3.

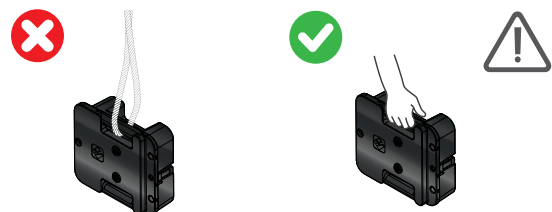
Certificate of Conformity: DEKRA No. 5253744A/19 GUARD self-supporting straight railing, No. 5253744A/21 GUARD self-supporting inclined railing.

REFERENCE REGULATIONS

- A railing must be installed when the fall height exceeds 2000 mm (check local regulations).
- The height of the railing handrail must be at least 1100 mm above the impact sound surface.
- 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 toe board (or foot stop edge) must have a minimum height of 100 mm. If there is a gap between the toe board and the impact sound surface, it must not exceed 10 mm.
- Three counterweights (37,5 kg) must be installed on the support leg at the end, for each section ending in a cap.
- ATTENTION:** There must be a perimeter wall at the edge of the roof. If not, please contact our office.
- 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.
- With a perimeter wall up to 20 mm the self-supporting railing is prohibited. From 20 mm to 100 mm the toe board is used. Above 100 mm the toe board is not necessary.

USE - MAINTENANCE

- The person carrying out the installation of the GUARD railing must be a qualified person 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 person.
- 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 person 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.
- The use of a GUARD toe board is compulsory if the terrace does not have a perimeter wall or if the wall is less than 100 mm.
- 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.
- It is forbidden to use handles for lifting the ballast from the ground to the roof.



RAILING WITHOUT TOE BOARD



with curb greater than 150 mm

RAILING WITH TOE BOARD



without curb or less than 150 mm

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STORAGE

The raw aluminium components are packed in contact with each other. The action of rain, on the unopened 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 packed in a dry place.

INSTALLATION AND WIND ZONES

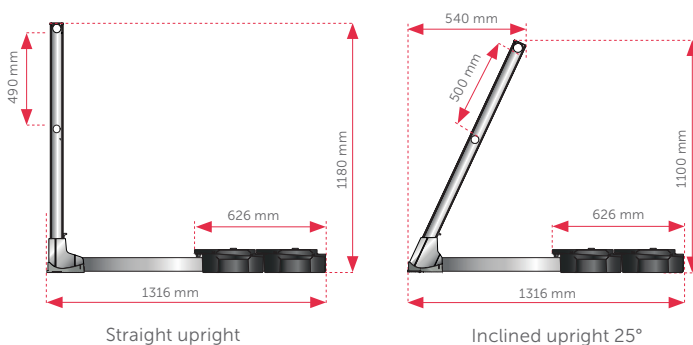
The standard GUARD self-supporting railing (2 counterweights for each support leg, 3 counterweights for the support legs at the ends) is compatible with wind zone 1 (protected, normal and exposed site), wind zone 2 (protected and normal site) and wind zone 3 (protected and normal site). For information only, a maximum wind speed of 166 km/h*.

Any other configuration requires special precautions (addition of counterweights) which must be studied and validated in advance by our design office. Rothoblaas cannot be held responsible for any installation that does not comply with these recommendations.

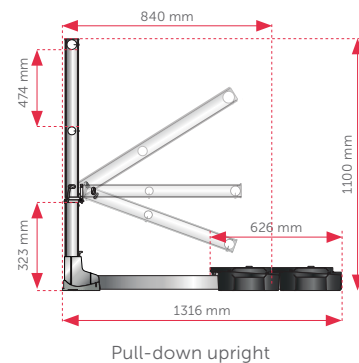
**Reference to standards: Standard NV 65 (DTU P 06-002) and Eurocode1 EN1991-1-4.*

DIMENSIONS

Dimensions of the uprights:

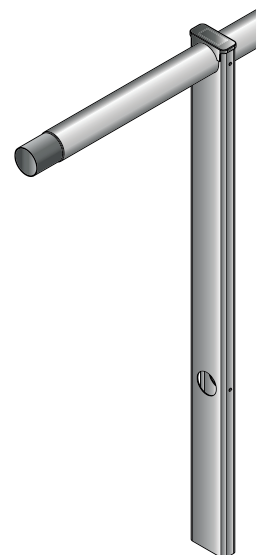


Base dimensions:



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 W

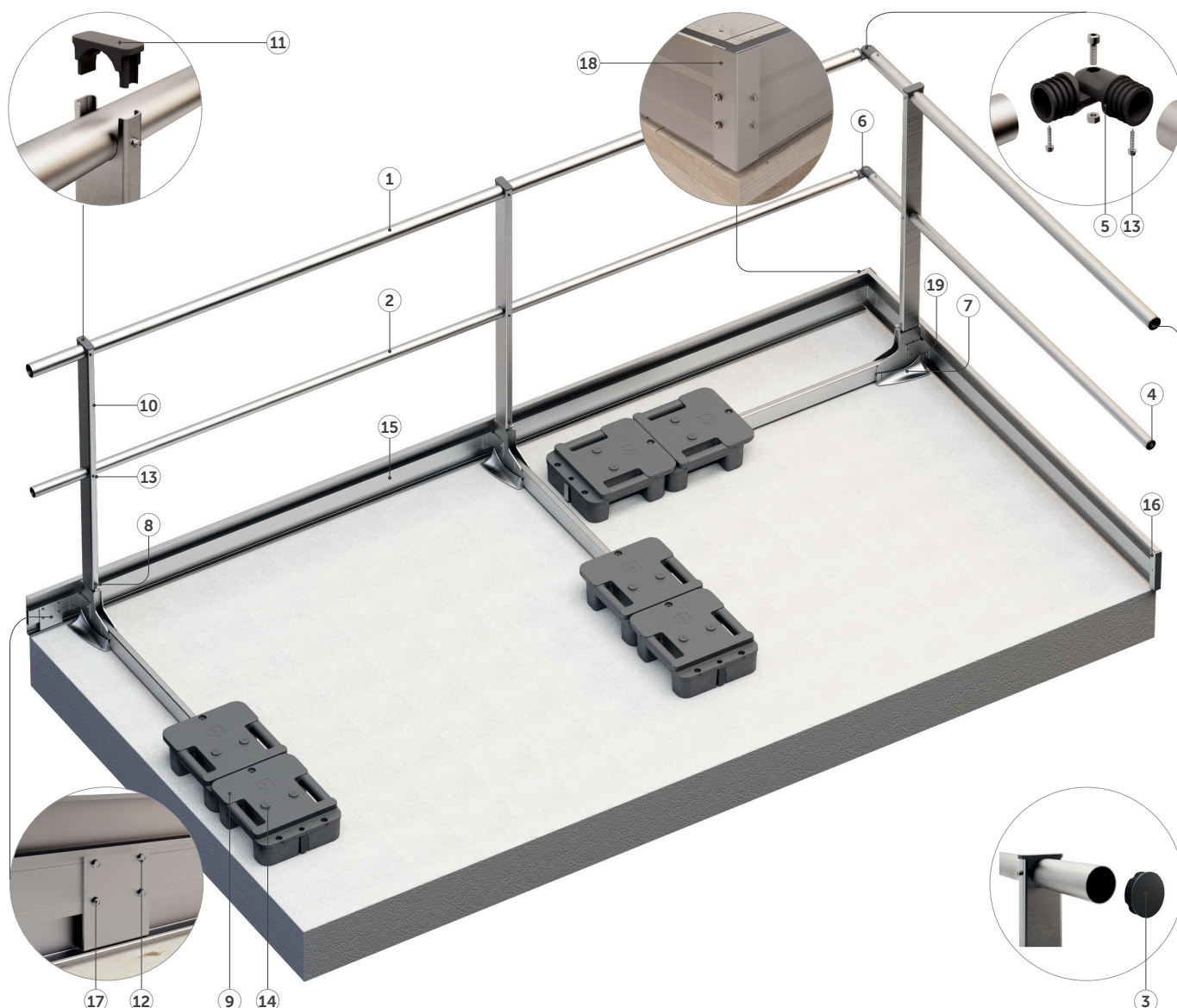
SELF-SUPPORTING RAILING

EN
14122-3:
2016

EN
13374+A1:
2018

NTC
2018

NF
E85-015:
2019



CODE	description	CODE	description
1 RBGBAR45	Ø45 mm handrail with flush-mounted ring nuts L = 3000 mm	11 RBGCAP	upright cap 68 x 28 mm groove Ø45 mm
2 RBGBAR35	Ø35 intermediate rail with flush-mounted ring nuts L = 3000 mm	12 RBGSCR4816	stainless steel self-drilling screw 4,8 x 16 mm
3 RBGCAP45	cap for handrail Ø45 mm	13 RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm
4 RBGCAP35	cap for intermediate rail Ø35 mm	14 RBGSCR4850	stainless steel self-drilling screw 4,8 x 50 mm
5 RBGCOR45	angle bracket for handrail Ø45 mm	15 RBGTB	toe board 3000 x 150 x 19 mm
6 RBGCOR35	angle bracket for intermediate rail Ø35 mm	16 RBGTBCAP	cap for toe board H = 150 mm
5-6 RBGCORAL	aluminium angle bracket for handrail and intermediate rail (alternative to RBGCOR45/ RBGCOR35)	17 RBGTBJUN	straight connector toe board H = 150 mm
7 RBGBASEW	base for self-supporting GUARD W straight with support leg	18 RBGTBCOR	angle bracket for toe board H = 150 mm
8 RBGBASEWE	locking wedge for GUARD W	19 RBGTBH	support for toe board H = 150 mm
9 RBGWEIGHT	plastic counterweight 12,5 kg for GUARD W	For wall fastening:	
10 RBGSUP110	straight upright H = 1105 mm groove Ø45 mm	RBGWALL45	end element for handrail Ø45 mm
10 RBGSUP118	straight upright H = 1182 mm groove Ø45 mm	RBGWALL35	end element for round intermediate rail Ø35 mm
		RBGWALLAL	aluminium end element for handrail and intermediate rail

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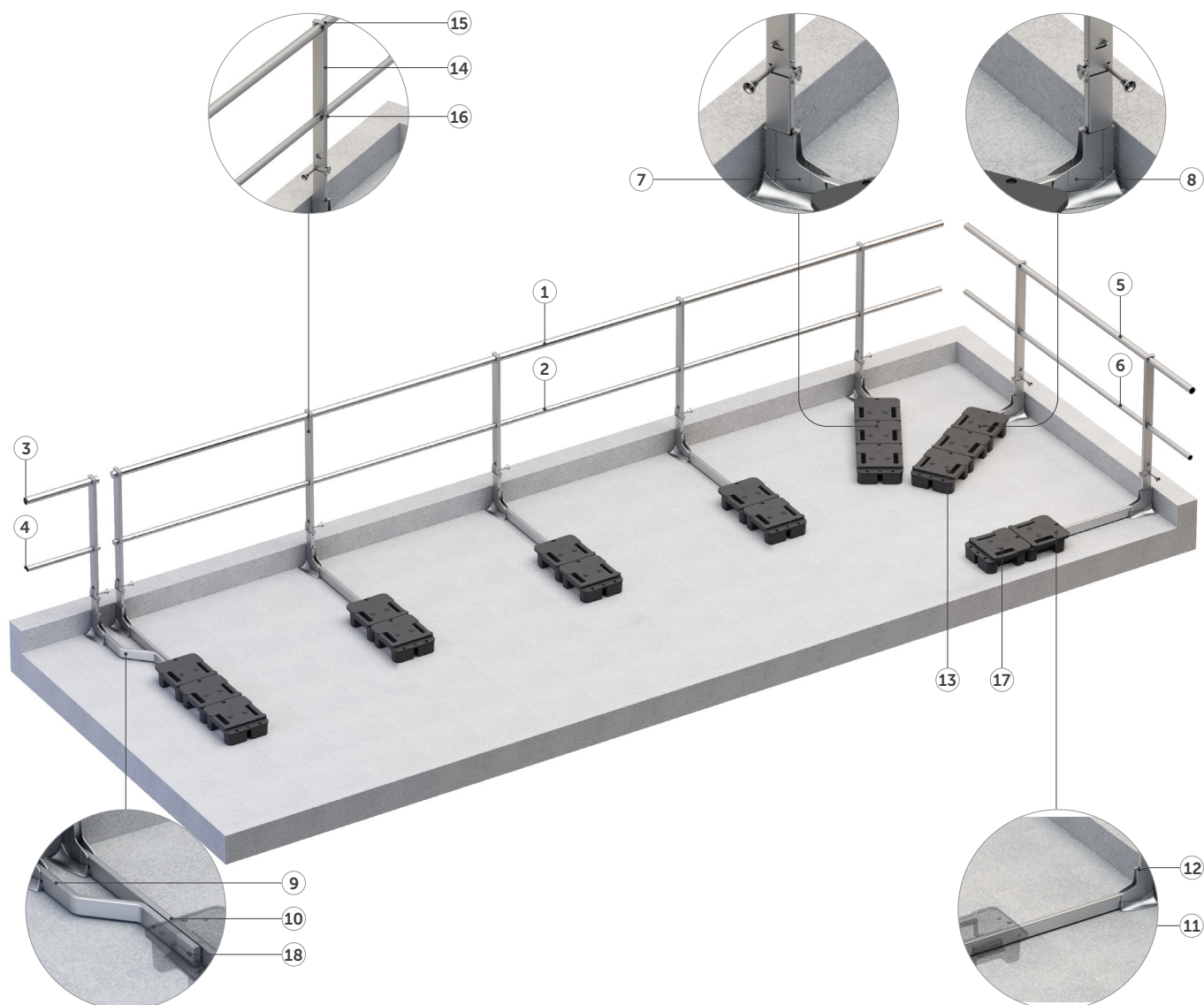
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GUARD W | folding system

FOLDING SELF-SUPPORTING RAILING



CODE	description	CODE	description
1 RBGBAR45	Ø45 mm handrail with flush-mounted ring nuts L = 3000 mm	13 RBGWHEIGHT	plastic counterweight 12,5 kg for GUARD W
2 RBGBAR35	Ø35 intermediate rail with flush-mounted ring nuts L = 3000 mm	RBGSUP100F	pull-down upright H = 1010 mm groove Ø45 mm
5 RBGBAR45F	handrail without flush-mounted ring nuts Ø45 mm L = 3000 mm	14 RBGSUP110F	pull-down upright H = 1105 mm groove Ø45 mm
6 RBGBAR35F	intermediate rail without flush-mounted ring nuts Ø35 mm L = 3000 mm	CODE	description
3 RBGCAP45	cap for handrail Ø45 mm	15 RBGCAP	upright cap 68 x 28 mm groove Ø45 mm
4 RBGCAP35	cap for intermediate rail Ø35 mm	16 RBGSCR4825	stainless steel self-drilling screw 4,8 x 25 mm
7 RBGBASEWFCR	support leg for 25° right-hand bend inclined strut	17 RBGSCR4850	stainless steel self-drilling screw 4,8 x 50 mm
8 RBGBASEWFCL	support leg for 25° left-hand bend inclined strut	18 RBGBASEWFKIT NEW	GUARD W - F fastening kit
9 RBGBASEWFL	support leg with curve at left for folding railing	For wall fastening:	
10 RBGBASEWF	base for self-supporting GUARD W with holes	RBGWALL45	end element for handrail Ø45 mm
11 RBGBASEW	base for self-supporting GUARD W straight with support leg	RBGWALL35	end element for round intermediate rail Ø35 mm
12 RBGBASEWE	locking wedge for GUARD W	RBGWALLAL	aluminium end element for handrail and inter- mediate rail

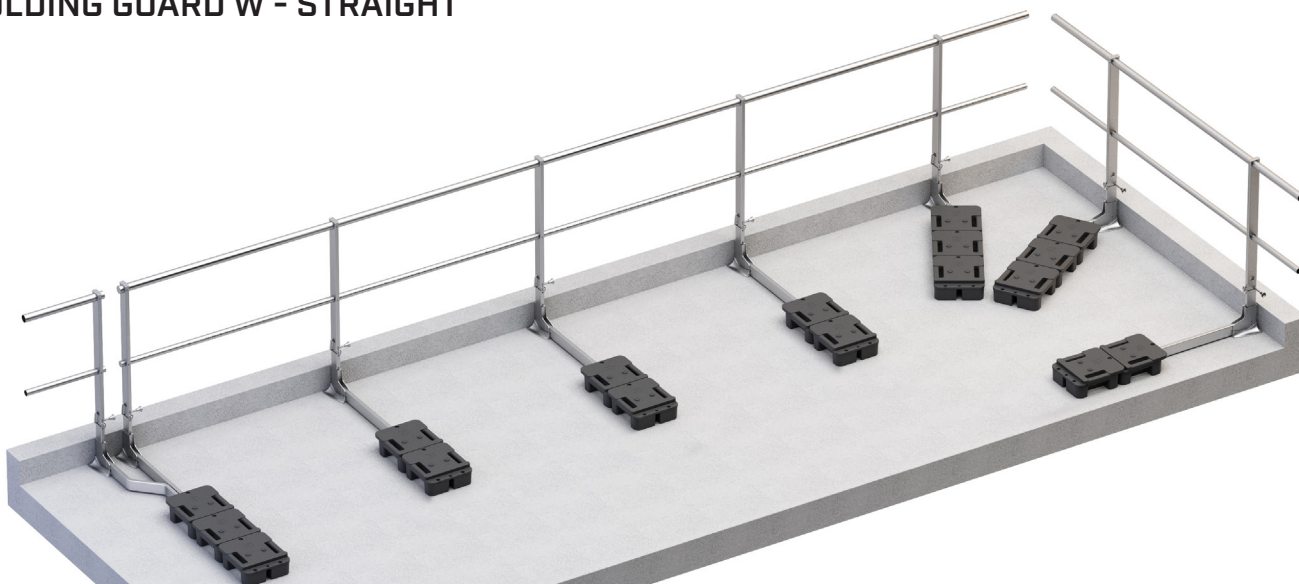
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GUARD W | folding system

The GUARD folding railing consists of modules with variable lengths of 6, 12 or 18 m. Beyond 12 m, at least two operators are required to change the railing inclination. Refer to the Installation Manual for more information.

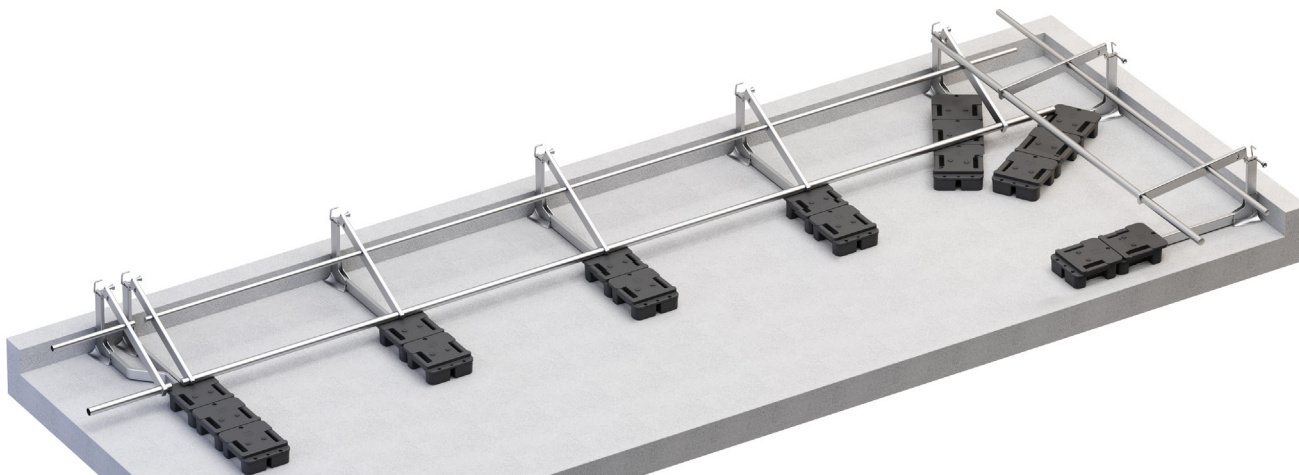
FOLDING GUARD W - STRAIGHT



FOLDING GUARD W - 6 m LOWERED MODULE AND OTHERS FOLDED IN HALF

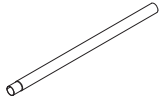
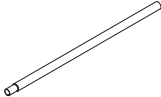
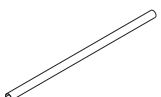
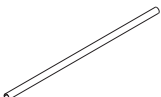
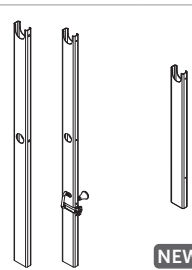
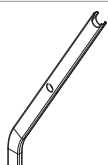
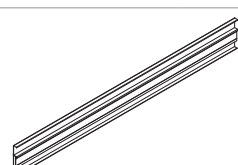
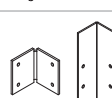


FOLDING GUARD W - ALL FOLDED MODULES



GUARD | components

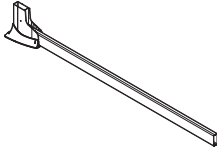
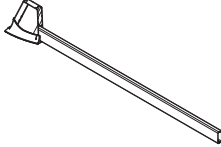
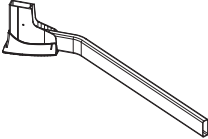
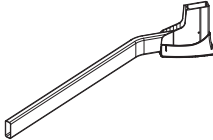
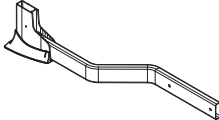
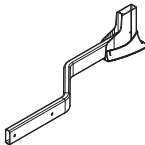
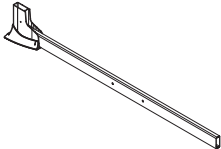
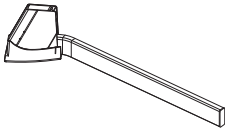
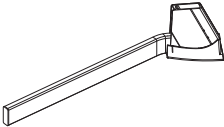
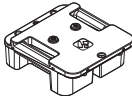
CODES AND DIMENSIONS

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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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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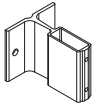
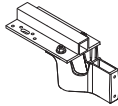
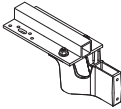
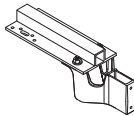
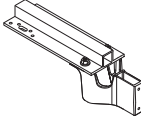
manufactured by:

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GUARD | components

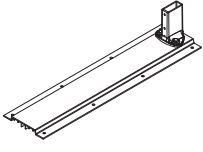
CODES AND DIMENSIONS

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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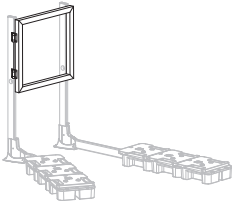
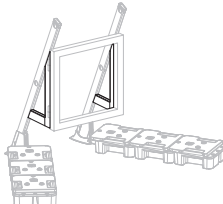
CODES AND DIMENSIONS

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

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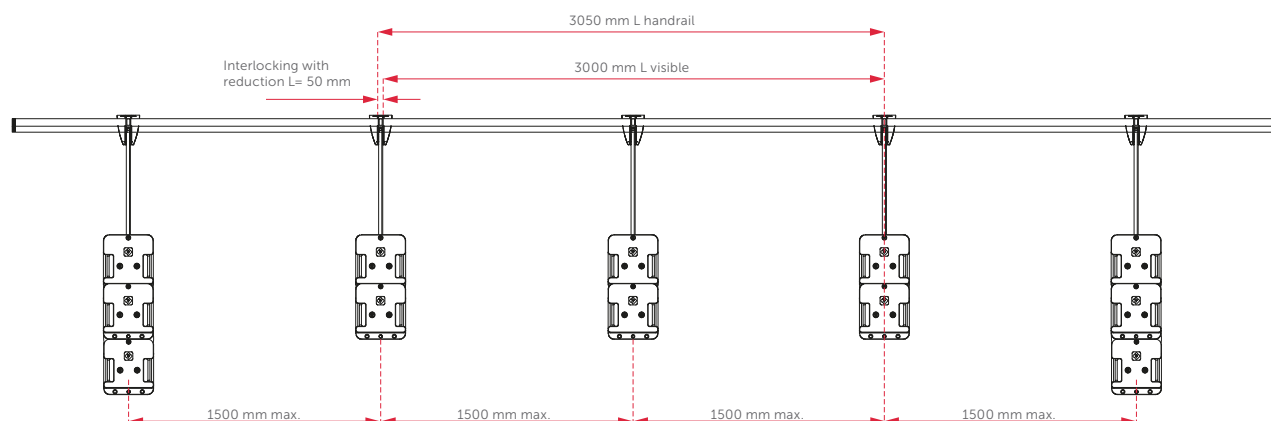
manufactured by:
ALSOLU - 89 rue Florent Evrard, 42100 Saint-Etienne - FRANCE

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	

■ GUARD SELF-SUPPORTING RAILING INSTALLATION [EN 14122-3]

RAILING ASSEMBLY IN STRAIGHT LINE



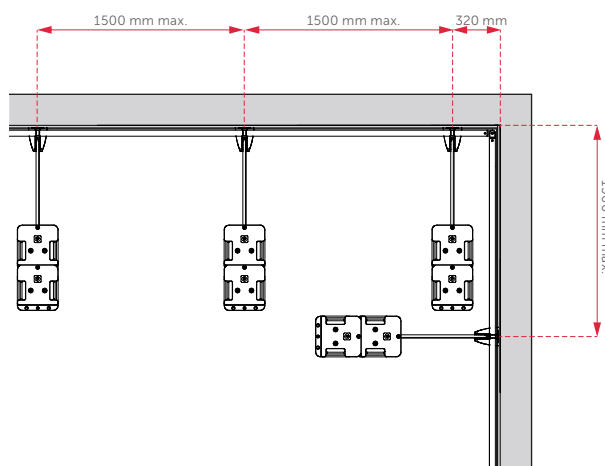
NTC 2018:

The max. spacing for NTC 2018 is 750 mm and 3 ballasts per support must be placed

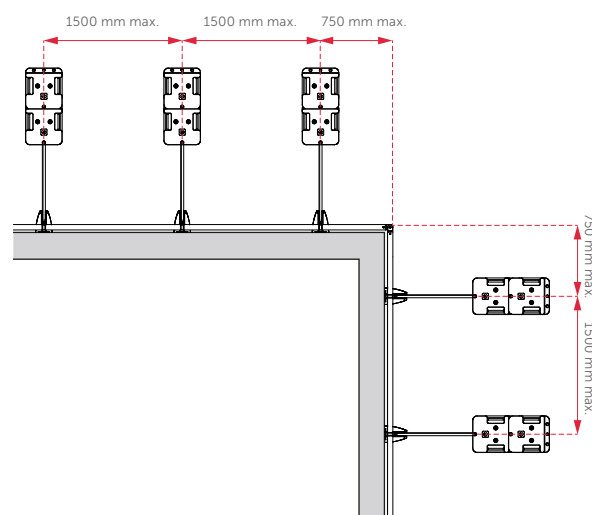
EN 13374+A1 :2018:

The maximum spacing for EN 13374 is 2500 mm

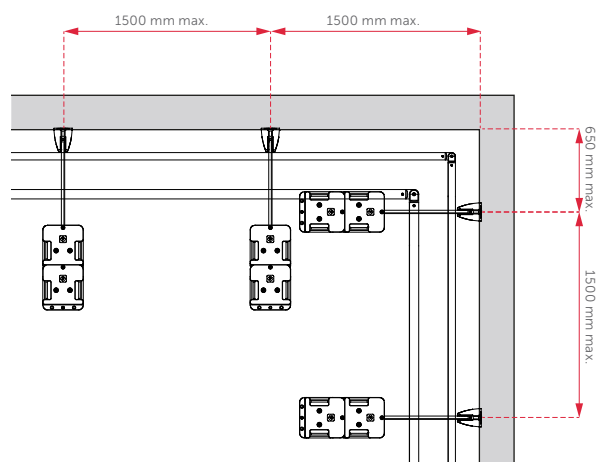
SELF-SUPPORTING STRAIGHT - OUT-SIDE CORNER ASSEMBLY



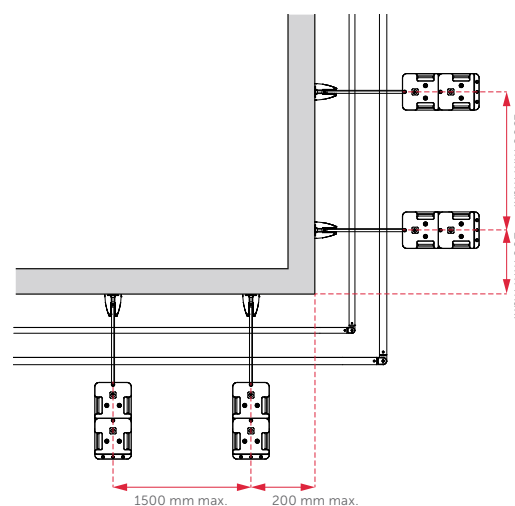
SELF-SUPPORTING STRAIGHT - INSIDE CORNER ASSEMBLY



SELF-SUPPORTING INCLINED ASSEMBLY - EXTERNAL CORNER



SELF-SUPPORTING INCLINED ASSEMBLY - INTERNAL CORNER

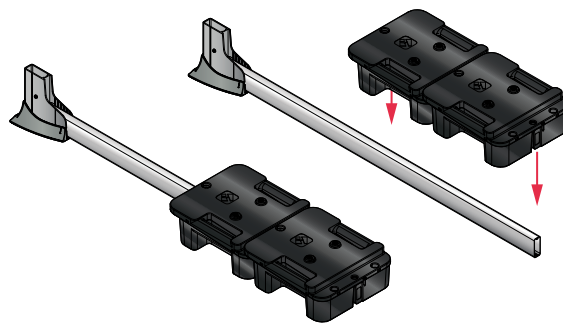
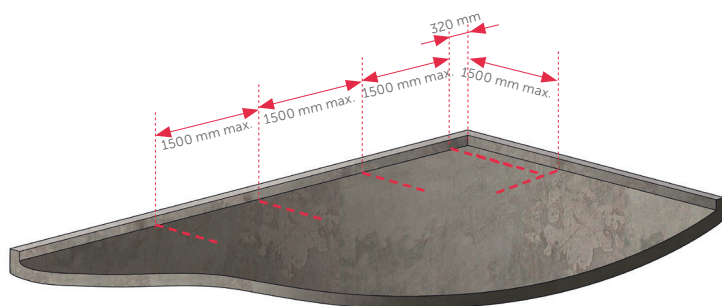


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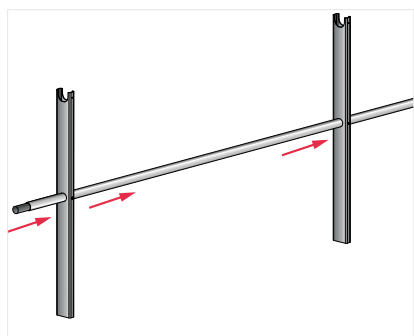
INSTALLATION

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

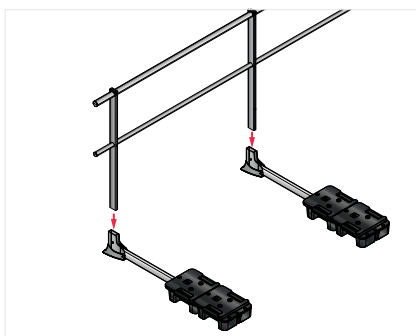


1 - Draw a reference point at a maximum of every 1500 mm and remove gravel if necessary in order to position the railing.

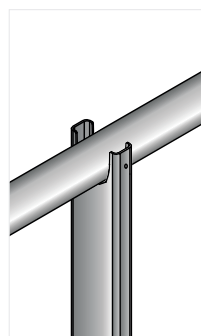
2 - Position and adjust the counterweights on the support leg so that it does not exceed the counterweight.



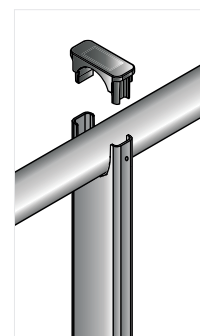
3 - Insert an intermediate rail into 2 uprights.



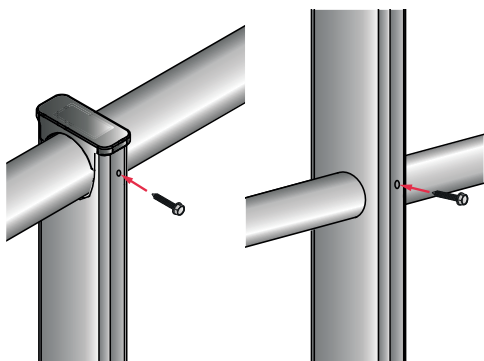
4 - Insert the intermediate rail + uprights assembly into the bases.



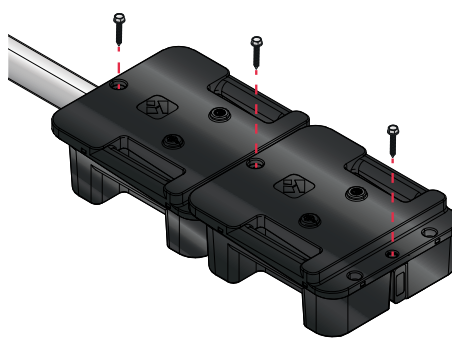
5 - Position the handrail on the uprights



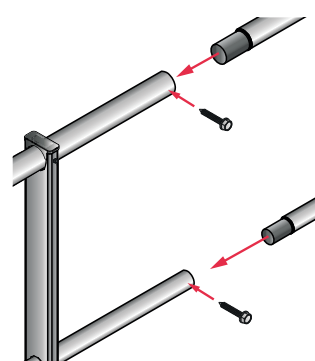
6 - Attach the upper part of the upright.



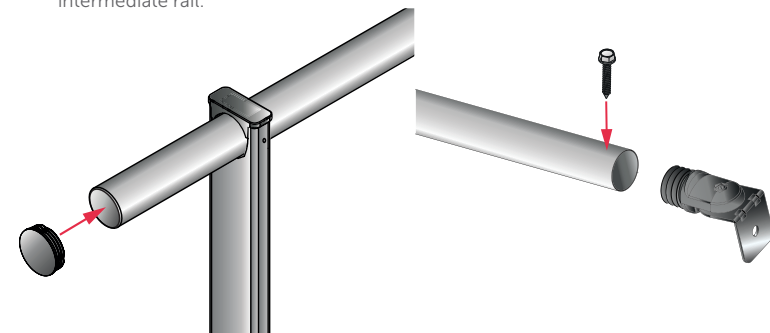
7 - Screw the 4.8 x 25 mm self-drilling screws on the upright at the level of the handrail and the intermediate rail.



8 - Once the railing unit is assembled, tighten the 4,8 x 50 mm self-drilling screws indicated



9 - Assemble handrails and intermediate rails by fastening with 4.8 x 16 mm screws



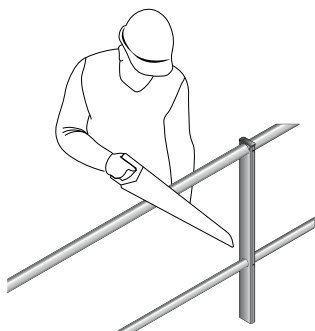
10 - Insert the caps or wall terminations to the handrails or intermediate rails.



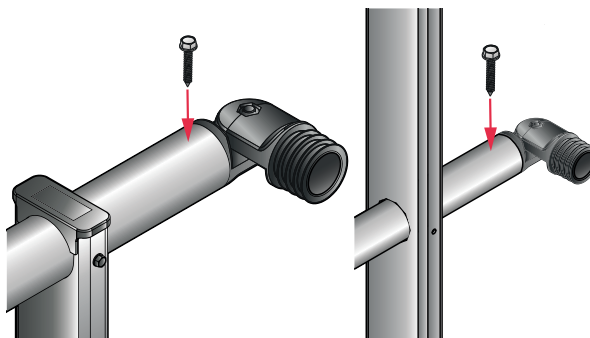
11 - Insert the angle brackets of the handrails and intermediate rails.

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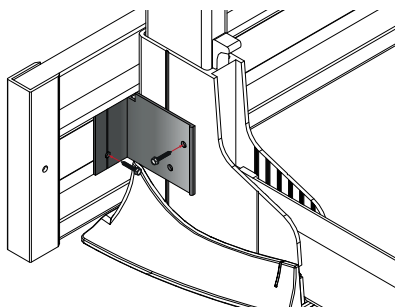


12 - Adapt the last section by cutting off the excess part.

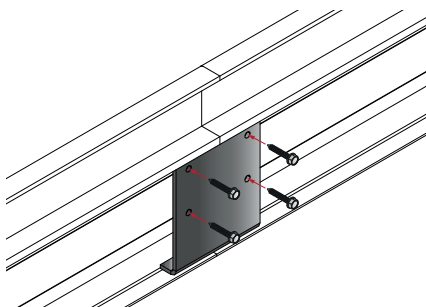


13 - Fasten the angle brackets with 4,8 x 25 mm self-drilling screws.

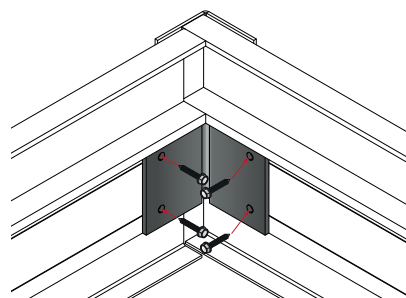
TOE BOARD FASTENING



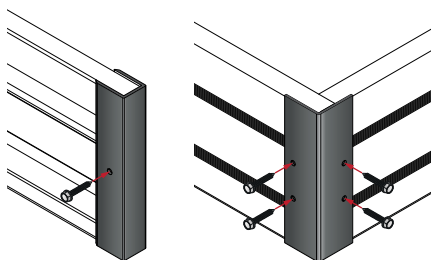
1 - Place the toe board support on the base and secure it with 4 self-drilling screws 4,8 x 16 mm (2 screws each side).



2 - Fasten the lengths of the toe board together using the connectors and 4 self-drilling screws 4,8 x 16 mm.

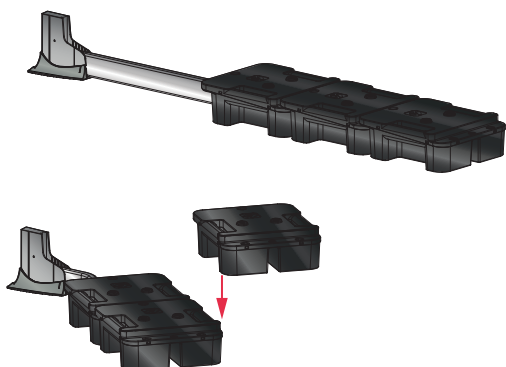


3 - For the angle brackets, fasten the internal and external connectors with 8 self-drilling screws 4,8 x 16 mm.

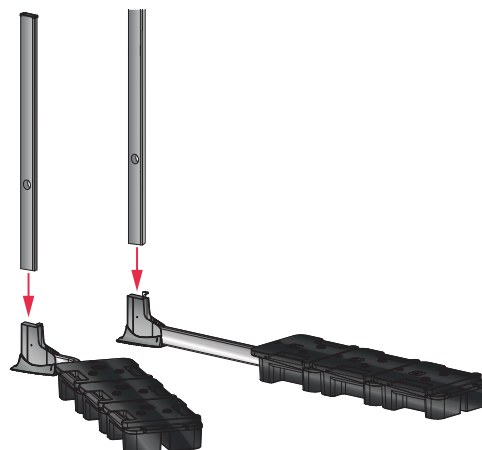


4 - Finally, fasten the caps of the toe board with 1 self-drilling screw 4,8 x 16 mm.

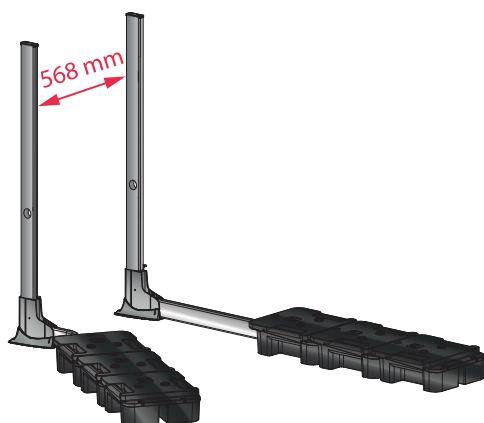
SAFETY GATE H 580 MM ASSEMBLY FOR THE SELF-SUPPORTING STRAIGHT RAILING



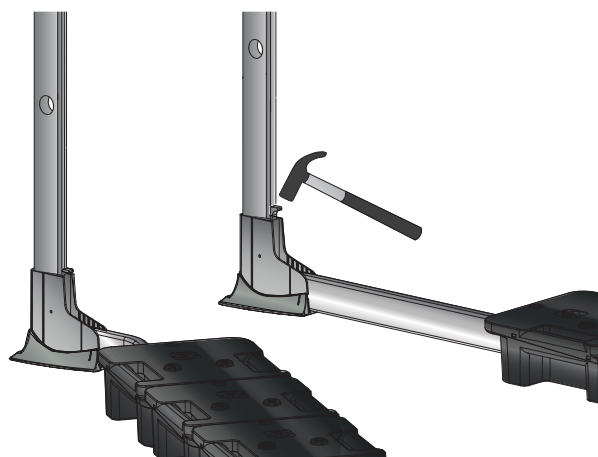
- 1 - Insert the counterweights into the curved support leg. The leg tube must reach the level of the second plastic counterweight. The third counterweight is installed on the outside of the leg.



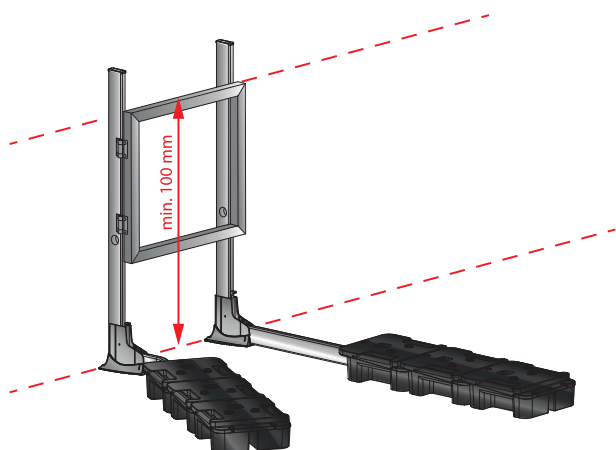
- 2 - Insert the uprights into the bases.



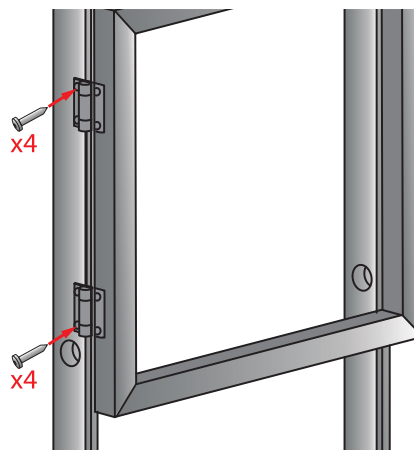
- 3 - Position the uprights and support legs with a spacing of 568 mm.



- 4 - Use a hammer to insert the locking wedge between the upright and the base.



- 5 - Position the safety gate at a minimum height of 1000 mm above the ground.



- 6 - Fasten the safety gate hinges using the DRILLNOX DBS2 6x25 mm screws supplied in the kit.

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MANUAL DE INSTALACIÓN

IT

DE

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DEFINICIÓN

La baranda autoportante GUARD es un equipo de protección colectiva anticaída. Es la solución ideal para poner en seguridad las cubiertas cuando no es técnicamente posible hacer soldaduras, fijarse al murete perimetral o al forjado de hormigón. Este sistema evita las perforaciones o la necesidad de una fijación a la estructura. La baranda se ha diseñado para poder montarse de forma rápida y sencilla. El contrapeso es un bloque de hormigón de 12,5 kg, protegido por una envolvente de ABS. La versión autoportante no tiene que ser fijada a la estructura de ninguna manera y, por lo tanto, no altera la integridad de la cubierta sobre la que se instala. La baranda autoportante GUARD es también una solución para poner en seguridad las claraboyas. También permite indicar las zonas de trabajo o evacuación.

NORMATIVAS

La baranda autoportante GUARD entra en el ámbito de aplicación de la normativa europea EN ISO 14122-3 de marzo de 2017, Seguridad de las máquinas. Medios de acceso permanentes a máquinas. Parte 3: Escaleras, escalas de escalones y guardacuerpos.

La baranda autoportante GUARD de fijación horizontal ha superado con éxito los controles y las pruebas estáticas y dinámicas requeridas por la normativa EN ISO 14122-3.

Certificado de conformidad: DEKRA n°5253744A/19 baranda GUARD autoportante recta, n°5253744A/21 baranda GUARD autoportante inclinada.

RECORDATORIO DE LAS NORMATIVAS

- Las barandas se deben instalar siempre que la altura de caída sea superior a 2000 mm (comprobar la normativa local).
- El pasamanos de la baranda debe quedar a una altura de al menos 1100 mm de la superficie de pisoteo.
- 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 (o borde de parada de pie) 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.
- Se deben instalar 3 contrapesos (37,5 kg) en la pata de sostén del extremo, por cada sección que termine en tapón.
- ATENCIÓN:** Debe estar presente obligatoriamente un murete perimetral en el borde de la cubierta. En caso contrario, puede contactar con nuestra oficina.
- 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.

- Con murete perimetral de hasta 20 mm, la baranda autoportante está prohibida. De 20 mm hasta 100 mm se utiliza el rodapié. Más de 100 mm, no se necesita el rodapié.

USO - MANTENIMIENTO

- La persona que instale la baranda GUARD tiene que ser una persona debidamente cualificada 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 una persona cualificada 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 una persona cualificada 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.
- El uso de un rodapié GUARD es obligatorio si la terraza no tiene murete perimetral o si la altura de este es inferior a 100 mm.
- Si se instala en un ambiente contaminado industrial, 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.
- Está prohibido utilizar las manijas para elevar el lastre del suelo al techo.

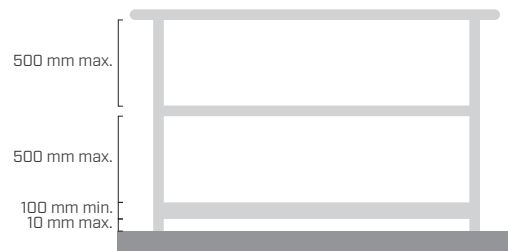


BARANDA SIN RODAPIÉ



con murete perimetral superior a 150 mm

BARANDA CON RODAPIÉ



sin murete perimetral o inferior a 150 mm

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ALMACENAMIENTO

Los componentes de aluminio bruto se empaquetan en contacto entre sí. La acción de la lluvia en el paquete sin abrir 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 entre sí (sin contacto entre ellos), o bien guardar los paquetes sin abrirlos en un lugar seco.

INSTALACIÓN Y ZONAS DE VIENTO

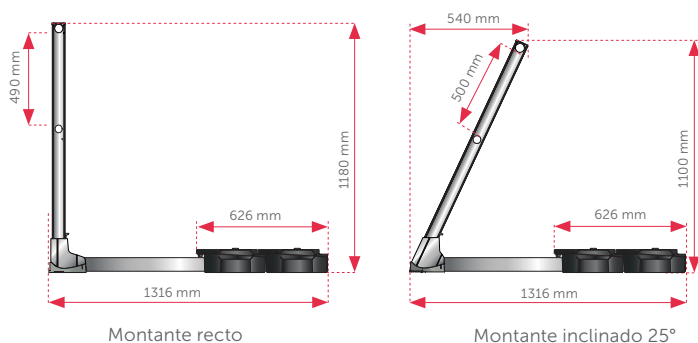
La baranda autoportante GUARD estándar (2 contrapesos por cada pata de sostén, 3 contrapesos por las patas de sostén en los extremos) es compatible con la zona de viento 1 (lugar protegido, normal y expuesto), la zona de viento 2 (lugar protegido y normal) y la zona de viento 3 (lugar protegido y normal). A título indicativo, la velocidad máxima del viento es de 166 km/h*.

Cualquier otra configuración requiere precauciones especiales (adición de contrapesos) que deben ser estudiadas y validadas previamente por nuestra oficina de proyectos. Rothoblaas no podrá ser considerada responsable de una instalación no conforme a estas recomendaciones.

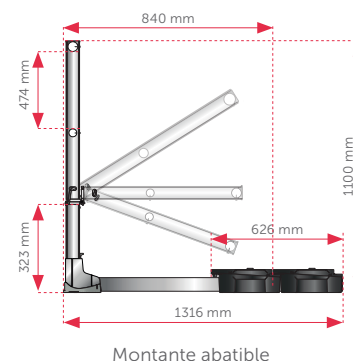
**Referencia normativa: Norma NV 65 (DTU P 06-002) y Euro-code1 EN1991-1-4.*

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.



GUARD W

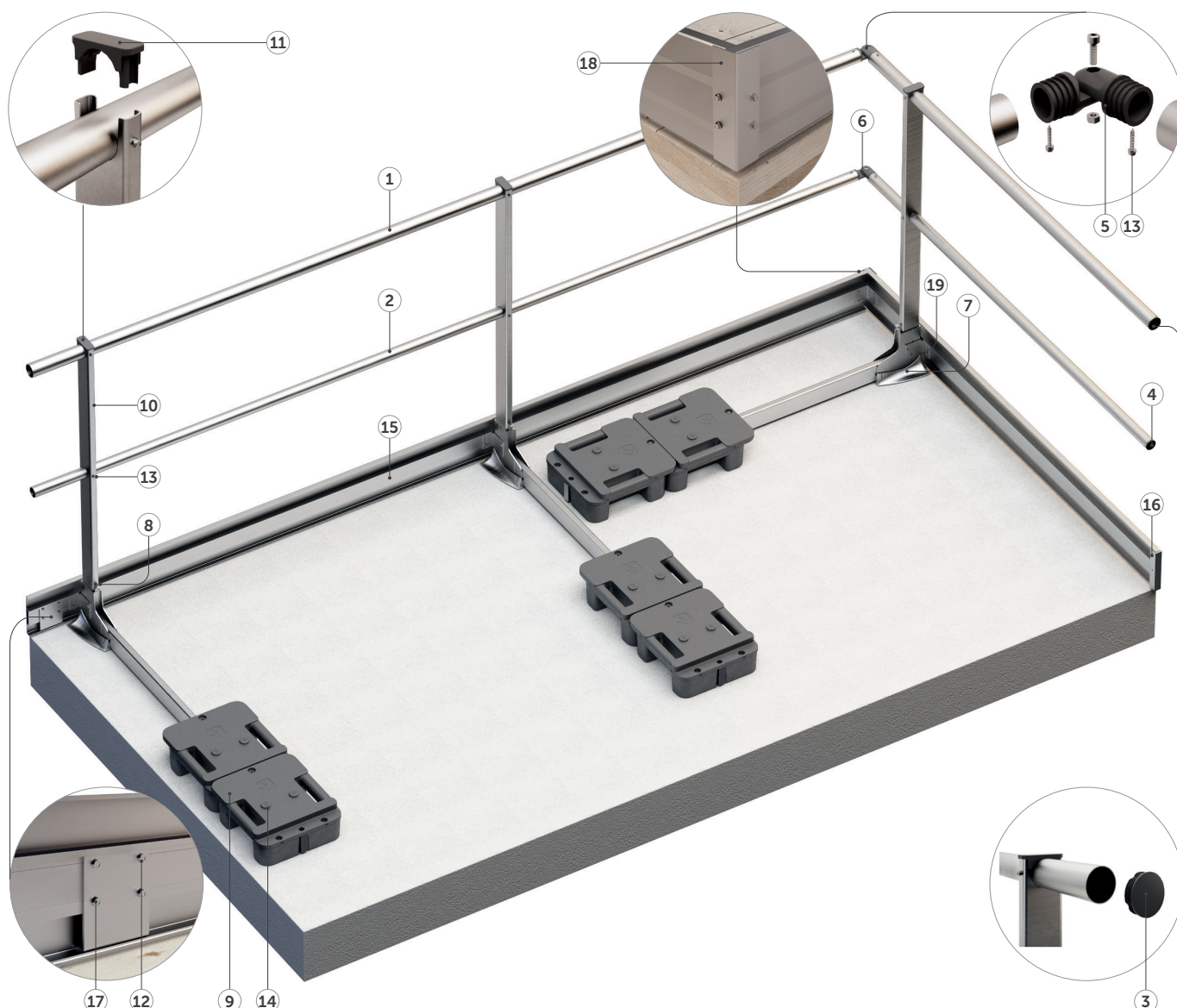
BARANDA AUTOPORTANTE

EN
14122-3:
2016

EN
13374+A1:
2018

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)
7 RBGBASEW	base para baranda autoportante GUARD W recta con pata de sostén
8 RBGBASEWE	cuña de bloqueo para GUARD W
9 RBGWEIGHT	contrapeso de plástico 12,5 kg para GUARD W
10 RBGSUP110	montante recto H = 1105 mm hueco Ø45 mm
10 RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm

CÓDIGO	descripción
11 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
12 RBGSCR4816	tornillo autoperforante 4,8 x 16 mm de acero inoxidable
13 RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable
14 RBGSCR4850	tornillo autoperforante 4,8 x 50 mm de acero inoxidable
15 RBGTB	rodapié 3000 x 150 x 19 mm
16 RBGTBCAP	tapón para rodapié H = 150 mm
17 RBGTBJUN	conector recto rodapié H = 150 mm
18 RBGTBCOR	reenvío de ángulo rodapié H = 150 mm
19 RBGTBH	soporte para rodapié H = 150 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 W

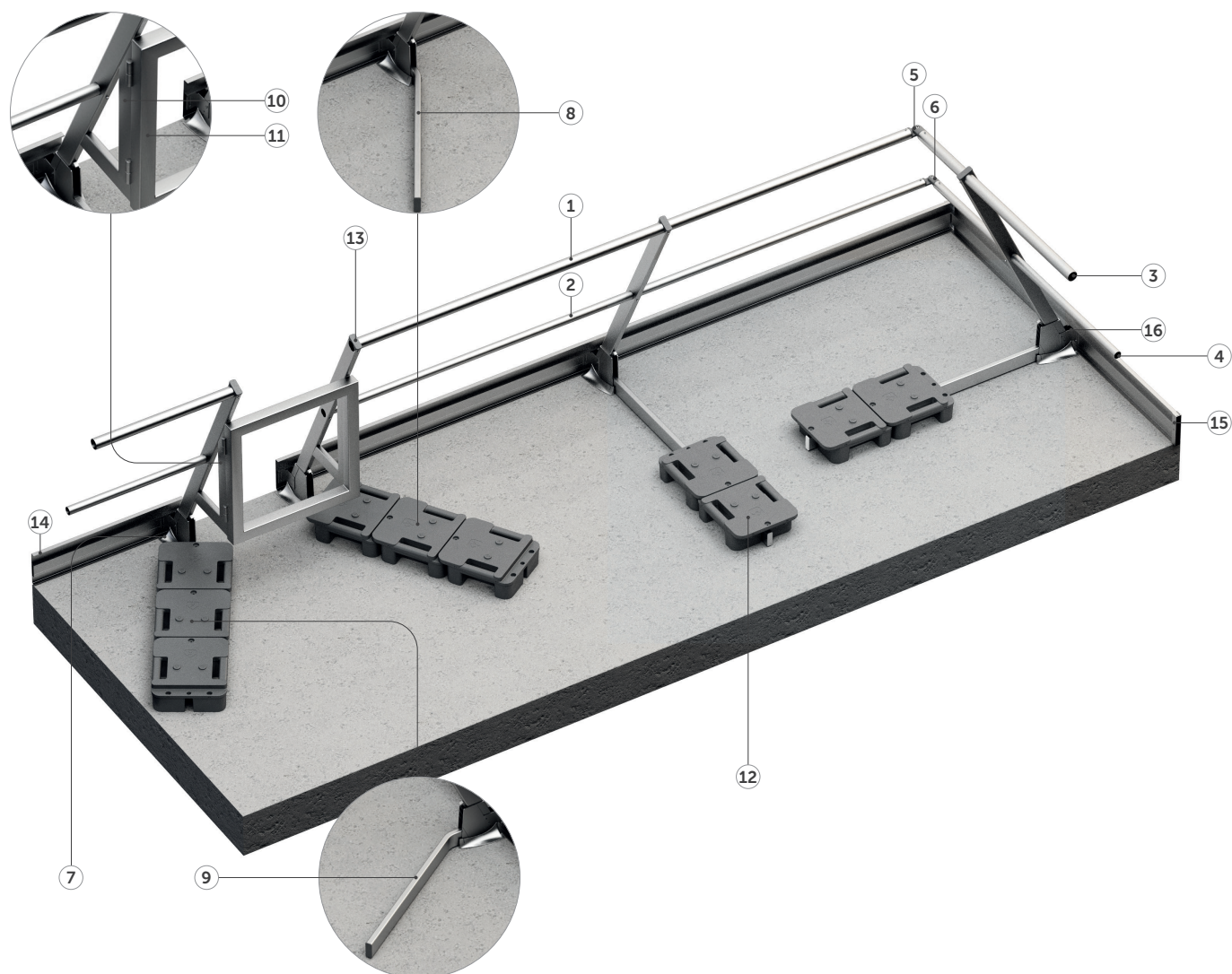
BARANDA AUTOPORTANTE INCLINADA

EN
14122-3:
2016

EN
13374+A1:
2018

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)
7 RBGBASEWI	base para baranda autoportante GUARD W inclinada con pata de sostén
8 RBGBASEWIFCR NEW	pata de sostén para montante inclinado con curva a la derecha a 25°
9 RBGBASEWIFCL NEW	pata de sostén para montante inclinado con curva a la izquierda a 25°
10 RBGGATEWISUP NEW	soporte para cancela montante inclinado

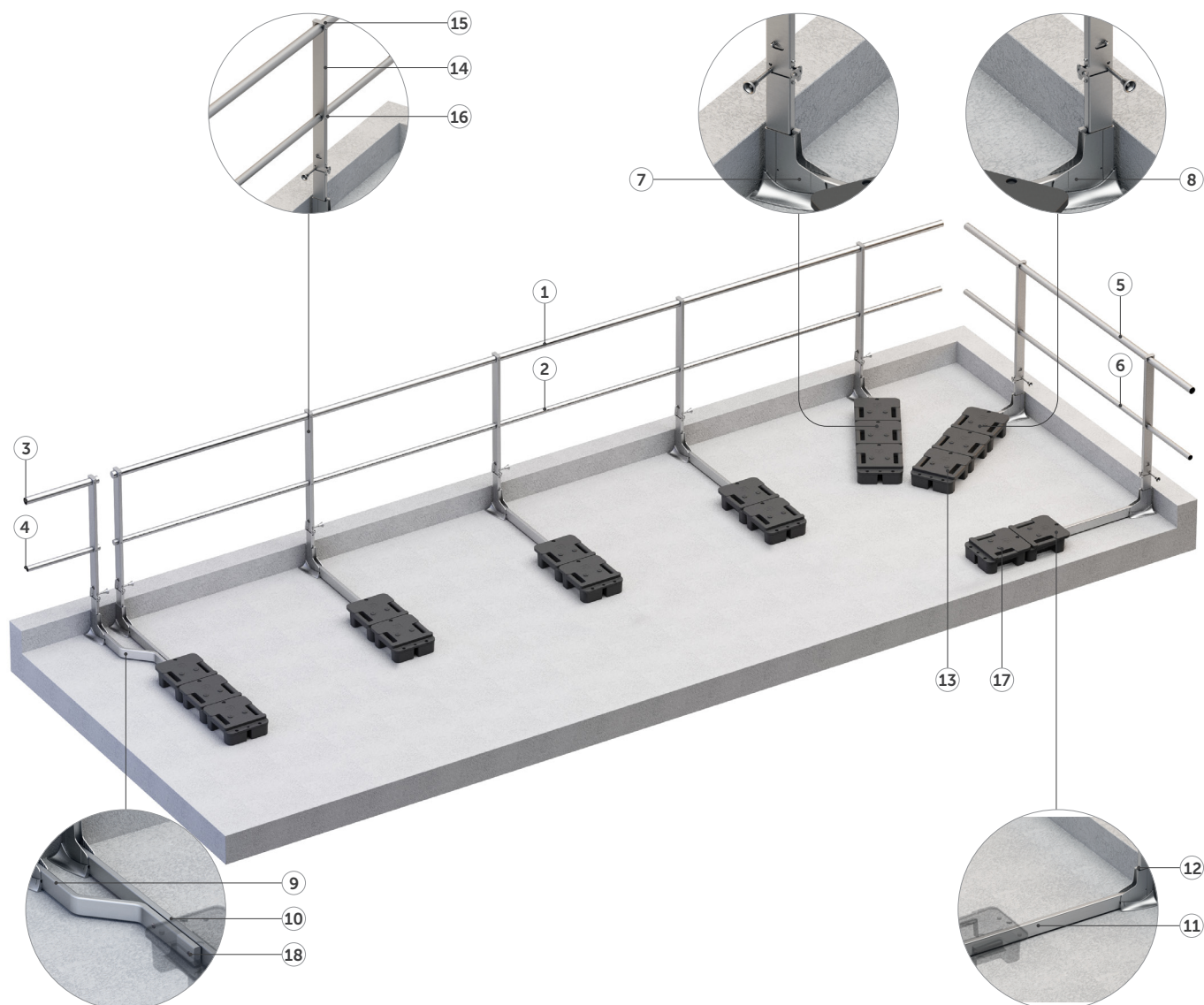
CÓDIGO	descripción
RBGGATE600	cancela de seguridad de 500 mm de altura con bisagras montadas L = 600 mm
11 RBGGATE1100	cancela de seguridad de 500 mm de altura con bisagras montadas L = 1100 mm
12 RBGWEIGHT	contrapeso de plástico 12,5 kg para GUARD W
CÓDIGO	descripción
13 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
14 RBGTB	rodapié 3000 x 150 x 19 mm
15 RBGTBCAP	tapón para rodapié H = 150 mm
16 RBGTBH	soporte para rodapié H = 150 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

GUARD W | sistema abatible

BARANDA AUTOPORTANTE ABATIBLE



CÓDIGO	descripción
1 RBGBAR45	pasamanos Ø45 mm con virolas empotrables L = 3000 mm
2 RBGBAR35	barra intermedia Ø35 con virolas empotrables L = 3000 mm
5 RBGBAR45F	pasamanos sin virolas empotrables Ø45 mm L = 3000 mm
6 RBGBAR35F	barra intermedia sin virolas empotrables Ø35 mm L = 3000 mm
3 RBGCAP45	tapón para pasamanos Ø45 mm
4 RBGCAP35	tapón para barra intermedia Ø35 mm
7 RBGBASEWFCR	pata de sostén para montante inclinado con curva a la derecha a 25°
8 RBGBASEWFCL	pata de sostén para montante inclinado con curva a la izquierda a 25°
9 RBGBASEWFL	pata de sostén con curva a la izquierda para baranda abatible
10 RBGBASEWFF	base para baranda autoportante GUARD W con agujeros
11 RBGBASEWF	base para baranda autoportante GUARD W recta con pata de sostén
12 RBGBASEWE	cuña de bloqueo para GUARD W

CÓDIGO	descripción
13 RBGWEIGHT	contrapeso de plástico 12,5 kg para GUARD W
RBGSUP100F	montante abatible H = 1010 mm hueco Ø45 mm
14 RBGSUP110F	montante abatible H = 1105 mm hueco Ø45 mm
CÓDIGO	descripción
15 RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm
16 RBGSCR4825	tornillo autoperforante 4,8 x 25 mm de acero inoxidable
17 RBGSCR4850	tornillo autoperforante 4,8 x 50 mm de acero inoxidable
18 RBGBASEWFKIT	kit para la fijación de GUARD W - F

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

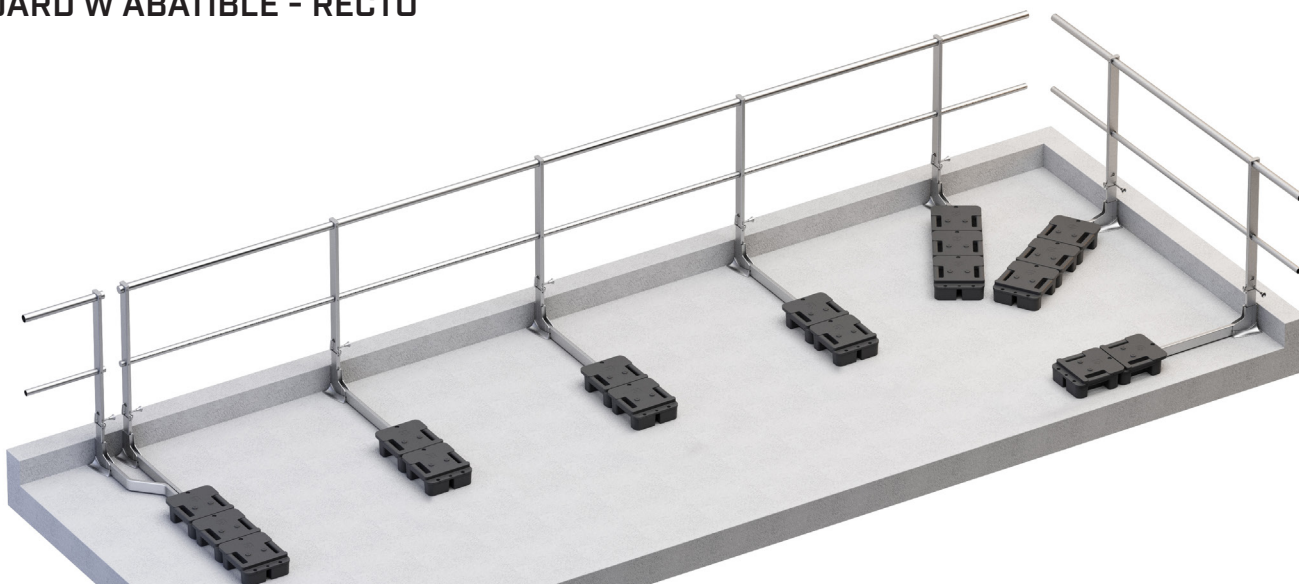
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GUARD W | sistema abatible

La baranda abatible GUARD está formada por módulos con una longitud variable de 6, 12 o 18 m. Para más de 12 m, se requieren al menos dos operadores para manipular la baranda. Para más información, consultar el manual de instalación.

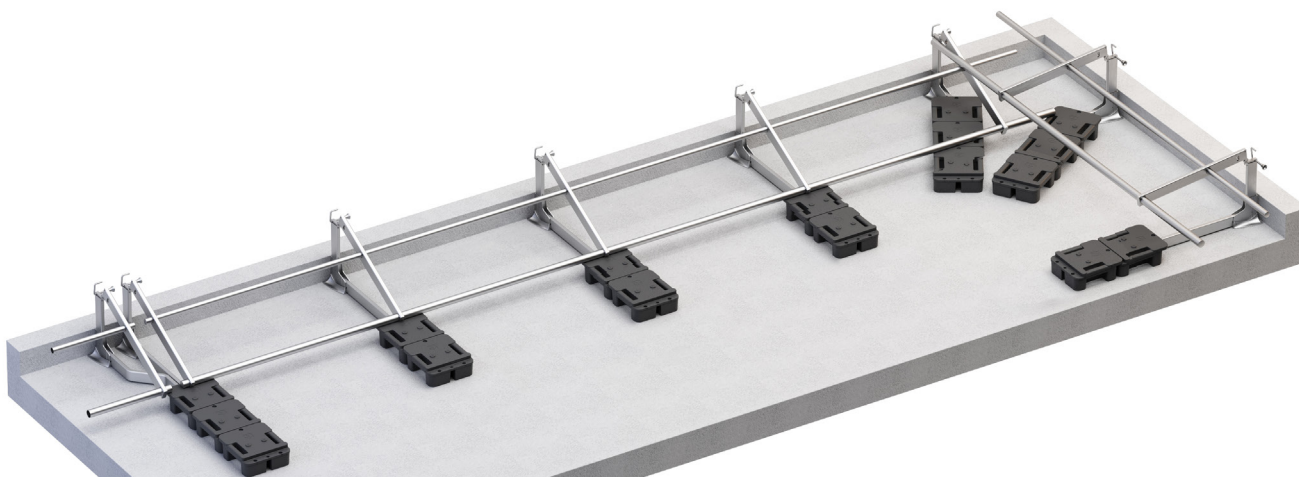
GUARD W ABATIBLE - RECTO



GUARD W ABATIBLE - MÓDULO DE 6 m BAJADO Y LOS DEMÁS PLEGADOS HASTA LA MITAD



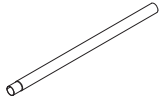
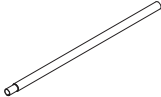
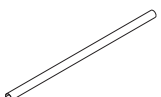
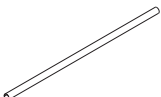
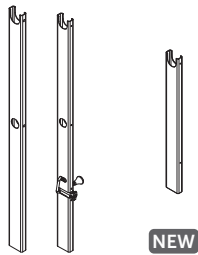
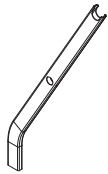
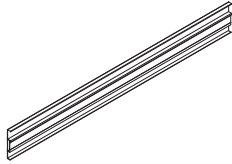
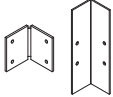
GUARD W ABATIBLE - TODOS LOS MÓDULOS PLEGADOS



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GUARD | componentes

CÓDIGOS Y DIMENSIONES

GRUPO	CÓDIGO	descripción	unid.	
PASAMANOS Y BARRAS INTERMEDIAS	RBGBAR45	pasamanos Ø45 mm con violas empotrables L = 3000 mm	1	
	RBGBAR35	barra intermedia Ø35 con violas empotrables L = 3000 mm	1	
	RBGBAR45F	pasamanos sin violas empotrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	barra intermedia sin violas empotrables Ø35 mm L = 3000 mm	1	
	RBGCAP	tapón montante 68 x 28 mm hueco Ø45 mm	1	
MONTANTES	RBGSUP100	montante recto H = 1028 mm hueco Ø45 mm	1	
	RBGSUP110	montante recto H = 1105 mm hueco Ø45 mm	1	
	RBGSUP118	montante recto H = 1182 mm hueco Ø45 mm	1	
	RBGSUP110F	montante abatible H = 1105 mm hueco Ø45 mm	1	
	RBGSUP100F	montante abatible H = 1010 mm hueco Ø45 mm	1	
	RBGSUP130	montante recto H = 1300 mm hueco Ø45 mm	1	
	RBGSUP760WH NEW	montante recto altura 760 mm sin barra intermedia	1	
	RBGSUP115I	montante inclinado H = 1157 mm hueco Ø45 mm	1	
RODAPÍES 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	

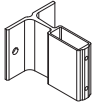
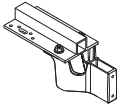
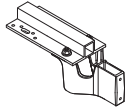
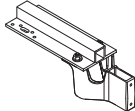
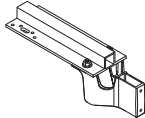
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GUARD | componentes

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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CÓDIGOS Y DIMENSIONES

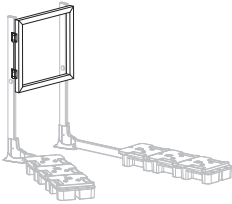
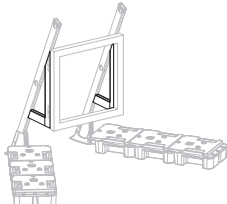
GRUPO	CÓDIGO	descripción	unid.	
BASES PARA FIJACIÓN A CHAPA TRAPEZOIDAL	RBGBASE250PA	placa para fijación a chapas trapezoidales con paso de 250 mm, GUARD paralelo a las grecas (tornillos no incluidos)	1	
	RBGBASE333PA	placa para fijación a chapas trapezoidales con paso de 333 mm, GUARD paralelo a las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

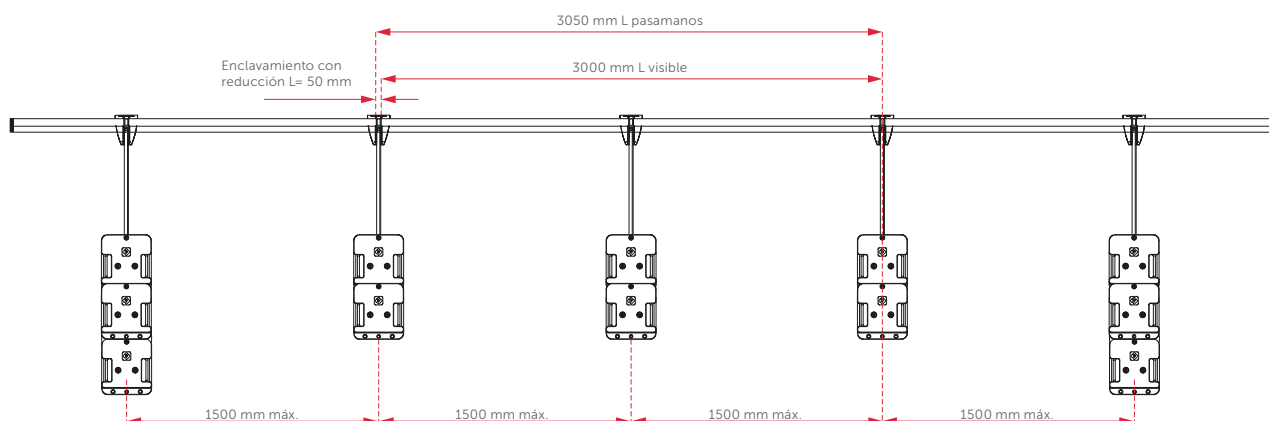
GRUPO	CÓDIGO	descripción	unid.	
KIT CANCELAS DE SEGURIDAD	RBGGATE600	cancela de seguridad de 500 mm de altura con bisagras montadas L = 600 mm	1	
	RBGGATE1100	cancela de seguridad de 500 mm de altura con bisagras montadas L = 1100 mm	1	
	RBGGATEWISUP NEW	soporte para cancela montante inclinado	1	
MANUALES	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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■ INSTALACIÓN DE LA BARANDA AUTOPORTANTE GUARD (EN 14122-3)

MONTAJE DE LA BARANDA EN LÍNEA RECTA



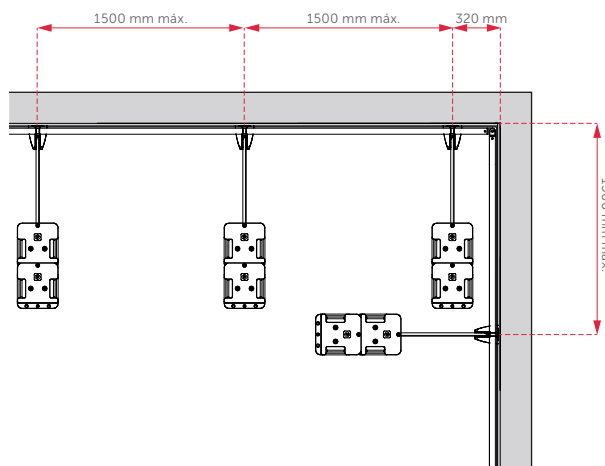
NTC 2018:

la distancia máxima para NTC 2018 es de 750 mm y deben colocarse n.º 3 lastres por soporte

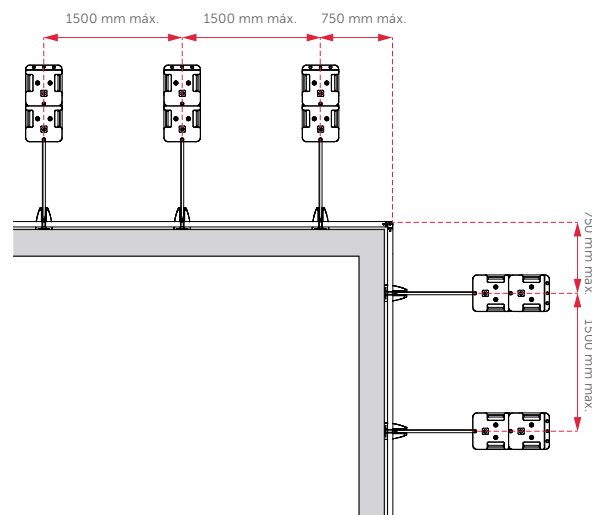
EN 13374+A1 :2018:

La distancia máxima para EN 13374 es de 2500 mm

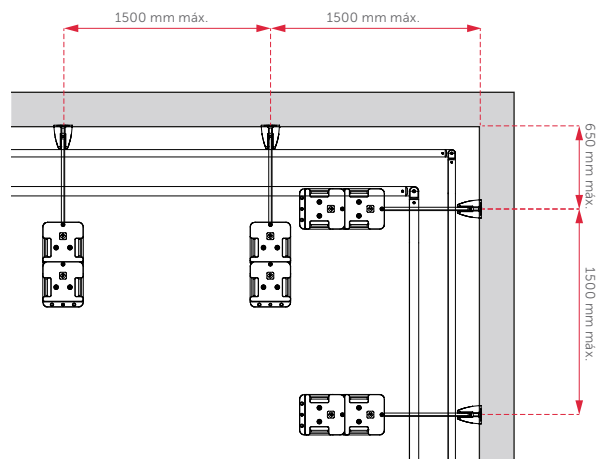
MONTAJE AUTOPORTANTE RECTO - ÁNGULO EXTERIOR



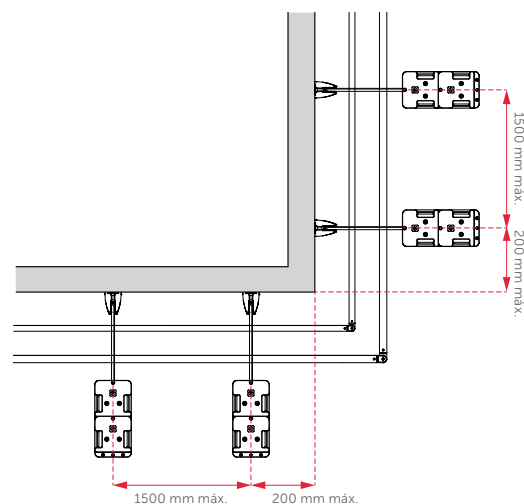
MONTAJE AUTOPORTANTE RECTO - ÁNGULO INTERNO



MONTAJE AUTOPORTANTE INCLINADO - ÁNGULO EXTERNO



MONTAJE AUTOPORTANTE INCLINADO - ÁNGULO INTERNO

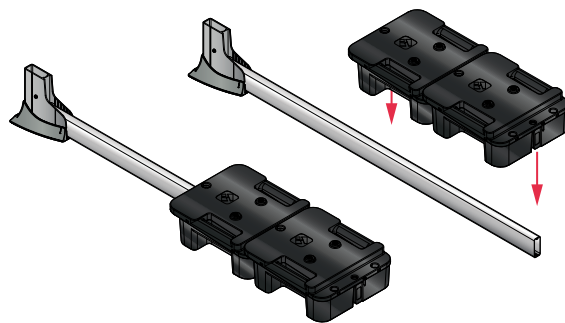
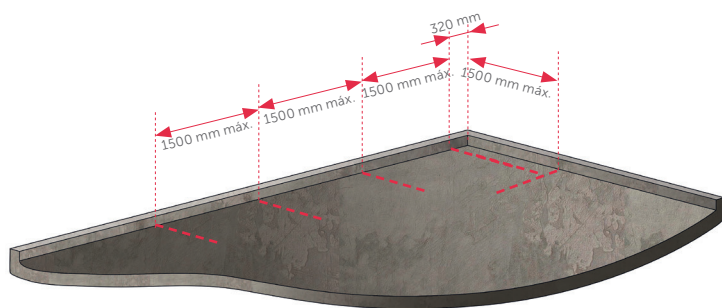


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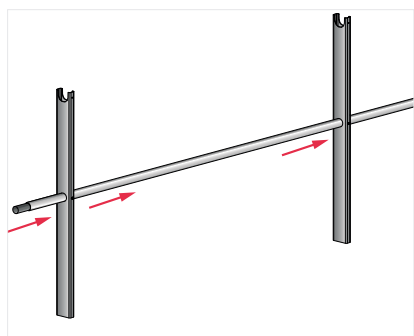
■ INSTALACIÓN

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

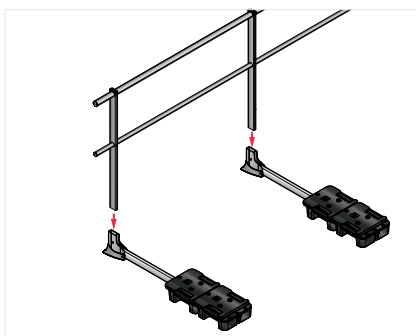


1 - Marcar un punto de referencia cada 1500 mm como máximo y retirar la grava si es necesario para colocar la baranda.

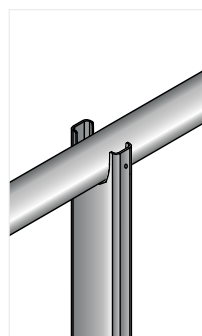
2 - Colocar y ajustar los contrapesos en la pata de sostén para que no exceda el contrapeso.



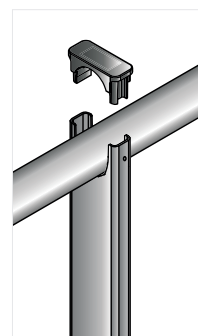
3 - Colocar una barra intermedia entre dos montantes.



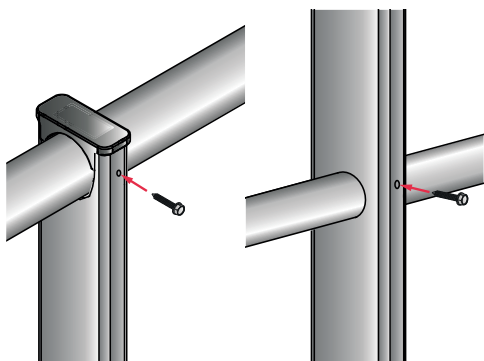
4 - Insertar la barra intermedia + montantes en las bases.



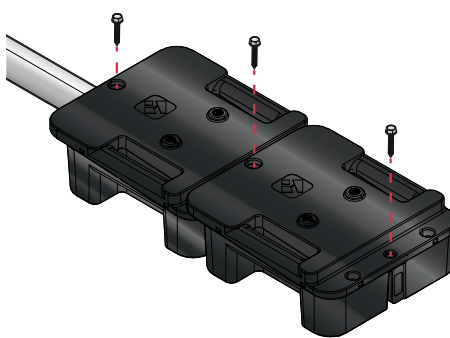
5 - Colocar el pasamanos en los montantes.



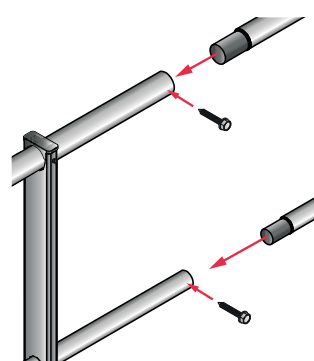
6 - Cerrar la parte superior del montante.



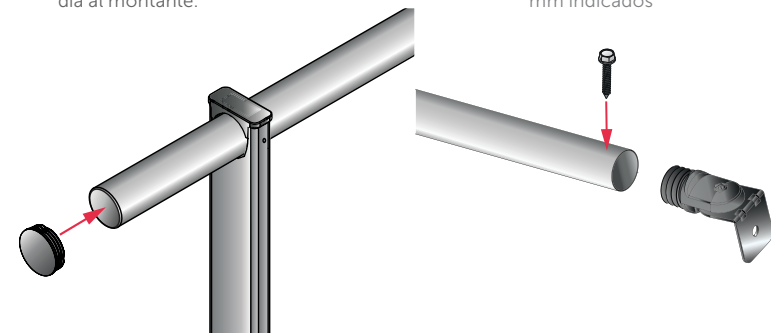
7 - Enroscar los tornillos autopercutores 4,8 x 25 mm que fijan el pasamanos y la barra intermedia al montante.



8 - Una vez montado el conjunto de la baranda, apriete los tornillos autopercutores de 4,8 x 50 mm indicados.



9 - Ensamblar los pasamanos y las barras intermedias fijando con tornillos 4,8 x 16 mm.



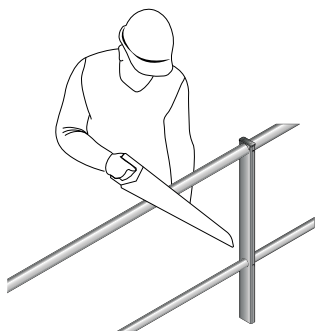
10 - Poner los tapones o los elementos terminales en los pasamanos o barras intermedias.



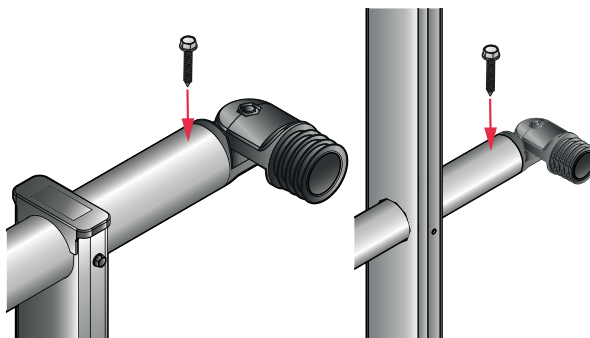
11 - Introducir los ángulos en los pasamanos o las barras intermedias.

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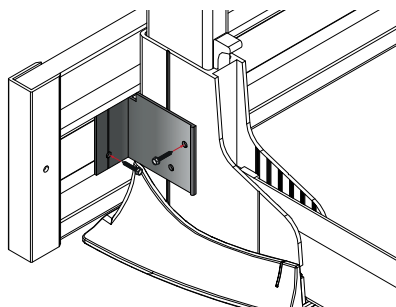


12 - Adaptar la última sección cortando la parte sobrante.

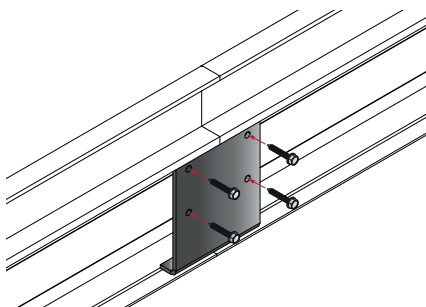


13 - Fijar los ángulos con tornillos autoperforantes 4,8 x 25 mm.

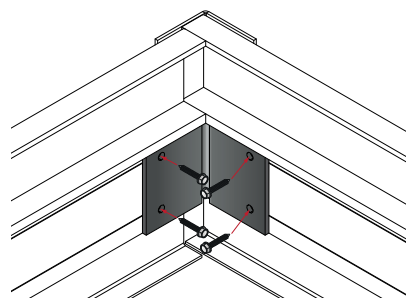
FIJACIÓN DEL RODAPIÉ



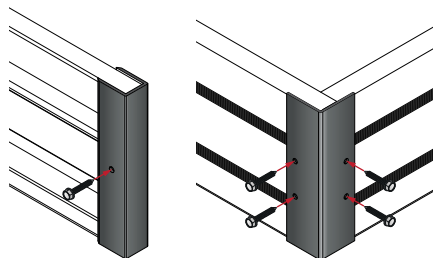
1 - Colocar el soporte del rodapié en la base y fijar con 4 tornillos autoperforantes 4,8 x 16 mm (2 tornillos cada lado).



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

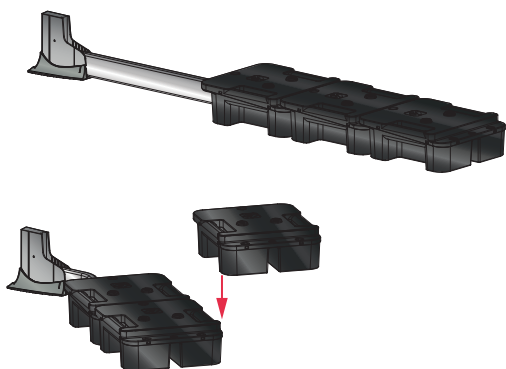


3 - Para los ángulos, fijar los conectores internos y externos con 8 tornillos autoperforantes 4,8 x 16 mm.

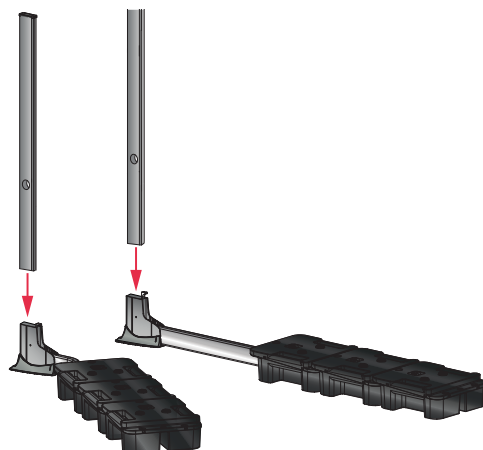


4 - Por último, fijar los tapones de los rodapiés con 1 tornillo autoperforante 4,8 x 16 mm.

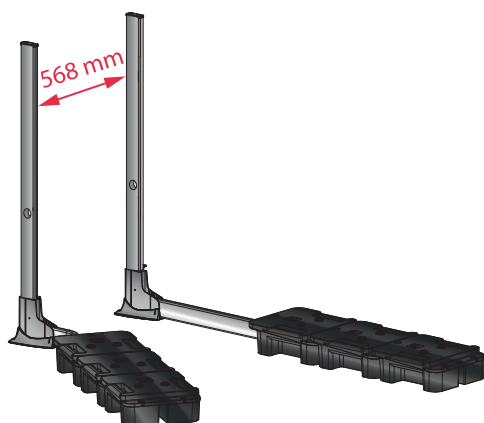
MONTAJE DE LA CANCELA DE SEGURIDAD H 580 MM PARA LA BARANDA AUTOPORTANTE RECTA



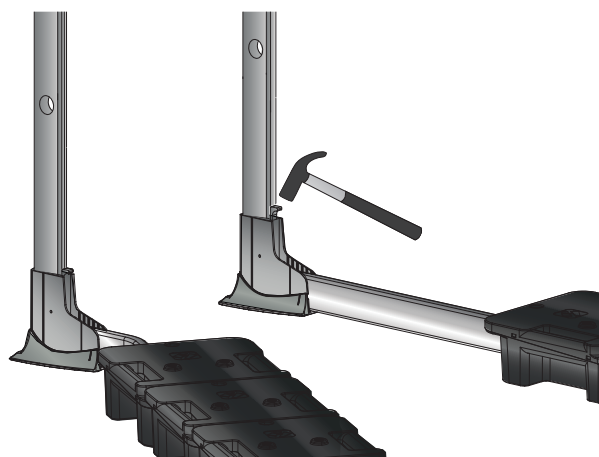
1 - Insertar los contrapesos en la pata de sostén con curva. El tubo de la pata debe estar nivelado con el segundo contrapeso de plástico. El tercer contrapeso se instala en el exterior de la pata.



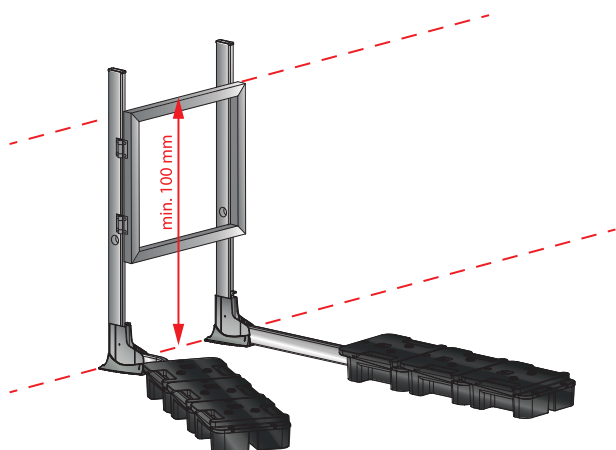
2 - Insertar los montantes en las bases.



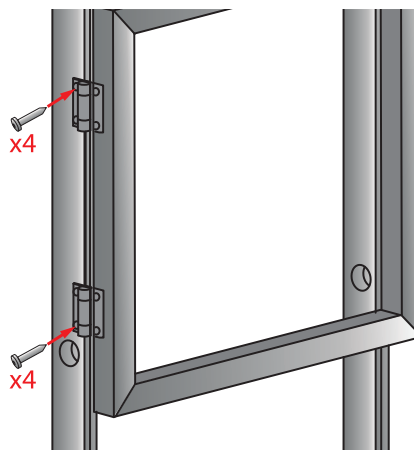
3 - Colocar los montantes y las pata de sostén con un interjeje de 568 mm.



4 - Utilizando un martillo, insertar la cuña de bloqueo entre el montante y la base.



5 - Colocar la cancela de seguridad a una altura mínima de 1000 mm desde el suelo.



6 - Fijar las bisagras de la cancela de seguridad con los tornillos DRI-LLNOX DBS2 6x25 mm suministrados en el kit.

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MANUEL D'INSTALLATION

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DÉFINITION

Le garde-corps GUARD autoportant est un dispositif de protection collective antichute. Il représente la solution idéale pour la mise en sécurité des toitures lorsqu'il est techniquement impossible d'effectuer des soudures, des fixations sur le muret ou sur le plancher en ciment. Ce système évite les perçages ou la fixation nécessaire sur la structure. Son design permet un montage simple et rapide du garde-corps. Le contre-poids est un bloc en béton de 12,5 kg, protégé par une enveloppe en ABS. La version autoportante ne doit absolument pas être fixée à la structure et n'altère donc pas l'intégrité de la toiture sur laquelle elle est posée. Le garde-corps autoportant GUARD est aussi une solution pour la mise en sécurité des puits de lumière. Il permet aussi de signaler les zones de travail ou d'évacuation.

RÈGLEMENTATIONS

Le garde-corps autoportant GUARD est conforme à la norme européenne EN ISO 14122-3 de mars 2017, Sécurité des machines - Moyens d'accès permanents aux machines - Partie 3 : escaliers, échelles à marches et garde-corps.

Le garde-corps autoportant GUARD a passé avec succès les tests et les essais statiques et dynamiques requis par la norme EN ISO 14122-3.

Certificat de conformité : DEKRA n°5253744A/19 garde-corps GUARD autoportant droit, n°5253744A/21 garde-corps GUARD autoportant incliné.

RAPPEL DES NORMES

- Un garde-corps doit être installé lorsque la hauteur de chute dépasse 2 000 mètres (vérifier les réglementations locales).
- La hauteur de la lisse du garde-corps doit être au moins 1 100 mm au-dessus de la surface de passage.
- 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 planche garde-pieds (ou le bord de butée pour 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.
- 3 contre-poids (37,5 kg) doivent être installés sur le pied d'appui situé à l'extrémité, pour chaque section se terminant par un bouchon.
- ATTENTION :** Un mur d'enceinte au bord du toit doit être obligatoirement présent. Dans le cas contraire, veuillez contacter notre bureau.
- 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.
- Le garde-corps autoportant est interdit avec un mur d'encein-

te de moins de 20 mm. De 20 mm à 100 mm, l'utilisation de la plinthe est nécessaire. Au-delà de 100 mm, la plinthe n'est plus nécessaire.

UTILISATION - ENTRETIEN

- La personne qui effectue l'installation du garde-corps GUARD doit être une personne qualifiée 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 une personne compétente.
- 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 qu'une personne compétente 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.
- L'utilisation d'une plinthe garde-pieds GUARD est obligatoire si la toiture n'a pas de muret ou si celui-ci est inférieur à 100 mm.
- Si le garde-corps GUARD est installé dans un milieu pollué industriel, 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.
- IL EST interdit d'utiliser les poignées pour soulever le ballast du sol jusqu'au toit.



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

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STOCKAGE

Les composants en aluminium brut sont conditionnés en contact les uns avec les autres. L'action de la pluie sur l'emballage non ouvert favorisera l'oxydation de ces composants. Dans ce cas, des taches peuvent apparaître à la surface. Celles-ci ne remettent pas en cause la qualité de l'aluminium mais peuvent nuire à l'aspect esthétique du garde-corps.

Il est conseillé de déballer le colis et de conserver les composants séparés les uns des autres dans l'entrepôt (aucun contact entre eux), ou de conserver les colis encore emballés dans un endroit sec.

INSTALLATION ET ZONES DE VENT

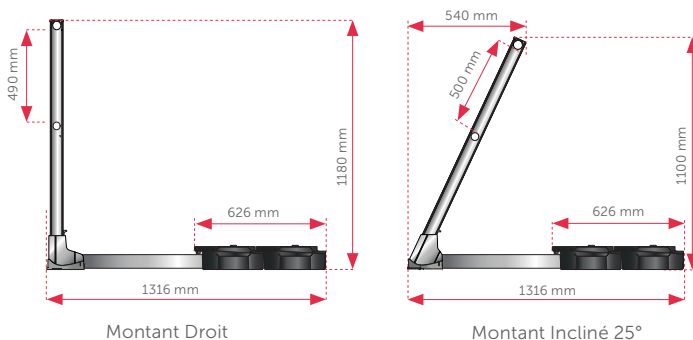
Le garde-corps autoportant GUARD standard (2 contre-poids pour chaque pied d'appui, 3 contre-poids pour les pieds d'appui situés aux extrémités) est compatible avec la zone de vent 1 (site protégé, normal et exposé), la zone de vent 2 (site protégé et normal) et la zone de vent 3 (site protégé et normal). À titre indicatif, une vitesse de vent maximale de 166 km/h*.

Toute autre configuration exige des précautions spéciales (ajout de contre-poids) qui doivent être conçues et validées précédemment par notre bureau d'études. Rothoblaas ne pourra être tenu responsable de toute installation non conforme à ces recommandations.

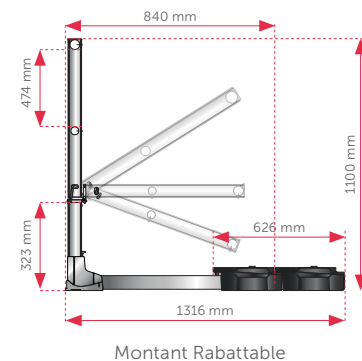
**Référence réglementaire : Norme NV 65 (DTU P 06-002) et Eurocode1 EN1991-1-4.*

DIMENSIONS

Dimensions des montants :

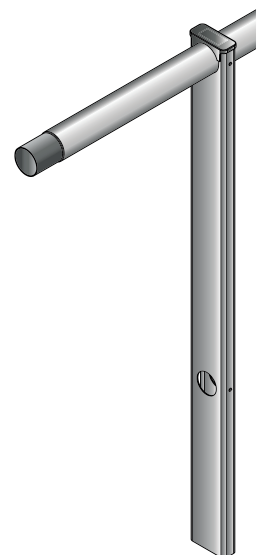


Dimensions de la base :



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 W

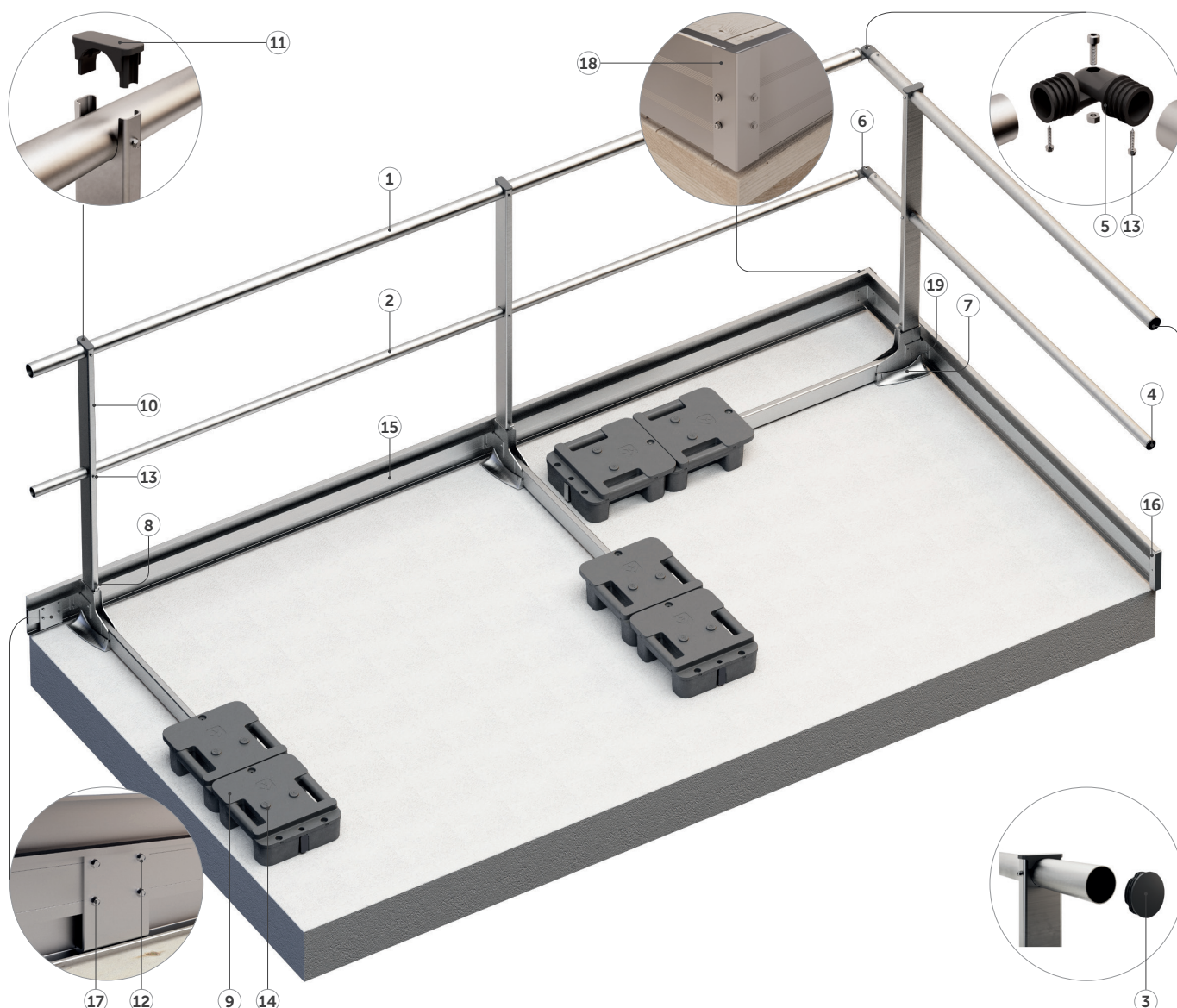
GARDE-CORPS AUTOPORTANT

EN
14122-3:
2016

EN
13374+A1:
2018

NTC
2018

NF
E85-015:
2019



CODE	description
1 RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm
2 RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm
3 RBGCAP45	bouchon pour lisse Ø45 mm
4 RBGCAP35	bouchon pour sous-lisse Ø35 mm
5 RBGCOR45	angle pour lisse Ø45 mm
6 RBGCOR35	angle pour sous-lisse Ø35 mm
5-6 RBGCORAL	coin en aluminium pour lisse et sous-lisse (alternatif à RBGCOR45/ RBGCOR35)
7 RBGBASEW	base pour autoportant GUARD W droite avec pied d'appui
8 RBGBASEWE	cale de blocage pour GUARD W
9 RBGWEIGHT	contre-poids en plastique 12,5 kg pour GUARD W
10 RBGSUP110	montant droit H = 1105 mm cavité Ø45 mm
10 RBGSUP118	montant droit H = 1182 mm cavité Ø45 mm

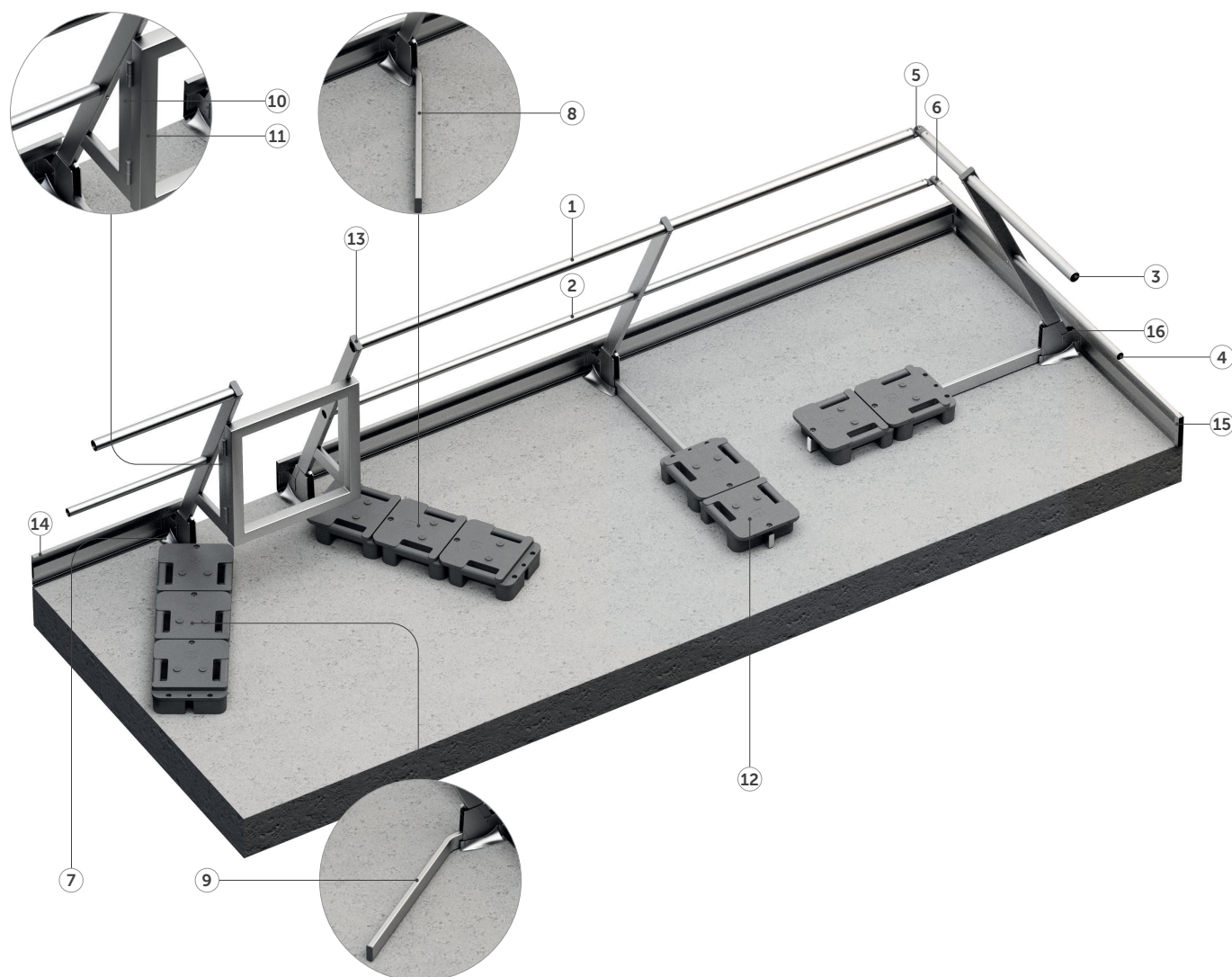
CODE	description
11 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
12 RBGSCR4816	vis autoforeuses 4,8 x 16 mm INOX
13 RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX
14 RBGSCR4850	vis autoforeuses 4,8 x 50 mm INOX
15 RBGTB	plinthe garde-pieds 3000 x 150 x 19 mm
16 RBGTBCAP	bouchon pour plinthe garde-pieds H = 150 mm
17 RBGTBJUN	raccord droit pour plinthe garde-pieds H = 150 mm
18 RBGTBCOR	jonction d'angle pour plinthe garde-pieds H = 150 mm
19 RBGTBH	support pour plinthe garde-pieds H = 150 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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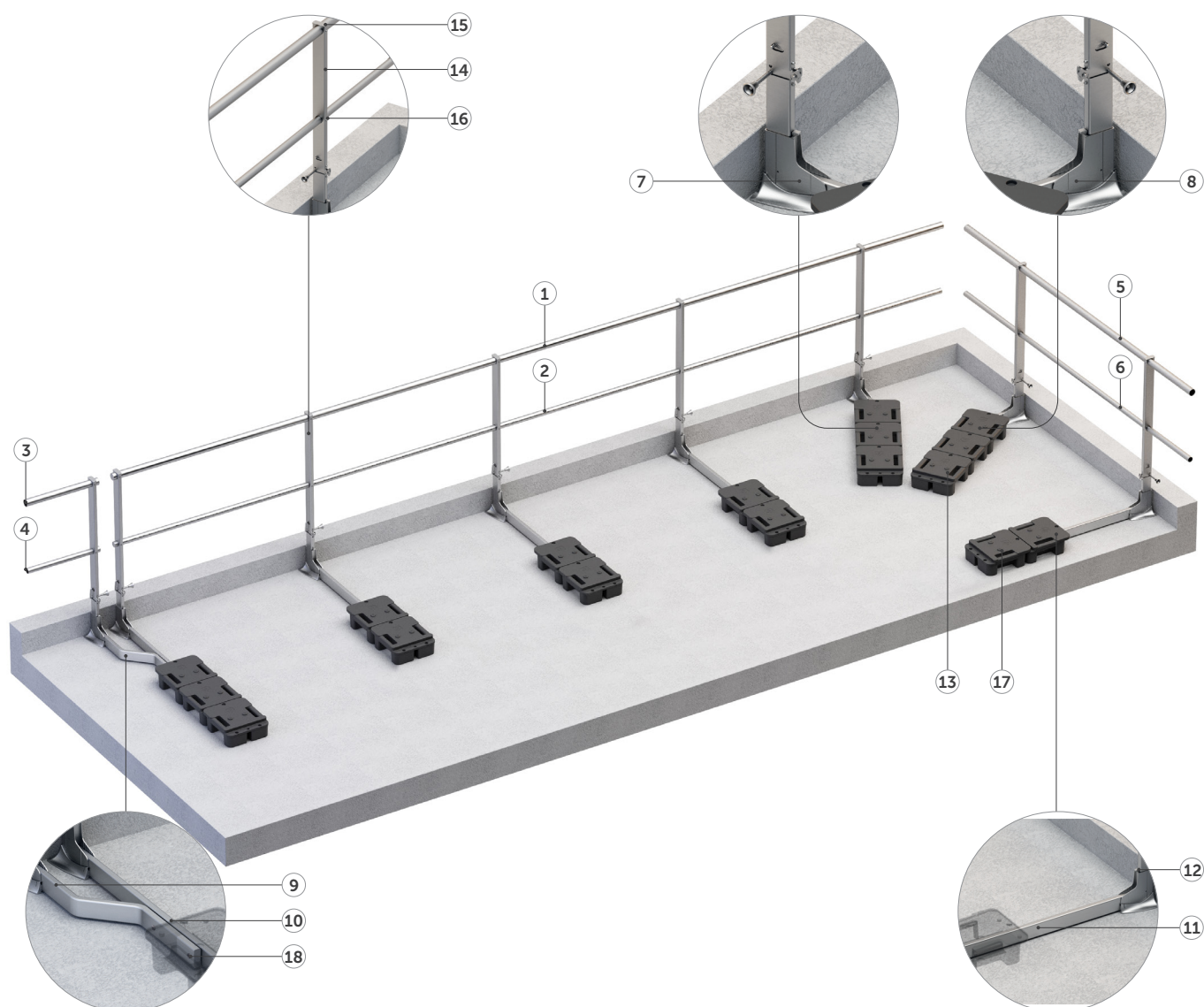


CODE	description
1 RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm
2 RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm
3 RBGCAP45	bouchon pour lisse Ø45 mm
4 RBGCAP35	bouchon pour sous-lisse Ø35 mm
5 RBGCOR45	angle pour lisse Ø45 mm
6 RBGCOR35	angle pour sous-lisse Ø35 mm
5-6 RBGCORAL	coin en aluminium pour lisse et sous-lisse (alternatif à RBGCOR45/ RBGCOR35)
7 RBGBASEWI	base pour autoportant GUARD W inclinée avec pied d'appui
8 RBGBASEWIFCR NEW	pied d'appui pour montant incliné courbé à droite 25°
9 RBGBASEWIFCL NEW	pied d'appui pour montant incliné courbé à gauche 25°
10 RBGGATEWISUP NEW	support pour portillon montant incliné

CODE	description
RBGGATE600	porte de sécurité 500 mm de hauteur avec charnières montées, L = 600 mm
11 RBGGATE1100	porte de sécurité 500 mm de hauteur avec charnières largeur, L = 1100 mm
12 RBGWEIGHT	contre-poids en plastique 12,5 kg pour GUARD W
CODE	description
13 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
14 RBGTB	plinthe garde-pieds 3000 x 150 x 19 mm
15 RBGTBCAP	bouchon pour plinthe garde-pieds H = 150 mm
16 RBGTBH	support pour plinthe garde-pieds H = 150 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

GUARD W | système rabattable

GARDE-CORPS AUTOPORTANT RABATTABLE



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
5 RBGBAR45F	lisse sans bagues encastrables Ø45 mm L = 3000 mm
6 RBGBAR35F	sous-lisse sans bagues encastrables Ø35 mm L = 3000 mm
3 RBGCAP45	bouchon pour lisse Ø45 mm
4 RBGCAP35	bouchon pour sous-lisse Ø35 mm
7 RBGBASEWFCR	pied d'appui pour montant incliné courbé à droite 25 °
8 RBGBASEWFCL	pied d'appui pour montant incliné courbé à gauche 25 °
9 RBGBASEWFL	pied d'appui avec coude à gauche pour garde-corps rabattable
10 RBGBASEWF	base pour autoportant GUARD W avec trous
11 RBGBASEW	base pour autoportant GUARD W droite avec pied d'appui
12 RBGBASEWE	cale de blocage pour GUARD W

CODE	description
13 RBGWIGHT	contre-poids en plastique 12,5 kg pour GUARD W
14 RBGSUP100F	montant rabattable H = 1010 mm cavité Ø45 mm
RBGSUP110F	montant rabattable H = 1105 mm cavité Ø45 mm
CODE	description
15 RBGCAP	bouchon montant 68 x 28 mm cavité Ø45 mm
16 RBGSCR4825	vis autoforeuses 4,8 x 25 mm INOX
17 RBGSCR4850	vis autoforeuses 4,8 x 50 mm INOX
18 RBGBASEWFKIT NEW	kit pour la fixation GUARD W - F

Pour fixation murale :

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

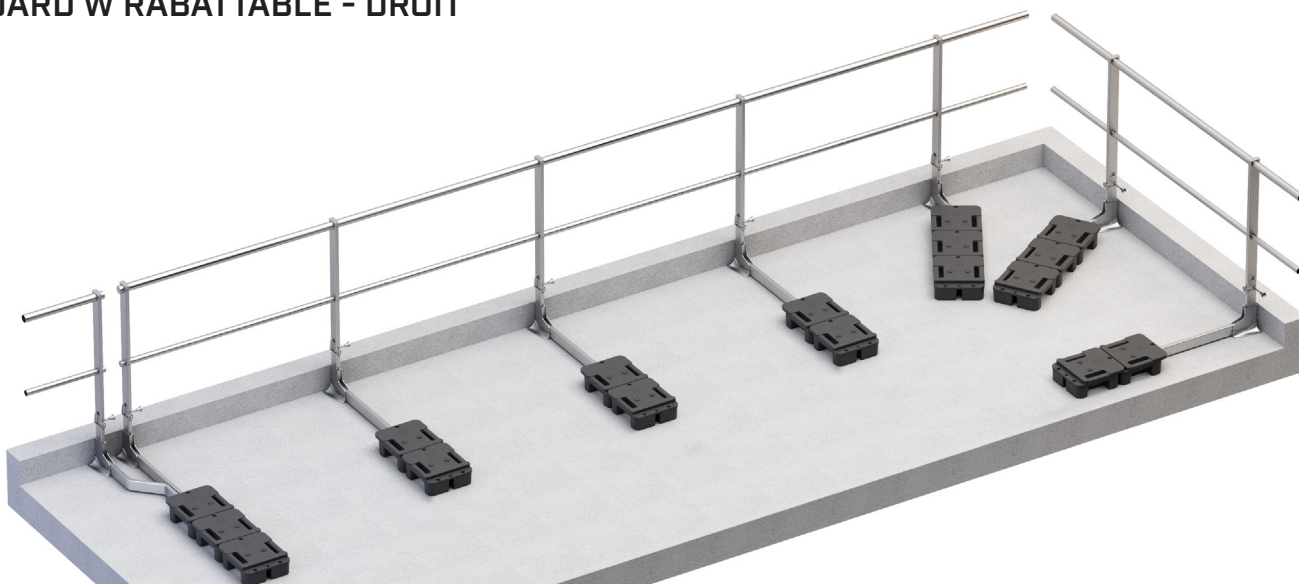
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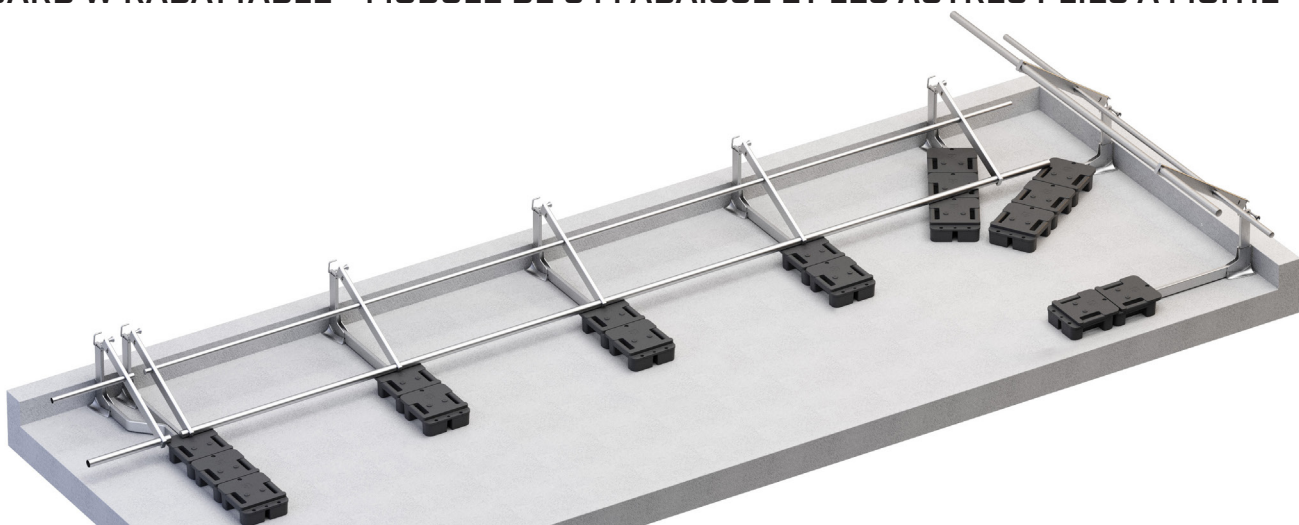
GUARD W | système rabattable

Le garde-corps rabattable GUARD est composé de modules d'une longueur variable entre 6, 12 ou 18 m. Au-delà de 12 m, au moins deux opérateurs sont requis pour changer l'inclinaison du garde-corps. Se référer au Manuel d'installation pour plus d'informations.

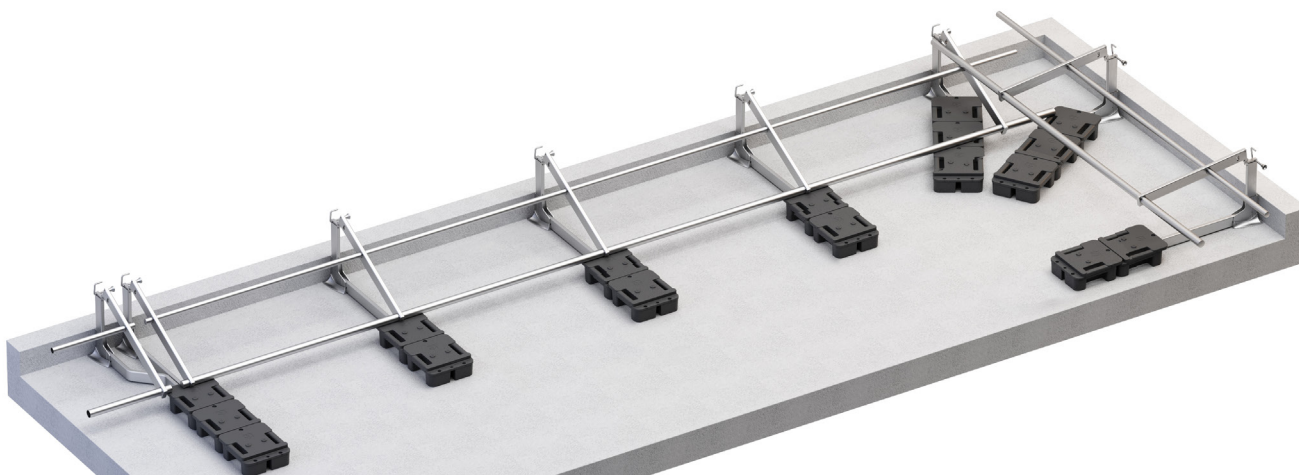
GUARD W RABATTABLE - DROIT



GUARD W RABATTABLE - MODULE DE 6 M ABAISSÉ ET LES AUTRES PLIÉS À MOITIÉ

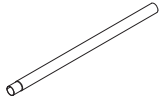
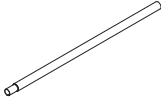
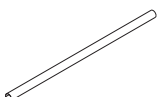
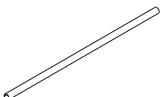
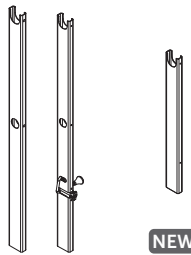
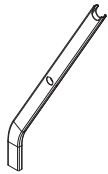
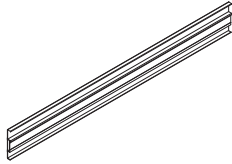
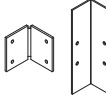


GUARD W RABATTABLE - TOUS LES MODULES PLIÉS



GUARD | composants

CODES ET DIMENSIONS

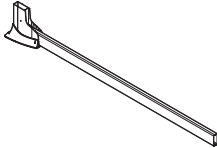
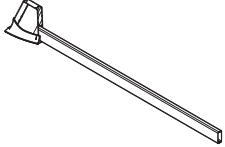
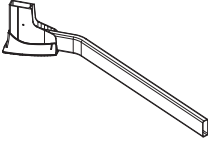
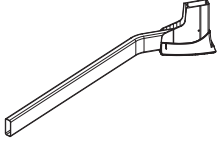
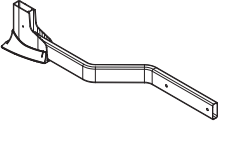
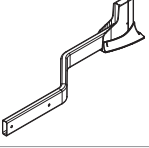
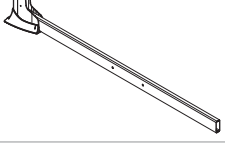
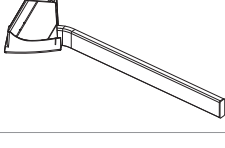
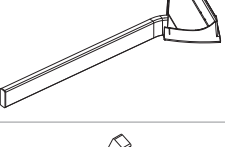
GROUPE	CODE	description	pcs.	
LISSES ET SOUS-LISSES	RBGBAR45	lisse Ø45 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR35	sous-lisse Ø35 mm avec bagues encastrables L = 3000 mm	1	
	RBGBAR45F	lisse sans bagues encastrables Ø45 mm L = 3000 mm	1	
	RBGBAR35F	sous-lisse sans bagues encastrables Ø35 mm L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

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GUARD | composants

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	

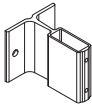
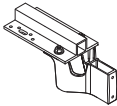
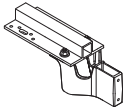
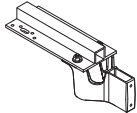
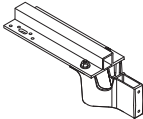
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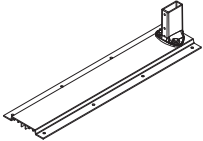
GUARD | composants

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

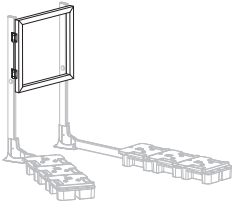
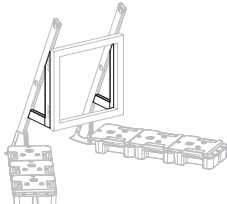
GROUPE	CODE	description	pcs.	
BASES POUR FIXATION SUR TÔLE BAC ACIER	RBGBASE250PA	plaque pour fixation sur tôle bac acier pas 250 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE333PA	plaque pour fixation sur tôle bac acier pas 333 mm, GUARD parallèle aux nervures (sans vis)	1	
	RBGBASE250PE	plaque 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	
	RBGSCR4816	vis autoforeuses 4,8 x 16 mm INOX	25	
VIS DE FIXATION	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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GUARD | composants

CODES ET DIMENSIONS

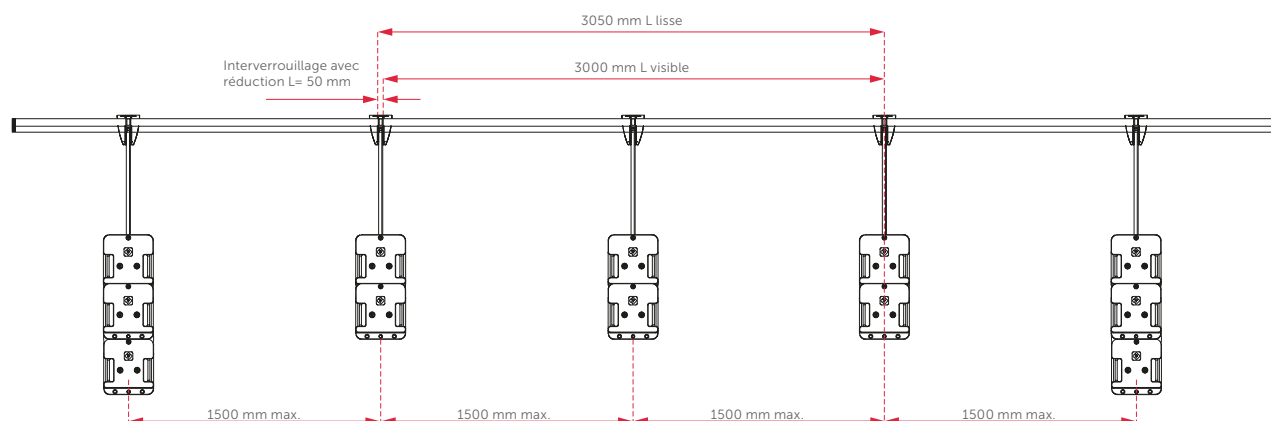
GROUPE	CODE	description	pcs.	
KIT PORTAILS DE SÉCURITÉ	RBGGATE600	porte de sécurité 500 mm de hauteur avec charnières montées L = 600 mm	1	
	RBGGATE1100	porte de sécurité 500 mm de hauteur avec charnières largeur L = 1100 mm	1	
	RBGGATEWISUP NEW	support pour portillon montant incliné	1	
MANUELS	RBGUARDHMAN	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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SYSTÈME DU GARDE-CORPS AUTOPORTANT GUARD (EN 14122-3)

MONTAGE DU GARDE-CORPS EN LIGNE DROITE



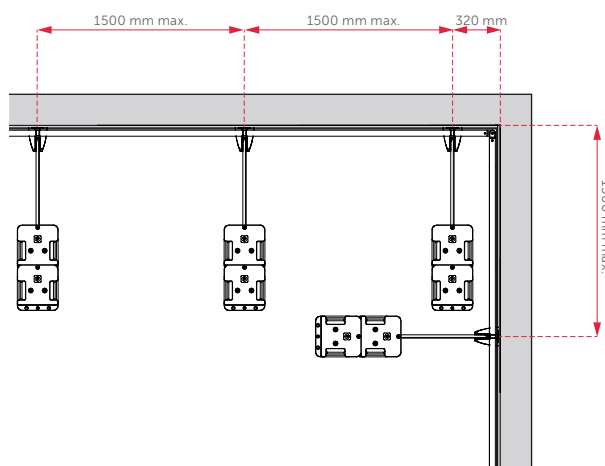
NTC 2018 :

L'entraxe max pour le NTC 2018 est 750 mm et 3 ballasts doivent être placés pour le support

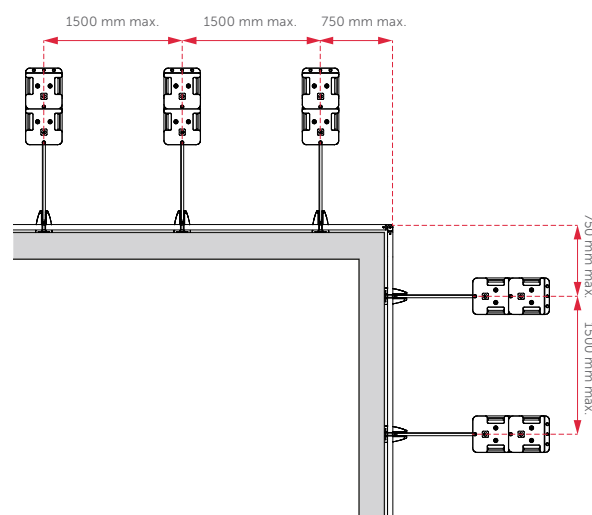
EN 13374+A1 :2018:

L'entraxe max selon la EN 13374 est de 2500 mm

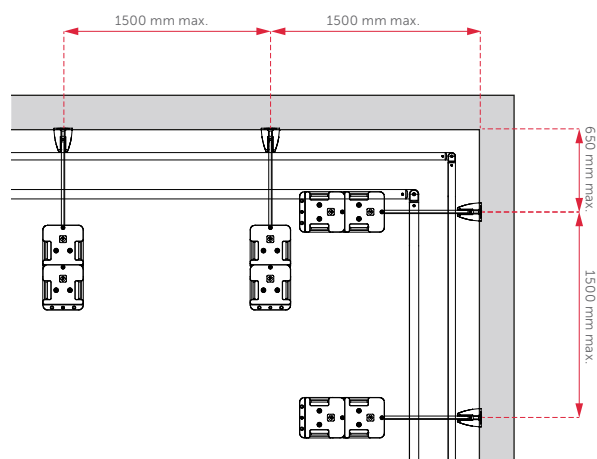
MONTAGE AUTOPORTANT DROIT - ANGLE EXTERNE



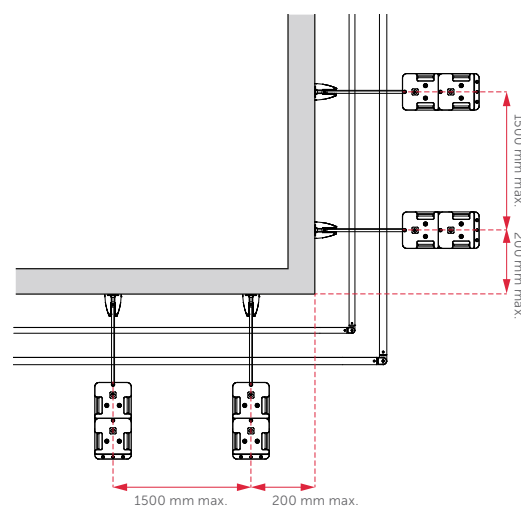
MONTAGE AUTOPORTANT DROIT - ANGLE INTERNE



MONTAGE AUTOPORTANT INCLINÉ - ANGLE EXTERNE



MONTAGE AUTOPORTANT INCLINÉ - ANGLE INTERNE

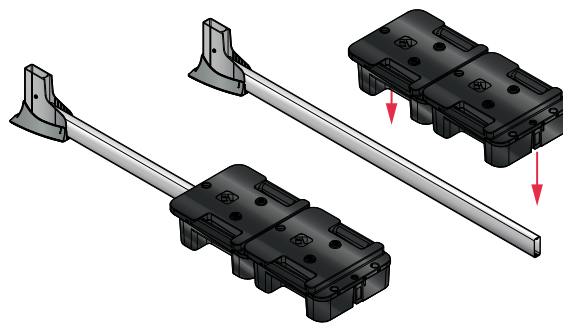
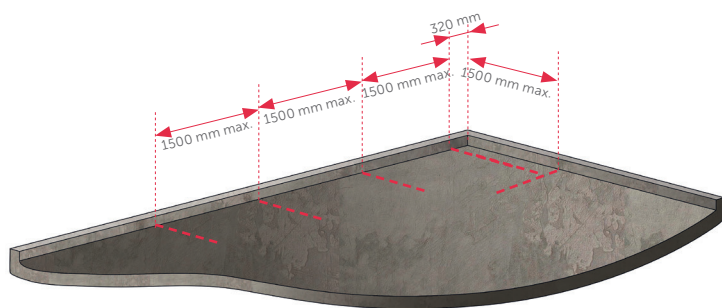


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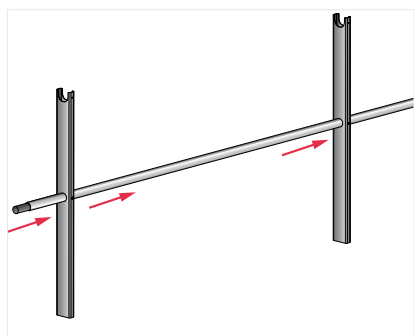
INSTALLATION

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.

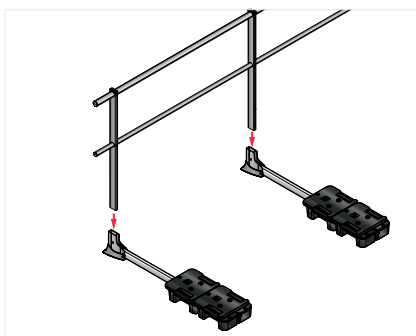


1 - Tracer un point de repère tous les 1500 mm au maximum et enlever les graviers si nécessaire afin de positionner le garde-corps.

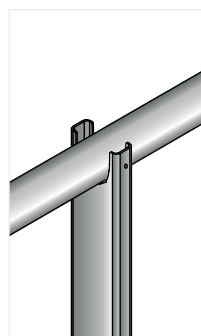
2 - Positionner et régler les contre-poids sur le pied d'appui afin qu'il ne dépasse pas le contre-poids.



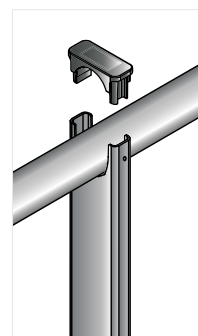
3 - Insérer une sous-lisse dans 2 montants.



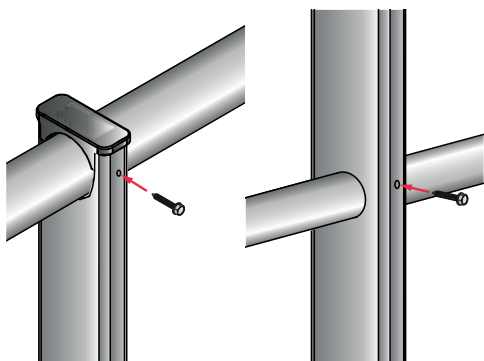
4 - Insérer l'ensemble sous-lisse + montants dans les bases.



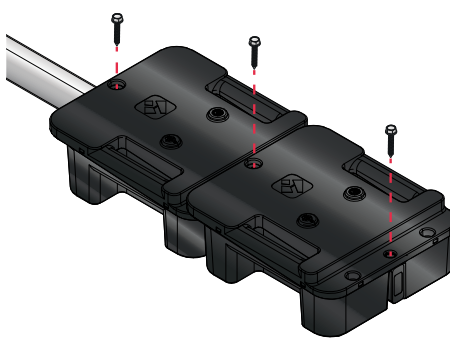
5 - Positionner la lisse sur les montants



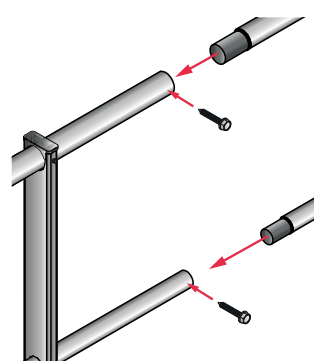
6 - Fixer la partie supérieure du montant.



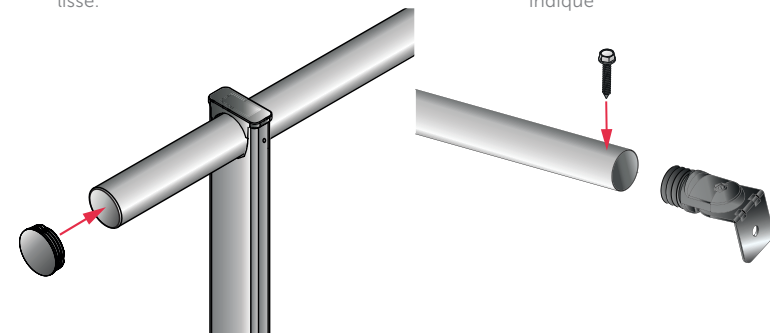
7 - Visser les vis autoforeuses 4,8 x 25 mm sur le montant au niveau de la lisse et de la sous-lisse.



8 - Après avoir monté l'ensemble du garde-corps, serrer les vis autoforeuses 4,8 x 50 mm comme indiqué



9 - Assembler les lisses et les sous-lisses en les fixant avec des vis 4,8 x 16 mm



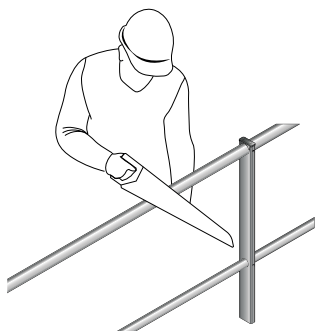
10 - Insérer les bouchons ou les éléments terminaux muraux sur les lisses ou les sous-lisses.



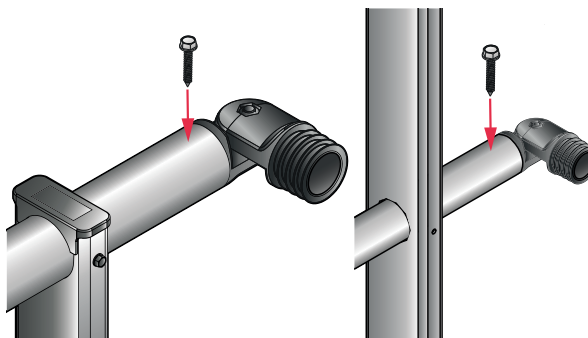
11 - Insérer les angles des lisses et des sous-lisses.

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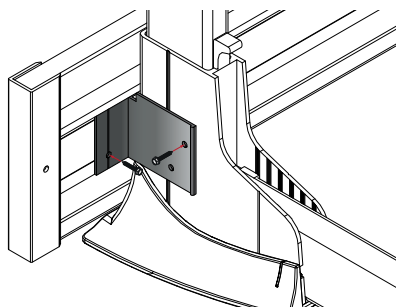


12 - Adapter la dernière section en coupant la partie excédante.

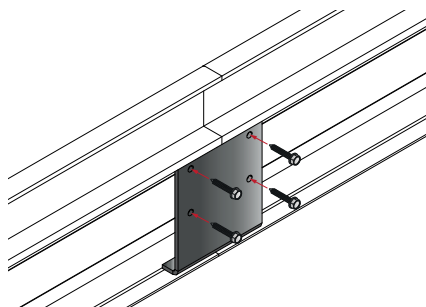


13 - Fixer les angles avec des vis autoforeuses 4,8 x 25 mm

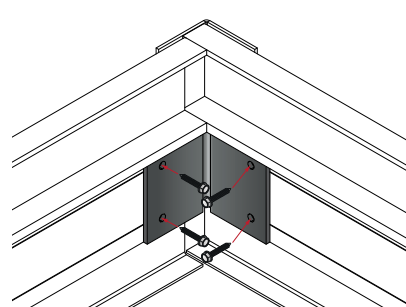
■ FIXATION DE L'AXE DE LA PLINTHE



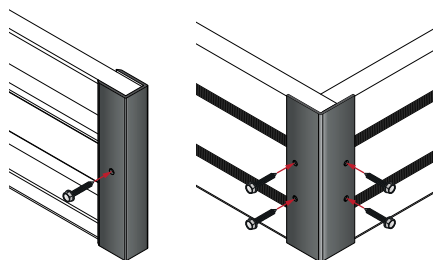
1 - Positionner le support de la plinthe sur la base et la fixer avec 4 vis autoforeuses 4,8 x 16 mm (2 vis de chaque côté).



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

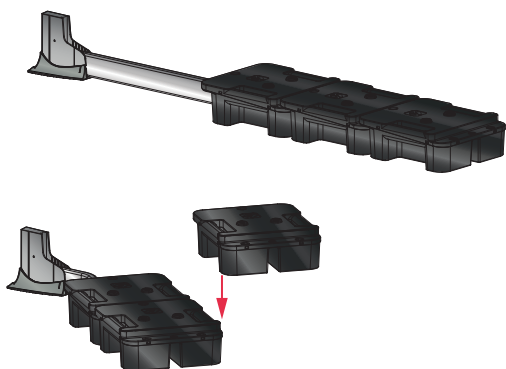


3 - Pour les angles, fixer les connecteurs internes et externes avec 8 vis autoforeuses 4,8 x 16 mm.

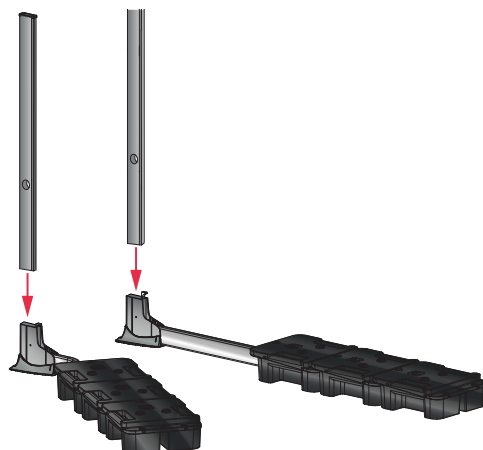


4 - Enfin, fixer les bouchons de la plinthe avec 1 vis autoforeuse 4,8 x 16 mm.

MONTAGE DU PORTAIL DE SÉCURITÉ H 580 MM POUR LE GARDE-CORPS AUTOPORTANT DROIT



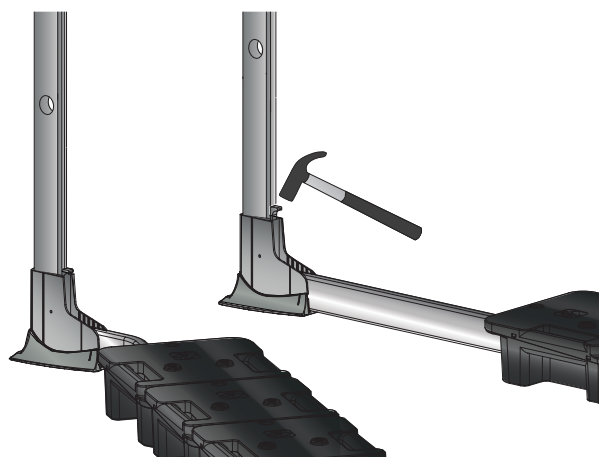
- 1 - Enfiler les contre-poids dans le pied d'appui courbé. Le tube du pied doit atteindre le niveau du deuxième contre-poids en plastique. Le troisième contre-poids est installé à l'extérieur du pied.



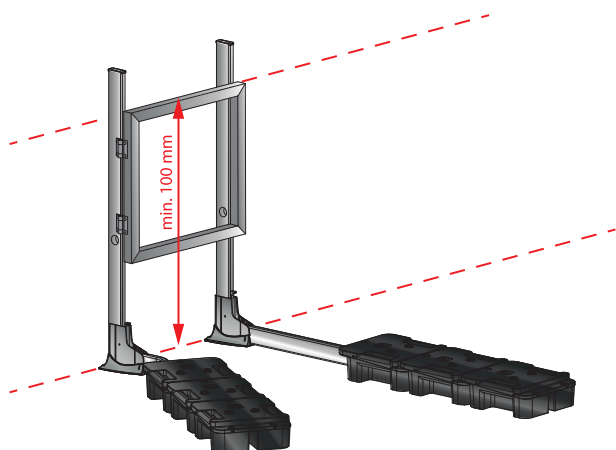
- 2 - Insérer les montants dans les bases.



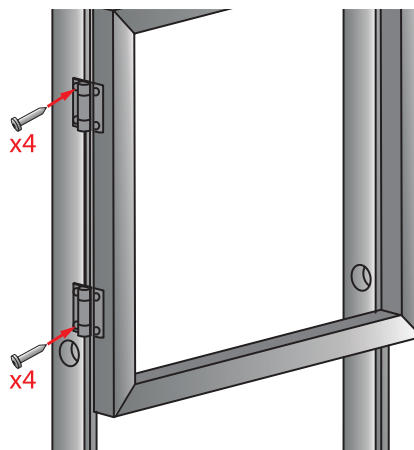
- 3 - Positionner les montants et les pieds d'appui avec un entraxe de 568 mm.



- 4 - À l'aide d'un marteau, insérer la cale de blocage entre le montant et la base.



- 5 - Positionner le portail de sécurité à une hauteur minimum de 1000 mm du sol.



- 6 - Fixer les charnières du portail de sécurité au moyen des vis DRILL-NOX DBS2 6x25 mm fournies dans le kit.

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Rotho Blaas Srl

12-23

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