



<b>Fire resistance:</b>	240 minutes integrity only. (Fire attack from either face) (formally referred to as the STI 240 System)
<b>Channel (minimum):</b>	80mm x 60mm x 3mm (for heights up to 6m)
<b>Overall width:</b>	89.5mm
<b>Weight (nominal):</b>	27 kg/m <sup>2</sup>
<b>Estimated sound reduction:</b>	33 dB

Perimeter channels fastened to surrounding construction with M10 or M12 all-steel expanding anchors (or equivalent for alternative types of supporting construction) at 500mm maximum centres.

The vertical channels are set at a maximum 1200mm centres. Horizontal and vertical channel members either welded together or joined with steel angle cleats, minimum 60mm x 60mm x 3mm thick x 60mm long, fastened to each channel member with two M10 steel bolts and nuts.

A single layer of 9.5mm Durasteel® fixed on one side of channel with M5.5 steel self drill and tap Tek screws at 250mm nominal centres. Fixings a minimum of 12mm and maximum 20mm from board edge and a minimum 50mm and maximum 100mm from corners (ie 2 fixings per corner) in accordance with Promat UK Durasteel corner fixing statement.

Length of fixing to be sufficient to ensure appropriate penetration of screw thread in accordance with screw manufacturer's recommendations.

Vertical board joints coincide with studs, horizontal board joints are backed by steel channel the same size as the vertical studs.

Expansion allowance will be required for barriers above 4 metres high. Please contact Promat UK Customer Relations Team for further information.

### Steel channel sizes for barrier heights up to 15 metres

Height of Barrier (m)	Channel size (mm x mm x mm)	Estimated Sound insulation Rw (dB)
0 - 6	80 x 60 x 3	33
6 - 9	150 x 60 x 3	33
9 - 12	Two 150 x 60 x 3 back to back	33
12 - 15	Two 175 x 60 x 3 back to back	33

Back to back channels fastened together with M10 steel bolts and nuts at 500mm maximum centres. The vertical joints in the Durasteel® should be offset by 30mm from the centre line of the back-to-back studs, to avoid a straight through path for hot gases.

Horizontal channels are single channels.

**AUTHORITY:** Certifire Certificate of Approval No CF429, Rolton Fire 02-0605, AIRO L3082/L2

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