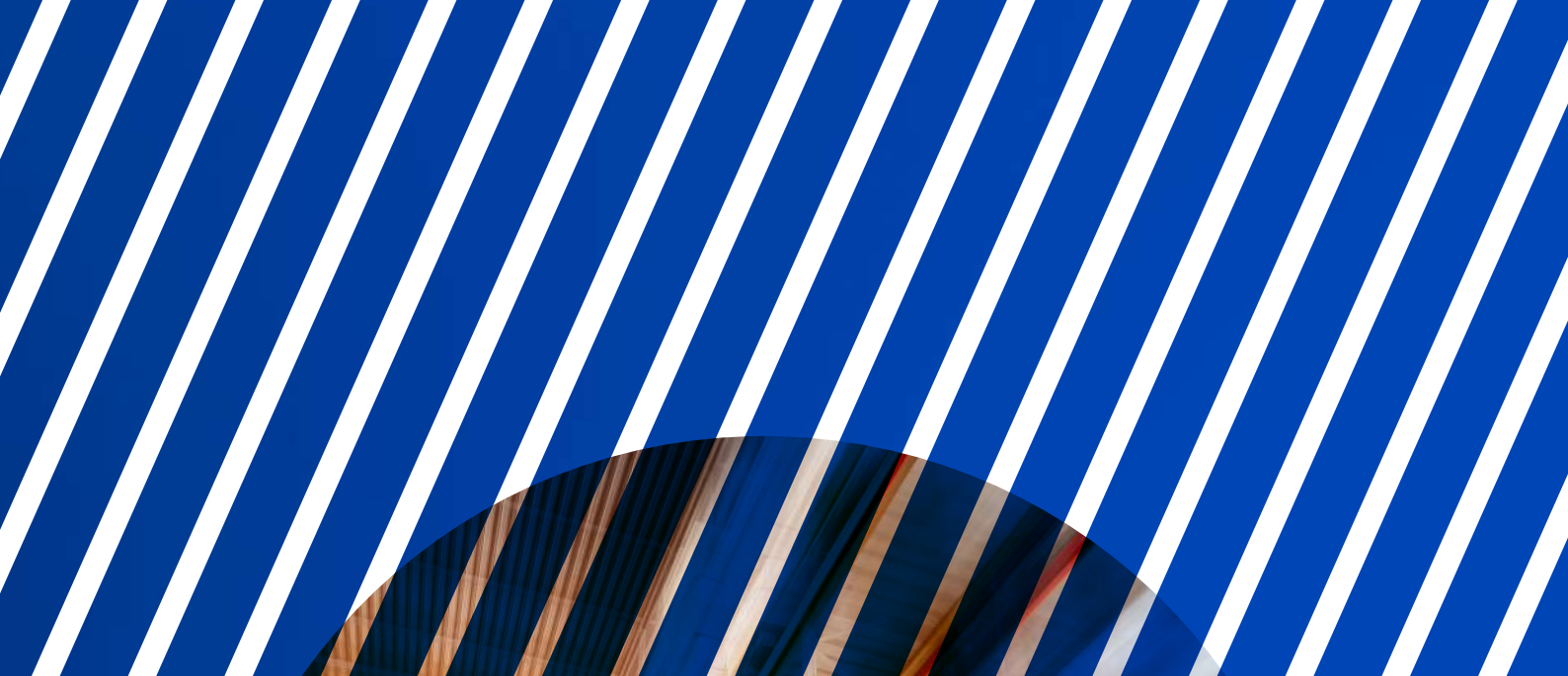


Protection systems and profiles





Technology
Design
Safety
Adaptability
Performance
Profitability



Bernad[®]



BOLLARDS AND SAFETY BARRIERS



The **bollards and barriers** are designed to protect walls, doors, columns, racking, etc. from accidental impacts.

Depending on how the facility is used, each product is available in different versions, which can be made more robust if required.

They are manufactured in polyethylene and polypropylene, both of which comply with food-contact material regulations.



Effective protection



Simple installation



Maintenance-free



Easily replaceable



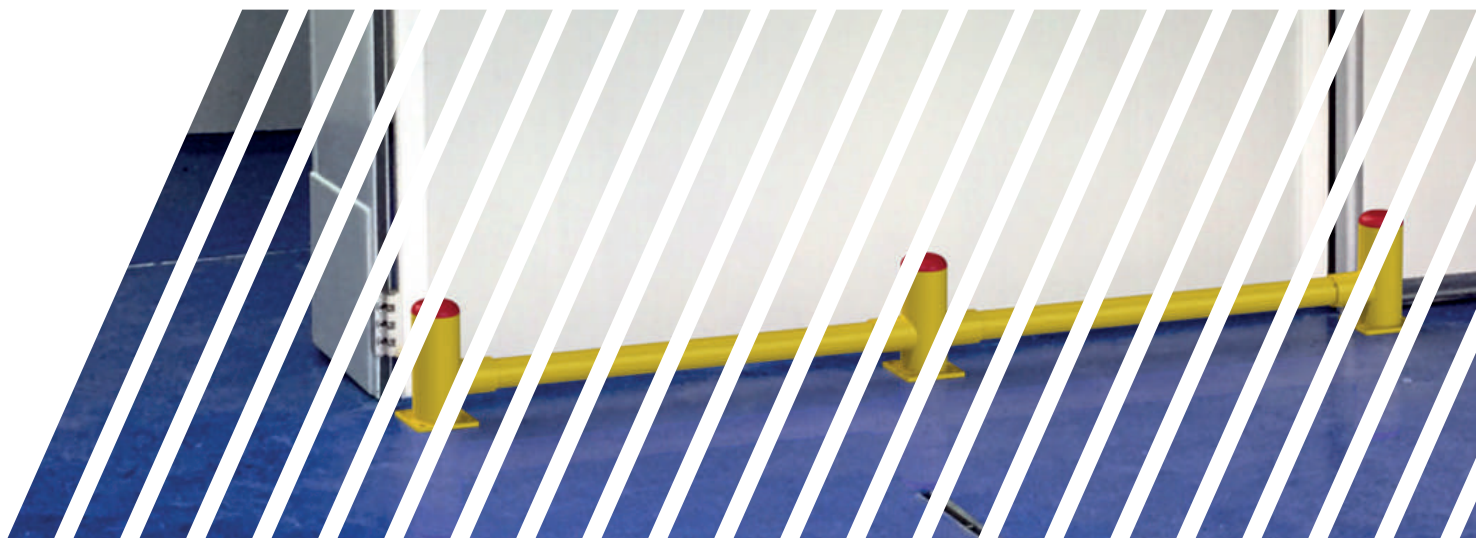
Adjustable spacing between bollards



High visibility



Easy to clean



BASIC RANGE

technical data sheet



Made
in Spain

The Basic range is intended for facilities where the loads handled are not especially heavy and where material is moved mainly with manual pallet trucks.

Features:

- Effective protection
- Zero maintenance
- Adjustable spacing between bollards
- Simple installation, within reach of any user
- Easily replaceable
- High visibility thanks to its colors



SOLID FILL

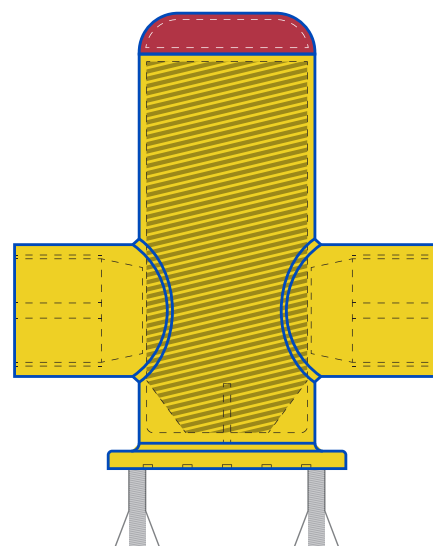
Solid fill made of rubber and a resin blend. Absorbs the impact loads.

POLYPROPYLENE SHELL

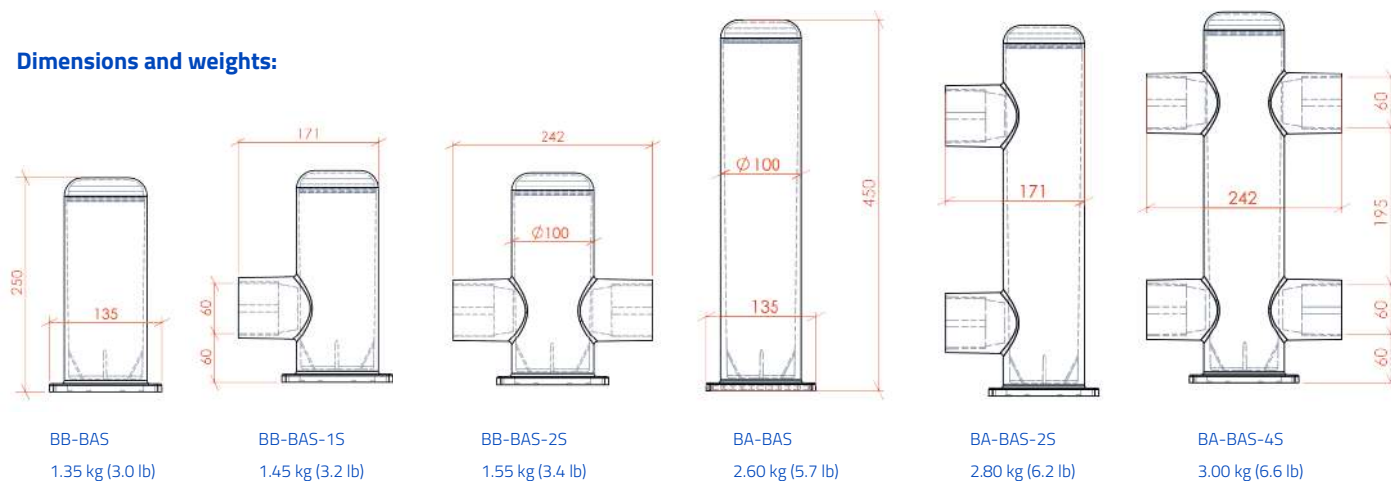
Injection-molded polypropylene, giving the shell its elasticity. High visibility thanks to its bright colors.

ANCHORING

Easily installed using 4 M10 expansion anchors.



Dimensions and weights:



Recommended for:

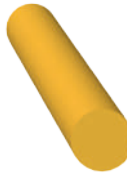


RAIL / BOLLARD CONNECTION DETAIL



Short bollards		
H = 250mm Ø100mm		
	Short bollard	BB-BAS
	Short bollard 1 outlet	BB-BAS-1S
	Short bollard 2 outlets	BB-BAS-2S

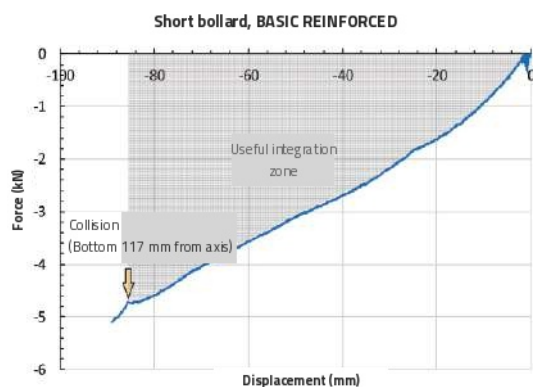
Tall bollards		
H = 450mm Ø100mm		
	Tall bollard	BA-BAS
	Tall bollard 2 outlets	BA-BAS-2S
	Tall bollard 4 outlets	BA-BAS-4S

Tubes			
	Tube e=4mm	DSC-1000	Ø61mm L: 1m
		DSC-1500	L: 1.5m
	Solid bumper	DFM-750	L: 0.75m
		DFM-1000	L: 1.2m
		DFM-1500	L: 1.5m

BOLLARD IMPACT RESISTANCE TEST, BASIC RANGE.

The tests were cantilever bending tests performed on a universal testing machine.

The load was applied 200 mm (7.9") above the base, with a maximum allowable deflection of 117 mm (4.6") from the axis of the parts, which corresponds to the clearance between the bollards and the walls or doors being protected.

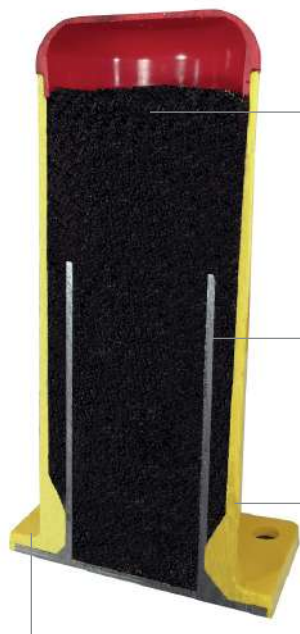


Load-displacement curve from the test

BASIC range bollards can efficiently stop a pallet truck loaded to a total of 666 kg (1,469 lb) traveling at 3 km/h (1.9 mph) (average of 4 tests), without the bollard deflecting far enough to damage the vertical wall surface.



The TOP range is used in facilities with a **considerable movement of loads**, handled with manual pallet trucks and stackers. Its **great versatility** allows any element to be protected with bollards or barriers. In addition to its robustness, it stands out for its **easy installation and zero maintenance**.



SOLID FILL

Solid fill made of rubber and a resin blend.
Cushions the impact loads and transfers them to the core.

HIGH-QUALITY CORE

AISI 304 stainless steel frame,
4 mm (0.16") base and 2 mm (0.08") walls.
Thanks to the mechanical properties of the material and its geometry, it gives the assembly outstanding strength, withstanding heavy impacts.

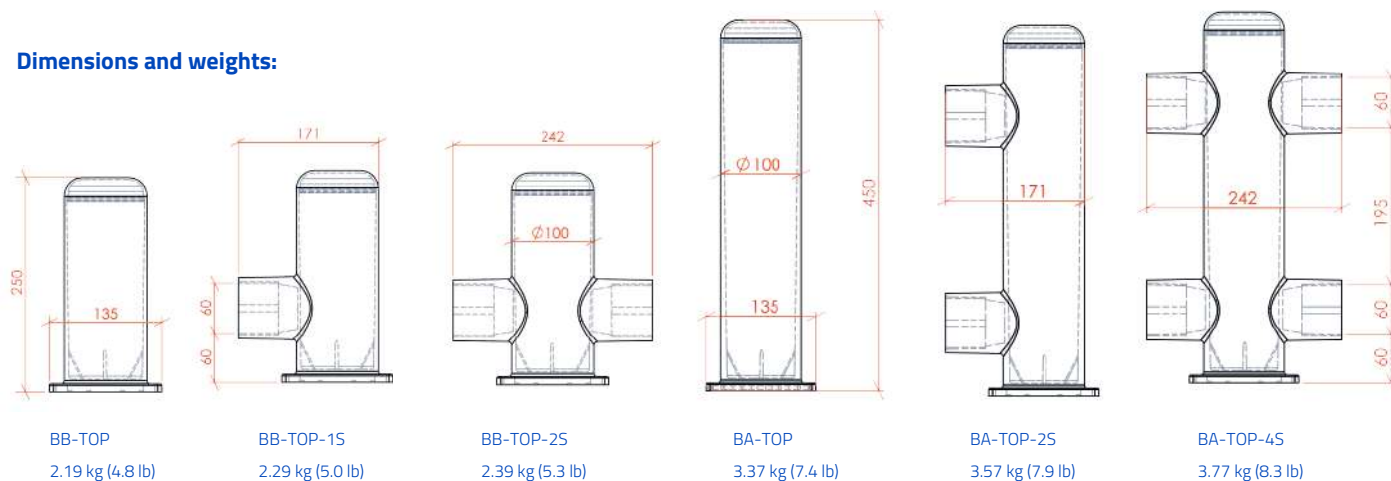
POLYPROPYLENE SHELL

Injection-molded polypropylene, giving the shell its elasticity. High visibility thanks to its bright colors.

ANCHORING

Easily installed using 4
M10 expansion anchors.

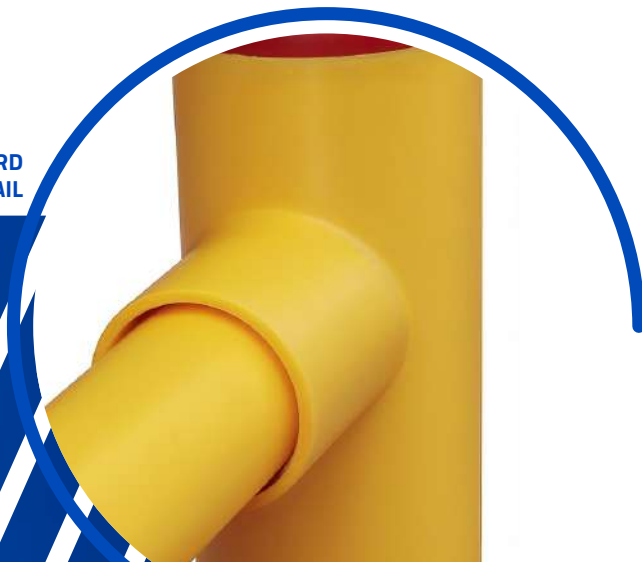
Dimensions and weights:



Recommended for:

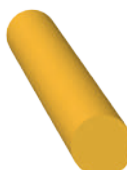


RAIL / BOLLARD CONNECTION DETAIL



Short bollards		
H = 250mm Ø100mm		
	Short bollard	BB-TOP
	Short bollard 1 outlet	BB-TOP-1S
	Short bollard 2 outlets	BB-TOP-2S

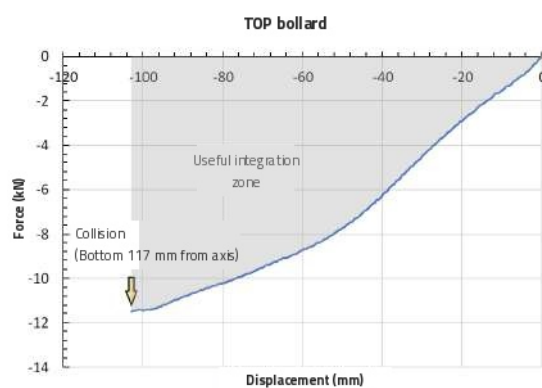
Tall bollards		
H = 450mm Ø100mm		
	Tall bollard	BA-TOP
	Tall bollard 2 outlets	BA-TOP-2S
	Tall bollard 4 outlets	BA-TOP-4S

Tubes			
	Tube e=4mm	DSC-1000	Ø61mm L: 1m
		DSC-1500	L: 1.5m
	Solid bumper	DFM-750	L: 0.75m
		DFM-1000	L: 1.2m
		DFM-1500	L: 1.5m

BOLLARD IMPACT RESISTANCE TEST, TOP RANGE.

The tests were cantilever bending tests performed on a universal testing machine.

The load was applied 200 mm (7.9") above the base, with a maximum allowable deflection of 117 mm (4.6") from the axis of the parts, which corresponds to the clearance between the bollards and the walls or doors being protected.



Load-displacement curve from the test

TOP range bollards can efficiently stop a forklift or pallet jack loaded to a total of 1,972 kg (4,348 lb) traveling at 3 km/h (1.9 mph) (average of 4 tests), without the bollard deflecting far enough to damage the vertical wall surface.



PLUS RANGE

technical data sheet



Made
in Spain



The PLUS range is used in facilities with a **movement of heavy loads** at high speeds.

Its **great versatility** allows any element to be protected with bollards or barriers.

It is designed so that, when it receives a force greater than its own resistance, the rod bends without damaging the floor or the anchor. The rod is therefore **easily replaceable** with no construction work required.



HIGH-QUALITY CORE

Class 8.8 steel rod, $\varnothing$ 30 mm (1.18"), gives the assembly outstanding mechanical properties.

SOLID FILL

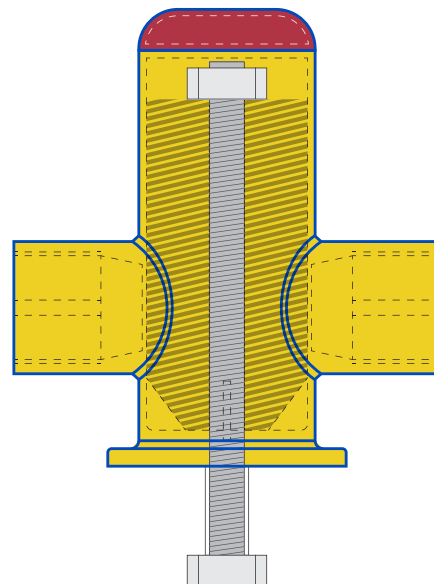
Solid fill made of rubber and a resin blend. Cushions and distributes the impact loads to the core.

POLYPROPYLENE SHELL

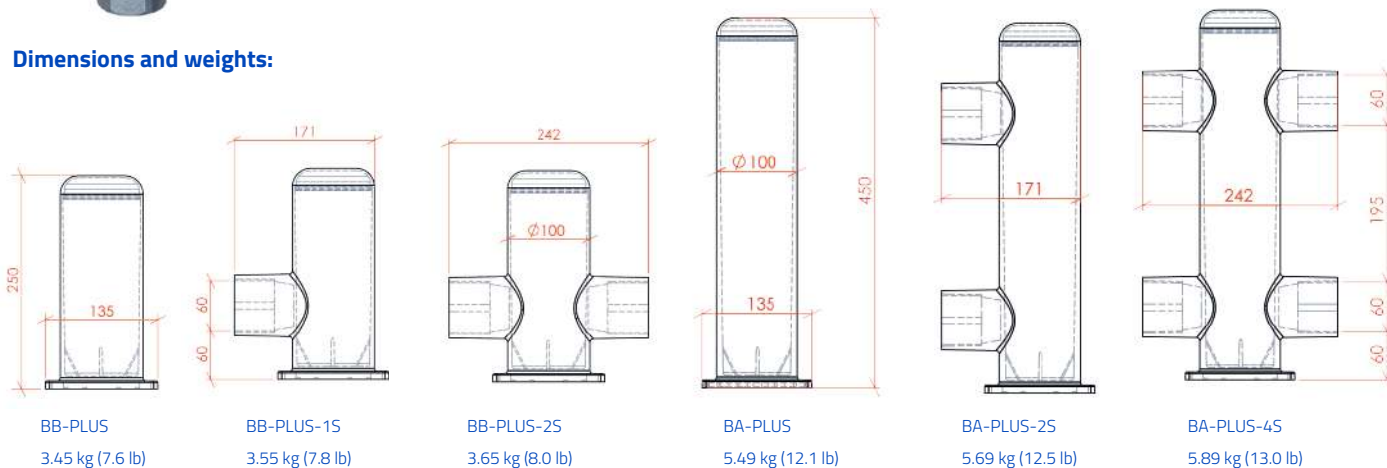
Injection-molded polypropylene, giving the shell its elasticity.

ANCHORING

Anchoring system made up of a PVC housing and a metal nut to secure the rod. Stud length 125 mm (4.9").



Dimensions and weights:

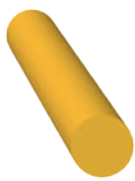


Recommended for:



Short bollards		
H = 250mm Ø100mm		
	Short bollard	BB-PLUS
	Short bollard 1 outlet	BB-PLUS-1S
	Short bollard 2 outlets	BB-PLUS-2S

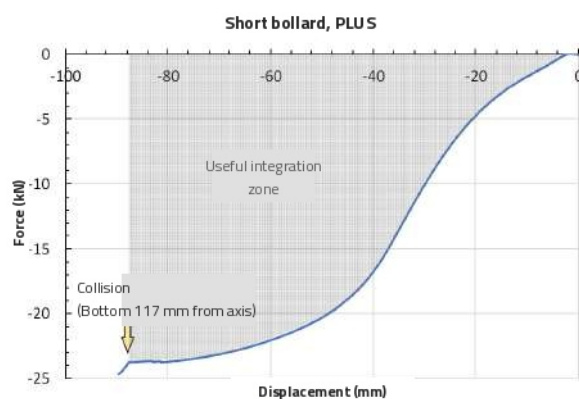
Tall bollards		
H = 450mm Ø100mm		
	Tall bollard	BA-PLUS
	Tall bollard 2 outlets	BAB-PLUS-2S
	Tall bollard 4 outlets	BA-PLUS-4S

Tubes			
	Tube	DSC-1000	Ø61mm L: 1m
		e=4mm	L: 1.5m
	Solid bumper	DFM-750	L: 0.75m
		DFM-1000	L: 1.2m
		DFM-1500	L: 1.5m

BOLLARD IMPACT RESISTANCE TEST, PLUS RANGE.

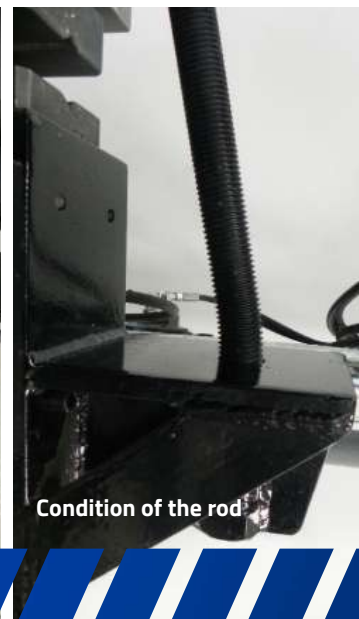
The tests were cantilever bending tests performed on a universal testing machine.

The load was applied 185 mm (7.3") above the base, with a maximum allowable deflection of 117 mm (4.6") from the axis of the parts, which corresponds to the clearance between the bollards and the walls or doors being protected.



Resulting impact resistance test diagram

PLUS range bollards can efficiently stop a forklift loaded to a total of about 3,705 kg (8,168 lb) traveling at 3 km/h (1.9 mph), without the bollard deflecting far enough to damage the vertical wall surface.



ULTRA 1000 RANGE

technical data sheet

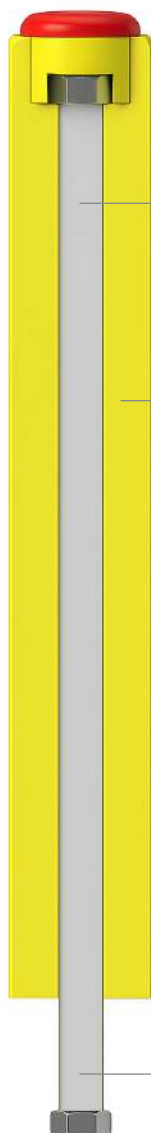


Made
in Spain

The ULTRA 1000 range is used in facilities with a **movement of heavy loads** at high speeds.

Its **great versatility** allows any element to be protected with bollards.

It is designed so that, when it receives a force greater than its own resistance, the rod bends without damaging the floor or the anchor. The rod is therefore **easily replaceable** with no construction work required.



HIGH-QUALITY CORE

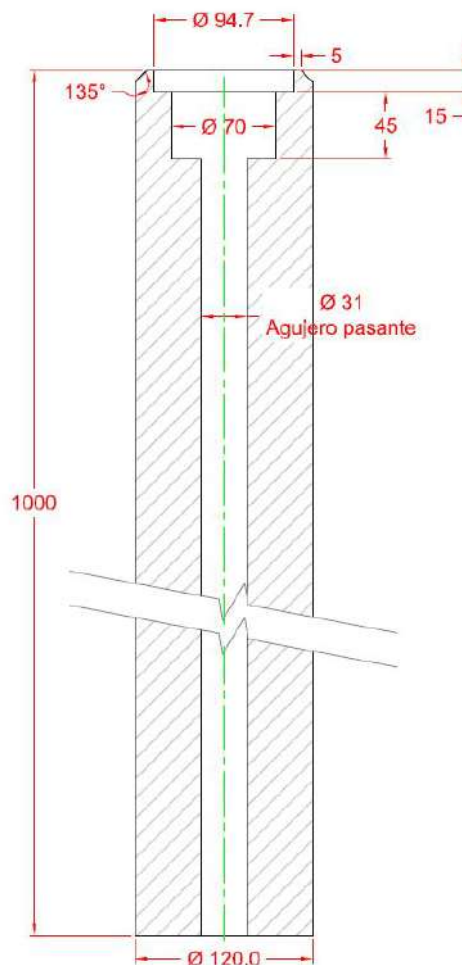
Class 8.8 steel rod, $\varnothing 30$ mm (1.18"), that gives the assembly outstanding mechanical properties.

SOLID BODY

Solid high-density polyethylene bollard, 120 mm (4.7") in diameter and 1000 mm (39.4") tall.

ANCHORING

Anchoring system made up of a PVC housing and a metal nut to secure the rod. Stud length 150 mm (5.9").



Recommended for:



ULTRA 500 RANGE

technical data sheet

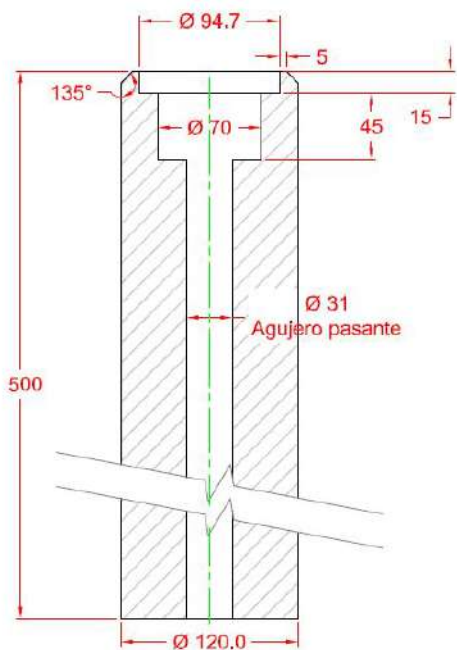


Made
in Spain

The ULTRA 500 range is used in facilities with a **movement of heavy loads** at high speeds.

Its **great versatility** allows any element to be protected with bollards.

It is designed so that, when it receives a force greater than its own resistance, the rod bends without damaging the floor or the anchor. The rod is therefore **easily replaceable** with no construction work required.



HIGH-QUALITY CORE

Class 8.8 steel rod, $\varnothing 30$ mm (1.18"), that gives the assembly outstanding mechanical properties.

SOLID BODY

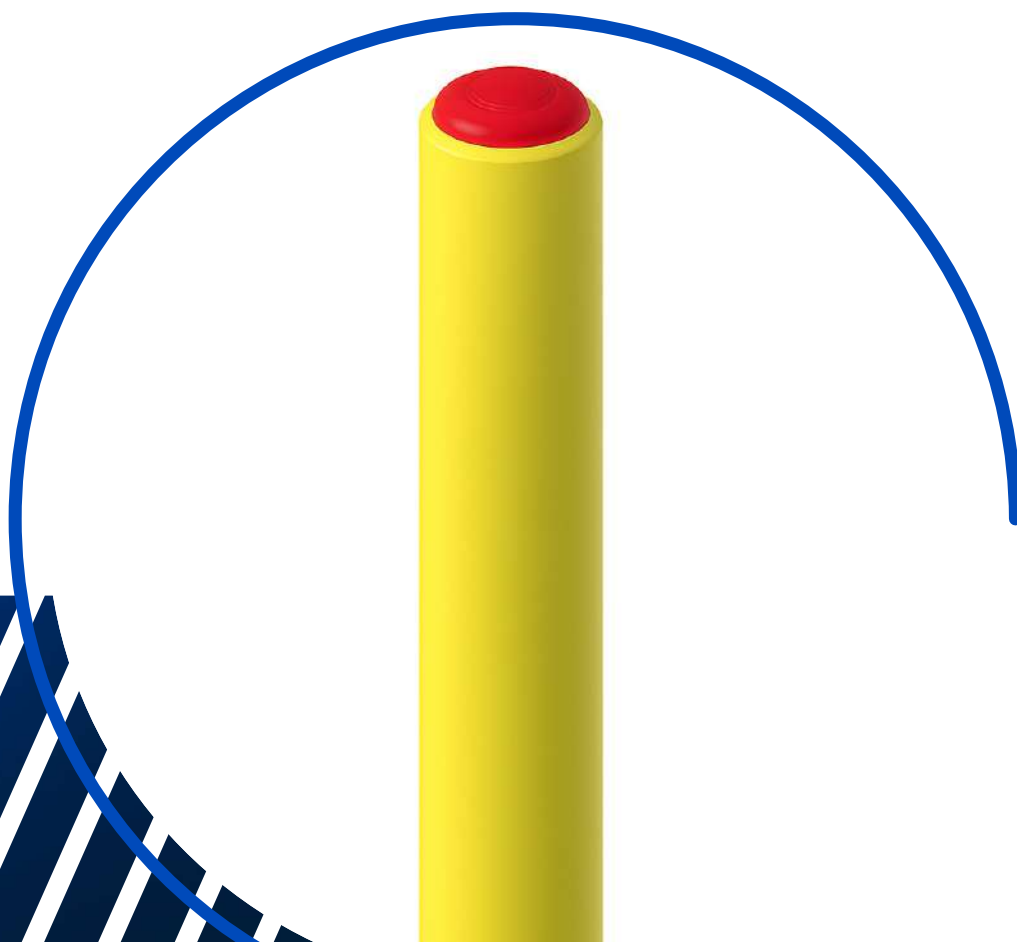
Solid high-density polyethylene bollard, 120 mm (4.7") in diameter and 500 mm (19.7") tall.

ANCHORING

Anchoring system made up of a PVC housing and a metal nut to secure the rod. Stud length 150 mm (5.9").



Recommended for:



SOLID BARRIERS

technical data sheet

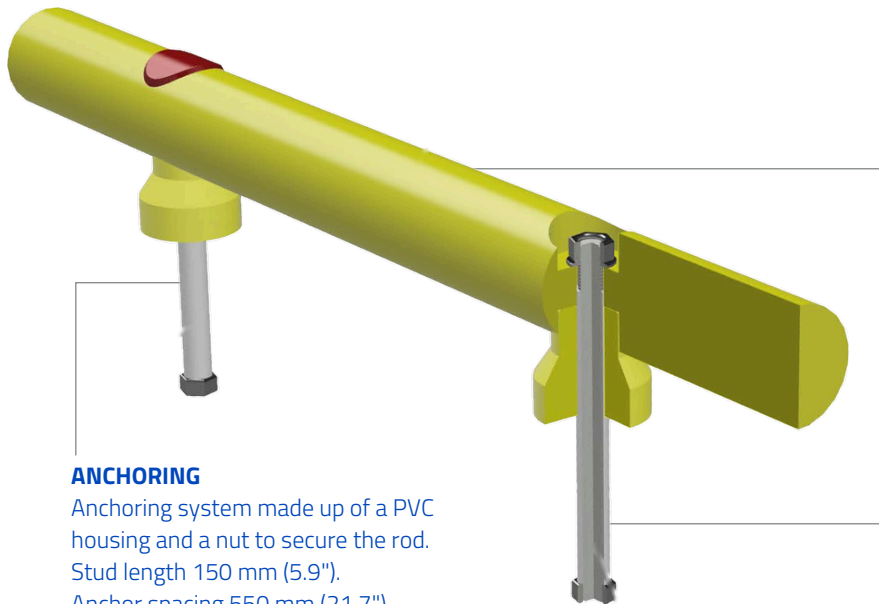


Made
in Spain

The solid safety barrier range is intended for areas requiring maximum protection.

Thanks to their design and material quality, these protection systems have a **great capacity to absorb impacts** and transfer them to the floor, preventing damage to panels, doors, people, machinery, etc.

The strength these barriers provide does not come at the expense of appearance: the "clean", continuous lines that describe the assembly, together with high-visibility colors, give the installation a **great look**.



SOLID POLYETHYLENE (APM500)

Good stiffness, impact strength, torsional strength and tensile strength.

ANCHORING

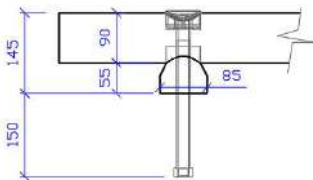
Anchoring system made up of a PVC housing and a nut to secure the rod.
Stud length 150 mm (5.9").
Anchor spacing 550 mm (21.7").

HIGH-QUALITY THROUGH CORE

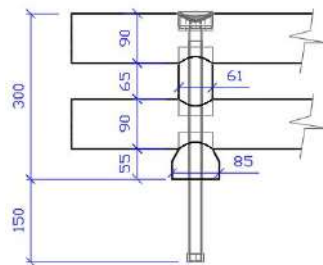
Class 8.8 steel rod, Ø 20 mm (0.79"), gives the assembly outstanding mechanical properties.

FORMATS

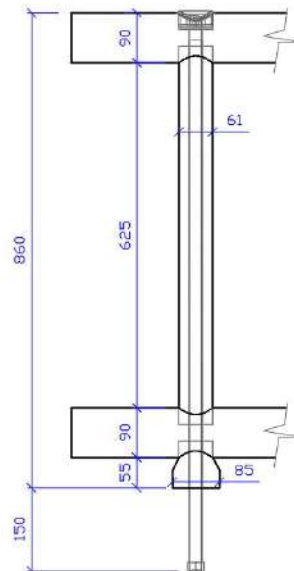
Single barrier



Double barrier



Guardrail



FOOD
GRADE



NO
MAINTENANCE



EASILY
REPLACEABLE

Recommended for:



Model	Length	Number of feet
BP50	500mm	2
BP75	750mm	2
BP100	1000mm	2
BP150	1500mm	3
BP200	2000mm	4

Standard heights: 145 mm, 300 mm and 860 mm (other sizes made to order).
Types: single barrier, double barrier and guardrail.

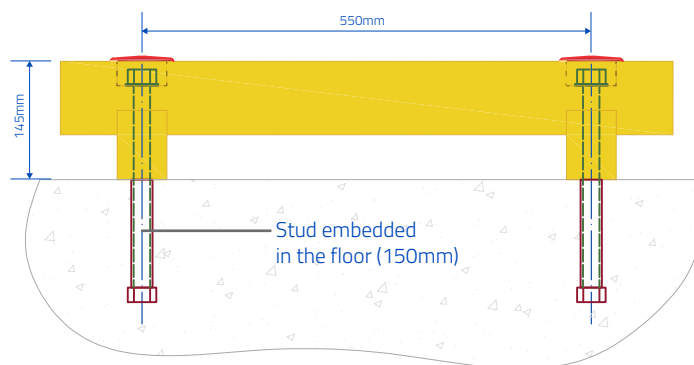


TABLE OF AVAILABLE WEIGHTS AND LENGTHS

FORMATS	AVAILABLE LENGTHS (mm)				
	500	750	1000	1500	2000
SINGLE BARRIER	4.90 kg	6 kg	8 kg	12 kg	16.20 kg
DOUBLE BARRIER	9 kg	12 kg	15.6 kg	23 kg	30 kg
GUARDRAIL	14.80 kg	17 kg	20.60 kg	30.90 kg	41.15 kg

TECHNICAL PROPERTIES OF APM500 POLYETHYLENE

General properties	Test method	Unit	Value
Density	DIN EN ISO 1183-1	g/cm ³	96
Water absorption	DIN EN ISO 62	%	<0.01
Flammability (3/6 mm thickness)	UL 94		HB
Mechanical properties			
Tensile strength	DIN EN ISO 527	N/mm ²	27
Elongation	DIN EN ISO 527	%	>50
Elastic modulus	DIN EN ISO 527	MPa	1200
Impact strength	DIN EN ISO 179	kJ/m ²	No break
Hardness	DIN EN ISO 868	Shore D scale	65
Thermal properties			
Melting temperature	ISO 11357-3	°C	135
Thermal conductivity	DIN 52612-1	W/(m*K)	40
Specific heat capacity	DIN 52612	kJ/(kg*K)	190
Linear thermal expansion coeff.	DIN 53752	10 ⁻⁶ K ⁻¹	150-230
Service temperature range (long term)	Average	°C	-100...80
Service temperature range (short term)	Average	°C	100
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	79

The barriers are made of APM-500 polyethylene. This is an ethylene-1-hexene copolymer compound with additives and it complies with the requirements of Regulation (EC) 1935/2004 and Regulation (EU) 10/2011 of January 14, 2011 on materials and articles intended to come into contact with food, developed specifically for plastics in Directive 2002/72 and its subsequent amendments. These directives are transposed into Spanish legislation through Royal Decree 866/2008.

Based on all of the above, this material may be used in contact with any type of food.

IMPACT RESISTANCE TEST, SOLID SAFETY BARRIERS

The tests were cantilever bending tests performed on a universal testing machine.

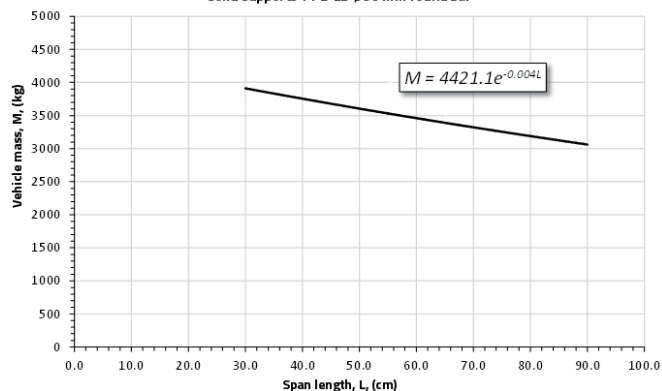
The load was applied 100 mm (3.9") above the base, with a maximum allowable deflection of 100 mm (3.9") from the axis of the parts, which corresponds to the clearance between the barrier and the walls or doors being protected.



RESULTING IMPACT RESISTANCE TEST DIAGRAM

Solid barriers can efficiently stop a forklift loaded to a total of about 4,421 kg (9,747 lb) traveling at 3 km/h (1.9 mph), without the barrier deflecting far enough to damage the vertical wall surface.

Maximum vehicle mass, at a speed of 3 km/h (1.9 mph), to
produce a 10 cm (3.9") deflection on an assembly of two
solid supports + PE-LD Ø90 mm round bar



LIGHT BARRIERS

technical data sheet



Made
in Spain

BERNAD's light safety barrier range is designed for installation in traffic areas where the weight of the goods is not excessively high and where they are moved with a manual pallet truck or an electric stacker.

The best solution for protecting any wall or object, thanks to its flexibility on impact.

The high level of protection these barriers provide does not come at the expense of appearance: the "clean", continuous lines that describe the assembly, together with high-visibility colors, **give the installation a great look**.



MODULAR DESIGN

The tubes can be assembled to form barriers of unlimited length.

EASILY REPLACEABLE

If a section breaks, only the damaged section needs to be replaced.

ANCHORING

Anchoring system made up of a PVC housing and a nut to secure the rod. Stud length 150 mm (5.9"). Anchor spacing 550 mm (21.7").

HIGH-QUALITY FINISHES

Recommended for:



DIMENSIONS

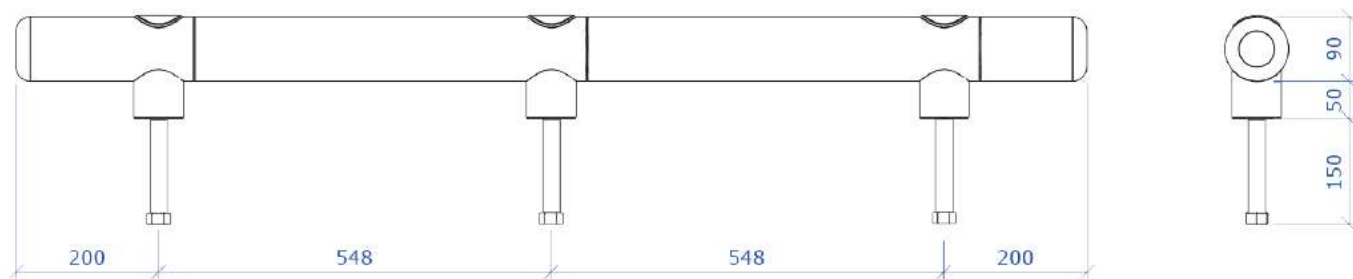


TABLE OF WEIGHTS AND LENGTHS

Model	Length	Number of feet	Weight
BL950	950mm	2	4.1 kg
BL1500	1500mm	3	6.22 kg
BL2050	2050mm	4	8.34 kg
BL2600	2600mm	5	10.46 kg
BL3150	3150mm	6	12.58 kg
BL3700	3700mm	7	14.7 kg
BL4250	4250mm	8	16.82 kg
BL4800	4800mm	9	18.94 kg
BL5350	5350mm	10	21.06 kg



FOOD
GRADE



NO
MAINTENANCE



EASILY
REPLACEABLE

LIGHT DOUBLE BARRIERS

technical data sheet

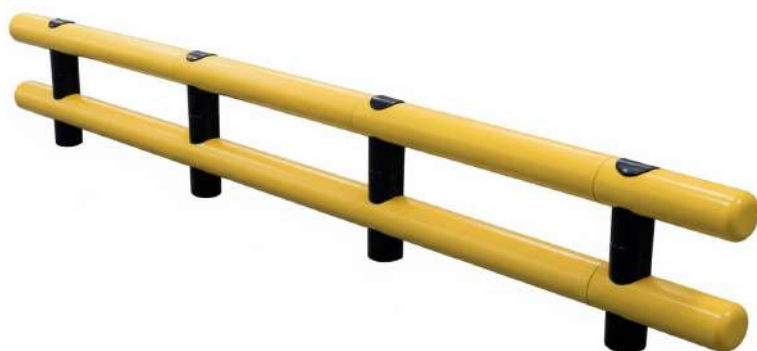


Made
in Spain

BERNAD's light double safety barrier range is designed for installation in traffic areas where the weight of the goods is not excessively high and where they are moved with a manual pallet truck or an electric stacker.

The best solution for protecting any wall or object, thanks to its flexibility on impact.

The high level of protection these barriers provide does not come at the expense of appearance: the "clean", continuous lines that describe the assembly, together with high-visibility colors, **give the installation a great look**.



MODULAR DESIGN

The tubes can be assembled to form barriers of unlimited length.

EASILY REPLACEABLE

If a section breaks, only the damaged section needs to be replaced.

ANCHORING

Anchoring system made up of a PVC housing and a nut to secure the rod.
Stud length 150 mm (5.9").
Anchor spacing 548 mm (21.6").

HIGH-QUALITY FINISHES

Recommended for:



DIMENSIONS

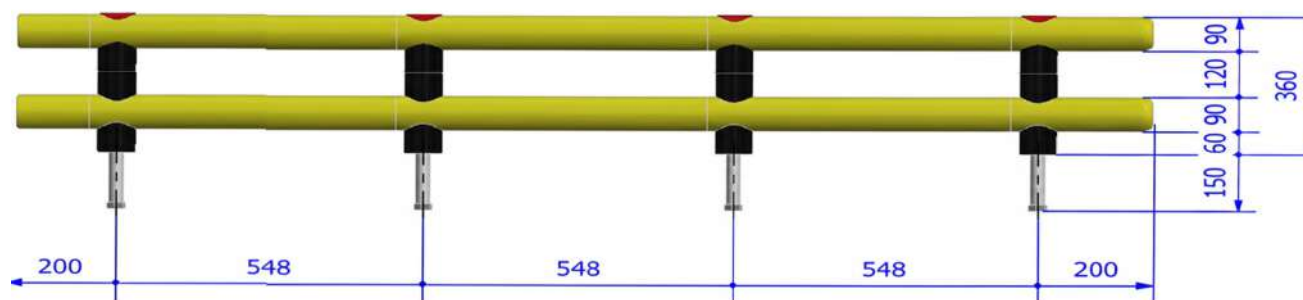


TABLE OF WEIGHTS AND LENGTHS

Model	Length	Number of feet	Weight
BLD950	950mm	2	6.08 kg
BLD1500	1500mm	3	9.29 kg
BLD2050	2050mm	4	12.49 kg
BLD2600	2600mm	5	15.69 kg
BLD3150	3150mm	6	18.89 kg
BLD3700	3700mm	7	22.1 kg
BLD4250	4250mm	8	25.3 kg
BLD4800	4800mm	9	28.5 kg
BLD5350	5350mm	10	31.7 kg



FOOD
GRADE



NO
MAINTENANCE



EASILY
REPLACEABLE

LIGHT GUARDRAILS

technical data sheet

BERNAD's light double guardrail range is designed for installation in traffic areas where the weight of the goods is not excessively high and where they are moved with a manual pallet truck or an electric stacker.

The best solution for protecting pedestrian traffic, thanks to its flexibility on impact.

The high level of protection these guardrails provide does not come at the expense of appearance: the "clean", continuous lines that describe the assembly, together with high-visibility colors, **give the installation a great look.**



MODULAR DESIGN

The tubes can be assembled to form barriers of unlimited length.

EASILY REPLACEABLE

If a section breaks, only the damaged section needs to be replaced.

ANCHORING

Anchoring system made up of a PVC housing and a nut to secure the rod.
Stud length 150 mm (5.9").
Anchor spacing 548 mm (21.6").

HIGH-QUALITY FINISHES

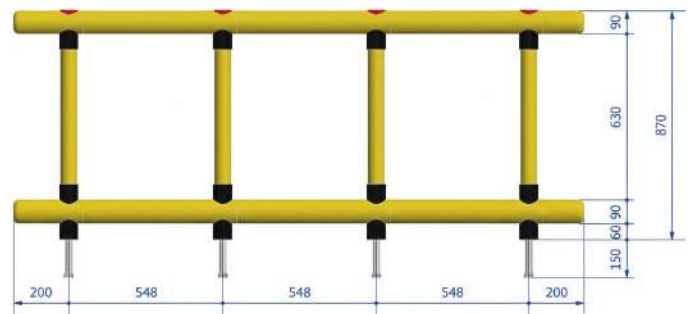
Recommended for:



TABLE OF WEIGHTS AND LENGTHS

Model	Length	Number of feet	Weight
BAL950	950mm	2	7.65 kg
BAL1500	1500mm	3	11.64 kg
BAL2050	2050mm	4	15.62 kg
BAL2600	2600mm	5	19.61 kg
BAL3150	3150mm	6	23.6 kg
BAL3700	3700mm	7	27.58 kg
BAL4250	4250mm	8	31.57 kg
BAL4800	4800mm	9	35.55 kg
BAL5350	5350mm	10	39.54 kg

DIMENSIONS



FOOD
GRADE



NO
MAINTENANCE



EASILY
REPLACEABLE

LIGHT DOUBLE GUARDRAILS

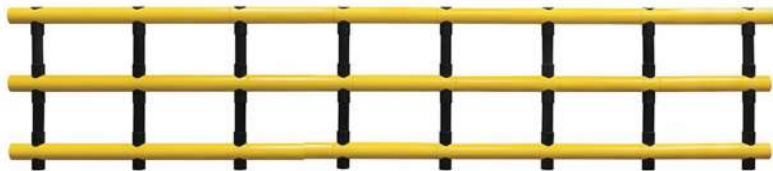
technical data sheet



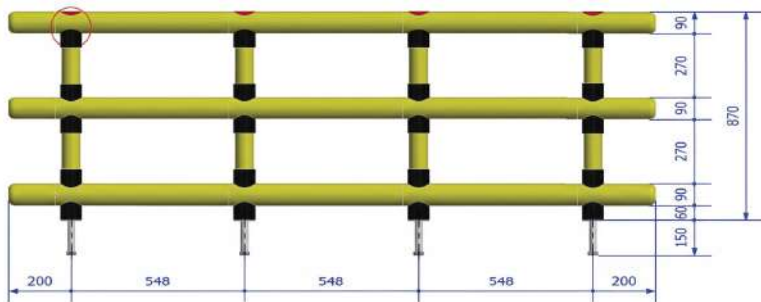
BERNAD's light double guardrail range is designed for installation in traffic areas where the weight of the goods is not excessively high and where they are moved with a manual pallet truck or an electric stacker.

The best solution for protecting pedestrian traffic, thanks to its flexibility on impact.

The high level of protection these guardrails provide does not come at the expense of appearance: the "clean", continuous lines that describe the assembly, together with high-visibility colors, **give the installation a great look.**



DIMENSIONS



MODULAR DESIGN

The tubes can be assembled to form barriers of unlimited length.

EASILY REPLACEABLE

If a section breaks, only the damaged section needs to be replaced.

ANCHORING

Anchoring system made up of a PVC housing and a nut to secure the rod. Stud length 150 mm (5.9"). Anchor spacing 548 mm (21.6").

HIGH-QUALITY FINISHES

Recommended for:



TABLE OF WEIGHTS AND LENGTHS

Model	Length	Number of feet	Weight
BALD950	950mm	2	9.06 kg
BALD1500	1500mm	3	13.83 kg
BALD2050	2050mm	4	18.6 kg
BALD2600	2600mm	5	23.37 kg
BALD3150	3150mm	6	28.15 kg
BALD3700	3700mm	7	32.92 kg
BALD4250	4250mm	8	37.69 kg
BALD4800	4800mm	9	42.46 kg
BALD5350	5350mm	10	47.23 kg



FOOD
GRADE



NO
MAINTENANCE



EASILY
REPLACEABLE

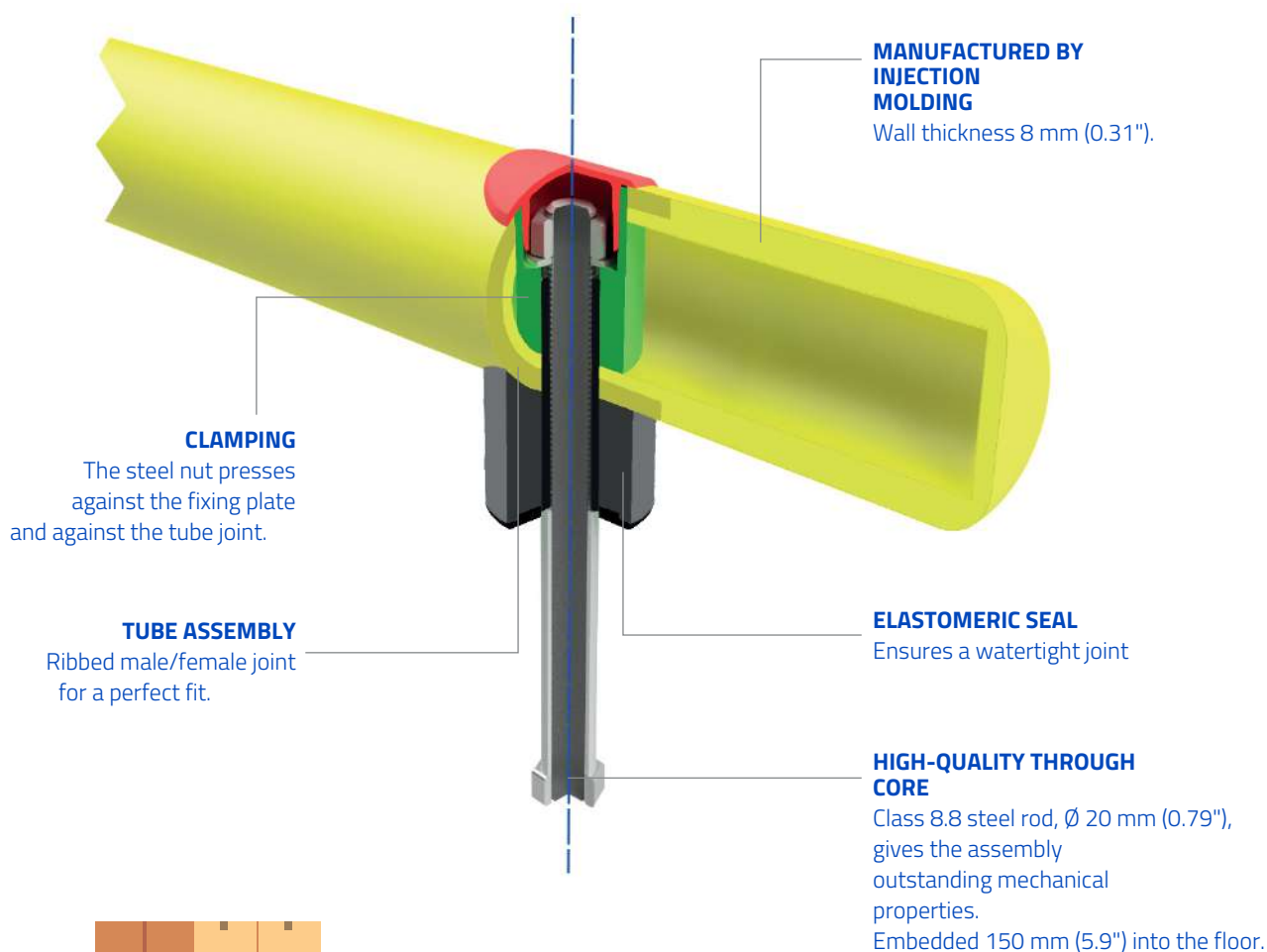


Properties	Method	Value	Unit
PHYSICAL			
Density	ISO 1183	0.9	g/cm ³
Melt flow index	ISO 1133	4	g/10min
MECHANICAL			
Tensile modulus	ISO 527-1,-2	1200	MPa
Tensile stress at yield	ISO 527-1,-2	27	MPa
Tensile strain at break	ISO 527-1,-2	>50	%
Tensile strain at yield	ISO 527-1,-2	7	%
IMPACT			
Charpy impact strength, unnotched	ISO 179		
23°C		No break	kl/m ²
0°C		140	kl/m ²
HARDNESS			
Ball indentation hardness	ISO 2039-1	53	MPa

TECHNICAL PROPERTIES OF POLYPROPYLENE EP300K

The barriers are made of EP300K polypropylene.

This is an ethylene-propylene copolymer compound and it complies with the requirements of Regulation (EC) 1935/2004 and Regulation (EU) 10/2011 of January 14, 2011 on materials and articles intended to come into contact with food.



DOOR PROTECTION

technical data sheet



Made
in Spain

Door protection units are used in facilities with a **movement of heavy loads** at high speeds through doorways.

Their **great versatility** allows any opening to be protected whose dimensions fall within the range of 1.3 to 3 m (4.3 to 9.8 ft) wide and 2 to 4 m (6.6 to 13.1 ft) high. Please inquire for other sizes.

It is designed so that the door protection unit is **easy to transport** thanks to its bolt-together construction.



STEEL TUBE

DIN-2440 steel tube, $\varnothing$ 5", with a wall thickness of 4.85 mm (0.19").

M18 ASSEMBLY

Assembled with stainless steel M18 hardware, included.

SURFACE TREATMENT

Anti-corrosion treatment by hot-dip galvanizing plus an exterior finish of electrostatic powder coating.

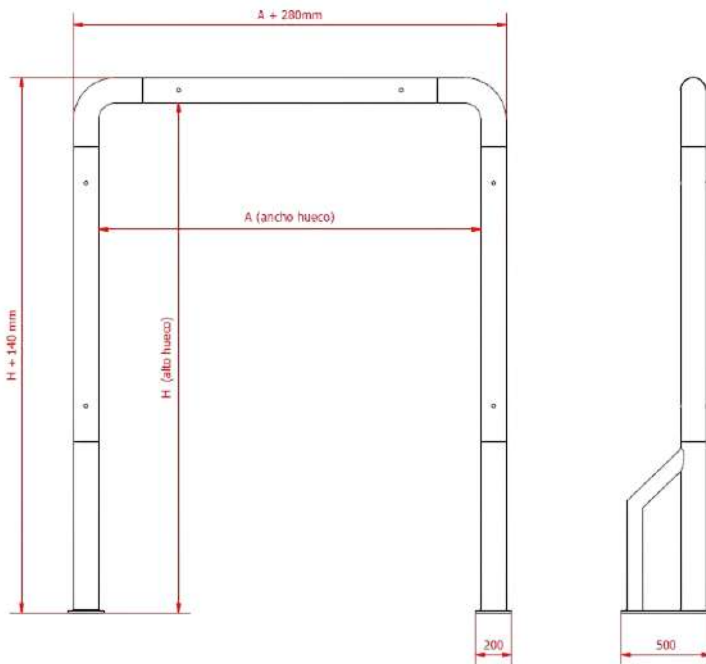
6-POINT ANCHORING

Anchored through 6 points, $\varnothing$ 17.5 mm (0.69"), hardware not included, in a 10 mm (0.39") thick plate.

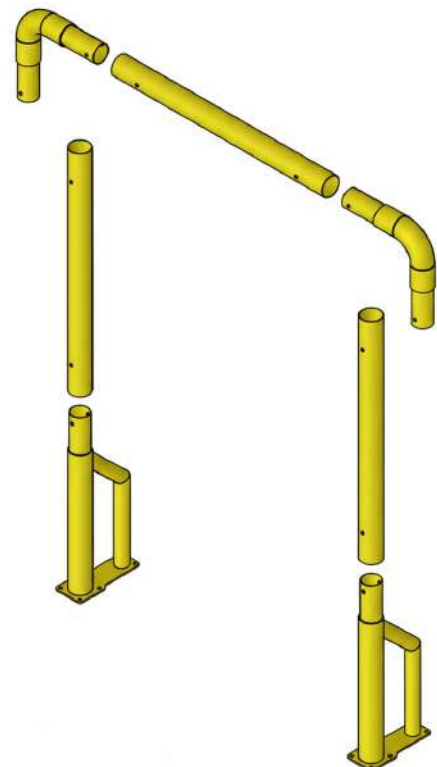
Recommended for:



DIMENSIONS



ASSEMBLY





SKIRTING BOARD

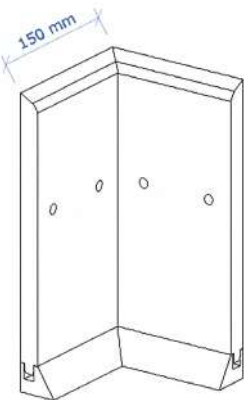
technical data sheet



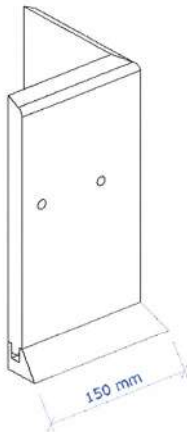
Made of high-density, high-molecular-weight pressed polyethylene.
Highly impact-resistant, highly durable material.
Protects panel walls.
Hygienic component, easy to clean.
Parts are manufactured in different sizes, heights and configurations.
White (please inquire for other colors)



Internal corner



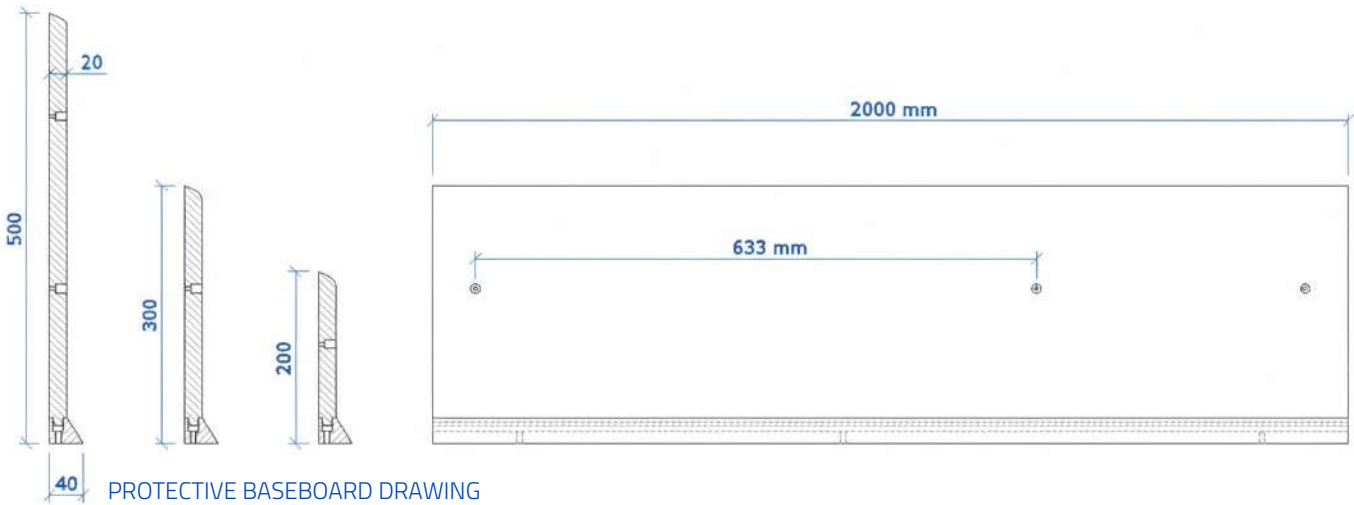
External corner



Tongue-and-groove joint for a perfect fit between parts



DIMENSIONS



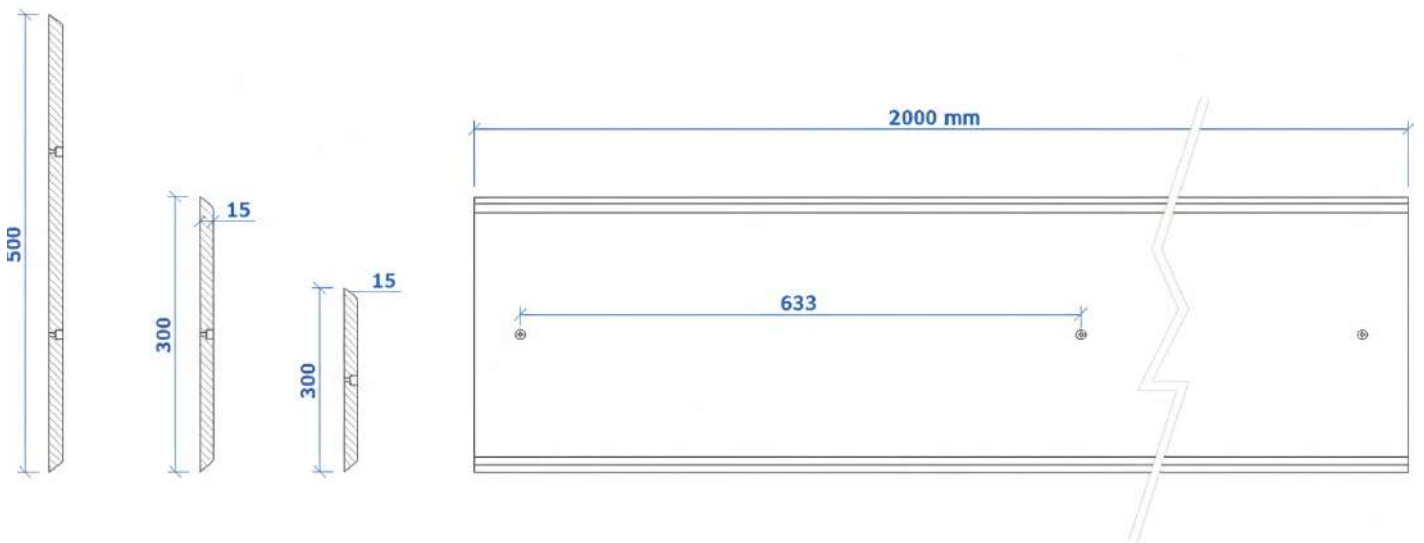
PROTECTIVE BASEBOARD DRAWING

	Length	Height	Thickness
PROTECTIVE BASEBOARD			
ZS200	2000mm	200	20mm
ZS300	2000mm	300	20mm
ZS500	2000mm	500	20mm





WALL PROTECTOR DRAWING



	Length	Width	Thickness
WALL PROTECTION			
PRP200	2000mm	200	15mm
PRP300	2000mm	300	15mm
PRP500	2000mm	500	15mm

Properties	Unit	Method	Value
Density	g/cm ³	ISO 1183-1	0.96
Mechanical properties at 23 °C			
Tensile stress at yield	MPa	ISO 527-1/-2	28
Tensile strain at yield	%	ISO 527-1/-2	10
Modulus of elasticity	MPa	ISO 527-1/-2	1300
Flexural strength	MPa	ISO178	27
Charpy impact strength, unnotched	KJ/m ²	ISO 179-1/1eU	No break
Charpy impact strength, notched	KJ/m ²	ISO 179-1/1eA	105P
Shore D hardness (15 s)	-	ISO 2039-2	62
Thermal properties			
Melting temperature (DSC, 10 °C/min)	°C	ISO 11357-1/3	135
Thermal conductivity at 23 °C	W/(K.m)	-	0.4
Mean coefficient of linear thermal expansion between 23 and 100 °C	m/(m.K)	-	150x10 ⁶

Over 30 years meeting the needs of the
food industry

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PROFILES AND ACCESSORIES

HYGIENIC COVING PROFILE

technical data sheet

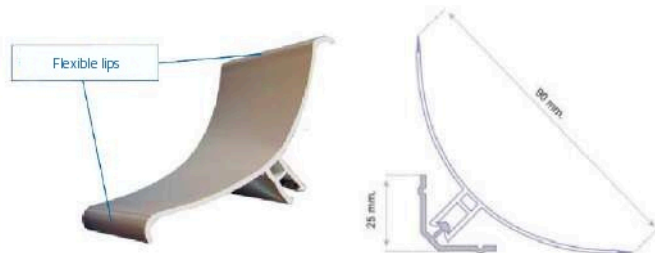
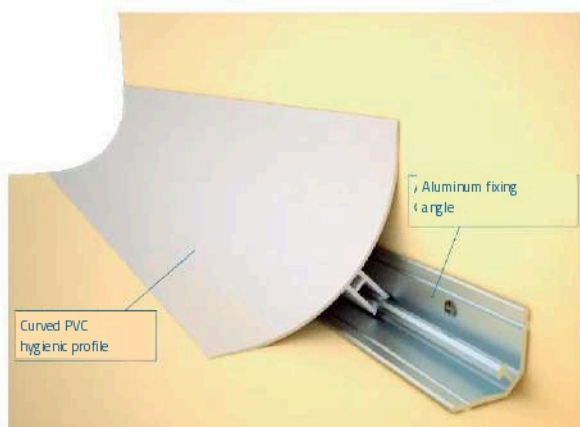
The dual-hardness concave hygienic profile is specifically intended for cold rooms, slaughterhouses, cutting rooms, food preparation rooms, hospitals and, in general, any industry where a high level of hygiene is required, preventing dirt from building up in the angles formed by walls with floors and ceilings.

It consists of 2 components:

- Curved PVC hygienic profile with flexible lips (primary)
- Aluminum fixing angle (secondary)

Highly resistant to impacts and low-temperature conditions.

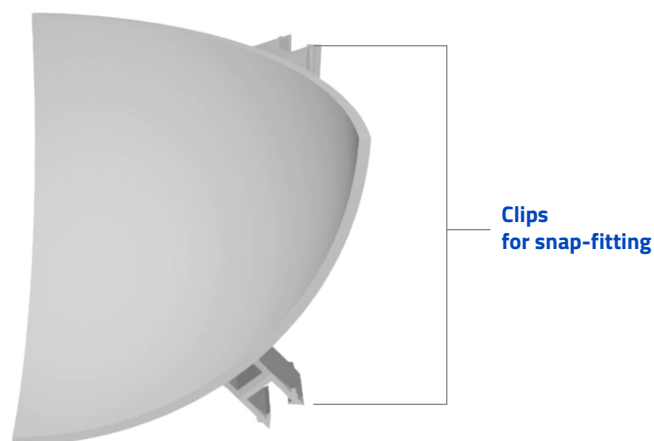
HYGIENIC PROFILE DESIGNED SPECIFICALLY FOR WALL/CEILING, WALL/FLOOR AND WALL/WALL JUNCTIONS.



TRIPLE INTERNAL CORNER

technical data sheet

Thermoplastic part used at internal corner junctions of the 90 mm hygienic profile. Snap-fits onto the aluminum profile.

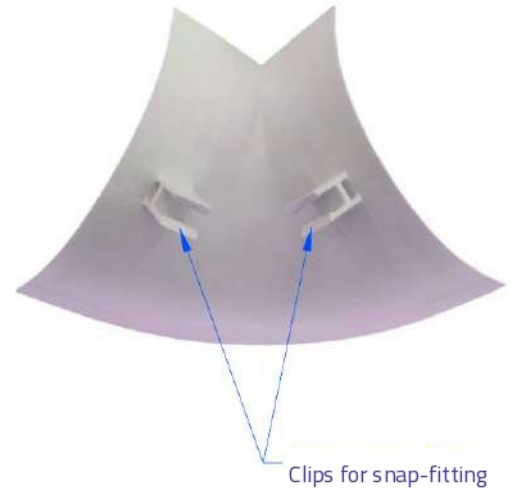
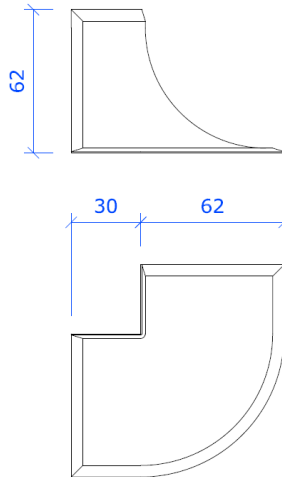


EXTERNAL ANGLE JOINT

technical data sheet

Thermoplastic part used at external corner junctions of the hygienic profile. Snap-fits onto the aluminum profile, overlapping the hygienic profile.

Weight: 16 g (0.56 oz).

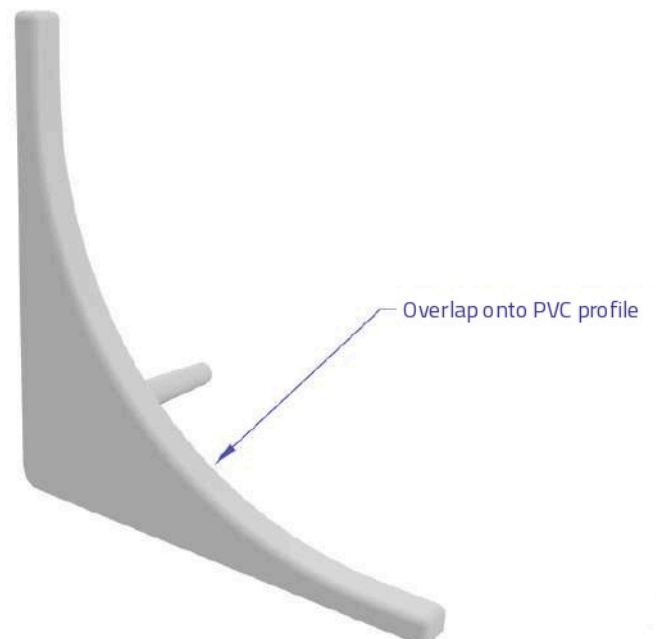
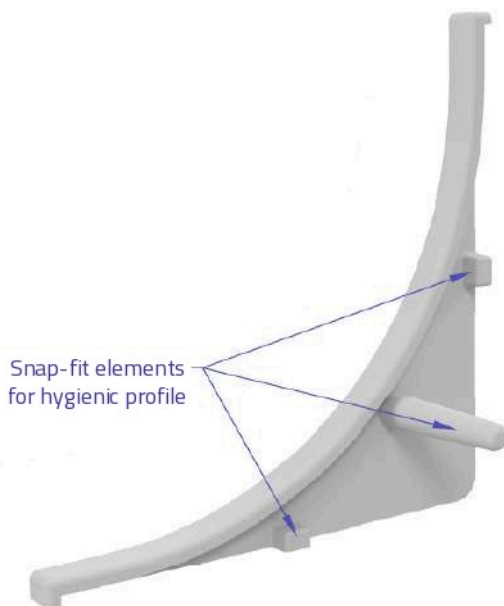


END CAP (HYGIENIC PROFILE)

technical data sheet

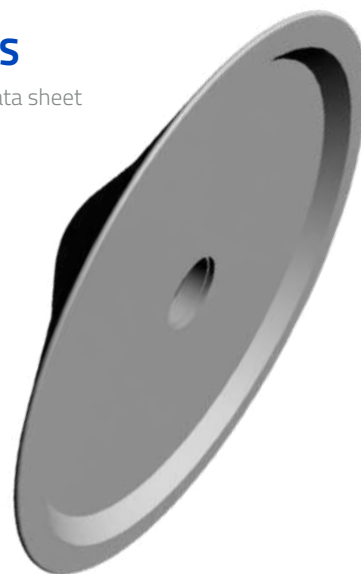
Thermoplastic part used to finish off the end of the 90 mm hygienic profile.

Snap-fits into the PVC profile.



CHINOS

technical data sheet



FASTENING SYSTEM FOR WALL PANELS AND SUSPENDED CEILINGS

Fastens panels to walls and ceilings with no thermal bridge.

Fastens suspended ceilings and polypropylene sheets.

Fitting a CHINO at the midspan of the panel support prevents sagging, allowing thinner panels to be used.

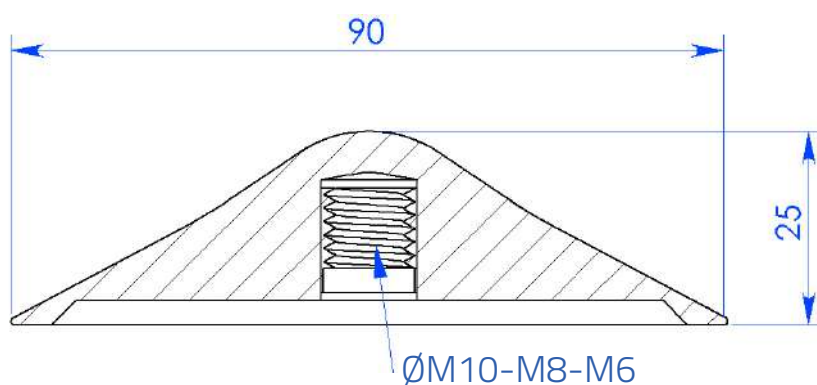
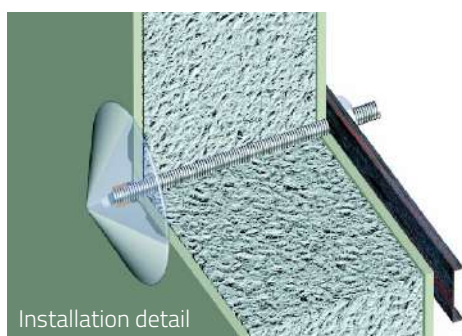
Made of white polypropylene, M10 thread, with a washer bonded to the inner nut to stop the nut turning as the rod is screwed in.

Prevents thermal bridging in refrigeration installations.

Easy to install.

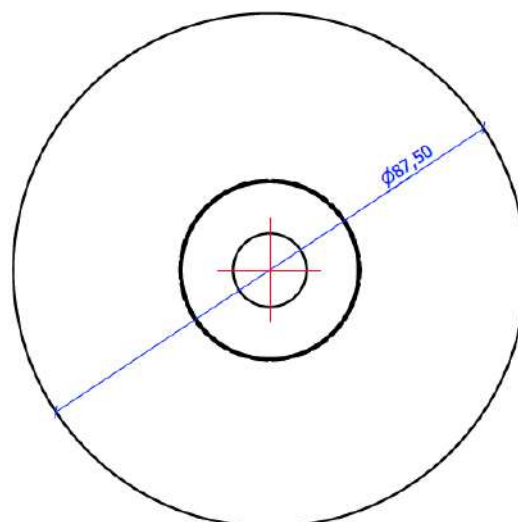
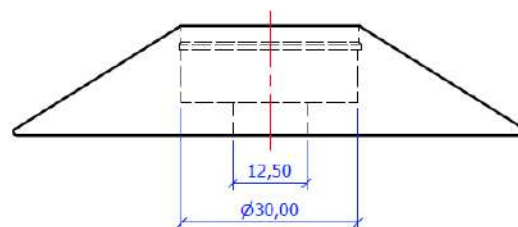
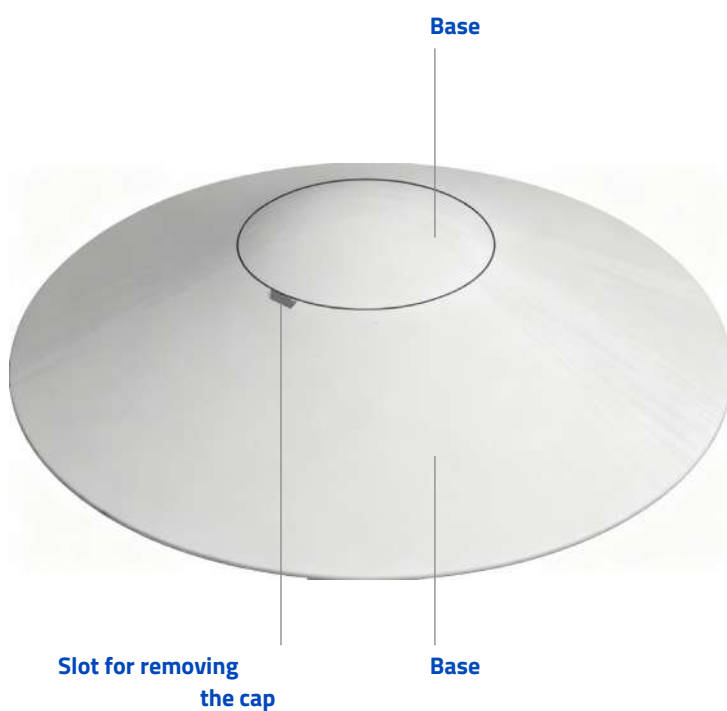
Rounded edges, ideal for hygiene certification.

*Also available in 8 mm and 6 mm threads.



JAPONES

technical data sheet



ALUMINUM CEILING PROFILE

technical data sheet

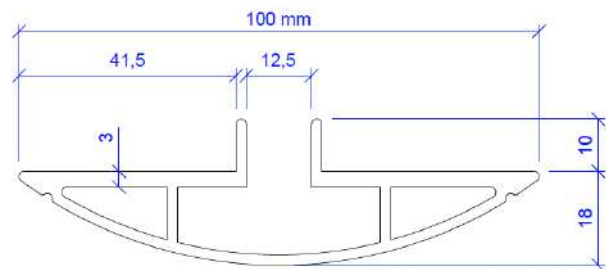
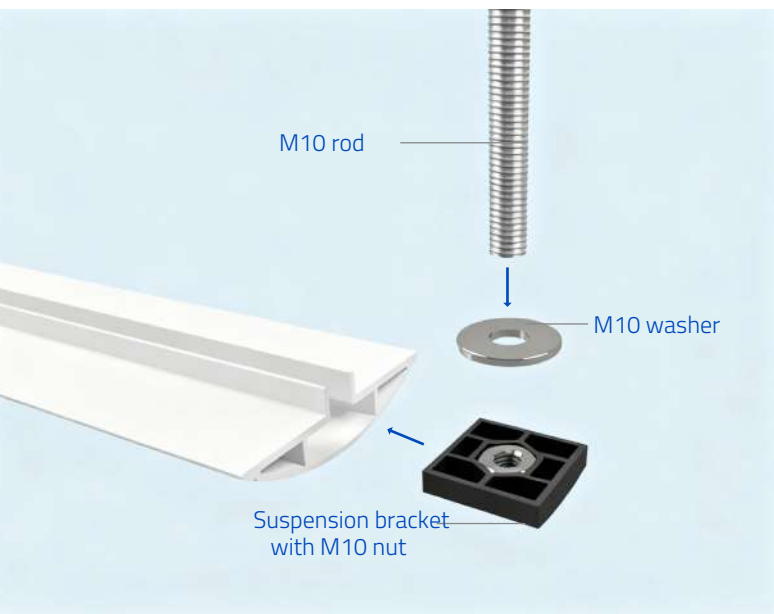
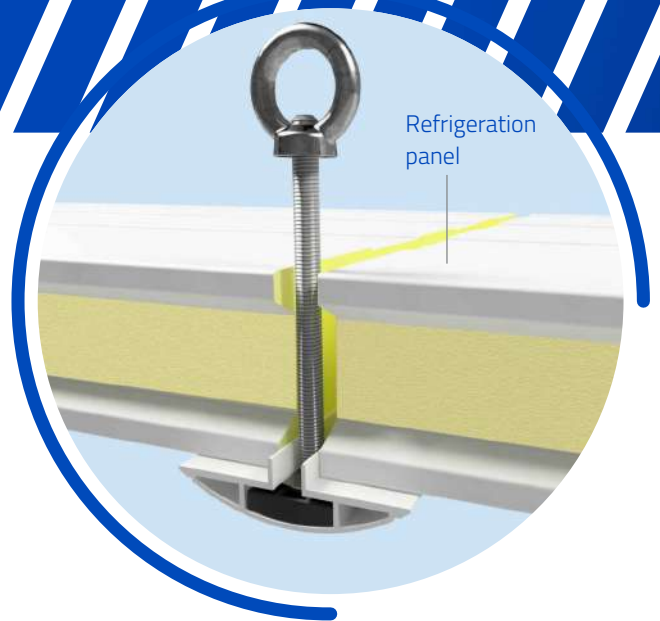
Made of extruded aluminum with a white lacquered finish.
Profile length 4 m (13.1 ft).

Easy to install.

The fixing system can be moved along the profile to the desired position.

The profile has 2 longitudinal grooves so the panel can be screwed to the profile.

The fastening kit can also be supplied with M12



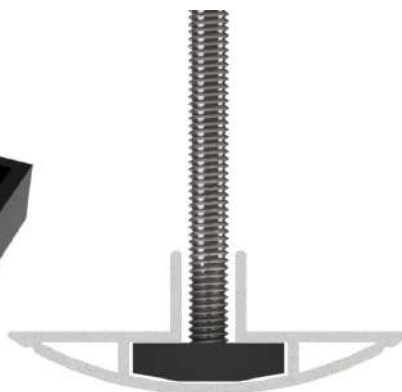
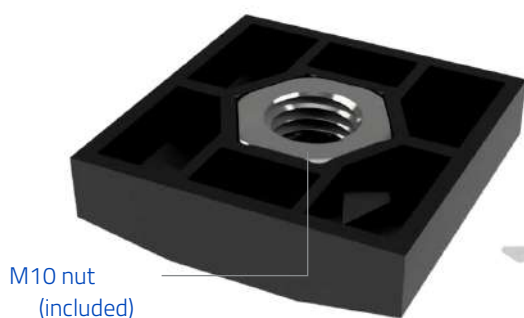
The maximum tensile force of the fastening kit shown in the image is 12,538 Newtons (2,819 lbf).

Result obtained as the average value of several samples subjected to axial load on a universal testing machine (Report IDR 20140526-I)

SUSPENSION BRACKET FOR RUNNER

technical data sheet

Polyamide part with a recess for an M10 nut (included) to suspend the runner.



***Runner and rod not included.**



The logo features a stylized, circular emblem composed of concentric, overlapping arcs in various shades of blue, creating a sense of depth and movement. The word "Bernad" is written in a clean, white, sans-serif font, positioned horizontally across the center of the emblem. A small registered trademark symbol (®) is located at the top right of the word.

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