

SAFETY BARRIER COMBINED SINGLE SIDE FOR BRIDGE H2-W8-B (ISB26482)



~745	Performai	nce
	Containment level	H2
	Acceleration Severity Index "ASI"	В
	Working width	W8 (2,90 m)
	Extreme lateral position of the vehicle	-
4000	Dynamic deflection	0,70 m
	Characteris	stics
•••	Height out of ground	900 mm / 1550 mm / 4100 mm
	Transversal overall dimensions	745 mm
	Centre to centre between posts	2250 mm
	Tested minimum length	72,0 m



Description

Supply and installation of combined safety barrier, having 3-waves beams th. 3, 0 mm., posts HEA 160 H 4080 mm. with base plate 350x350x20 mm and anchor bolts M24x330 c/c 2250 mm., spacers 460x329x3 with energy absorber, upper beam C180x150x3 mm with supports, bolts and reflectors.

S235JR-S275JR-S355JR steel quality according to EN 10025

Nuts and bolts according to UNI EN ISO 898-1, UNI EN 20898-2

Between HEA posts, there are soundproofing panels, made of a concrete panel H 500 mm at the base, then aluminium panels th. 1,2 mm. dim. 115x500 C7C 2250 mm, up to the top of the posts. Inside the panels, a cushion of mineral wool th. 50 mm. and density of 90 kg/m3 and a protective coating on the side exposed to the traffic. Panels are fixed one another by means of steel ropes diam. 6-14 mm with clamps to avoid their falling down in case of crash. The treatment of the panel surface is provided by a powdered coating with a fixing by fire on a high-temperature

The treatment of the panel surface is provided by a powdered coating with a fixing by fire on a high-temperature oven. The standard RAL colour is 6021.

The safety barrier has successfully passed the tests required by EN 1317, part 1 and 2. Certificate CE n. 098/2131/CPD/2010

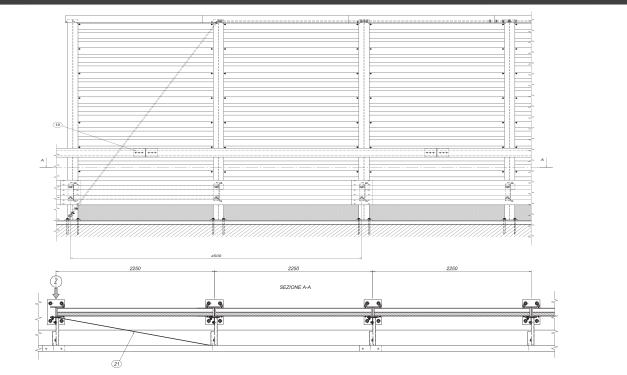




Revision 4 of 20/10/2010

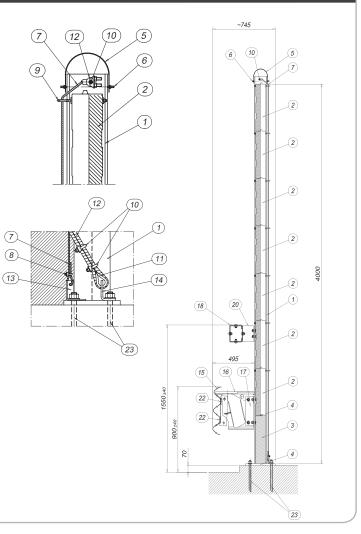


Elevation



Section

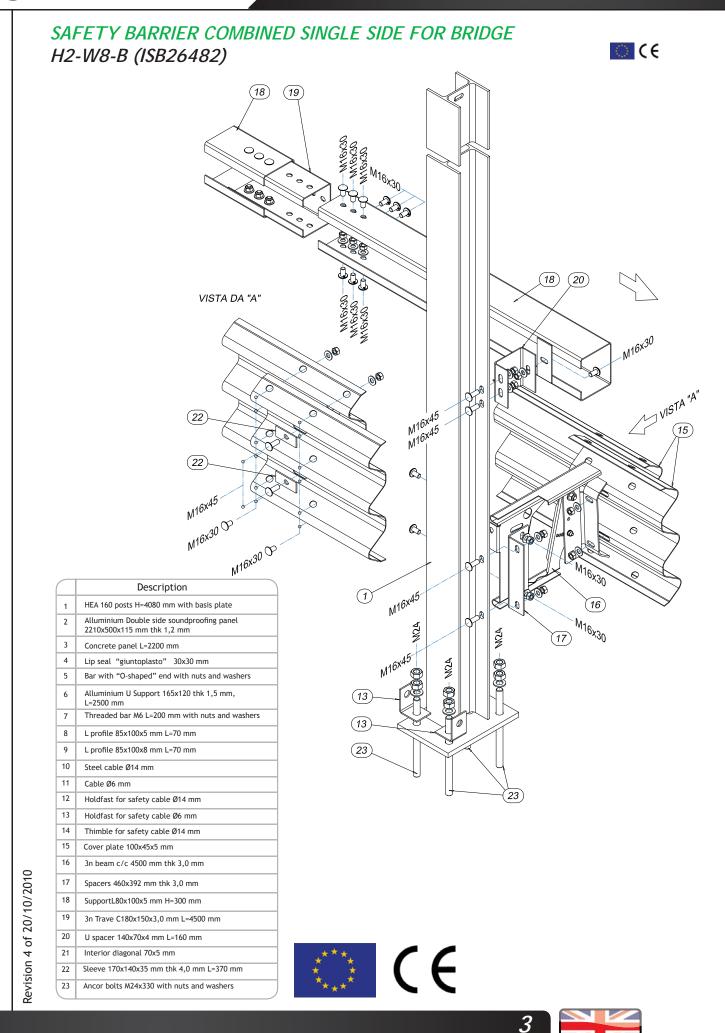
	Description	
1	HEA 160 posts H=4080 mm with basis plate	
2	Alluminium Double side soundproofing panel 2210x500x115 mm thk 1,2 mm	
3	Concrete panel L=2200 mm	
4	Lip seal "giuntoplasto" 30x30 mm	
5	Bar with "O-shaped" end with nuts and washers	
6	Alluminium U Support 165x120 thk 1,5 mm, L=2500 mm	
7	Threaded bar M6 L=200 mm with nuts and washers	
8	L profile 85x100x5 mm L=70 mm	
9	L profile 85x100x8 mm L=70 mm	
10	Steel cable Ø14 mm	
11	Cable Ø6 mm	
12	Holdfast for safety cable Ø14 mm	
13	Holdfast for safety cable Ø6 mm	
14	Thimble for safety cable Ø14 mm	
15	Cover plate 100x45x5 mm	
16	3n beam c/c 4500 mm thk 3,0 mm	
17	Spacers 460x392 mm thk 3,0 mm	
18	SupportL80x100x5 mm H=300 mm	
19	3n Trave C180x150x3,0 mm L=4500 mm	
20	U spacer 140x70x4 mm L=160 mm	
21	Interior diagonal 70x5 mm	
22	Sleeve 170x140x35 mm thk 4,0 mm L=370 mm	
23	Ancor bolts M24x330 with nuts and washers	

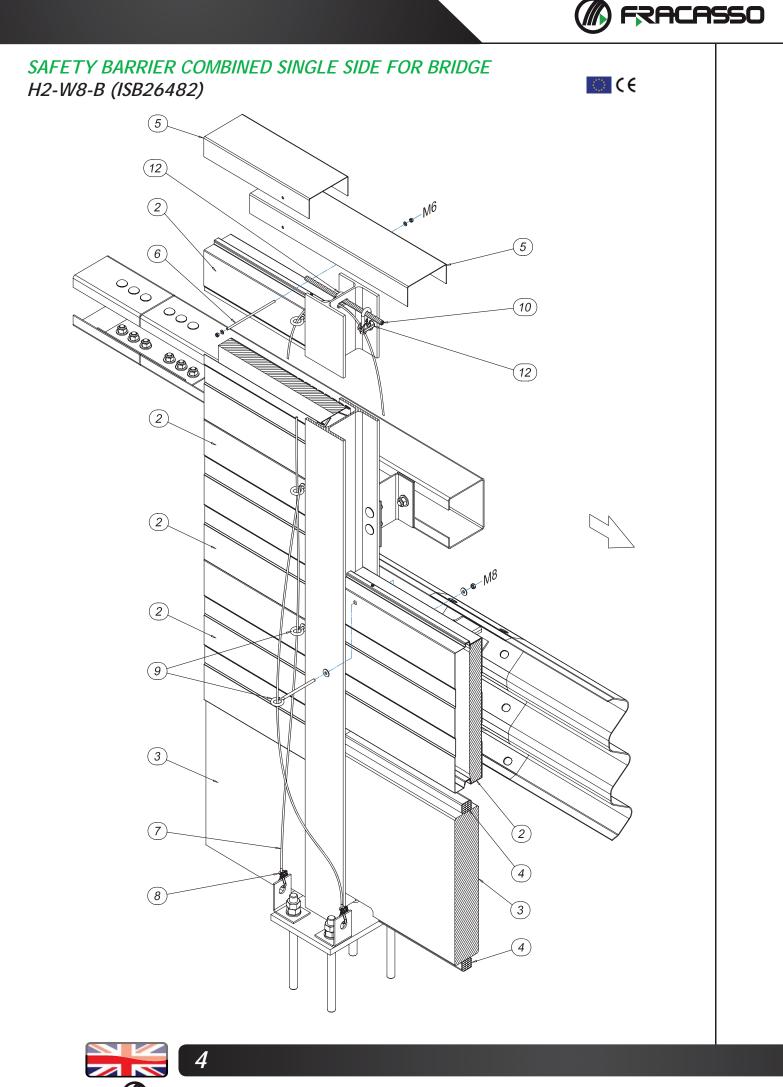




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SINGLE SAFETY BARRIER INSTALLATION CRITERIA ON BRIDGE + NOISE BARRIER H2-W8-B (ISB26482)

Along with the general assembly instructions specified in the introduction chapter, please observe the following guidelines to install barrier ISB26482.

Preliminary operations

Where installation is to be carried out in traffic, all necessary road signs must be set up in order to direct traffic and protect workers from vehicles, in accordance with safety regulations.

The parts making up the road barrier can be unloaded from the transport vehicles by means of a crane fitted to the vehicle, or forklift truck, in accordance with current safety regulations.

Workers must be supplied with all required equipment, including safety shoes, gloves and goggles and - where necessary - helmets, safety harnesses and all else specifically needed for the site and required by current safety regulations.

Installation sequence

The assembly diagram provides instructions for correct barrier installation. Fully and completely follow these instructions.

Main steps:

- 1. Trace out a full line of reference on the ground, which will serve to align mounts, tapes, and all other longitudinal parts.
- 2. Place the tapes (16) along the traced line taking into account the direction of traffic.
- 3. Prepare the anchor rod holes 2,250 mm apart and install M24 L=330 mm (15) anchor screws using the resin according to the manufacturer's specifications.
- 4. The HE160A h=4,080 mm uprights (1) are vertically lifted and fastened to the base using the base plates at the anchoring rods, screwing the lock nut onto the anchoring rod.
- 5. Apply, without fully tightening, the shims (17) and "C" sleeve (20) to the uprights using the supplied nuts and bolts.
- 6. Insert the concrete panels (3) at the base of the structure;
- 7. Insert the soundproof panels (2) fitting them one at a time into the panel below;
- 8. Install the upper cord Φ 14 mm (10) behind the structure;
- 9. Secure the soundproof panels to the uprights using the cords Φ 6 mm (11);
- 10. Assemble the tapes (16), beams (19) and "U" profiles (6) previously placed on the ground, to the uprights and between each other, using the supplied bolts;
- 11. Use the calibrated pneumatic screwdrivers to fasten all nuts and bolts into place, checking levels and alignments.
- 12. Installation must always take place under the surveillance of a specialist technician, and in full compliance with the final drawing (1) and current safety regulations.





Inspection of installation conformity

The technician responsible for the installation shall, at the very least, control conformity of the following, prior to beginning assembly, during work and upon conclusion, by using all measurement instruments necessary and in his possession:

- 1. Full compliance of the installation with the final drawings of reference.
- 2. Post spacing and height of upper beam and current edge in accordance with that specified on the final drawings of the barrier, dilation joints and ends.
- 3. Length and alignment of the installation on the basis of the final drawings and the road layout and altimetry.
- 4. Final coupling bolt torque according to that set in the assembly diagram.
- 5. Compliance with all applicable safety regulations.



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