

INTEGRATED ANTI-NOISE SAFETY BARRIER

The integrated anti-noise safety barrier acts as both a safety barrier and an acoustic barrier, featuring an extremely compact footprint widthways and supporting structure optimisation, meeting the requirements of protection class H4.

It consists of the following:

- a triple-wall metal barrier for bridge edge or side edge class H4, made of S235JR steel and/or S275JR UNI 10025/05 steel, hot-galvanised according to UNI-EN-ISO-1461 standards; inclusive of all connecting elements to metal posts and special parts, in compliance with the applicable regulations in force;
- galvanised steel elements with optional paint finish, S235JR - S275JR - S355JR type sections for welded structures to be used in safety/anti-noise barriers for bridge edge or side edge class H4. Including special parts, tubular handrail, reflectors, nuts and bolts, slot cover plates, hectometer plates and accessories, all in compliance with specific crash test reports (crash test no. 397 and 398 of 23/11/2006 by AISICO Anagni Test Centre) and attached relevant drawings (ID code INTEGAUTOS) or another equivalent implementation according to the design drawings and prescriptions of Autostrade per l'Italia S.p.A.'s Technical Regulations

Rated dimensions of the panel for integrated barrier are as follows:

- length: 2225 mm
- height: 500 mm
- thickness: 120 mm

Sound-absorbing panels are made, according to the CIR Ambiente standard, from painted (RAL table colours) aluminium sheeting 12/10 mm thick.

Inside the two half-shells is a sound-absorbing rock wool blanket at least 50 mm thick with a density of at least 90 kg/m³ or CIRFIBER, a panel made from 100% polyester fibres with density and thickness values as requested. This item is 100% recyclable.

The sound-absorbing material will be protected by the drilled half-shell with a drilling percentage not below 35%.

Barriers with heights exceeding H=3.00 m are equipped with a top tipping over system to allow for the use of underbridge units during flyover/bridge maintenance operations.

The panel includes U.V. rays resistant side closure ends made from black polypropylene and all accessories required for use on integrated barriers (cables, eyebolts etc.).

In case of use on works of art, a system is provided for anchoring to the curb via steel anchors, complete with hot-galvanized nuts and check nuts, galvanized steel plates and bolts for connection to the barrier foot and various hot-galvanized steel connection systems.