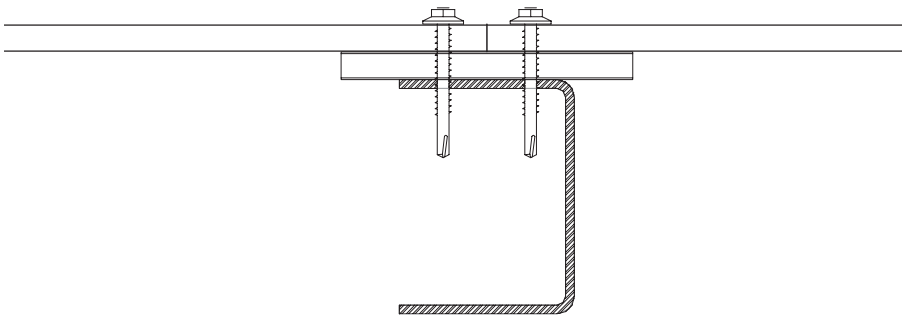
DURASTEEL® FIRE BARRIER



FIRE EXPOSURE:
Tested in accordance with EN 1363-1 & EN 1363-2 Section 4 (Hydrocarbon curve)

FIRE RESISTANCE:
H0 (120 minutes integrity only - Fire attack from either face)

SUPPORT CHANNEL:
80mm x 60mm x 3mm (for heights up to 4m only)

OVERALL WIDTH:
99mm

WEIGHT (NOMINAL):
29 kg/m²

ESTIMATED SOUND REDUCTION:
33 dB

INTRODUCTION

This is an H0 hydrocarbon (integrity only) barrier, suitable for onshore and petrochemical applications. Where additional corrosion resistance is required the Durasteel® may be supplied in either heavy gauge galvanized or stainless steel.

CONSTRUCTION

Perimeter channels fastened to surrounding construction with M10 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 are joined using steel angle cleats, minimum 60mm x 60mm x 3mm thick x 60mm long, fastened to each channel member with two M10 steel (8.8) bolts and nuts.

A single layer of 9.5mm Durasteel® is fastened to the supporting channels through a single fillet of 9.5mm x 100mm wide Durasteel®, with M5.5 steel self drill and tap Tek screws at 200mm 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 Etex Building Performance Limited 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. 9.5mm Durasteel® fillets are required on all framing elements.

RADIATION PERFORMANCE (1000MM FROM SPECIMEN)

5 kW/m²	10 kW/m²	15 kW/m²	20 kW/m²	25 kW/m²
11 minutes	17 minutes	*	*	*

* Radiation levels not exceeded after 135 minutes.

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