

**FALLPROTEC**

Height Safety Products

# EDGESAFE TECHNICAL GUARDRAIL



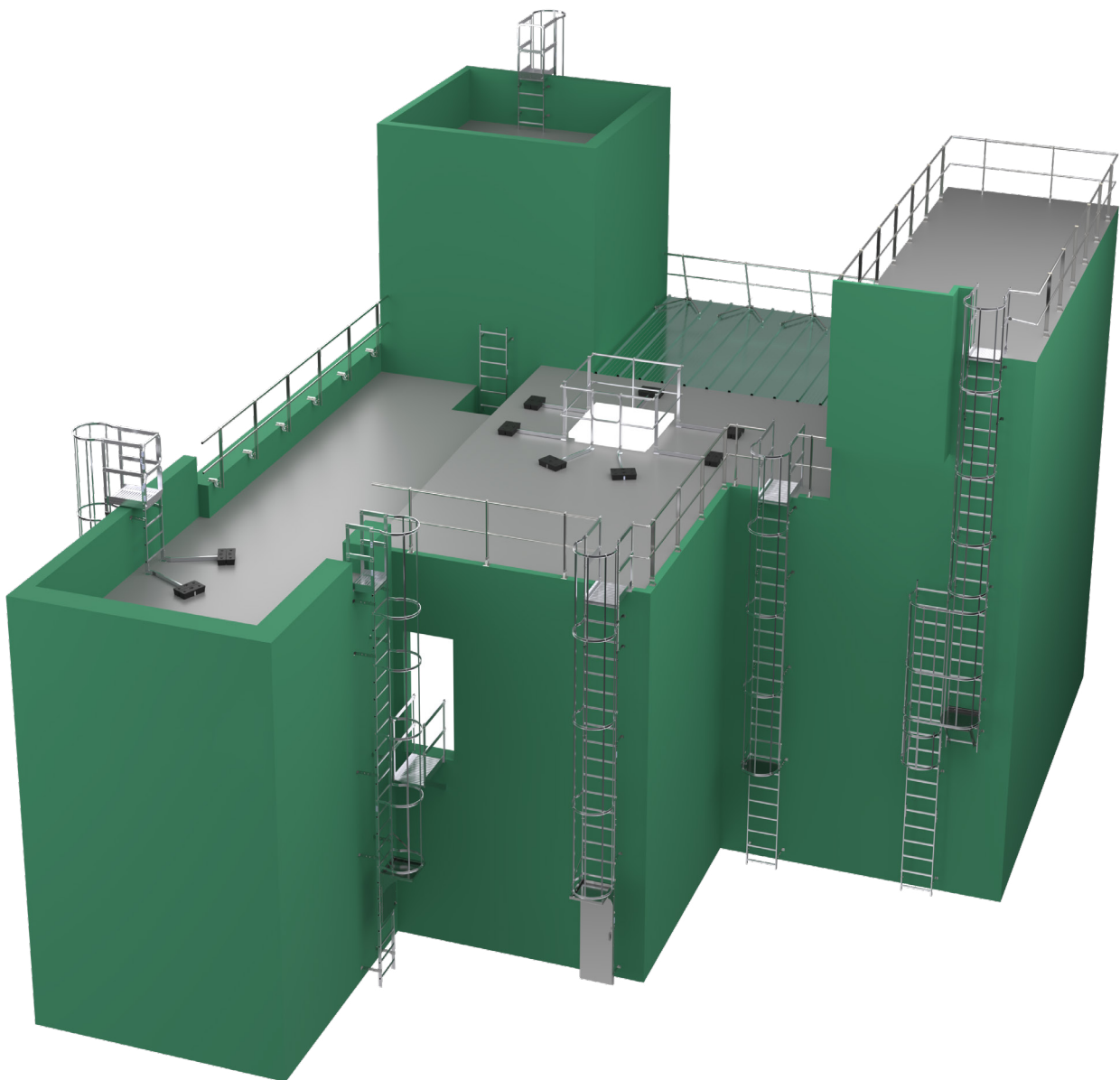
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### TECHNICAL AND ASSEMBLY MANUAL

STANDARD ISO 141223: 2016



## INTRODUCTION

### EDGESAFE TECHNICAL GUARDRAIL

The **EdgeSafe** guardrail has successfully passed the static and dynamic tests and trials according to the **NF E85-015:2019**, **EN 14122-3:2016**, **EN13374+A1:2018**, **BS 13700:2021** and **NTC2018 standards**.

The **EdgeSafe** aluminium guardrail is a collective protection device intended to protect against the risks of falling from a height. Its design allows for quick and easy installation thanks to its connection system with the ends of the handrails and knee rails.

There are different solutions for fixing our aluminium guardrails:

**Freestanding system:** system using counterweights, offering a solution to secure terraces when fixing on the wall/slab is impossible, avoiding leaks in the perforation of the roof. In this system, the elastomer footings under the concrete blocks and recycled plastic coated with a polypropylene structure and treated with anti-UV, ensure total protection of the watertightness. They are directly supported on the roof.

**Z-shaped base under covering fixture:** Fixing system under covering fixture with or without insulation of thickness from 0 to 414 mm. It is fixed on the upper part of the wall and thus preserves the watertightness of the installation.

**Offset wall-mounted fixing:** Fixing system to the side of the parapet from the inside or the outside.

**Top-fix fixing:** Fixing system on metal structures, parapets or slabs without the need for waterproofing.

**Wall-mounted with offset fixing:** Fixing system to the side of the parapet from the inside or the outside

**Metal deck fixing:** Fixing system to metal deck or sandwich panel with special support legs, using DBS screws to the metal deck, which guarantees the watertightness of the installation.

**External wall-mounted fixing:** Wall fixing system from the outside when fixing from the inside is not possible.

**Exterior metal deck facade fixing:** Fixing system to exterior metal deck facade when fixing on the interior side is impossible.

**D-Post fixing:** Fixing system for waterproofed slab that is fixed on an insulated slab thanks to straight posts. Available in three standard heights (300, 400 and 500 mm), they comply with DTU 43.1, the French terrace waterproofing regulations.



## ADVANTAGES

### AESTHETICS AND DURABILITY

When viewed from the outside of the building, the guardrails are barely visible. The raw or powder-coated aluminium alloy (on request) guarantees an aesthetic system and excellent long-term corrosion resistance.

### SPECIAL REQUIREMENTS: A SOLUTION

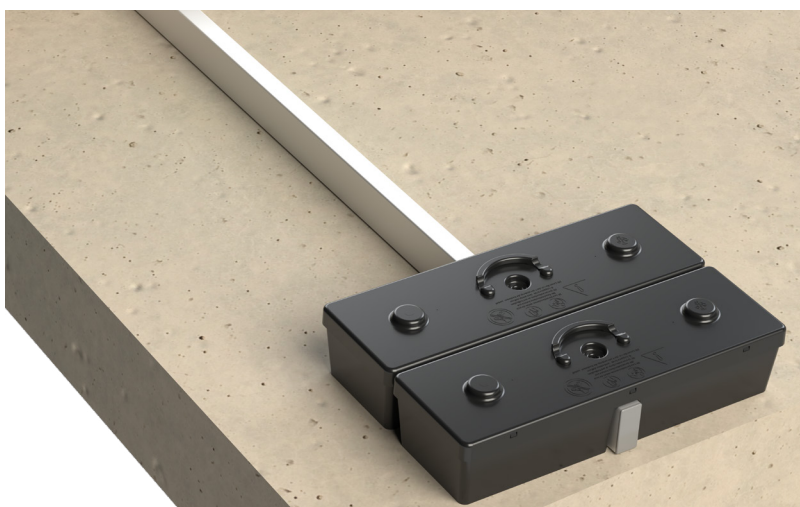
Special accessories (safety gates, security doors, wall fixing elements, corner angle elements, toe boards) allow to meet the specific needs of each client. Always complying with current and safety standards.

### EASY AND FAST INSTALLATION

The system only includes a small number of components. Due to, among other things, their minimal weight, the elements of the **EdgeSafe** product range are easy to assemble and disassemble, making them easy to transport. With the right skills, installation takes little time.

### SUPPORT SURFACE INDEPENDENT OF THE SUPPORT

The **EdgeSafe** freestanding guardrail can be installed on supports such as waterproofing, drainage slabs, gravel, vegetation substrate, etc. Prerequisites are compliance with the minimum height of the guardrail (1100 mm), the maximum spacing between the uprights (1500 mm) and the spaces defined in the standards and the support surface must be permanently stable to allow the stability of the guardrail.



## STANDARD REMINDER

### REGULATIONS

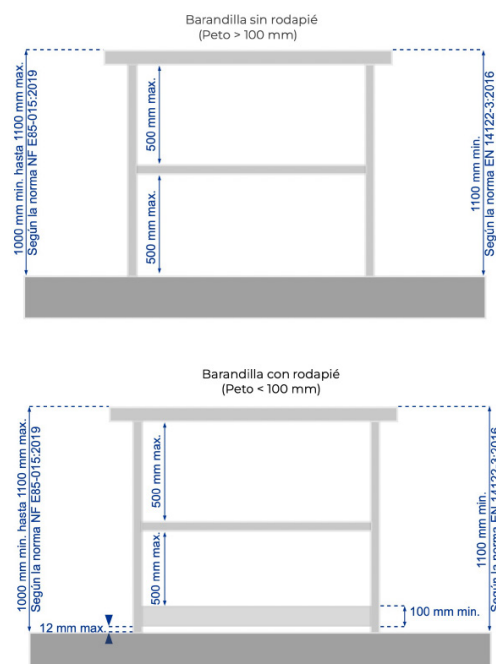
The installation of collective protection equipment must be prioritised over the installation of personal protection equipment (PPE) in order to fully ensure the safety of workers at height. They must benefit from a safe working environment, including fall protection. This protection during work must be provided by the employer and/or the owner, responsible for operating the building. The architect must also take this requirement into account when designing the building. All EdgeSafe guardrail systems comply with the latest national and European regulations, with the systems having been successfully subjected to the most rigorous tests with independent certified bodies at national and international level.

### STANDARD REMINDER


- A guardrail must be installed if the potential fall is greater than 500 mm high
- The height of the guardrail must be 1100 mm above the walking surface
- The clearance between the handrail and the knee rail, as well as between the knee rail and the toe board must be less than or equal to 500 mm.
- A toe board with a minimum height of 100 mm must be installed at a maximum distance of 10 mm from the step level and the edge of the platform/deck.
- The ballast must be 37.5 kg (i.e. 3 counterweights) on the reinforcement legs located at the end, for any section that ends in a plug and/or angle. This will be 25 kg (i.e. 2 counterweights) on the intermediate reinforcement legs (EN 14122-3:2016).

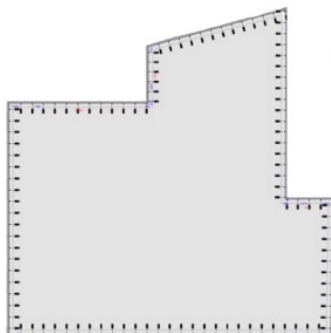
**ATTENTION:** The installation of the EdgeSafe freestanding guardrail necessarily implies the existence of a stop at the edge of the deck. Otherwise, please contact our design office.

- If the handrail is interrupted, the free space between two handrail segments must be between 75 mm and 120 mm. If there is a larger opening, a safety gate must be installed to ensure the continuity of the fall protection.



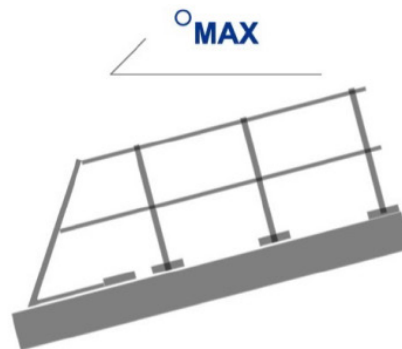
## STANDARD REMINDER

Technical data according to European and French standards				
	Straight EdgeSafe guardrail			
	Inclined EdgeSafe guardrail			
	<b>MF-S</b> NF E85-015:2019	<b>MF-I</b> NF E85-015:2019	<b>MF-S</b> EN ISO 14122-3:2016	<b>MF-I</b> EN ISO 14122-3:2016
<b>Minimum height of the system</b>	1000- 1100 mm	1000- 1100 mm	1100 mm	1100 mm
<b>Use of toe board</b>	<b>Mandatory if parapet &lt;100 mm</b> <i>(if there is no parapet, contact Fallprotec)</i>			
<b>Maximum roof slope</b>	10° o 17% (NF E85-015:2019) 15° o 27% (EN 14122-3:2016)			



### DESIGN PRINCIPLES AND TECHNICAL LAYOUTS

The necessary equipment and layout plans to create the **EdgeSafe** technical safety guardrail are provided by the design office. The technical layout will take into account the specificities and characteristics of the building and its location. Any deviation by the installer from the layout plan during execution must be consulted.



### MAXIMUM ELIGIBLE INCLINATION

The **EdgeSafe** guardrail system can be installed on roofs with a maximum slope of 10° or 17% (NF E85-015:2019) or 15° or 27% (EN 14122-3:2016) parallel to the longitudinal axis of the guardrail. If the slope is greater, please contact us to define other possible solutions.



## STANDARD REMINDER

### USE AND MAINTENANCE

- The person assembling the **EdgeSafe** guardrail must be qualified and must comply with the rules of use relating to work at height. He must therefore ensure its safety (use of a temporary lifeline, PPE, basket, etc.)
- Before any use, the user must ensure by visual inspection that the **EdgeSafe** guardrail is free of any anomalies (impact, deformation, etc.)
- The **EdgeSafe** guardrail does not require any special maintenance, however, a visual inspection must be carried out at least once a year by an authorised person.
- If the **EdgeSafe** guardrail is incorrectly installed, damaged or has prevented a fall, its use must be discontinued immediately. An authorised person must then check it and validate its use in writing.
- If the product is resold outside the first country of destination, it is essential for the safety of the user that the reseller provides the technical instructions in the language of the country of use of the product. These documents can be provided upon request by contacting the manufacturer.
- The **EdgeSafe** guardrail is a permanent collective protection to be used by professionals on terrace roofs not accessible to the public.
- The use of **EdgeSafe** toe board is mandatory if the roof does not have a parapet or if the parapet is less than 100mm.
- In cases where the **EdgeSafe** guardrail is installed in an industrial, petrochemical, marine or contaminated coastal environment, it must be subjected to an appropriate surface treatment such as powder coating."

### STORAGE

Raw aluminium components are packaged in contact with each other. The action of rain on unopened packages will cause oxidation of these components, so stains may appear on the surface. These do not call into question the quality of the aluminium but may degrade the aesthetic appearance of the railing. We recommend that you unpack the packages and store the components separately from each other (without contact with each other), or store the packages still wrapped, away from moisture.



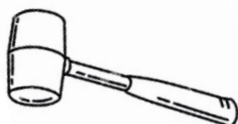
### TOOLS REQUIRED



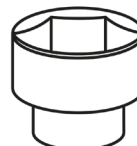
**Screwdriver**



**6 mm allen key**



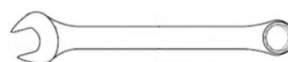
**Rubber mallet**



**8 mm socket**



**4 mm allen key**



**13 mm and 17 mm wrench**

### WRENCH SIZE CHART

Size	Standard DIN
<b>M6</b>	10 mm
<b>M8</b>	13mm
<b>M10</b>	<b>17mm*</b>
<b>M12</b>	19 mm

### TIGHTENING TORQUE CHART

Size	Inox
<b>M6</b>	3 Nm
<b>M8</b>	6,1 Nm
<b>M10</b>	10 Nm
<b>M12</b>	25 Nm
<b>M14</b>	51 Nm

## GUIDE FOR CHOOSING UPRIGHTS

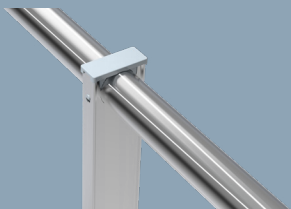
	Dimensions in mm											
TIPO	Fixing to floor (straight version)		Fixing to floor (inclined version)		Fixing to wall with offset <i>(exterior fixing)</i>		Fixing to wall with offset inclined <i>(Exterior fixing )</i>		Straight Z-shaped based		Inclined Z-shaped based	
	MT-S		MT- I		MWO-S		MWO-I		MZO-S MZ100-S MZ160-S		MZO-I MZ100-I MZ160-I	
STAN- DARD	85-015	14122-3	85-015	14122-3	85-015	14122-3	85-015	14122-3	85-015	14122-3	85-015	14122-3
H parapet	1010	1110	1010	1110	1010	1110	1010	1110	1010	1110	1010	1110
	H min		H min		H min		H min		H min		H min	
1205	-199	-99	-102	-2	Inc	Inc	Inc	194	Inc	Inc	Inc	141
1105	-99	1	-12	89	Inc	177	195	284	Inc	105	141	231
1005	1	101	79	179	177	277	274	374	105	205	221	321
900	106	206	173	273	282	382	368	468	210	310	315	415
800	206	306	263	363	382	482	458	558	310	410	405	505
700	306	406	353	453	482	582	548	648	410	510	495	595
600	406	506	443	543	582	682	638	738	510	610	585	685
500	506	606	533	633	682	782	728	828	610	710	675	775
400	606	706	623	723	782	882	818	918	710	810	765	865
300	706	806	713	813	882	982	908	1008	810	910	855	955
H parapet min for handrail only	463	563	482	582	475	575	612	712	435	535	529	629
	MONT	H	MONT	H	MONT	H	MONT	H	MONT	H	MONT	H
		4		27		127		168		100		115

### MINIMUM HEIGHT OVERHEAD

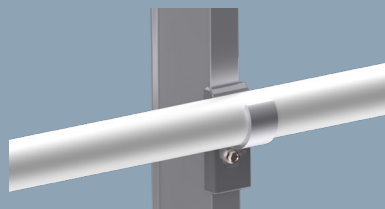
<b>MT-S</b>	-
<b>MT-I</b>	-
<b>MWO-S</b>	100 mm
<b>MWO-I</b>	138 mm
<b>MZ-S</b>	100 mm
<b>MZ-I</b>	138 mm

\*If necessary, the upright can be cut on site, and the height-adjustable fixing of the knee-rail can be used to ensure the distances required by the standard.

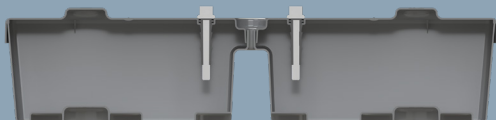




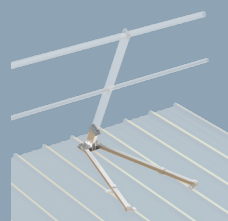
SCREWLESS FIXING TOP PLUG



HEIGHT-ADJUSTABLE FIXING  
BRACKETS FOR THE KNEE-RAIL



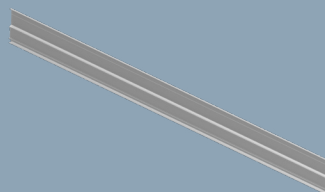
COUNTERWEIGHT AS MARKING  
PATH



METAL DECK FOR ALL FLUTES SPAN  
WIDTHS



I- SHAPED UPRIGHT



180 MM TOE BOARD

### GENERAL PRINCIPLES

#### UPPER CAP



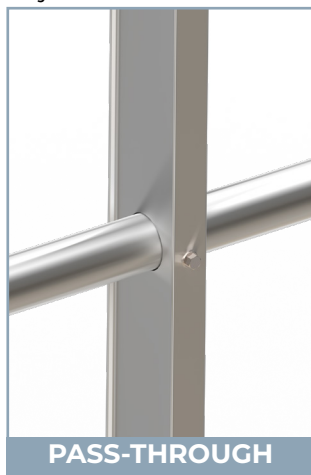
#### NEW

Thanks to our new clip-on upright cap, we eliminate the need for screws. The handrail is placed on the outside of the upright. Once the installation has been verified and adjusted, the cap is installed using a rubber mallet, verifying that the external tabs are fully seated. After installing the cap, any movement or rotation of the handrail is blocked.

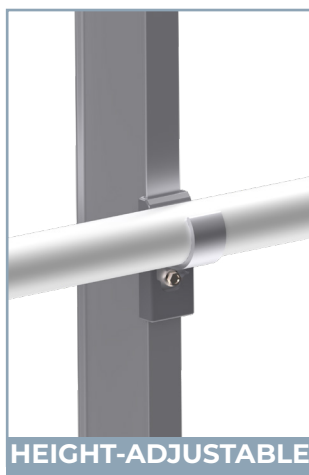
With this connection, the use of screws is not necessary.

#### KNEE-RAIL

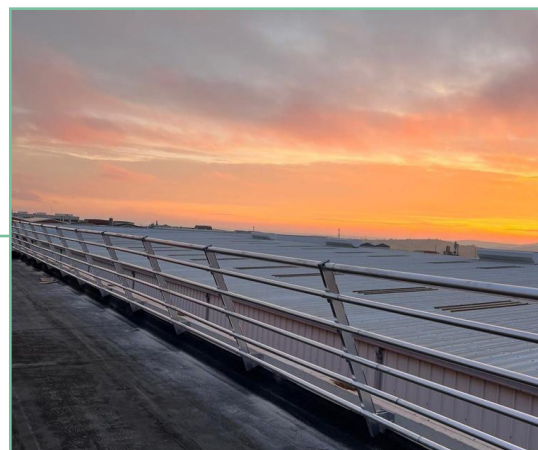
In our **EdgeSafe** guardrail systems, there are two options for the knee-rail: pass-through or height-adjustable.



PASS-THROUGH



HEIGHT-ADJUSTABLE



The difference we can find between both is:

- Height-adjustable: Knee-rail for uprights without a hole.
- Pass-through: Knee-rail for uprights with a hole.

The components we find are:



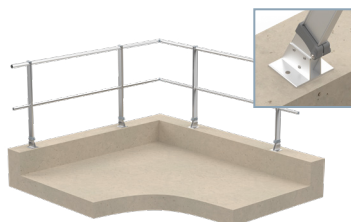
Round ALUMINIUM handrail  $\varnothing 47\text{mm}$   
Round ALUMINIUM knee-rail  $\varnothing 35\text{ mm}$



Upright 68 x 25 cm

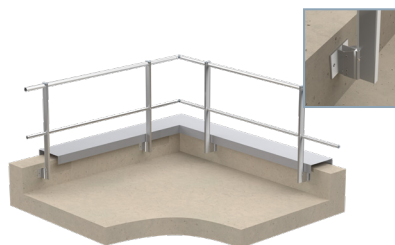
## GENERAL PRINCIPLES

# EdgeSafe TECHNICAL GUARDRAIL



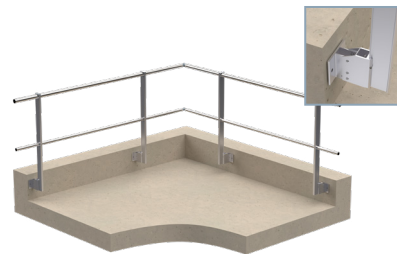
**EdgeSafe: MT & MTA**

Aluminium guardrail with top-fix fixing system



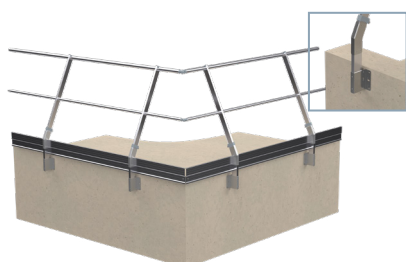
**EdgeSafe: MW - MWO**

Aluminium guardrail with wall-mounted fixing system



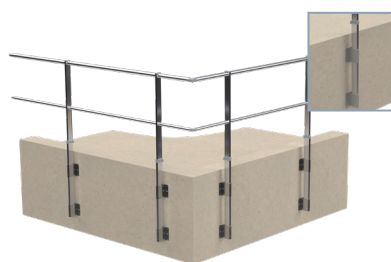
**EdgeSafe: MWOT**

Aluminium guardrail with temporary wall-mounted fixing system



**EdgeSafe: MWOE**

Aluminium guardrail with offset wall-mounted fixing system on concrete structure



**EdgeSafe: MWOEL**

Aluminium guardrail with offset wall-mounted fixing system on cellular concrete structure



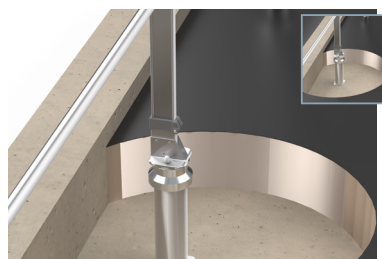
**EdgeSafe: MWOEM**

Aluminium guardrail with external wall-mounted system on concrete wall



**EdgeSafe: MM & MMA**

Aluminium guardrail for steel metal deck roof



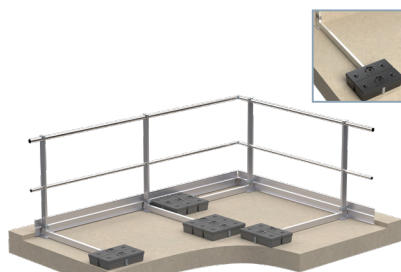
**EdgeSafe: MD & MDA**

Aluminium guardrail with fixing thanks to D-post system



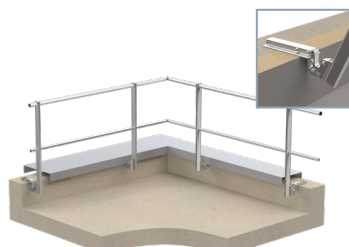
**EdgeSafe: MMW & MMWA**

Aluminium guardrail with fixing thanks to BE-post system



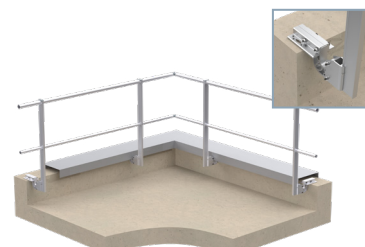
**EdgeSafe: MF & MFA**

Freestanding aluminium guardrail



**EdgeSafe: MZ & MZA**

Aluminium guardrail with fixing system thanks to Z-shaped bases under covering fixture



**EdgeSafe: MZT**

Aluminium guardrail with fixing system thanks to temporary Z-shaped bases under covering fixture



### GENERAL PRINCIPLES

#### TOE BOARD

In the case of a parapet with a height of less than 100 mm, we remind you that the installation of a toe board is mandatory. Our toe board system is 180 mm high. The profile is made of extruded aluminium, while the rest of the accessory parts are made of steel + anti-corrosion treatment, except for the aluminium toe board plug.

**FIXING TOE BOARD D-POST  
AND BE POST  
REF. 33011**



**STANDARD TOE BOARD  
FIXING  
REF. 33013**



**FIXING ON STEEL METL  
DECK  
REF. 33012**



**TOE BOARD PLUG  
REF. 35108**



**TOE BOARD BRACKET  
REF. 33007**








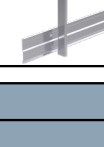




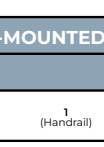
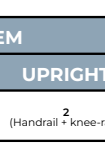
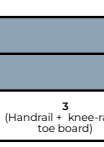







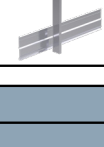















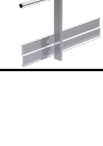


**TOE BOARD CONNECTOR  
REF. 33008**



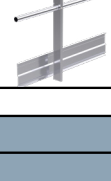
## TYPES OF CONFIGURATION








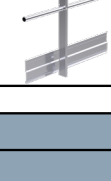
The configurations of the **EdgeSafe** technical guardrail are organized based on their uprights, when “S” is indicated (straight) it indicates that it is straight, when the indicator is an I (inclined), it indicates that it is inclined








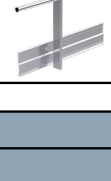
TOP-FIXING SYSTEM					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MT	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				
EXTERNAL WALL-MOUNTED SYSTEM ON CONCRETE WALL					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MW	<b>S</b> (Straight)				
	<b>I</b> (Inclined)	-			
OFFSET WALL-MOUNTED SYSTEM					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MWO	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				
WALL-MOUNTED EXTERNAL FIXING ON CONCRETE					
MODEL	INCLINATION		MONTANTE		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MWOE	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				
WALL-MOUNTED GUARDRAIL ON METAL DECL FAÇADE					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MWOEM	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				







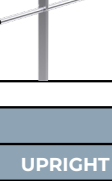
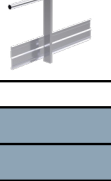
## TYPES OF CONFIGURATION

The configurations of the **EdgeSafe** technical guardrail are organized based on their uprights, when “S” is indicated (straight) it indicates that it is straight, when the indicator is an I (inclined), it indicates that it is inclined

FIXED UNDER COVERING FIXTURE WITH STANDARD Z-CHAPED BASE					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MZ	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				

METAL DECK ROOF					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MM	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				

FOR CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MD	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				

FIXED ON METAL DECK TO BE SEALED WITH BE-POST					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MMW	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				

FREESTANDING GUARDRAIL					
MODEL	INCLINATION		UPRIGHT		
			1 (Handrail)	2 (Handrail + knee-rail )	3 (Handrail + knee-rail + toe board)
MF	<b>S</b> (Straight)				
	<b>I</b> (Inclined)				



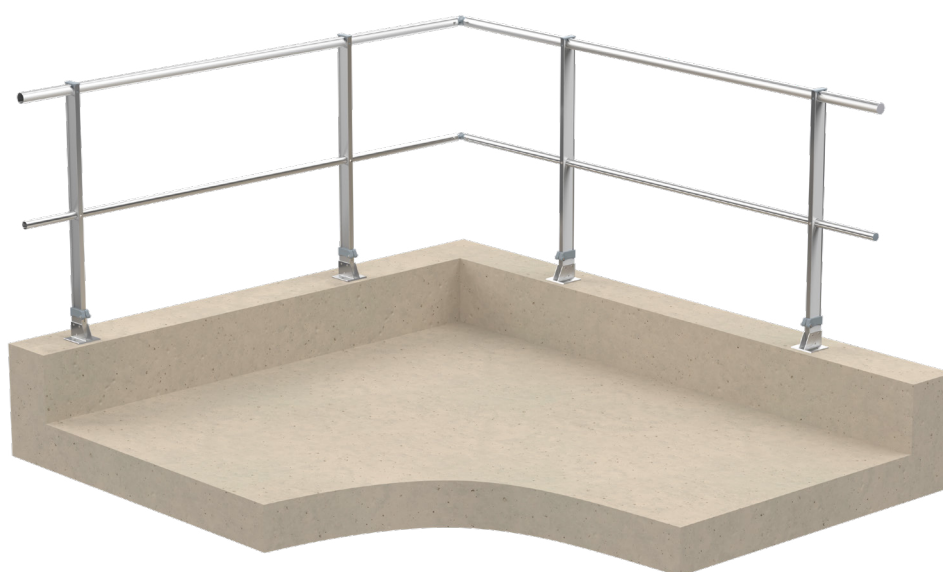
### EdgeSafe TOP-FIXED GUARDRAIL REF. MT

#### ISO 14122-3:2016 STANDARD

The **EdgeSafe** aluminium guardrail with wall fixing system is a simple and economical solution to comply with the regulations for terraces that are not accessible to the public.

It is fixed to the inside or outside of the wall.

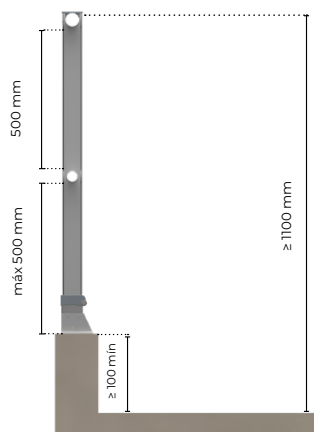
In the case of an offset due to the covering fixture on top of the parapet, we offer the wall-mounted base fixed to the wall with offset up to 80 mm.



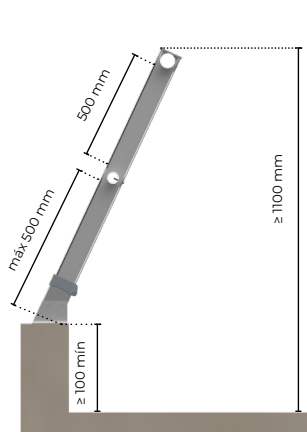
Ref.	Upright	Composition
MT-S1	STRAIGHT	Handrail
MT-S2		Handrail + knee-rail
MT-S3		Handrail + knee-rail + toe board
MT-I1	INCLINED	Handrail
MT-I2		Handrail + knee-rail
MT-I3		Handrail + knee-rail + toe board
MT-F1	FOLDABLE	Handrail
MT-F2		Handrail + knee-rail
MT-F3		Handrail + knee-rail + toe board

## EdgeSafe TOP-FIXED GUARDRAIL REF. MT

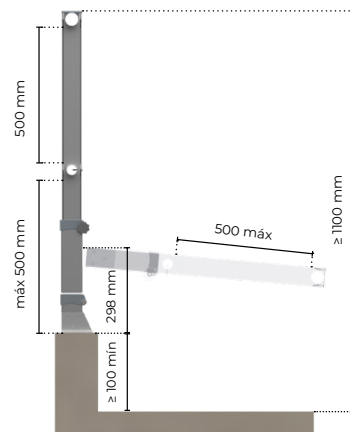
### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



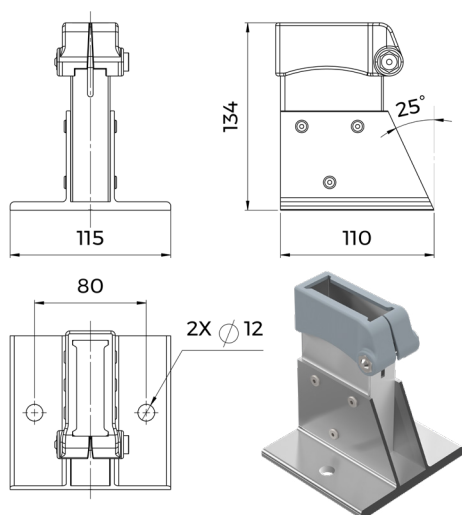
INCLINED UPRIGHT



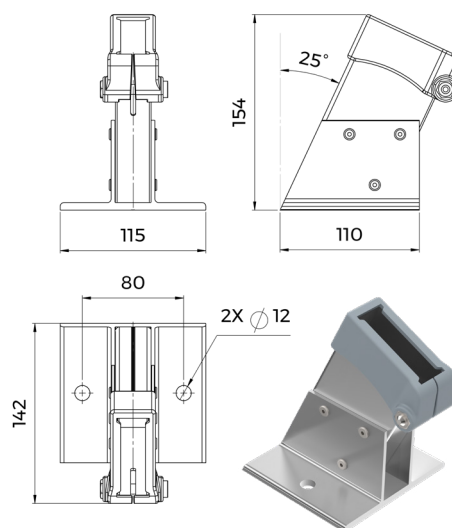
FOLDABLE UPRIGHT

### BASES

The inclination of the **EdgeSafe** guardrail (Ref. **MT**) is guaranteed by using the inclined base, with a possibility of inclination of 25°.



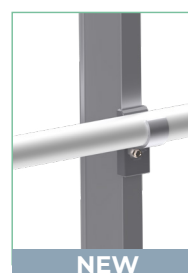
STRAIGHT BASE - REF. 32929



INCLINED BASE- REF. 32930

### EdgeSafe KNEE-RAIL

In the **EdgeSafe** technical guardrail (Ref. **MT**) we can use the knee-rail, either pass-through or height-adjustable versions. In addition, with the new upright cap, no screws are used.



NEW

## EdgeSafe TOP-FIXED GUARDRAIL

### REF. MT

#### ASSEMBLY PRINCIPLES

##### FIXING

- The maximum distance between uprights must be 1500 mm.
- The minimum width of the wall/parapet must be 125 mm.
- The minimum support is 60 mm from the edge of the wall.
- The fixing of the bases in unreinforced concrete C20/C25 is done using 2 x M10 plugs (optional, see loads according to instructions)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, plug, wall connector) to the handrails and the knee-rails.

##### TOE BOARD

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.

- Fixing of the toe board is held to the upright using a self-drilling screw Ø4.8 x 32 mm with a hexagonal head.
- Fixing of the toe board is held to the toe board profile using 2 M8 x 10 mm stud screws.



#### TECHNICAL SPECIFICATIONS

MT							
Estimated weight per ml and m2	Straight weight kg/ml				Inclined weight kg/ml		
	1,77 ml				1,82 ml		
Service load for the stud assembly	Upright height						
	1300	1100	1000	900	800	600	400
	1064 daN	900	818	736	655	491	327
Estimated assembly times	100/ m day (2 people)						
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)						
	Upright: M8 x 45 ALLEN screw						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						
	Toe board: Ø4.8 x 32 mm self-drilling screw						

## EdgeSafe GUARDRAIL WITH WALL-MOUNTING SYSTEM

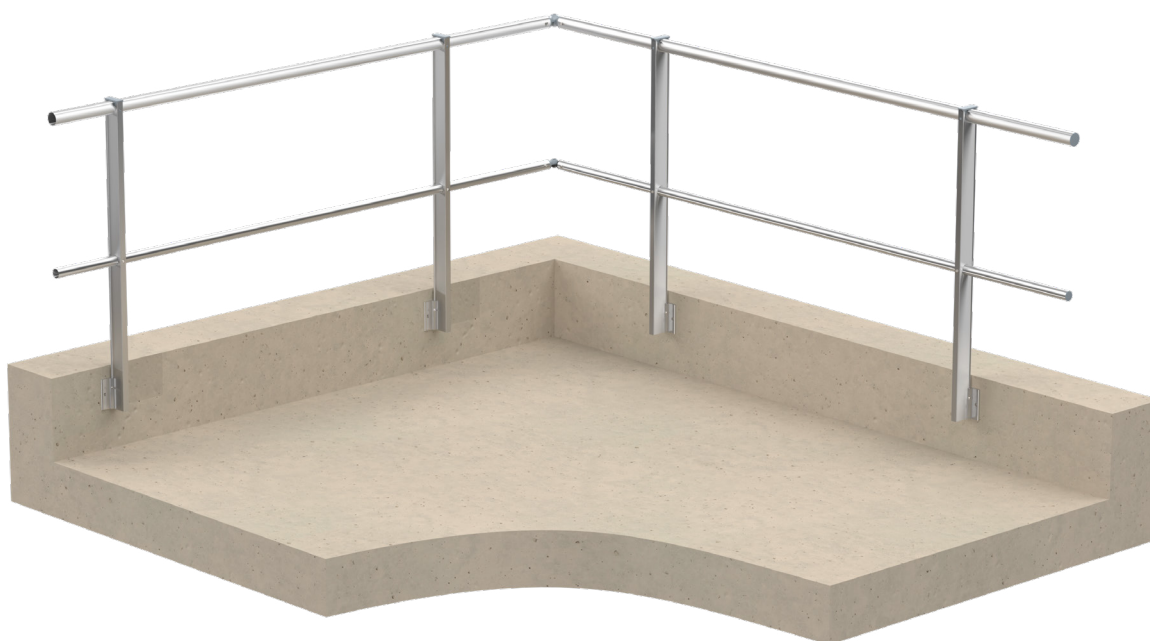
REF. MW

ISO 14122-3:2016 STANDARD

The EdgeSafe aluminium guardrail with wall fixing system is a simple and economical solution to comply with the regulations for terraces that are not accessible to the public.

It is fixed to the inside or outside of the wall.

In the case of an offset due to the covering fixture on top of the parapet, we offer the wall-mounted base fixed to the wall with offset up to 80 mm.

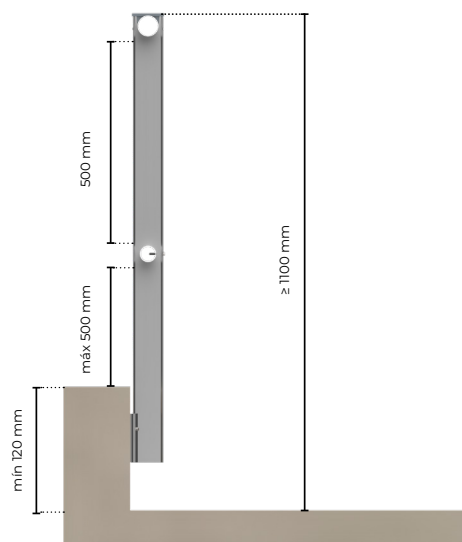


Ref.	Upright	Composition
MW-S1	STRAIGHT	Handrail
MW-S2		Handrail + knee-rail
MW-S3		Handrail + knee-rail + toe board
MW-I1	INCLINED	Handrail
MW-I2		Handrail + knee-rail
MW-I3		Handrail + knee-rail + toe board
MW-F1	FOLDABLE	Handrail
MW-F2		Handrail + knee-rail
MW-F3		Handrail + knee-rail + toe board

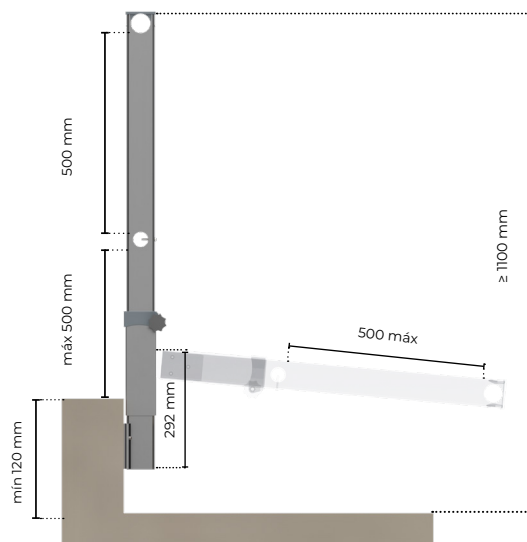


### EdgeSafe GUARDRAIL WITH WALL-MOUNTING SYSTEM REF. MW

#### UPRIGHT DIMENSIONS



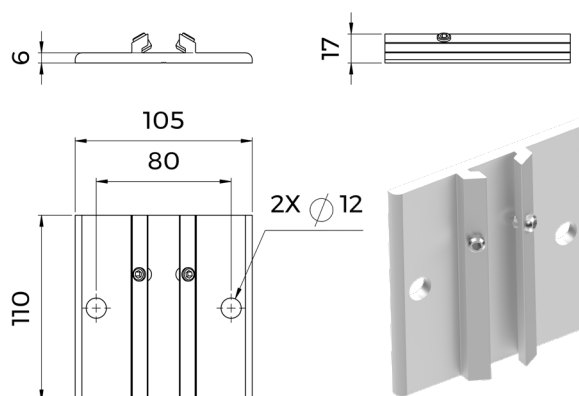
**STRAIGHT UPRIGHT**



**FOLDABLE UPRIGHT**

#### BASES

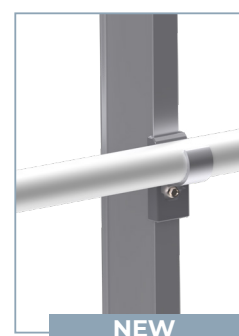
For the EdgeSafe wall-mounted base (Ref. MW) wall fixing without offset, only the straight model is available.



**BASE APLIQUE - REF 32912**

#### EdgeSafe KNEE-RAIL

For the EdgeSafe technical guardrail (Ref. MW) we can use the knee-rail, either pass-through or height-adjustable versions. In addition, with the new upright top cap, screws are not used.



## EdgeSafe GUARDRAIL WITH WALL-MOUNTING SYSTEM

### REF. MW

#### ASSEMBLY PRINCIPLES

##### FIXING

- The maximum distance between the uprights must be 1500 mm.
- The minimum height of the parapet without offset is 120 mm.
- The minimum height of the parapet with offset is 140 mm + 40 mm (covering overhang), i.e. 180 mm.
- The drilling must be at least 75 mm from the top of the parapet.
- The fixing of the bases in non-reinforced concrete C20/C25 is done using 2 x M10 plugs (optional, see loads according to instructions)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (corner angle, plug, wall connectors) to the handrails and the knee-rails."

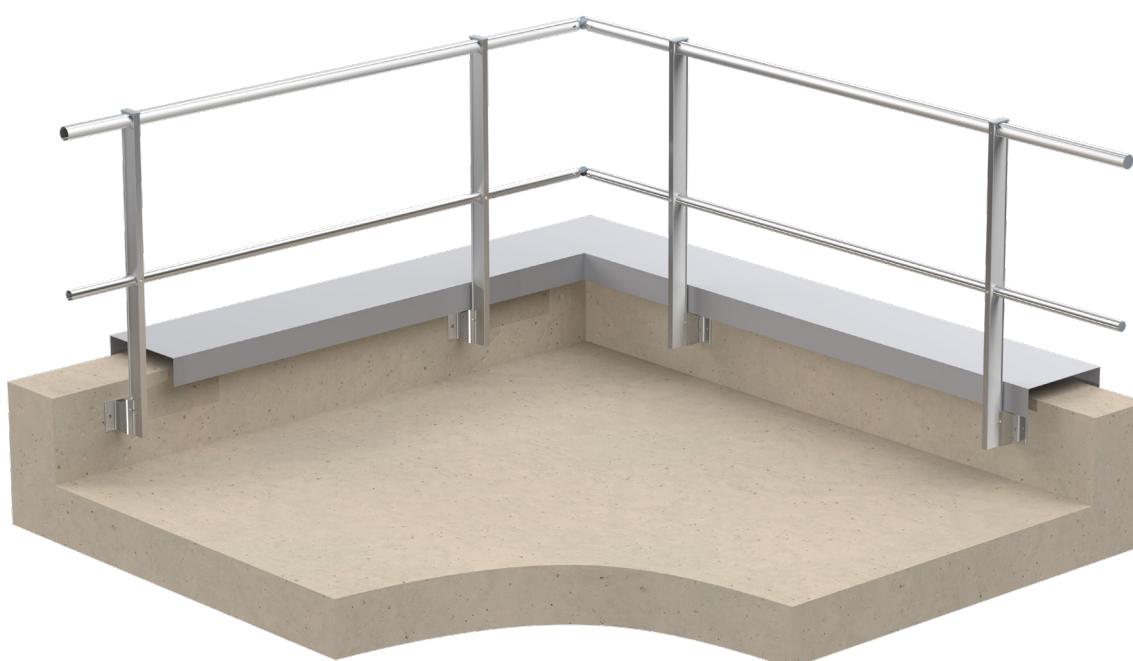
MW							
Peso estimado por ml y m²	Straight weight kg/ml				Abatible peso kg/ml		
	2,06 ml				2,11 ml		
Carga de servicio para el conjunto de tacos	Altura del montante						
	1300	1100	1000	900	800	600	400
	974	810	728	647	565	401	237
Tiempos de montaje estimados	100 m/día ( 2 personas)						
Tornillería necesaria	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						
	Upright: M8 x 45 ALLEN screw						

 Powder-coating option for aluminium parts available on request.

## EdgeSafe GUARDRAIL WALL-MOUNTING SYSTEM WITH OFFSET REF. MWO

**ISO 14122-3:2016 STANDARD**

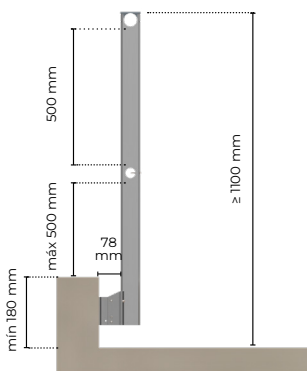
The **EdgeSafe** aluminium guardrail with offset wall-mounting system is a simple and economical solution to comply with regulations for terraces that are not accessible to the public. It is fixed to the inside or outside of the wall with an offset up to 80 mm.



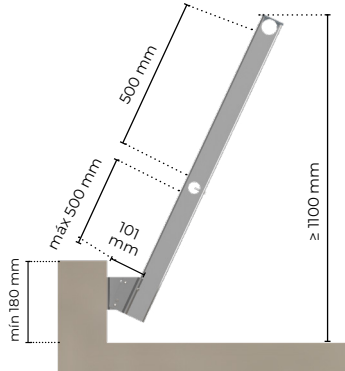
Ref.	Upright	Composition
MWO-S1	STRAIGHT	Handrail
MWO-S2		Handrail + knee-rail
MWO-S3		Handrail + knee-rail + toe board
MWO-I1	INCLINED	Handrail
MWO-I2		Handrail + knee-rail
MWO-I3		Handrail + knee-rail + toe board
MWO-F1	FOLDABLE	Handrail
MWO-F2		Handrail + knee-rail
MWO-F3		Handrail + knee-rail + toe board

## EdgeSafe GUARDRAIL WALL-MOUNTING SYSTEM WITH OFFSET REF. MWO

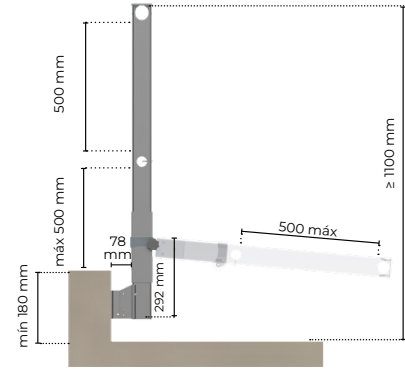
### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



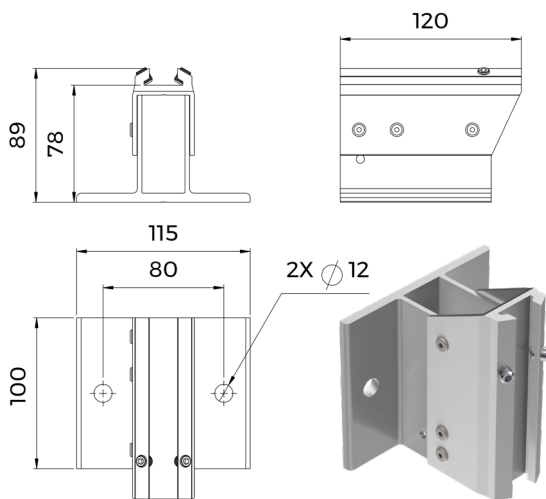
INCLINED UPRIGHT



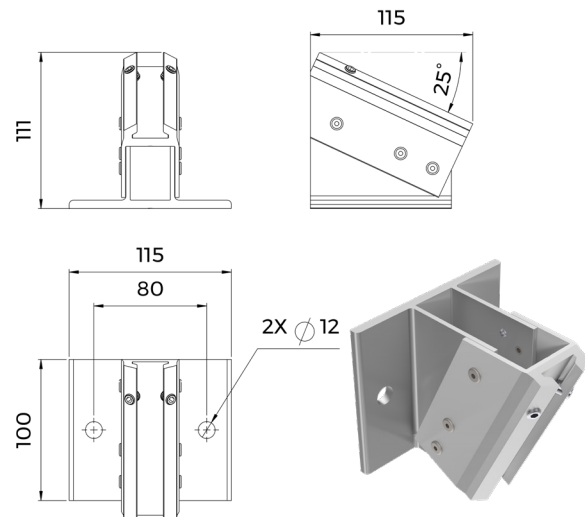
FOLDABLE UPRIGHT

### BASES

The inclination of the **EdgeSafe** guardrail (Ref. **MWO**) is ensured by the base with wall mounting, since it is delivered in a straight version or inclined at 25°. One base for two versions; the base with inclined wall mounting is used for the version with and without offset.



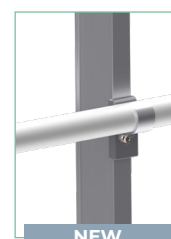
STRAIGHT BASE- REF. 32911



INCLINED BASE-REF. 32910

### EdgeSafe KNEE-RAIL

In the **EdgeSafe** technical guardrail (Ref. **MWO**) we can use the through or adjustable intermediate tube.




## EdgeSafe GUARDRAIL WALL-MOUNTING SYSTEM WITH OFFSET REF. MWO

### ASSEMBLY PRINCIPLES

#### FIXING

- The maximum distance between the uprights must be 1500 mm.
- The minimum height of the parapet without offset is 120 mm.
- The minimum height of the parapet with offset is 140 mm + 40 mm (covering overhang), i.e. 180 mm.
- The drilling must be at least 75 mm from the top of the parapet
- The fixing of the bases in non-reinforced concrete C20/C25 is done using 2 x M10 plugs (optional, see loads according to instructions)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (corner angle, plug, wall connectors) to the handrails and the knee-rails.

MWO							
Estimated weight per ml and m2	Straight weight kg/ml			Inclined weight kg/ml		Folding weight kg/ml	
	1,77 ml			1,82 ml			
Service load for the stud assembly	Upright weight						
	1300	1100	1000	900	800	600	400
	1080	900	810	720	630	450	270
Estimated assembly times	100 m/día ( 2 personas)						
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						
	Upright: M8 x 45 ALLEN screw						

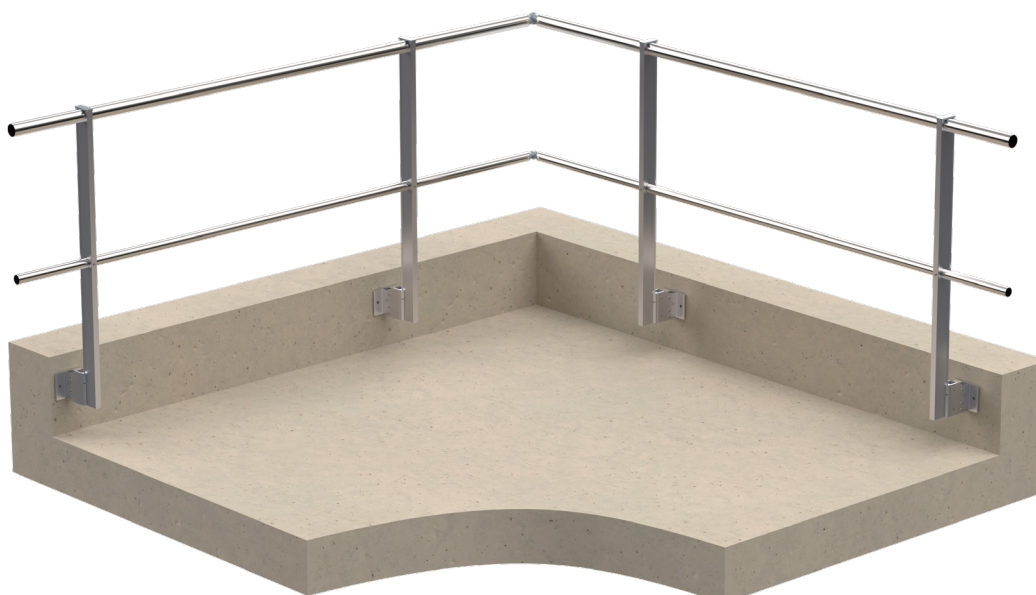
 Powder-coating option for aluminium parts available on request.



### EdgeSafe TEMPORARY GUARDRAIL WITH WALL-MOUNTING SYSTEM REF. MWOT

ISO 14122-3:2016 STANDARD

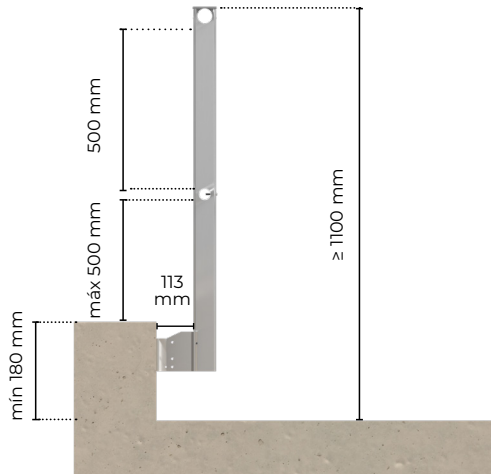
The **EdgeSafe** aluminium guardrail with offset wall-mounted fixing is a simple and economical solution to comply with the regulations for terraces that are not accessible to the public. It is fixed on the inside or outside of the wall with a metal covering offset up to 80 mm. The mounting system is easy and simple. The handrail does not need screws, it is fixed with a top plug, the handrails and knee-rails have a reduction at the ends for their in-line joining and the uprights are pre-drilled. (Other offset dimensions available on request)



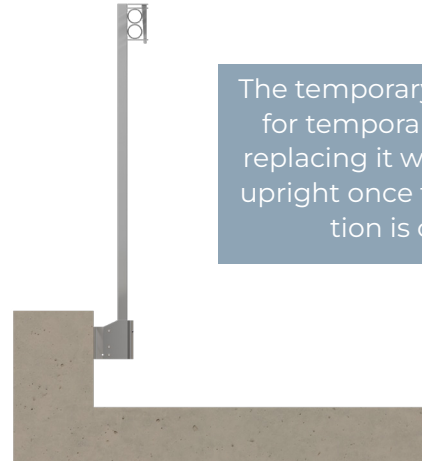
Ref.	Upright	Composition
MWO-S1	STRAIGHT	Handrail
MWO-S2		Handrail + knee-rail
MWO-S3		Handrail + knee-rail + toe board

### EdgeSafe TEMPORARY GUARDRAIL WITH WALL-MOUNTING SYSTEM REF. MWOT

#### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT

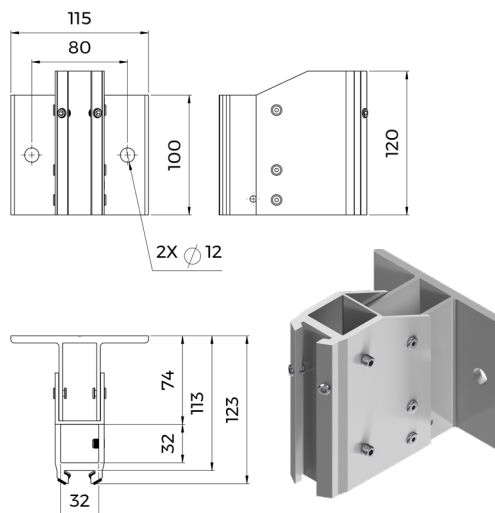


TEMPORARY UPRIGHT

The temporary upright is used for temporary installations, replacing it with the standard upright once the final installation is complete.

#### BASES

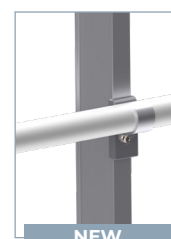
The base can be used as a temporary guardrail during the course of the work and once the work is completed, the temporary upright can be removed and the upright of the definitive technical guardrail can be inserted.



STRAIGHT BASE- REF. 32911

#### EdgeSafe KNEE-RAIL

For the EdgeSafe technical guardrail (Ref. MWOT) we can use the pass-through or the height-adjustable knee-rail.



## EdgeSafe TEMPORARY GUARDRAIL WITH WALL-MOUNTING SYSTEM REF. MWOT


### ASSEMBLY PRINCIPLES

#### FIXING

- The maximum distance between uprights must be 1,500 mm.
- The minimum height of the parapet with offset is 140 mm + 40 mm (metal covering overhang), i.e. 180 mm.
- The drilling must be at least 75 mm from the top of the parapet.
- The fixing of the bases in non-reinforced concrete C20/C25 is done using 2 x M10 wall plugs (see loads according to instructions)
- A self-drilling screw Ø4.8 x 32 mm with a hexagonal A2 stainless steel head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (corner angle, plug, wall connectors) to the handrails and knee-rails."

### TECHNICAL SPECIFICATIONS

MWOT							
Estimated weight per ml and m2	Straight weight kg/ml						
	1,77 ml						
Service load for the stud assembly	Upright weight						
	1300	1100	1000	900	800	600	400
	1080	900	810	720	630	450	270
Estimated assembly times	100 m/día ( 2 personas)						
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						
	Upright: M8 x 45 ALLEN screw						

 Powder-coating option for aluminium parts available on request.

### EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM - EXTERNAL FIXING ON CONCRETE

REF. **MWOE**

**ISO 14122-3:2016 STANDARD**

The **EdgeSafe** guardrail with wall-mounted external fixing system (Ref. **MWOE**) is a system for fixing to walls/parapets from the outside when fixing on the internal face is impossible. It is used for rehabilitation and conditioning of exteriors and is installed on brick, concrete, cement and metal beams.

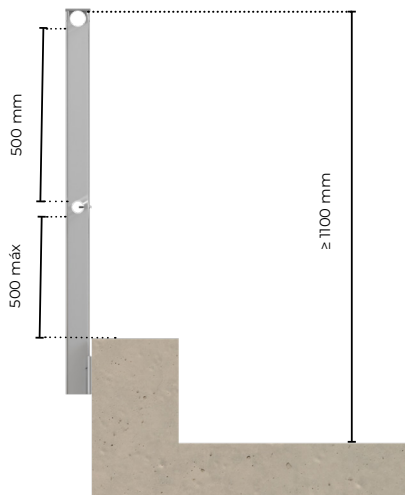


Ref.	Upright	Composition
MWOE-S1	STRAIGHT	Handrail
MWOE-S2		Handrail + knee-rail
MWOE-S3		Handrail + knee-rail + toe board
MWOE-I1	INCLINED	Handrail
MWOE-I2		Handrail + knee-rail
MWOE-I3		Handrail + knee-rail + toe board

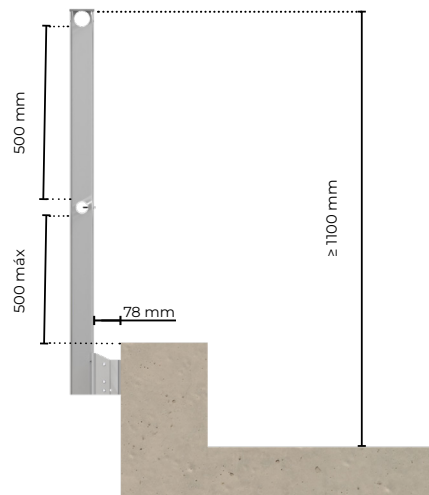
### EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM - EXTERNAL FIXING ON CONCRETE

REF. MWOE

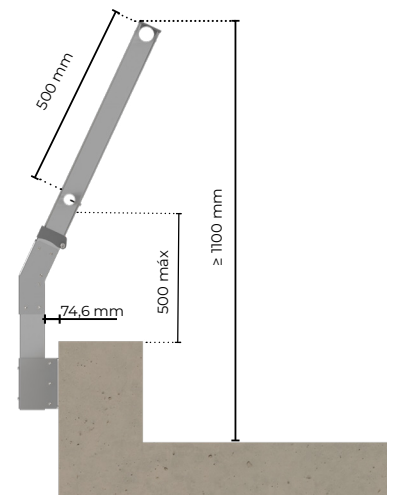
#### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



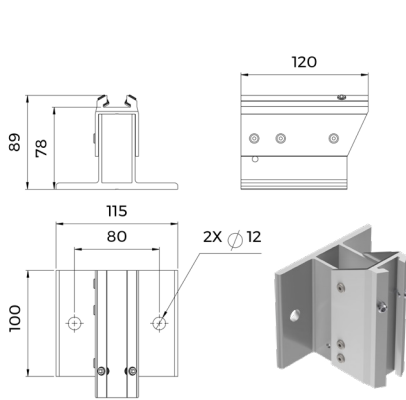
OFFSET UPRIGHT



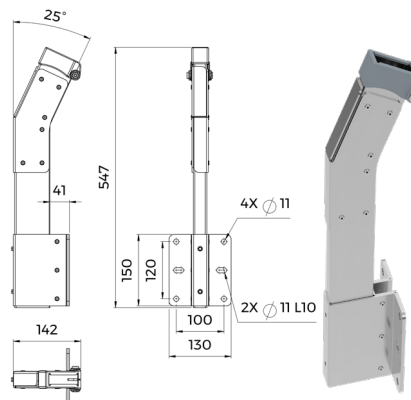
INCLINED UPRIGHT

#### BASES

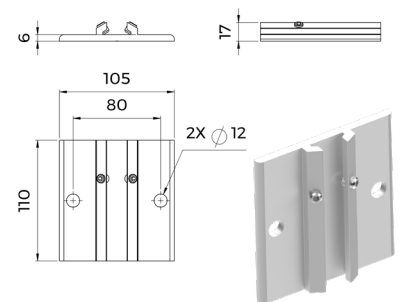
The inclination of the EdgeSafe guardrail (Ref. MWOE) is ensured by the base with wall mounting, since it is delivered in a straight version or inclined at 25°. One base for two versions; the base with inclined wall mounting is used for the version with and without offset.



STRAIGHT BASE- REF. 32911



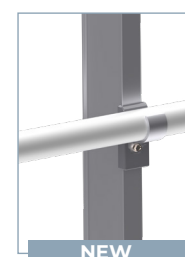
SIMPLE INCLINED BASE - REF. 36717



BASE APPLIQUE - REF 32912

#### EdgeSafe KNEE-RAIL

In the EdgeSafe technical guardrail (Ref. MWOE) we can use the through or adjustable intermediate tube.





## EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM - EXTERNAL FIXING ON CONCRETE

REF. **MWOE**

### ASSEMBLY PRINCIPLES

#### FIXING

- The maximum distance between the uprights must be 1500 mm.
- The drilling must be at least 75 mm from the top of the parapet.
- The fixing of the bases in non-reinforced concrete C20/C25 is done using 2 x M10 plugs (optional, see loads according to instructions)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
  - Fixing the knee-rail to the upright
  - Fixing the accessories (corner angle, plug, wall connectors) to the handrails and the knee-rails."

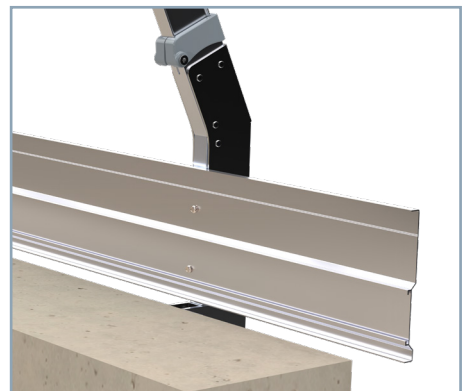
#### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.

- Fixing of the toe board is held to the upright using a self-drilling screw Ø4.8 x 32 mm with a hexagonal head.
- Fixing of the toe board is held to the toe board profile using 2 x M8 x 10 mm stud screws



### TECHNICAL SPECIFICATIONS

MWOE							
Estimated weight per ml and m2	Straight weight kg/ml		Offset weight kg/ml			Inclined weight kg/ml	
	1,77 ml					3,72 ml	
Service load for the stud assembly	Upright weight						
	1300	1100	1000	900	800	600	400
	1064	900	818	736	655	491	327
Estimated assembly times	100 m/days ( 2 persons)						
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)						
	Upright: M8 x 45 ALLEN screw						
	Toe board: Ø4.8 x 32 mm self-drilling screw						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						

### EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM -EXTERNAL FIXING ON CELLULAR CONCRETE

#### REF. MWOEL

#### ISO 14122-3:2016 STANDARD

The **EdgeSafe** guardrail with exterior wall fixing (Ref. **MWOEL**) is an exterior wall fixing system when it is impossible to fix it on the inside. It is used for rehabilitation and conditioning of exteriors and cellular concrete is installed. The assembly system is easy and simple. The handrail does not need screws, it is fixed with a plug, the handrails and intermediate elements have a reduction at the ends for their union in line and the uprights are pre-drilled.

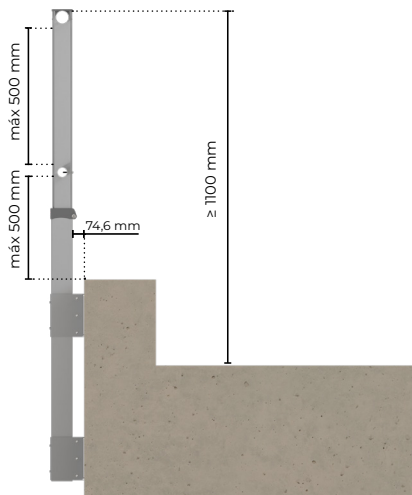


Ref.	Upright	Composition
MWOEL-S1	STRAIGHT	Handrail
MWOEL-S2		Handrail + knee-rail
MWOEL-S3		Handrail + knee-rail + toe board
MWOEL-I1	INCLINED	Handrail
MWOEL-I2		Handrail + knee-rail
MWOEL-I3		Handrail + knee-rail + toe board

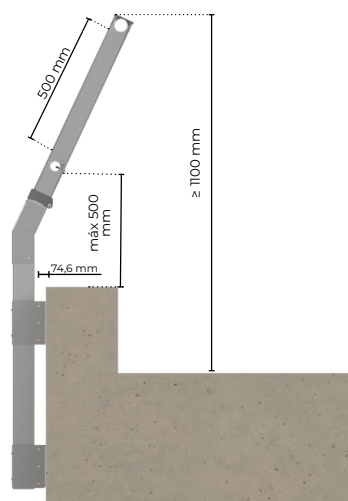
### EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM -EXTERNAL FIXING ON CELLULAR CONCRETE

REF. MWOEL

#### UPRIGHT DIMENSIONS



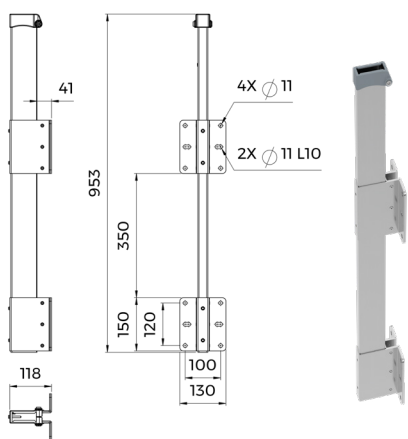
STRAIGHT UPRIGHT



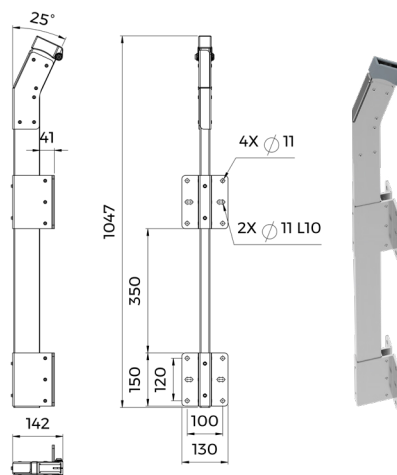
INCLINED UPRIGHT

#### BASES

The inclination of the **EdgeSafe** guardrail (Ref. **MWOEL**) is ensured by the wall-mounted base to the wall, since it is delivered in a straight version or inclined at 25°. One base for two versions; the inclined wall-mounted base is used for the version with and without offset.



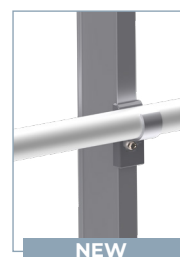
BASE RECTA- REF. 36715



BASE INCLINADA - REF. 36716

#### EdgeSafe KNEE-RAIL

With the **EdgeSafe** technical guardrail (Ref. **MWOEL**) we can use the knee-rail, either with the height-adjustable bracket or through the upright.



### EdgeSafe GUARDRAIL WITH WALL-MOUNTED SYSTEM -EXTERNAL FIXING ON CELLULAR CONCRETE

#### REF. MWOEL

#### ASSEMBLY PRINCIPLES

##### FIJACIÓN

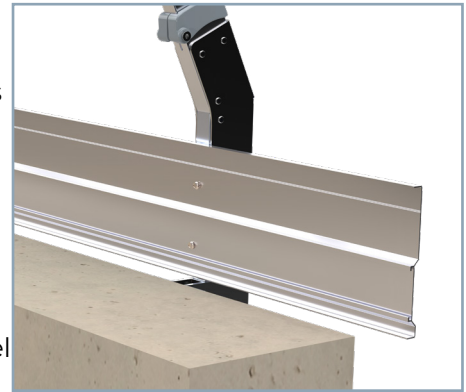
- The maximum distance between uprights must be 1,500 mm.
- The drilling must be at least 75 mm from the top of the parapet.
- The fixing of the bases in non-reinforced concrete C20/C25 is done using 2 x M10 A2 stainless steel wall plugs (see loads according to instructions)
- A Ø4.8 x 32 mm self-drilling screw with an A2 stainless steel hexagonal head is used
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, top plug, wall connector) to the handrails and the knee-rails."

##### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

- The toe board is made of aluminium H 180 mm.  
Fixing of the toe board is held to the upright using a self-drilling screw Ø4.8 x 32 with hexagonal head in stainless steel A2.
- Fixing of the toe board is held to the toe board profile using 2 x M8x10 stud screws in stainless steel A2.



#### TECHNICAL SPECIFICATIONS

MWOEL							
Estimated weight per ml and m2	Straight weight kg/ml			Inclined weight kg / ml			
	?			?			
Load for the wall plugs	Upright weight						
	1300	1100	1000	900	800	600	400
	1064	900	818	736	655	491	327
Estimated assembly times	100 m/día ( 2 personas)						
Necessary screws	Fixing to concrete parapet without C20/C25 cracks: 2 x M10 A2 stainless steel wall plugs per base (not included)						
	Knee-rail + accessories: self-drilling screw Ø4.8 x 32 mm A2 stainless steel						
	Upright: ALLEN screw M8 x 45 mm A2 stainless steel						
	Toe board: 1 x self-drilling screw Ø4.8 x 32 mm. A2 stainless steel						

### EdgeSafe WITH WALL - MOUNTED SYSTEM ON METAL DECK FACADE REF. MWOEM

#### ISO 14122-3:2016 STANDARD

The **EdgeSafe** guardrail on metal deck facade with wall-mounting system (Ref. **MWOEM**) is a system for fixing to exterior metal deck when fixing on the inside is not possible. It is used for rehabilitation and conditioning of exteriors and is installed on metal deck facade with a minimum thickness of 0.63 mm. For lower thicknesses, consult the Technical Office.

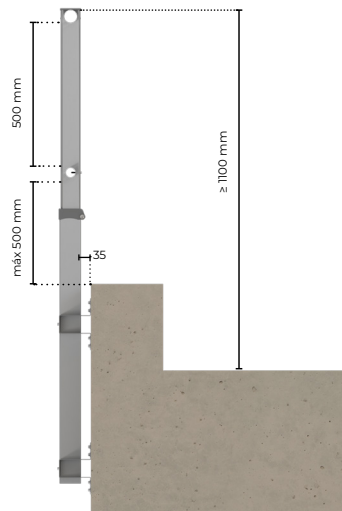


Ref.	Upright	Composition
MWOEM-S1	STRAIGHT	Handrail
MWOEM-S2		Handrail + knee-rail
MWOEM-S3		Handrail + knee-rail + toe board
MWOEM-I1	INCLINED	Handrail
MWOEM-I2		Handrail + knee-rail
MWOEM-I3		Handrail + knee-rail + toe board

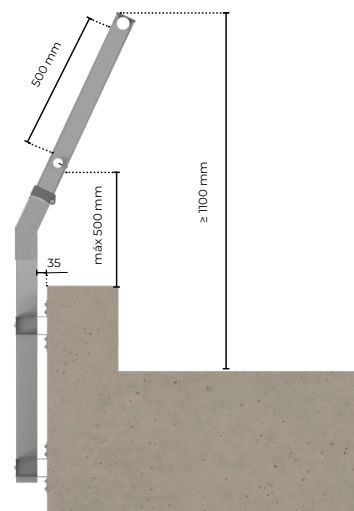


### EdgeSafe WITH WALL - MOUNTED SYSTEM ON METAL DECK FACADE REF. MWOEM

#### UPRIGHT DIMENSIONS



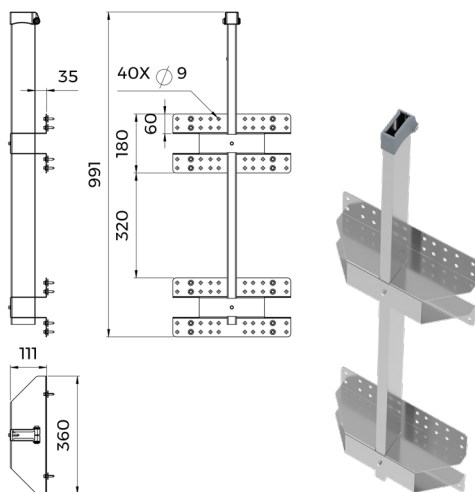
STRAIGHT UPRIGHT



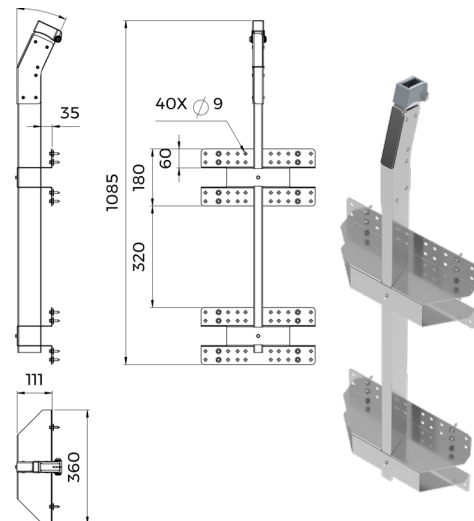
INCLINED UPRIGHT

#### BASES

The inclination of the EdgeSafe guardrail (Ref. MWOEM) is ensured by the wall-mounted fixing system, since it is delivered in a straight version or inclined at 25°. One base for two versions: the inclined wall-mounted base with is used for the version with and without offset



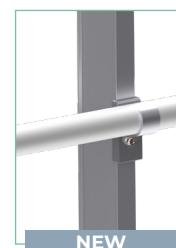
STRAIGHT BASE- REF. 36718



INCLINED BASE- REF. 36719

#### EdgeSafe KNEE-RAIL

With the EdgeSafe technical guardrail (Ref. MWOEM) we can use the knee-rail, either with the height-adjustable bracket or through the upright.



## EdgeSafe WITH WALL - MOUNTED SYSTEM ON METAL DECK FACADE REF. MWOEM

### ASSEMBLY PRINCIPLES

#### FIXING

- The maximum distance between uprights must be 1500 mm.
- The minimum thickness of the metal deck is 0.63 mm.
- The metal deck wall-mounted system are fixed using 8 x DBS2 screws + bowl washer per each mounting plate.
- A Ø4.8 x 32 mm self-drilling screw with a hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (corner angle, plug, wall connectors) to the handrails and knee-rails.
- Fixing the reduced ends of the handrails and knee-rails.

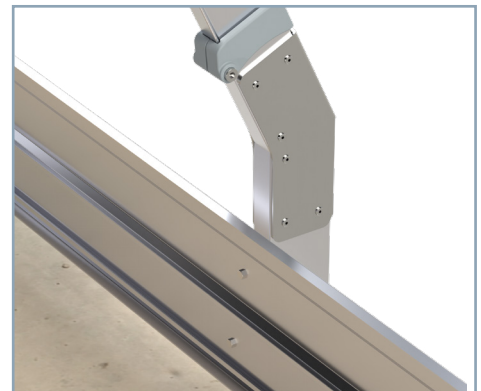
#### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.

- Fixing of the toe board is held to the upright using a self-drilling screw Ø4.8 x 32 mm with a hexagonal head.
- Fixing of the toe board is held to the toe board profile using 2 x M8 x 10 mm stud screws.



### TECHNICAL SPECIFICATIONS

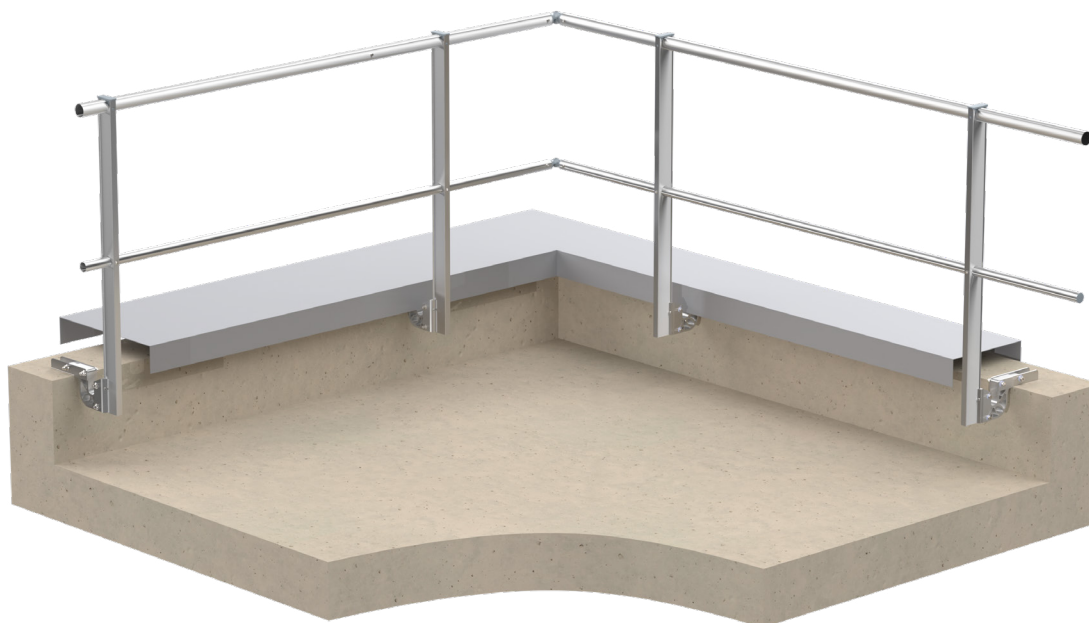
MWOEM							
Estimated weight per ml and m2	Straight weight kg/ml			Inclined weight kg / ml			
	1,77 ml			1,82 ml			
Service load for the stud assembly	Upright weight						
	1300	1100	1000	900	800	600	400
	1064	900	818	736	655	491	327
Estimated assembly times	100 m/día ( 2 personas)						
Necessary screws	Fixing to sheet metal of minimum thickness 0.63 mm: 8 screws DBS2 + flange washer per appliance						
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw						
	Upright: M8 x 45 ALLEN screw						
	Toe board: Ø4.8 x 32 mm self-drilling screw						

### EdgeSafe GUARDRAIL FIXED UNDER COVERING FIXTURE WITH STANDARD Z-SHAPED BASE

REF. MZ

ISO 14122-3:2016 STANDARD

The **EdgeSafe** guardrail with Z-base fixing allows safety on terraces inaccessible to the public on walls with roofing and with or without insulation with a thickness of 0 - 160 mm. It is fixed to the top of the wall and thus preserves the watertightness of the coping. The assembly system is easy and simple. The handrail does not need screws, it is fixed with a plug, the handrails and intermediate rails have a reduction at the ends for their in-line connection and the uprights are pre-drilled.

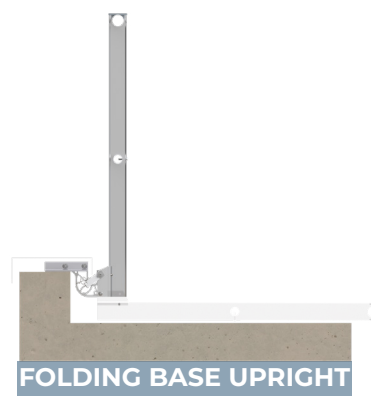
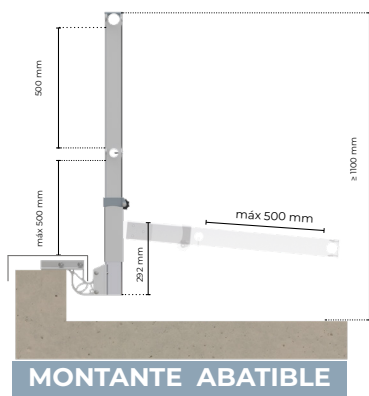
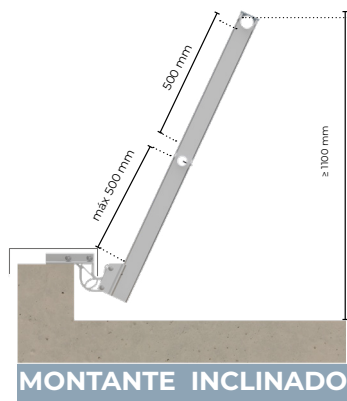
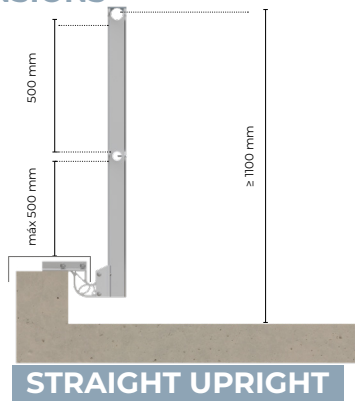


Ref.	Models	Base	Upright	Composition
MZ	Eco Z0 Z100 Z160	S1	STRAIGHT	Handrail
		S2		Handrail + knee-rail
		I1	INCLINED	Handrail
		I2		Handrail + knee-rail
		F1	FOLDABLE	Handrail
		F2		Handrail + knee-rail

### EdgeSafe GUARDRAIL FIXED UNDER COVERING FIXTURE WITH STANDARD Z-SHAPED BASE

REF. MZ

#### UPRIGHT DIMENSIONS



#### BASES

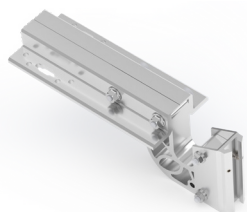
We use the same base for all configurations:

**Z-shaped base ECO:** an economical base ideal for uninsulated parapets.

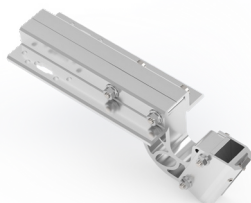
**Z-shaped base Z0:** Equipped with a sliding system, it adapts to an insulated parapet up to 15 mm.

**Z-shaped base Z100:** Equipped with a sliding system, it adapts to an insulated parapet up to 100 mm

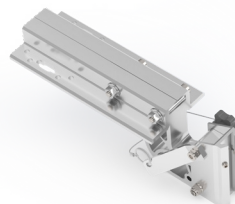
**Z-shaped base Z160:** Equipped with a sliding system, it adapts to an insulated parapet up to 160 mm.



STRAIGHT BASE



INCLINED BASE



FOLDING BASE



CLOSE



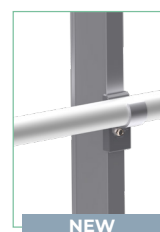
OPEN

+20 mm

\*\*Opening and closing available on Z-shaped bases Z0, Z100 and Z160.

#### EdgeSafe KNEE-RAIL

With the EdgeSafe technical guardrail (Ref. MZ) we can use the knee-rail, either with the height-adjustable bracket or through the upright.



NEW

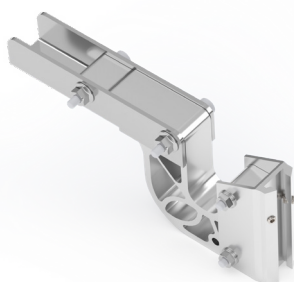
### EdgeSafe GUARDRAIL FIXED UNDER COVERING FIXTURE WITH STANDARD Z-SHAPED BASE

REF. MZ

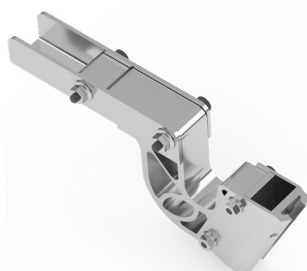
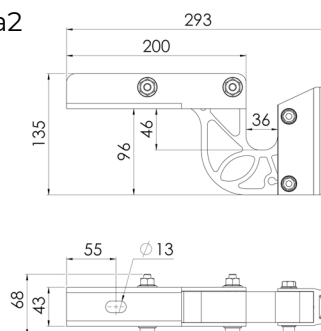
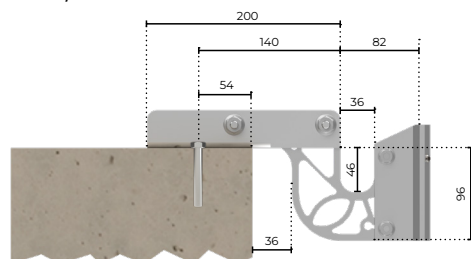
#### EXISTING CONFIGURATIONS

#### Z-SHAPED BASE ECO

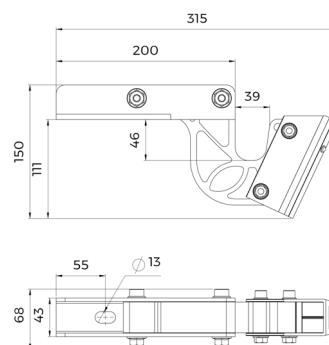
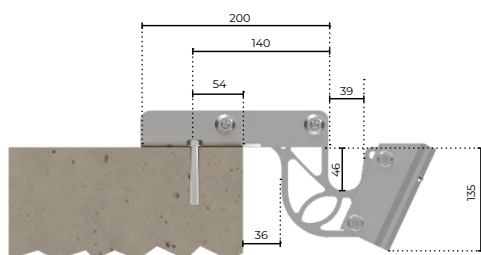
Fixing in uncracked concrete C20/C25 with 1 M12 stainless steel dowel a2



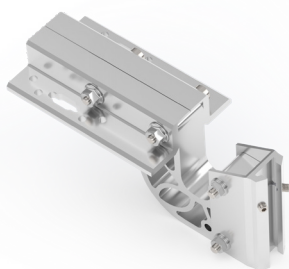
STRAIGHT -REF. 33541



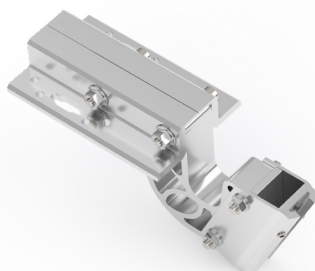
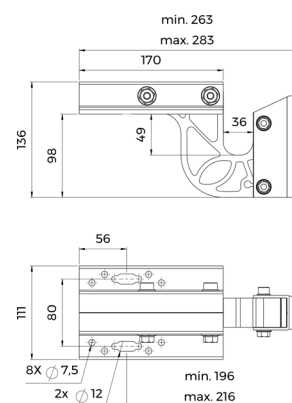
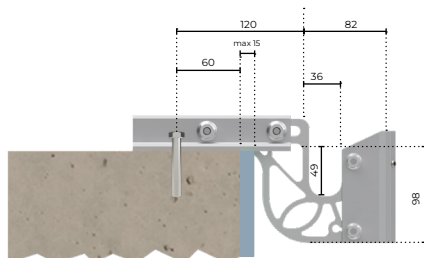
INCLINED REF. 32956



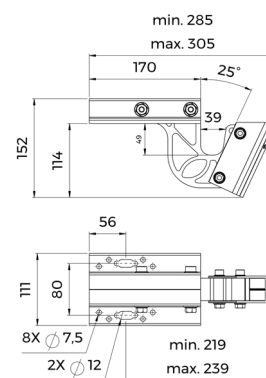
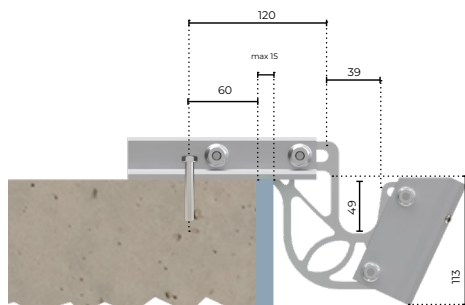
#### Z-SHAPED BASE Z0



STRAIGHT -REF. 33534



INCLINED -REF. 32957



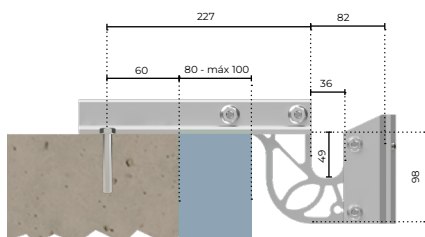
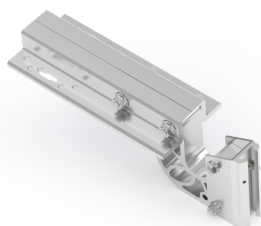


## EdgeSafe GUARDRAIL FIXED UNDER COVERING FIXTURE WITH STANDARD Z-SHAPED BASE

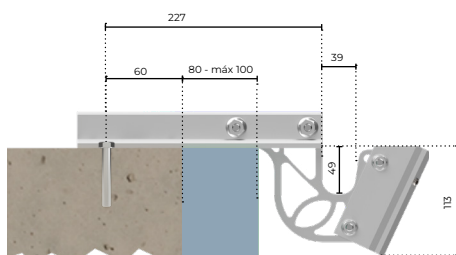
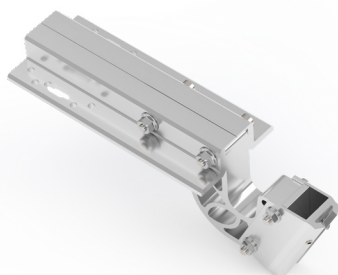
REF. MZ

EXISTING CONFIGURATIONS

### Z-SHAPED BASE Z100

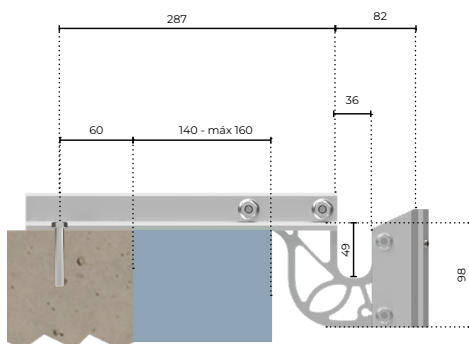
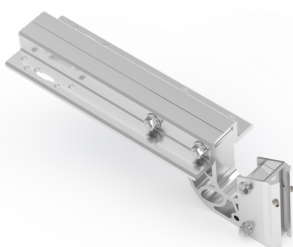


STRAIGHT- REF. 33539

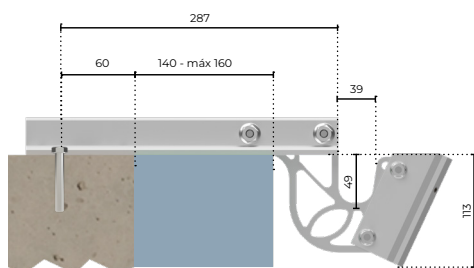
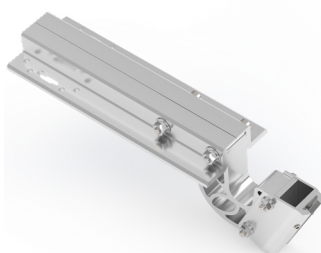


INCLINED - REF. 32958

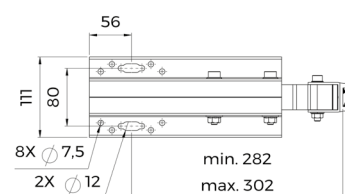
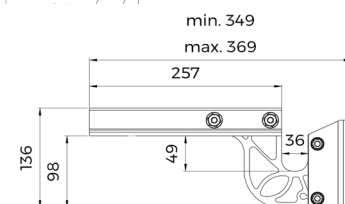
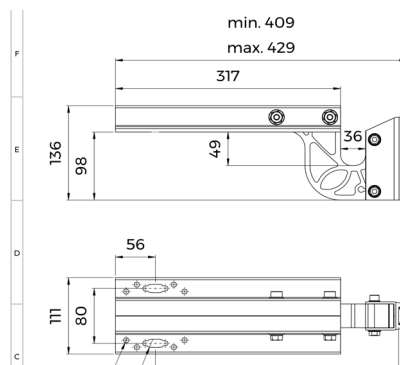
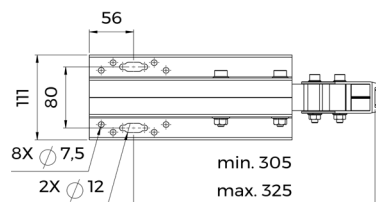
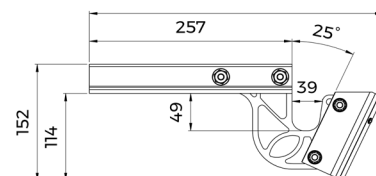
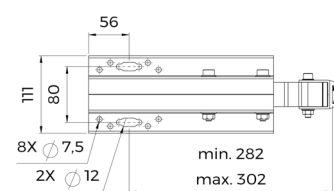
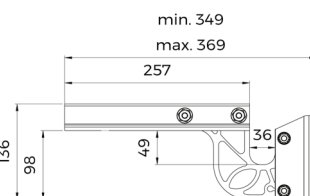
### Z-SHAPED BASE Z160



STRAIGHT - REF. 33540



INCLINED - REF. 32959



## EdgeSafe GUARDRAIL FIXED UNDER COVERING FIXTURE WITH STANDARD Z-SHAPED BASE

### REF. MZ

### ASSEMBLY PRINCIPLES

#### FIXING

- Fixing to the steel parapet is done with 6 x self-drilling screws, subject to a prior study by our technical office to determine the stresses and feasibility depending on the support, as well as validation by the hardware supplier.
- The maximum distance between uprights must be 1500 mm.
- The minimum height of the parapet is 100 mm for a straight Z-shaped base, 140 mm for the inclined version.
- A Ø4.8 x 32 mm self-drilling screw with a hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, cap, wall connectors) to the handrails and knee-rails.

### TECHNICAL SPECIFICATIONS

MZ								
	SABOT Z ECO		SABOT Z0		SABOT Z 100		SABOT Z160	
Estimated weight per ml and m2	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml
	2,42	2,47	2,42	2,47	2,54	2,59	2,66	2,71
Service load for the stud assembly	Upright weight							
	1300	1100	1000	900	800	600	400	
	1170	990	900	810	720	540	360	
Estimated assembly times	120m / día (2 personas)		100 m/ día ( 2 personas)		100 m/ día ( 2 personas)		100 m/ día ( 2 personas)	
Necessary screws	Fixing: · To C20/C25 seamless concrete parapet: 1 x M12 plug"		Fixing: · To C20/C25 seamless concrete parapet: 2 x M10 plugs · Metal deck: 6 x self-drilling screws · Wood: Lag screws, consult with the office study"					
	Knee-rail + accessories: self-drilling screw Ø4.8 x 32 mm							
	Upright: 2 x M8 x 10 mm stud screws (included in the base)							

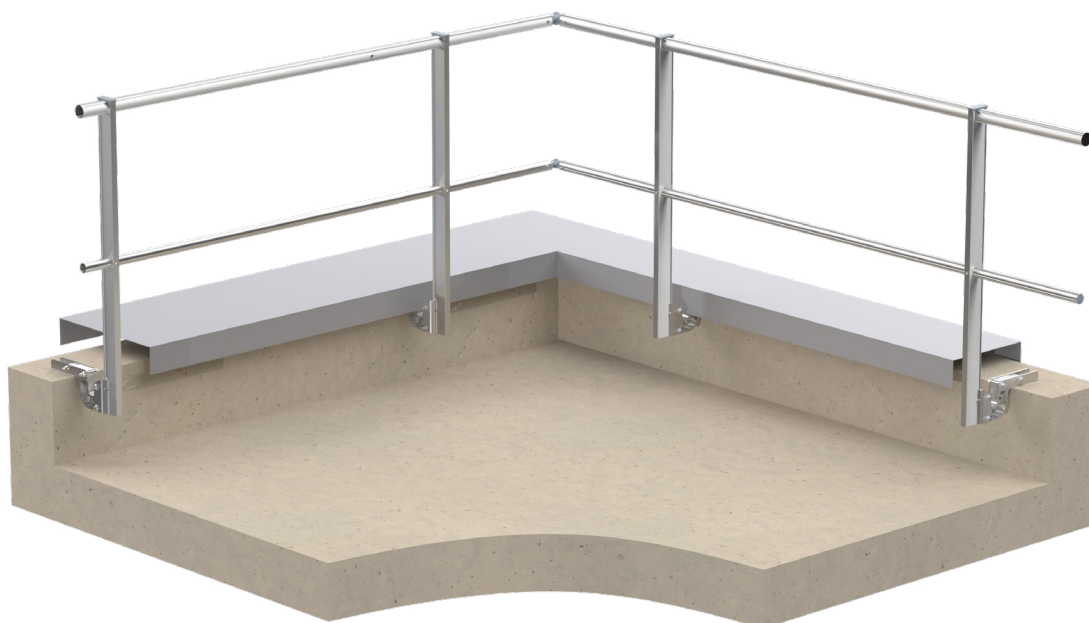
■ ■ ■ ■ ■ Powder-coating option for aluminium parts available on request.

### EdgeSafe TEMPORARY GUARDRAILS FIXED UNDER COVERING WITH Z-SHAPED BASE

REF. MZT

ISO 14122-3:2016 STANDARD

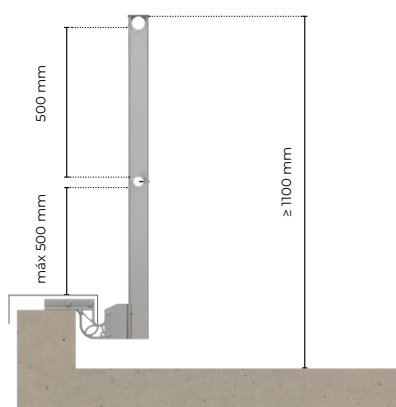
The EdgeSafe aluminum guardrail with Sabot Z to temporary fixing is a simple and economical solution to comply with the regulations for terraces inaccessible to the public. At the same time, it allows the installation of a temporary railing during the course of the works without requiring a subsequent change of the base, only of the upright, thus saving time and costs.



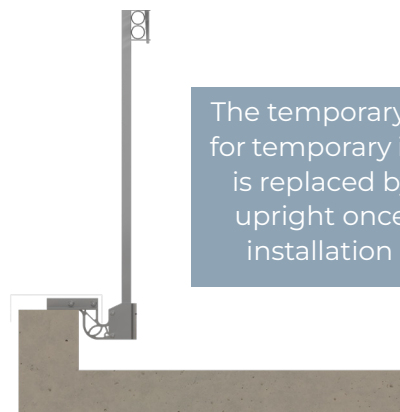
Ref.	Models	Base	Upright	Composition
MZ	Eco Z0 Z100 Z160	S1	STRAIGHT	Handrail
		S2		Handrail + knee-rail
		F1	FOLDABLE	Handrail
		F2		Handrail + knee-rail

### EdgeSafe TEMPORARY GUARDRAILS FIXED UNDER COVERING WITH Z-SHAPED BASE REF. MZT

#### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



The temporary upright is used for temporary installations and is replaced by the standard upright once the definitive installation is completed.

TEMPORARY UPRIGHT

#### BASES

The Sabot ZT fixing is available in a straight version.

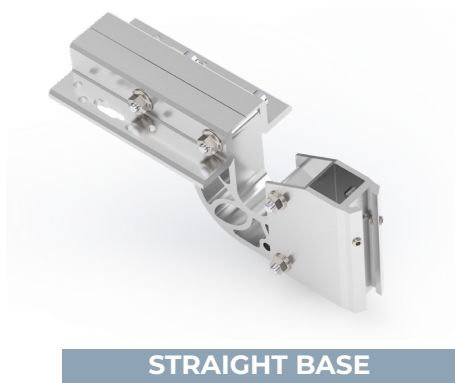
We use the same base for all configurations:

Z-shaped base ECO T: an economical base ideal for uninsulated parapets.

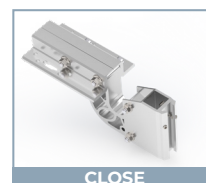
Z-shaped base Z0 T: Equipped with a sliding system, it adapts to an insulated parapet up to 15 mm.

Z-shaped base Z100 T: Equipped with a sliding system, it adapts to an insulated parapet up to 100 mm.

Z-shaped base Z160 T: Equipped with a sliding system, it adapts to an insulated parapet up to 160 mm.



STRAIGHT BASE



CLOSE



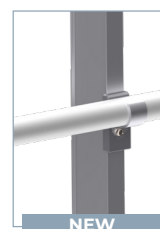
OPEN

+20 mm

*\*\*Opening and closing available on Z-shaped bases Z0, Z100 and Z160.*

#### EdgeSafe KNEE-RAIL

For the EdgeSafe technical guardrail (Ref. MZT) we can use the pass-through or the height-adjustable knee-rail.



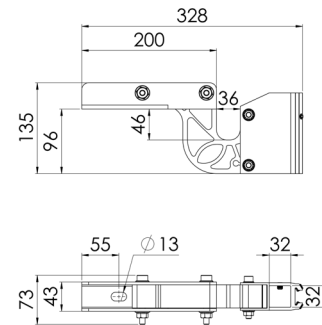
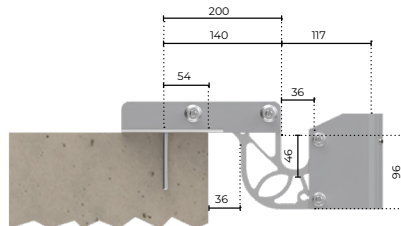
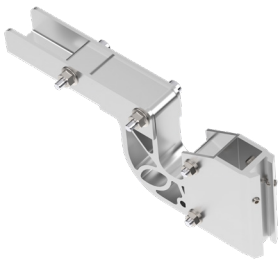
NEW

## EdgeSafe TEMPORARY GUARDRAILS FIXED UNDER COVERING WITH Z-SHAPED BASE

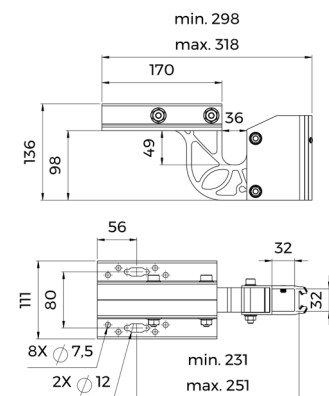
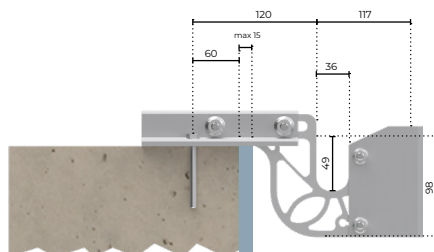
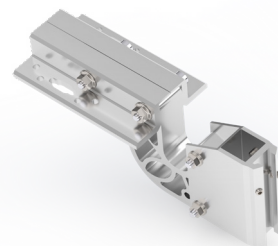
### REF. MZT

### EXISTING CONFIGURATIONS

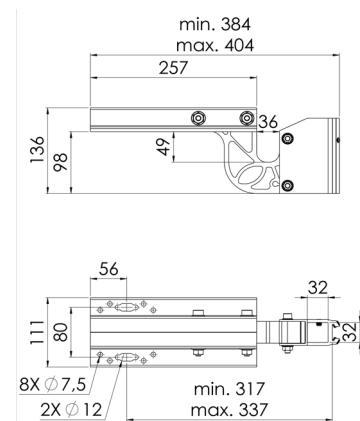
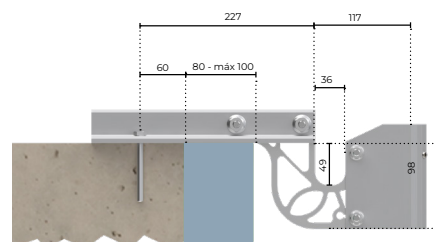
**Z-SHAPED BASE ECO** Fixing in uncracked concrete C20/C25 with 1 M12 stainless steel dowel a2  
**REF. 35195**



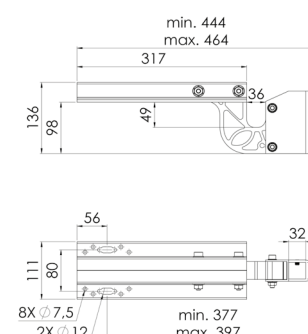
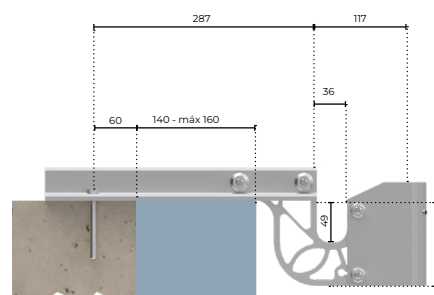
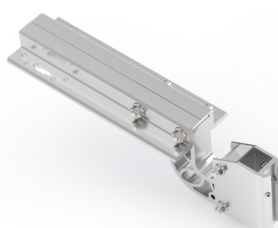
### Z-SHAPED BASE Z0 REF. 35191



### Z-SHAPED BASE Z100 REF. 35193



### Z-SHAPED BASE Z160 REF. 35194



## EdgeSafe TEMPORARY GUARDRAILS FIXED UNDER COVERING WITH Z-SHAPED BASE

REF. MZT


### ASSEMBLY PRINCIPLES

#### FIXING

- Fixing to the steel parapet is done with 6 x self-drilling screws, subject to a prior study by our technical office to determine the stresses and feasibility depending on the support, as well as validation by the hardware supplier.
- The maximum distance between uprights must be 1500 mm.
- The minimum height of the parapet is 100 mm for a straight Z-shaped base, 140 mm for the inclined version.
- A Ø4.8 x 32 mm self-drilling screw with a hexagonal head is used.
  - Fixing the knee-rail to the upright
  - Fixing the accessories (angle, cap, wall connectors) to the handrails and knee-rails."

### TECHNICAL SPECIFICATIONS

MZT								
	SABOT Z ECO		SABOT Z0		SABOT Z 100		SABOT Z160	
Estimated weight per ml and m2	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ml	Inclined weight kg/ml
	2,42	2,47	2,42	2,47	2,54	2,59	2,66	2,71
Service load for the stud assembly	Upright weight							
	1300	1100	1000	900	800	600	400	
	1170	990	900	810	720	540	360	
Estimated assembly times	120m / day (2 persons)		100 m/ day ( 2 persons)		100 m/ day ( 2 persons)		100 m/ day ( 2 persons)	
Necessary screws	Fixing: · To C20/C25 seamless concrete parapet: 1 x M12 plug		Fixing: · To C20/C25 seamless concrete parapet: 2 x M10 plugs · Metal deck: 6 x self-drilling screws · Wood: Lag screws, consult with the office study					
	Knee-rail + accessories: self-drilling screw Ø4.8 x 32 mm							
	Upright: 2 x M8 x 10 mm stud screws (included in the base)							

 Powder-coating option for aluminium parts available on request.



### vcv GUARDRAIL FIXED ON METAL DECK ROOF

REF. MM

ISO 14122-3:2016 STANDARD

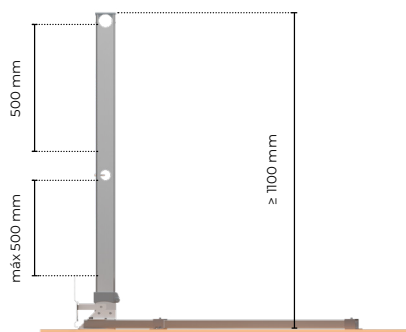
The **EdgeSafe** aluminum guardrail with fixing to the sheet metal roof allows the adaptation of metal terraces inaccessible to the public. It is fixed directly on the sheet metal with a minimum thickness of 0.4 mm and thus avoids any cut or repair on the waterproofing. It can be adapted to the corrugations of between 100 and 500 mm in any direction of the sheet. The assembly system is easy and simple. The handrail does not need screws, it is fixed with a plug, the handrails and knee-rails have a reduction at the ends for their union in line and the uprights are pre-drilled.



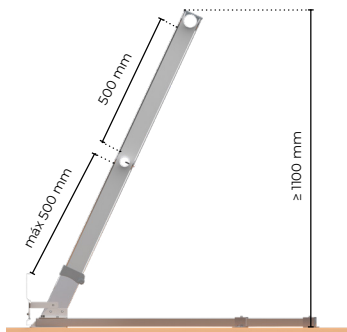
Ref.	Upright	Composition
MM-S1	STRAIGHT	Handrail
MM-S2		Handrail + knee-rail
MM-S3		Handrail + knee-rail + toe board
MM-I1	INCLINED	Handrail
MM-I2		Handrail + knee-rail
MM-I3		Handrail + knee-rail + toe board
MM-F1	FOLDABLE	Handrail
MM-F2		Handrail + knee-rail
MM-F3		Handrail + knee-rail + toe board

### EdgeSafe GUARDRAIL FIXED ON METAL DECK ROOF REF. MM

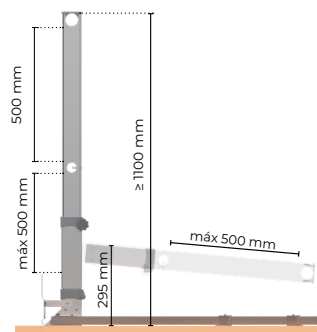
#### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



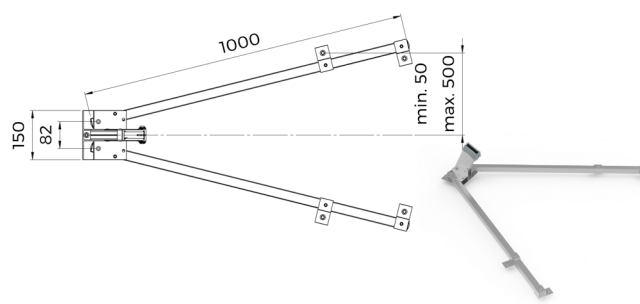
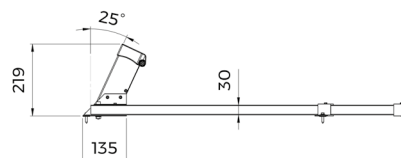
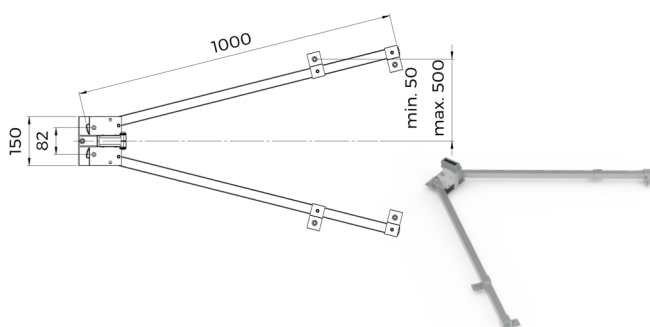
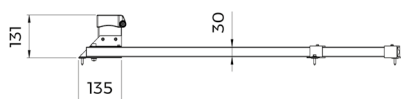
INCLINED UPRIGHT



FOLDING UPRIGHT

#### BASES

The inclination of the guardrail is ensured by the base which is available in the straight version or inclined at 25°



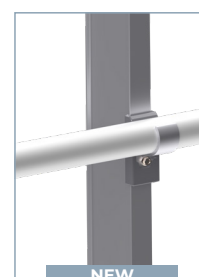
Possibility of opening up to 1000 mm or complete closure

STRAIGHT BASE - REF. 32931

INCLINED BASE - REF. 32932

#### EdgeSafe KNEE-RAIL

For the EdgeSafe technical guardrail (Ref. MM) we can use the pass-through or the height-adjustable knee.rail.



## EdgeSafe GUARDRAIL FIXED ON METAL DECK ROOF

### REF. MM

### ASSEMBLY PRINCIPLES

#### FIXING

- Fixing to the metal deck with 5 x DBS2 screws with waterproof washers and bowl washers.
- The DBS2 6 x 27 mm screw pushes the material inwards forming a flange, which increases the fixing length and guarantees watertightness.
- The tightening torque is high even on small thicknesses (<5 N.m compared to an average of 1.5 N.m for classic self-drilling screws.)
- The distance between uprights must be a maximum of 1500 mm
- The maximum slope of the roof is 10°
- A Ø4.8 x 32 mm self-drilling screw with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (corner angle, plug, wall connectors) to the handrails and intermediates..

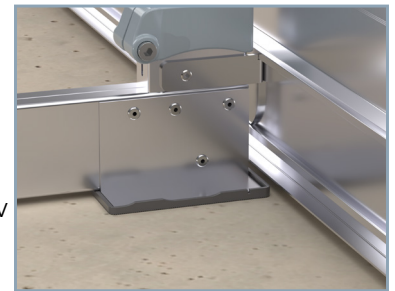
#### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.

- Fixing of the toe board is held to the upright using a self-drilling screw Ø4.8 x 32 mm with a hexagonal head.
- Fixing of the toe board is held to the toe board profile using 2 x M8 x 10 mm stud screws.



### TECHNICAL SPECIFICATIONS

MM				
Estimated weight per ml and m2	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ m²	Inclined weight kg/ m²
	3,35 ml	3,40 ml	3,35 m²	3,40 m²
Service load for the stud assembly	100 m / days ( 2 persons)			
Necessary screws	Fixing to metal deck with a minimum thickness of 0.4 mm: 5 x DBS2 screws + bowl washer			
	Knee-rail + accessories: self-drilling screw Ø4.8 x 32 mm			
	Upright: ALLEN screw M8 x 45 mm			
	Toe board: 1 x self-drilling screw Ø4.8 x 32 mm.			

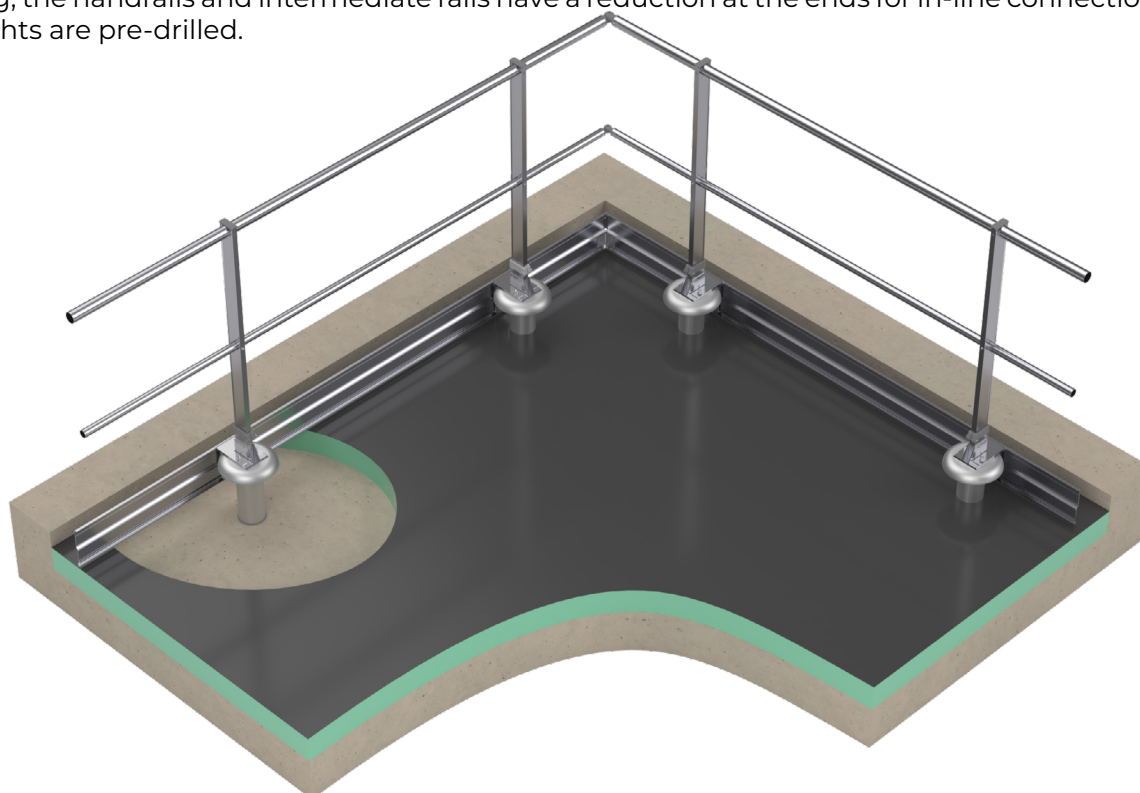
■ ■ ■ ■ ■ Powder-coating option for aluminium parts available on request.

### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

REF. MD

ISO 14122-3:2016 STANDARD

The EdgeSafe aluminum guardrail for waterproofed slab is fixed to an insulated slab through the waterproofing system by means of its D-type base. It is available in three standard heights (300, 400 and 500 mm). The assembly system is easy and simple. The handrail does not require screws, it is fixed with a plug, the handrails and intermediate rails have a reduction at the ends for in-line connection and the uprights are pre-drilled.

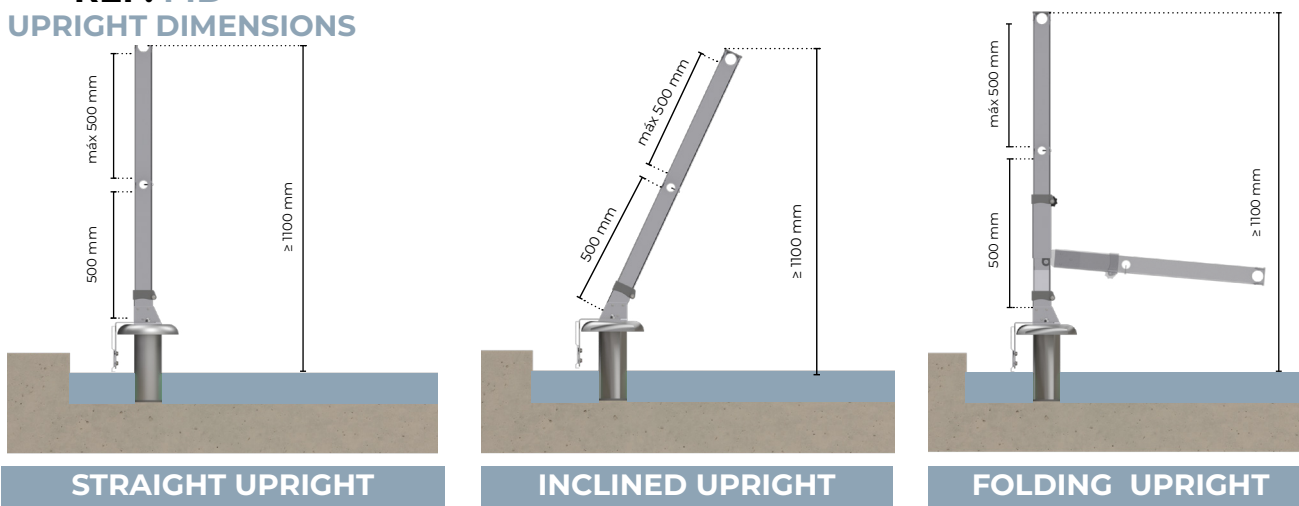


REF.	Models	Base	Upright	Composition
MD	300 mm 400 mm 500 mm	S1	STRAIGHT	Handrail
		S2		Handrail + knee-rail
		S3		Handrail + knee-rail + toe board
		I1	INCLINED	Handrail
		I2		Handrail + knee-rail
		I3		Handrail + knee-rail + toe board
		F1	FOLDABLE	Handrail
		F2		Handrail + knee-rail
		F3		Handrail + knee-rail + toe board

### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

#### REF. MD

#### UPRIGHT DIMENSIONS

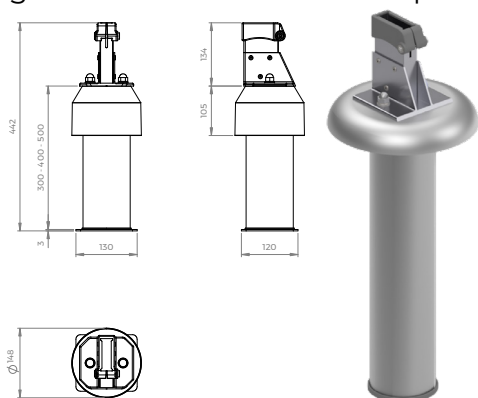


#### BASES

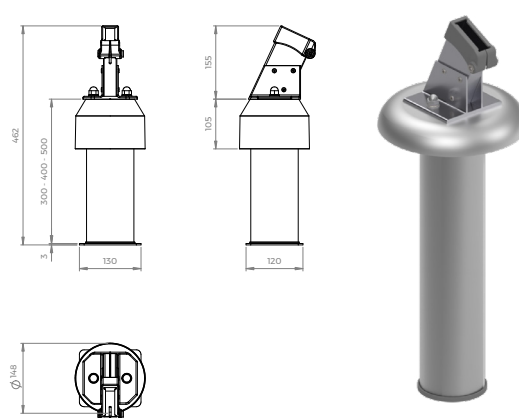
The inclination of the guardrail is ensured by the base which exists in straight or inclined version at 25°.

Three standard post heights:

- Height 300 mm for insulation up to 112 mm.
- Height 400 mm for insulation up to 212 mm.
- Height 500 mm for insulation up to 312 mm.



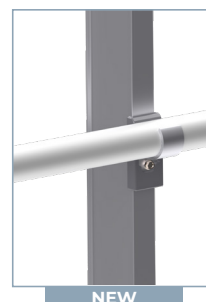
**BASE RECTA - REF. 34874**



**BASE INCLINADA - REF. 35145**

#### EdgeSafe KNEE-RAIL

For the EdgeSafe technical guardrail (Ref. MD) we can use the pass-through or the height-adjustable knee-rail.

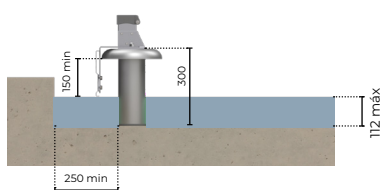


**NEW**

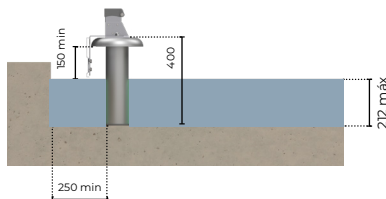
### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

REF. MD

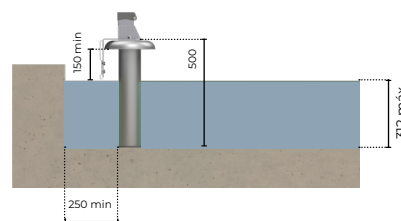
#### EXISTING CONFIGURATIONS



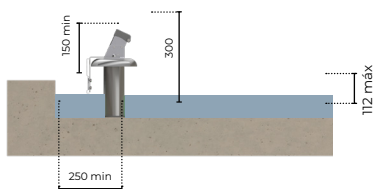
**STRAIGHT BASE  
300 MM**



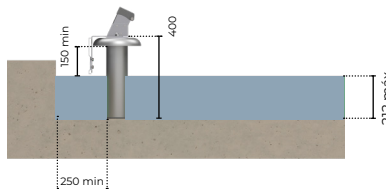
**STRAIGHT BASE  
400 MM**



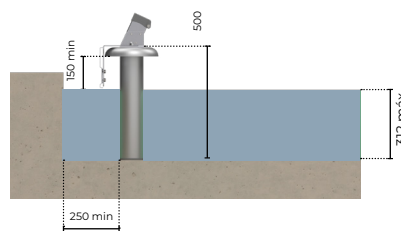
**STRAIGHT BASE  
500 MM**



**INCLINED BASE  
300 MM**



**INCLINED BASE  
400 MM**



**INCLINED BASE  
500 MM**



## EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

REF. MD

### ASSEMBLY PRINCIPLES

#### FIXING

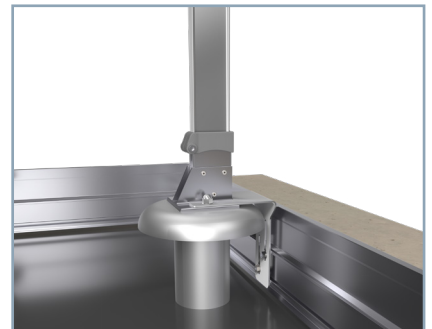
- The maximum distance between uprights must be 1500 mm.
- The distance to the edge of the parapet must be a minimum of 250 mm.
- Handrail and knee-rail corner angles for assembly, knee-rail with reduced ends for assembly.
- Assembly of the base upright: CHC 8 x45 mm screws, supplied as standard.
- Fixing of the bases to unreinforced concrete C20/C25 using 2 M10 plugs (optional, see forces according to the manual)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, plug, wall connector) to the handrails and knee-rails.

#### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.  
 • The toe board bracket kit for D/ BE posts is fastened to the upright by means of the two rods that make up the base.  
 • The toe board bracket kit for D/ BE posts is fastened to the toe board profile by means of 2 x M8 x 15 mm bolts"



### TECHNICAL SPECIFICATIONS

MD								
Estimated weight per ml and m2	Dimensiones	Straight weight kg/ml					Inclined weight kg/ml	
	300	2,66 ml					2,71 ml	
	400	2,85 ml					2,90 ml	
	500	3,04 ml					3,09 ml	
Service load for the stud assembly	Dimensiones	1300	1100	1000	900	800	600	400
	300	1305	990	900	810	720	540	360
	400	1395	1215	1125	1035	945	765	585
	500	1485	1305	1215	1125	1035	855	675
Estimated assembly times	60 m/ día ( 2 personas)							
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 M10 plugs (not included)							
	Knee-rail + accessories: Ø4.8 x 32 mm self-drilling screw							
	Upright: M8 x 45 ALLEN screw							
	Powder-coating option for aluminium parts available on request.							

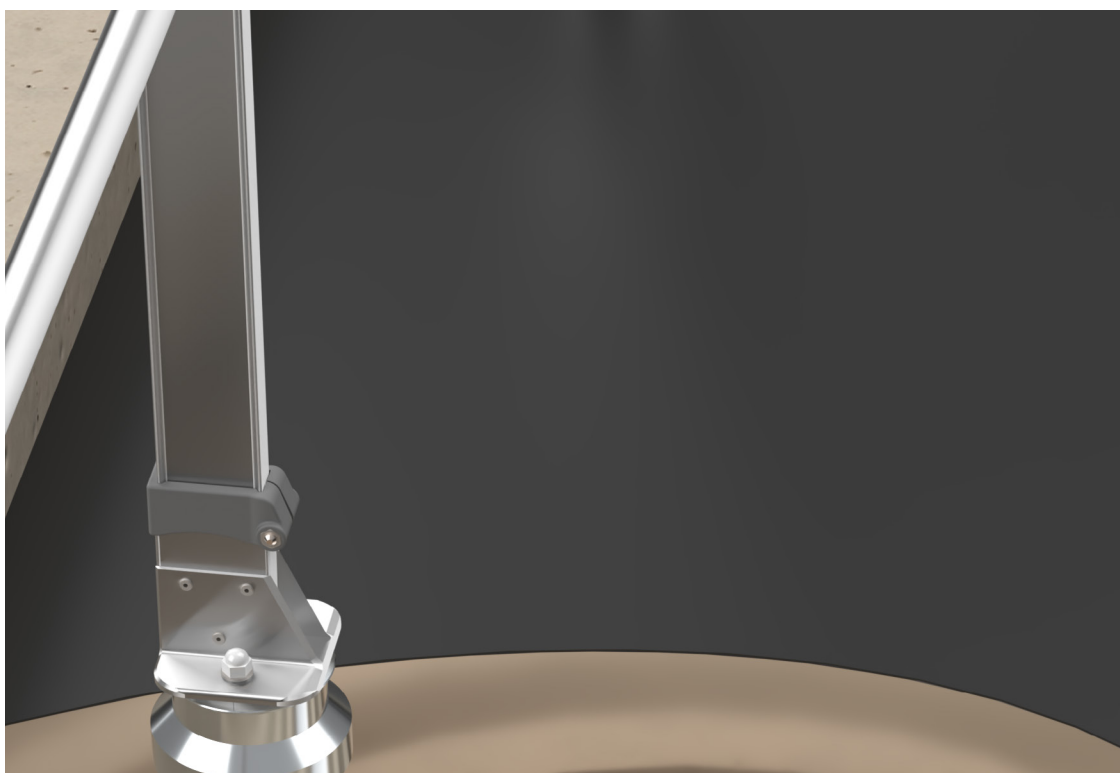
■ ■ ■ ■ ■ Powder-coating option for aluminium parts available on request.

### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

REF. MMW

ISO 14122-3:2016 STANDARD

The EdgeSafe aluminum guardrail with fastening to the roof to be waterproofed allows the adaptation of terraces that are inaccessible to the public. It is fixed to the roof through the waterproofing system by means of the BE base. It is available in three standard heights (300, 400 and 500 mm). The assembly system is easy and simple. The handrail does not need screws, it is fixed with a plug, the handrails and intermediate rails have a reduction at the ends for their union in line and the uprights are pre-drilled.

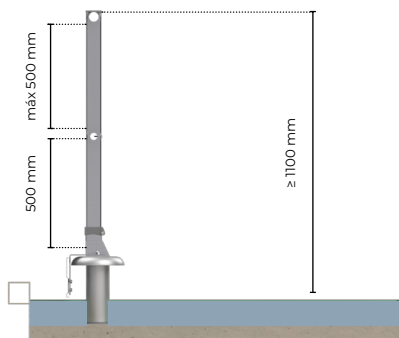


Ref.	Models	Base	Upright	Composition
MMW	300 mm 400 mm 500 mm	S1	STRAIGHT	Handrail
		S2		Handrail + knee-rail
		S3		Handrail + knee-rail + toe board
		I1	INCLINED	Handrail
		I2		Handrail + knee-rail
		I3		Handrail + knee-rail + toe board
		F1	FOLDABLE	Handrail
		F2		Handrail + knee-rail
		F3		Handrail + knee-rail + toe board

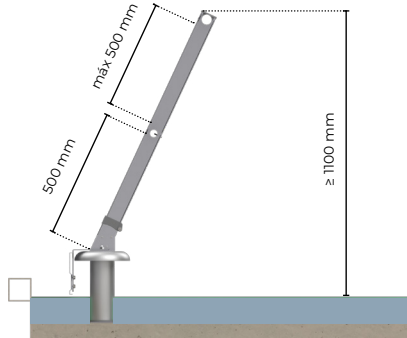
### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

REF. MMW

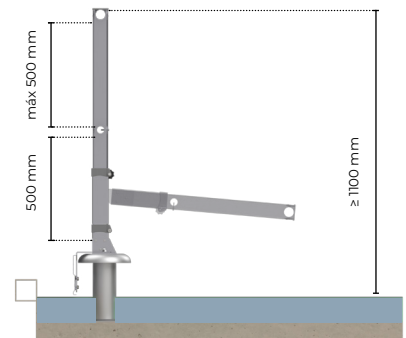
#### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



INCLINED UPRIGHT



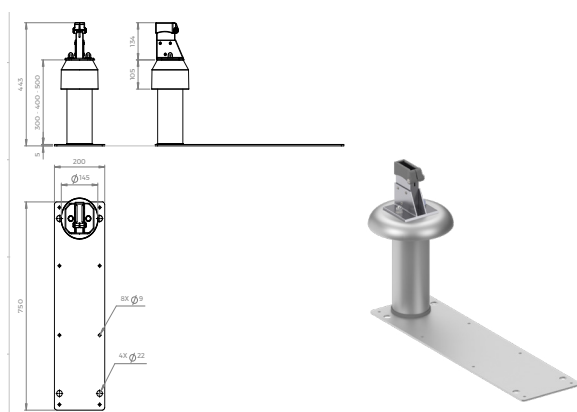
FOLDING UPRIGHT

#### BASES

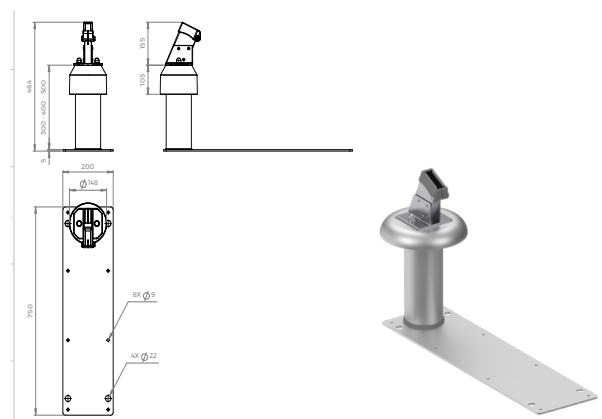
The inclination of the guardrail is ensured by the base which exists in straight or inclined version at 25°.

Three standard post heights:

- Height 300 mm for insulation up to 112 mm.
- Height 400 mm for insulation up to 212 mm.
- Height 500 mm for insulation up to 312 mm.



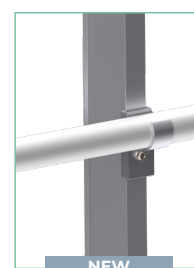
STRAIGHT BASE- REF. 35148



INCLINED BASE - REF. 35156

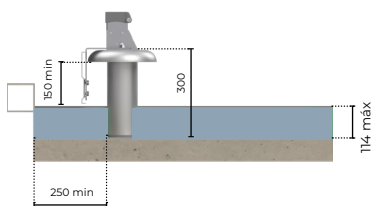
#### EdgeSafe KNEE-RAIL

In the EdgeSafe technical guardrail (Ref. MMW) we can use the through or adjustable intermediate tube.

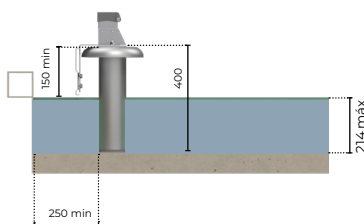


### EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS REF. MMW

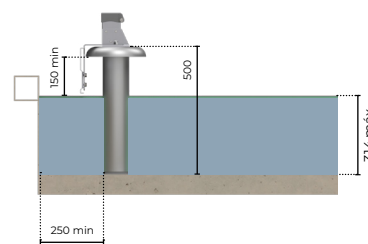
#### EXISTING CONFIGURATIONS



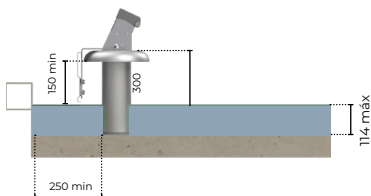
**STRAIGHT BASE  
300 MM**



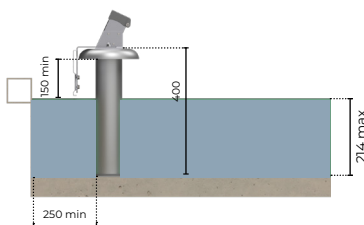
**STRAIGHT BASE  
400 MM**



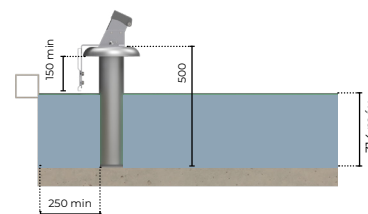
**STRAIGHT BASE  
500 MM**



**INCLINED BASE  
300 MM**



**INCLINED BASE  
400 MM**



**INCLINED BASE  
500 MM**

## EdgeSafe GUARDRAIL FIXED ON CONCRETE ROOF SLAB TO BE SEALED WITH D-POSTS

### REF. MMW

### ASSEMBLY PRINCIPLES

#### FIXING

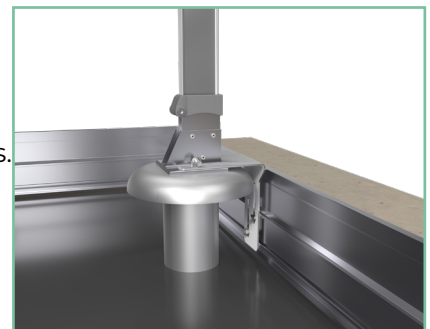
- The maximum distance between uprights must be 1500 mm.
- The distance to the edge of the parapet must be a minimum of 250 mm.
- Handrail and knee-rail corner angles for assembly, knee-rail with reduced ends for assembly.
- Assembly of the base upright: CHC 8 x45 mm screws, supplied as standard.
- Fixing of the bases to unreinforced concrete C20/C25 using 2 M10 plugs (optional, see forces according to the manual)
- A self-drilling screw Ø4.8 x 32 mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, plug, wall connector) to the handrails and knee-rails.
- Fijación de los accesorios ( ángulo, tapón, terminación) a los pasamanos y los intermedios.

#### TOE BOARD OPTION

If the height of the parapet is < 100 mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions. The toe board is made of aluminium H 180 mm.

- The toe board bracket kit for D/ BE posts is fastened to the upright by means of the two rods that make up the base.
- The toe board bracket kit for D/ BE posts is fastened to the toe board profile by means of 2 x M8 x 15 mm bolts



### TECHNICAL SPECIFICATIONS

MMW					
	Dimensiones	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ m²	Inclined weight kg/ml
Estimated weight per ml and m2	300	6,33 ml	6,38 ml	8,43 m²	8,50 m²
	400	6,53 ml	6,58 ml	8,70 m²	8,77 m²
	500	6,65 ml	6,70 ml	8,87 m²	8,94 m²
Estimated assembly times	60 m/ day ( 2 persons)				
Necessary screws	Fixing to C20/C25 seamless concrete parapet: 2 stainless steel M10 dowels A2 (not included)				
	Intermediate + accessories: self-drilling screw Ø4,8 x 32 inox A2				
	Upright: ALLEN Screw M8 x 45 mm				
	Skirting: 2 studs M8 x 15 mm				

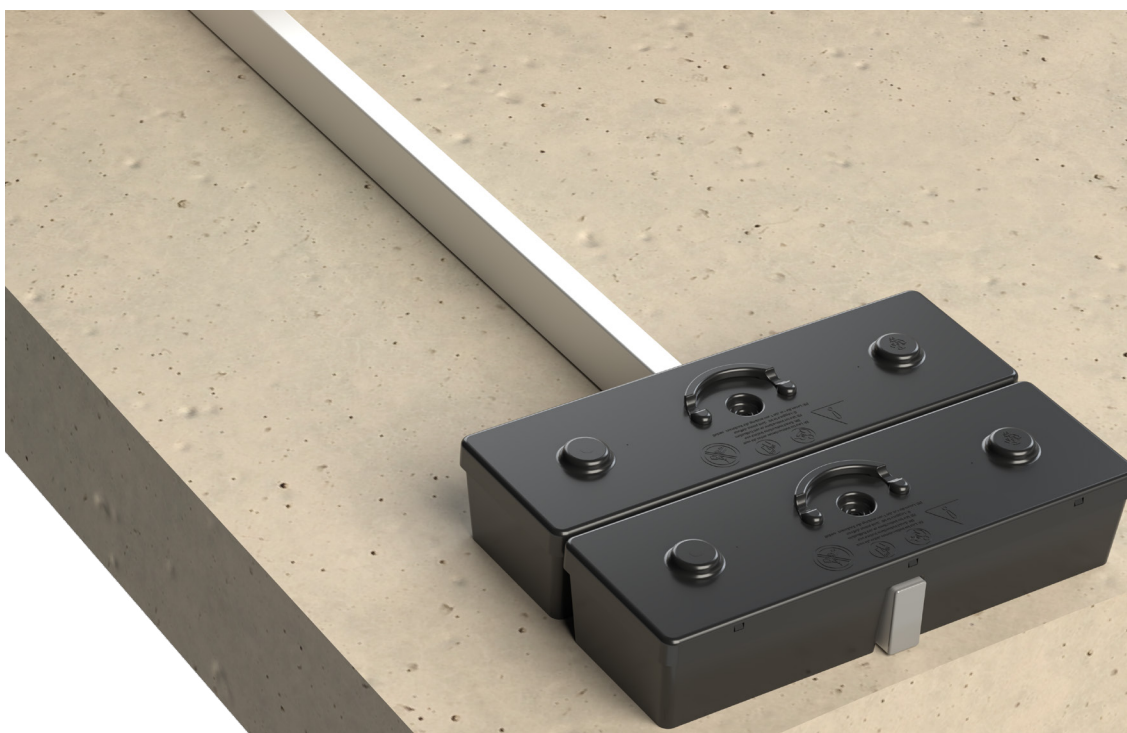
■ ■ ■ ■ ■ Powder-coating option for aluminium parts available on request.

### EdgeSafe FREESTANDING GUARDRAIL

#### REF. MF

#### ISO 14122-3:2016 STANDARD

The freestanding EdgeSafe aluminium guardrail (ref. MF/MFA) is the solution to comply with the technical roofing regulations when it is impossible to make fastenings. It avoids any drilling intervention. The assembly system is easy and simple. The handrail does not need screws, it is fixed with a plug, the handrails and intermediate rails have a reduction at the ends for their in-line connection and the uprights are pre-drilled.

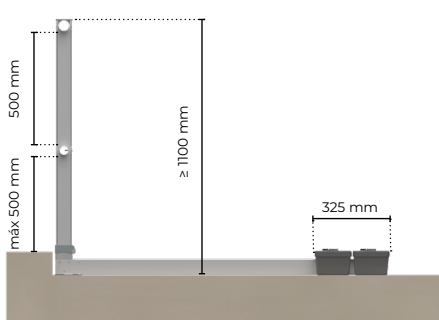


Ref.	Upright	Composition
MF-S1	STRAIGHT	Handrail
MF-S2		Handrail + knee-rail
MF-S3		Handrail + knee-rail + toe board
MF-I1	INCLINED	Handrail
MF-I2		Handrail + knee-rail
MF-I3		Handrail + knee-rail + toe board
MF-F1	FOLDABLE	Handrail
MF-F2		Handrail + knee-rail
MF-F3		Handrail + knee-rail + toe board

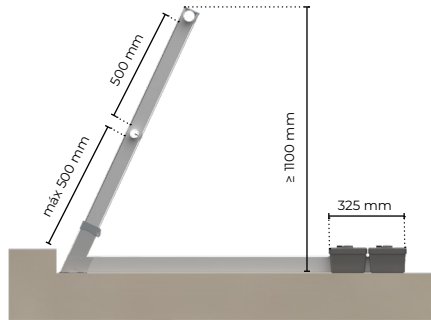


## EdgeSafe FREESTANDING GUARDRAIL REF. MF

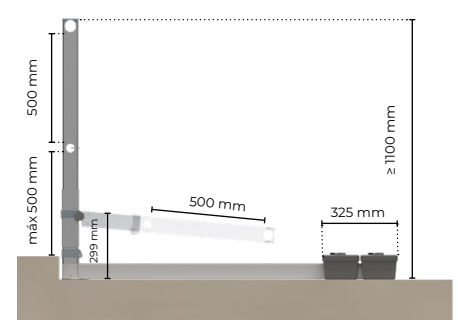
### UPRIGHT DIMENSIONS



STRAIGHT UPRIGHT



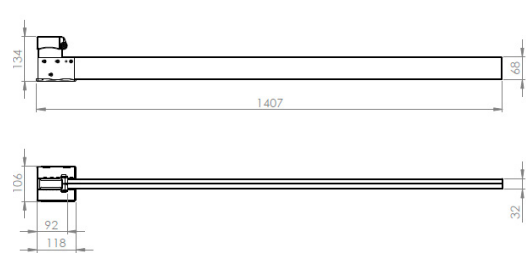
INCLINED UPRIGHT



FOLDING UPRIGHT

### BASES

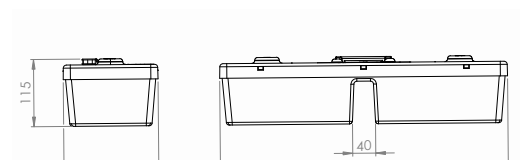
The inclination of the guardrail is ensured by the base which is available in the straight or 25° inclined version.



STRAIGHT BASE - REF. 32918

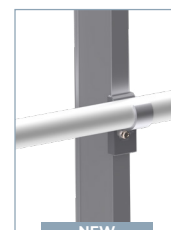


INCLINED BASE - REF. 32917

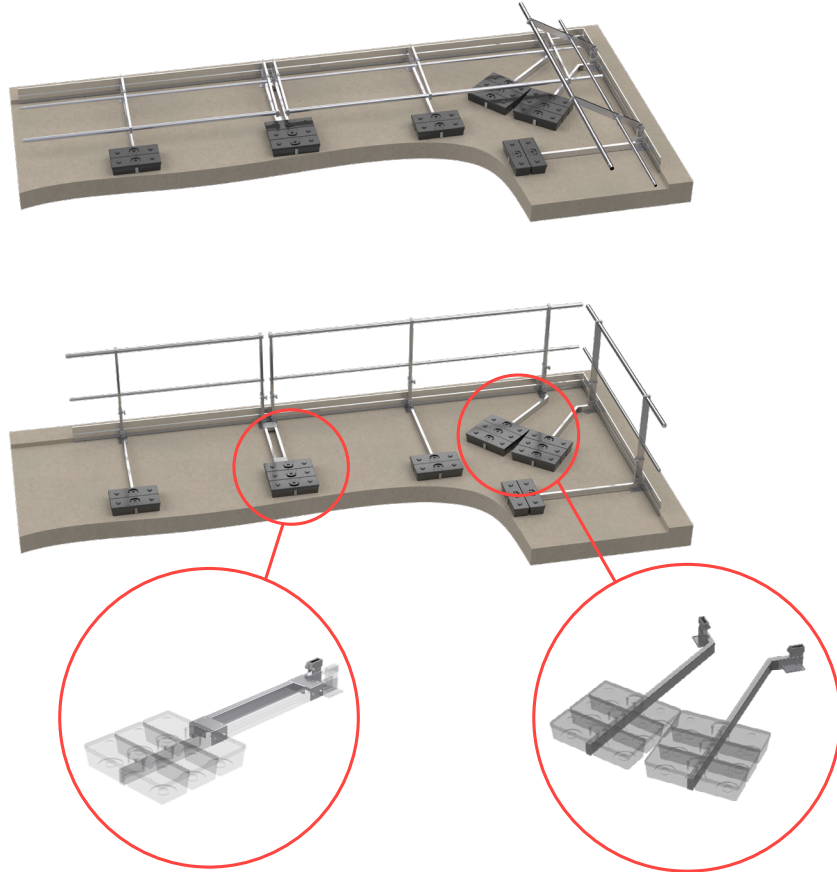


### EdgeSafe KNEE-RAIL

In the EdgeSafe technical guardrail (Ref. MF) we can use the pass-through or the height adjustable knee-rail.



### EdgeSafe FREESTANDING GUARDRAIL REF. MF



**Self-supporting suport leg for joining sections:** The standard self-supporting suport leg of the previous section (in transparent) is joined to the self-supporting joining support leg (in colour), made up of the following elements:

- 900mm self-supporting support leg
- 2 joining plates with 8 x self-drilling screws  $\varnothing 4.8 \times 32$  mm each

**Self-supporting support leg at 50° in corners:** To avoid overlapping support legs, at the ends of corner sections, we place self-supporting support legs at 50° with three counterweights each.

### EdgeSafe FREESTANDING GUARDRAIL

#### REF. MF

#### ASSEMBLY PRINCIPLES

##### FIXING

- The self-supporting support leg is not fixed to the substrate, thus ensuring watertightness and the non-appearance of leaks. The presence of a stop (type parapet) of minimum H 20 mm is mandatory.
- A self-drilling screw  $\varnothing 4.8 \times 32$  mm with hexagonal head is used.
- Fixing the knee-rail to the upright
- Fixing the accessories (angle, cap, wall connector) to the handrails and the knee-rail.
- Self-drilling screw with hexagonal head  $\varnothing 4.8 \times 50$  for fixing the counterweights (1 per counterweight)
- A CHC 8x45 mm screw is used (premounted as standard): screwing the support leg and self-supporting base kit to the upright

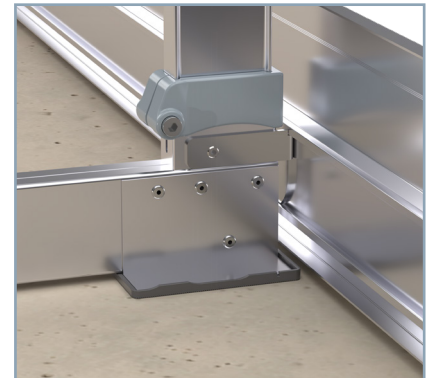
##### TOE BOARD OPTION

If the height of the parapet is  $< 100$  mm, the use of a toe board is mandatory.

**ATTENTION:** Before any use, consult the corresponding instructions.

The toe board is made of aluminium H 180 mm.

- Fixing the toe board to the upright using a  $\varnothing 4.8 \times 32$  self-drilling screw with hexagonal head.
- Fijación del rodapié sujeta al perfil del rodapié mediante 2 tornillos espárrago M8x10.














#### TECHNICAL SPECIFICATIONS








MF				
Estimated weight per ml and m2	Straight weight kg/ml	Inclined weight kg/ml	Straight weight kg/ m <sup>2</sup>	Inclined weight kg/ml
	19,03 ml	19,08 ml	13,17 m <sup>2</sup>	13,20 m <sup>2</sup>
Estimated assembly times	150 m/ day ( 2 persons)			
Necessary screws	Fixation to substrate: -			
	Fixing of counterweight to reinforcement leg: Self-drilling hex head screw $\varnothing 4.8 \times 50$ mm			
	Intermediate + accessories: $\varnothing 4.8 \times 32$ hex head.			
	Upright: ALLEN Screw M8 x 45			
	Toe board: 1 self-drilling screw $\varnothing 4.8 \times 32$ mm.			

■ ■ ■ ■ ■ Powder-coating option for aluminium parts available on request.



















## COMPONENT REFERENCE

HANDRAILS	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	32914	HANDRAILS Ø47 MM WITH REDUCED END		6063	1,85	PALLET	196	3000 x 1200 x 400	362,60 Kg	1,44
	32352	HANDRAILS Ø47 MM WITHOUT REDUCED END		6063	1,85	PALLET	196	3000 x 1200 x 400	362,60 Kg	1,44
	32913	KNEE-RAIL Ø35 WITH REDUCED END		6063	1,00	PALLET	196	3000 x 1200 x 400	196 Kg	1,44
	33321	KNEE-RAIL Ø35 WITHOUT REDUCED END		6063	1,00	PALLET	196	3000 x 1200 x 400	196 Kg	1,44







UPRIGHTS	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	33032	STRAIGHT UPRIGHT H1205 MM		6063	0,77	PALLET	400	1400 x 1200 x 1200	320 Kg	2,02
	33030	STRAIGHT UPRIGHT H1205 MM ( Ø567)		6063	0,76	PALLET	400	1400 x 1200 x 1200	300 Kg	2,02
	33031	STRAIGHT UPRIGHT H1105 MM		6063	0,70	PALLET	400	1200 x 800 x 1000	280 Kg	0,96
	32560	STRAIGHT UPRIGHT H1105 MM ( Ø567)		6063	0,69	PALLET	400	1200 x 800 x 1000	276 Kg	0,96
	33033	STRAIGHT UPRIGHT H800 MM		6063	0,50	PALLET	400	1200 x 800 x 800	200 Kg	0,77
	33034	STRAIGHT UPRIGHT H600 MM		6063	0,37	PALLET	400	1200 x 800 x 1000	148 Kg	0,96
BASES	33035	STRAIGHT UPRIGHT H400 MM		6063	0,25	PALLET	400	1200 x 800 x 1000	100 Kg	0,96

BASES	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	32918	SELF-SUPPORTING BASE		6063	1,30	PALLET	150	1500 x 1200 x 1200	196,5 Kg	2,16
	32919	INCLINED SELF-SUPPORTING BASE		6063	0,75	PALLET	150	1500 x 1200 x 1200	300 Kg	2,16
	32929	STRAIGHT TOP FIX BASE		6063	0,48	BOX	80	400 x 400 x 400	38,4 Kg	0,77
	32930	INCLINED TOP FIX BASE		6063	0,50	BOX	80	800x 600 x 200	40 Kg	0,77
	32912	WALL-MOUNTED BASE		6063	0,20	BOX	100	400x400x400 mm	20 Kg	0,77
	32911	WALL-MOUNTED BASE STRAIGHT CON OFFSET		6063	0,57	BOX	80	400x400x400 mm	45,28 Kg	0,77
	32910	INCLINED WALL-MOUNTED BASE CON OFFSET		6063	0,57	BOX	80	400x400x400 mm	45,28 Kg	0,77

## COMPONENT REFERENCE

BASES	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	36715	WALL-MOUNTED STRAIGHT BASE EXTERNAL FIXING FOR CONCRETE		6063	4,69	PALLET	72	1200 x 1000 x 1200	337,68	1,44
	36716	WALL-MOUNTED INCLINED BASE EXTERNAL FIXING FOR CONCRETE		6063	5,66	PALLET	54	1200 x 1000 x 1200	305,64	1,44
	36718	STRAIGHT BASE EXTERNAL FIXING FOR METAL DECK FACADE		6063	5,32	PALLET	72	1200 x 1000 x 1200	383,04	1,44
	36719	INCLINED BASE EXTERNAL FIXING FOR METAL DECK FACADE		6063	6,28	PALLET	54	1200 x 1000 x 1200	339,12	1,44
	33541	STRAIGHT Z-SHAPED BASE Z ECO		6063	1,55	PALLET	160	1200 x 800 x 600	248 Kg	0,576
	33956	INCLINED Z-SHAPED BASE Z ECO		6063	1,55	PALLET	160	1200 x 800 x 600	248 Kg	0,576
	33534	STRAIGHT Z-SHAPED BASE Z0 0 MM OFFSET		6063	1,55	PALLET	160	1200 x 800 x 600	248 Kg	0,576
	32957	INCLINED Z-SHAPED BASE Z0 0 MM OFFSET		6063	1,55	PALLET	160	1200 x 800 x 600	248 Kg	0,576
	33539	STRAIGHT Z-SHAPED BASE Z0 100 MM OFFSET		6063	1,62	PALLET	160	1200 x 800 x 600	259,20 Kg	0,576
	32958	INCLINED Z-SHAPED BASE Z0 100 MM OFFSET		6063	1,62	PALLET	160	1200 x 800 x 600	259,20 Kg	0,576
	33540	STRAIGHT Z-SHAPED BASE Z0 160 MM OFFSET		6063	1,80	PALLET	160	1200 x 800 x 600	288 Kg	0,576
	32959	INCLINED Z-SHAPED BASE Z0 160 MM OFFSET		6063	1,80	PALLET	160	1200 x 800 x 600	288 Kg	0,576
	32931	STRAIGHT METAL DECK MOUNTING SYSTEM		6063	2,05	PALLET	72	1200 x 1000 x 1200	147,60 Kg	1,44
	32932	INCLINED METAL DECK MOUNTING SYSTEM		6063	2,13	PALLET	54	1200 x 1000 x 1200	115,02	1,44
	34874	STRAIGHT D300-POST		6063	1,61	PALLET	50	1200 x 800 x 600	80,5	0,576
	35145	INCLINED D300-POST		6063	1,62	PALLET	50	1200 x 800 x 600	81	0,576
	35142	STRAIGHT D400-POST		6063	1,89	PALLET	50	1200 x 800 x 600	94,5	0,576
	35146	INCLINED D400-POST		6063	1,91	PALLET	50	1200 x 800 x 600	95,5	0,576
	35144	STRAIGHT D500-POST		6063	2,18	PALLET	50	1200 x 800 x 600	109	0,576
	35147	INCLINED D500-POST		6063	2,20	PALLET	50	1200 x 800 x 600	110	0,768


















## COMPONENT REFERENCE

BASES	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	35148	STRAIGHT BE300-POST		6063	7,27	PALLET	50	1200 x 800 x 800	363,5	0,768
	35145	INCLINED BE300-POST		6063	7,29	PALLET	50	1200 x 800 x 800	364,5	0,768
	35142	STRAIGHT BE400-POST		6063	7,56	PALLET	50	1200 x 800 x 800	378	0,768
	35146	INCLINED BE400-POST		6063	7,57	PALLET	50	1200 x 800 x 800	378,5	0,768
	35144	STRAIGHT BE500-POST		6063	7,85	PALLET	50	1200 x 800 x 800	392,5	0,768
	35147	INCLINED BE500-POST		6063	7,86	PALLET	50	1200 x 800 x 800	393	0,768

ACCESSORIES	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	32571	COUNTERWEIGHT 12.5 KG		Hormigón pp	12,5	PALLET	84	1000 x 1000 x 1000 mm	1200	1
	32901	T23		PA6MIF-VUV	0,2	BOX	100	400 x 400 x 200	12	0,032
	33261	TOE BOARD PROFILE H180 MM L3000 MM		6063	2,79	PALLET	100	3000 x 1200 x 400	279	1,44
	33008	TOE BOARD CONNECTION		6063	0,14	BOX	50	200 x 200 x 200	7	0,008
	33013	TOE BOARD SUPPORT		6063	0,10	BOX	50	200 x 200 x 200	5	0,008
	33012	TOE BOARD SUPPORT FOR METAL DECK		6063	0,11	BOX	50	200 x 200 x 200	5,5	0,008
	33011	TOE BOARD BRACKET KIT FOR D-POST		6063	0,52	BOX	50	200 x 200 x 200	16	0,008
	33007	TOE BOARD BRACKET		Magnelis	0,14	BOX	50	200 x 200 x 200	7	0,008
	32905	HANDRAIL PLUG Ø47 MM		PP UV	0,01	BOX	100	200 x 200 x 200	3	0,008
	33083	KNEE-RAIL PLUG Ø35 MM		PP UV	-	BOX	100	200 x 200 x 200	3	0,008
	32915	HANDRAIL ANGLE Ø47		PA6 MI UV	0,12	BOX	100	400 x 400 x 200	12	0,032
	32916	KNEE-RAIL ANGLE Ø35		PA6 MI UV	-	BOX	100	400 x 400 x 200	12	0,032



## COMPONENT REFERENCE

ACCESORIOS	REF.	NAME	VISUAL	MATERIAL	UNIT WEIGHT	PACKAGING	QUANTITY PER BATCH	DIMENSIONS	BATCH WEIGHT	VOLUME M3
	33004	HANDRAIL WALL CONNECTORS Ø47 MM		PP UV	0,10	BOX	50	200 x 200 x 200	5	0,008
	33005	KNEE-RAIL WALL CONNECTORS Ø35 MM		PP UV	0,10	BOX	50	200 x 200 x 200	5	0,008
	33213	ROUND-HEADED SCREW M8		Inox A2	-	BOX	500	200 x 200 x 200	-	0,008
	33222	SELF-DRILLINGSCREW Ø4.8 x 32 MM		Inox A2	-	BOX	500	200 x 200 x 200	-	0,008
	33223	SELF-DRILLINGSCREW Ø4.8 x 50 MM		Inox A2	-	BOX	500	200 x 200 x 200	-	0,008
	33173	DBS2 SCREW		Inox A2	-	BOX	500	200 x 200 x 200	-	0,008
	33172	SEALING BOW WASHER		EPDM	-	BOX	500	200 x 200 x 200	-	0,008
	34023	LADDER / GUARDRAIL JUNCTION KIT		6063	3,28	PALLET	5	300 x 1200 x 400	16,4	1,44
	34005	SKYLIGHT PROTECTION KIT 1200		-	122,56	PALLET	1	300 x 1200 x 400		1,44
	34006	SKYLIGHT PROTECTION KIT 1200 WITH SAFETY GATE		-	168,88	PALLET	1	300 x 1200 x 400		1,44
	34011	SKYLIGHT PROTECTION KIT 1700		-	156,38	PALLET	1	300 x 1200 x 400		1,44
	34012	SKYLIGHT PROTECTION KIT 1700 WITH SAFETY GATE		-	212,29	PALLET	1	300 x 1200 x 400		1,44
	34017	SKYLIGHT PROTECTION KIT 2200		-	261,38	PALLET	1	300 x 1200 x 400		1,44
	34018	SKYLIGHT PROTECTION KIT 2200 WITH SAFETY GATE		-	241,18	PALLET	1	300 x 1200 x 400		1,44
	34401	SEALING KIT FOR TOP FIX BASE		6063	1	BOX				
	35960	SAFETY GATE H550 MM		S235	1,79	PALET				
	35965	SAFETY GATE CONVERSION KIT FOR FIXING ON EdgeSafe UPRIGHT		S235	0,29	PALET				



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