

SOLID BARRIERS

technical data sheet

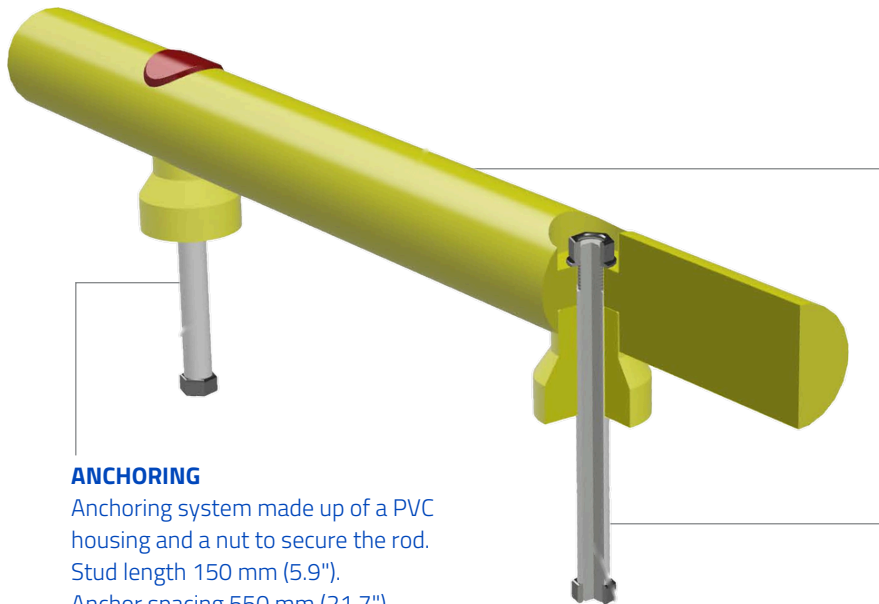


Made
in Spain

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

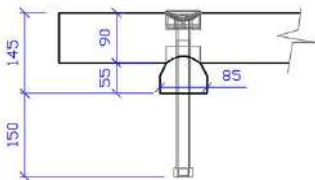
Anchoring system made up of a PVC housing and a nut to secure the rod.
Stud length 150 mm (5.9").
Anchor spacing 550 mm (21.7").

HIGH-QUALITY THROUGH CORE

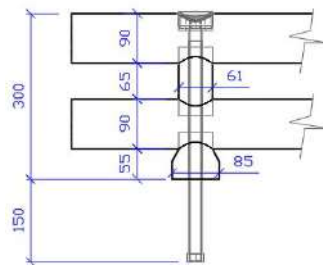
Class 8.8 steel rod, Ø 20 mm (0.79"), gives the assembly outstanding mechanical properties.

FORMATS

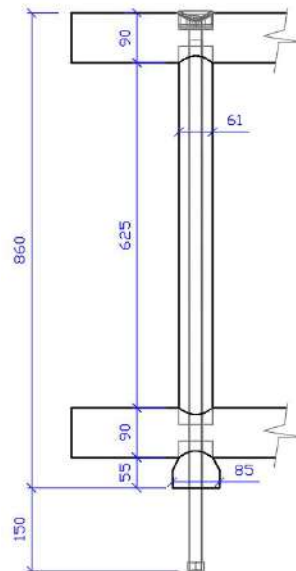
Single barrier



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.

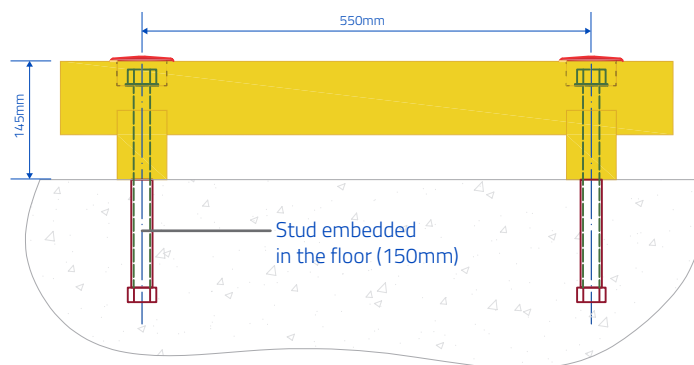


TABLE OF AVAILABLE WEIGHTS AND LENGTHS

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

