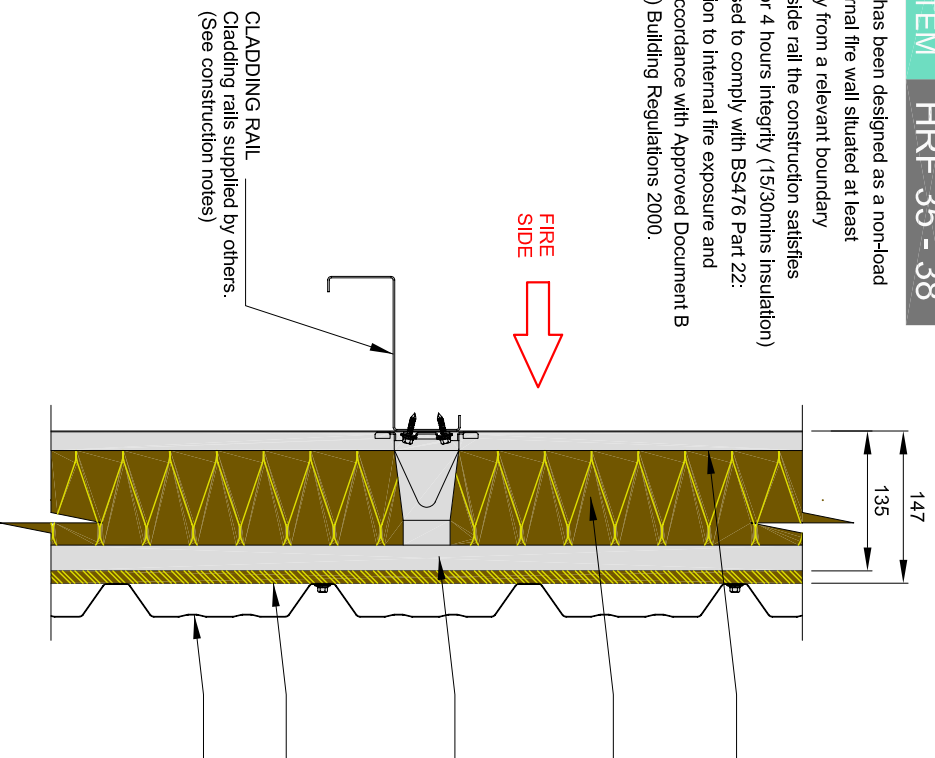


4 Hour Fire Rated Horizontal Wall Cladding System (incorporating Mast Spacer & Rockwool Flexislab Insulation) - 0.35 'U' value

QSYSTEM HRF 35 - 38

This system has been designed as a non-load bearing external fire wall situated at least 1 metre away from a relevant boundary

Secured outside rail the construction satisfies the criteria for 4 hours integrity (15/30mins insulation) when assessed to comply with BS476 Part 22: 1987 in relation to internal fire exposure and installed in accordance with Approved Document B (Fire Spread) Building Regulations 2000.



SPECIFICATION

LINING PANEL
0.40/0.70mm Quedron colour coated galvanised steel profiled sheet.

INSULATION
120mm thick Rockwool Flexislab friction fitted between lining panel and back face of Eurobar Extra rails. (0.038W/mK Lambda value).

SPACER SYSTEM
135mm deep Quedron 'Mast' spacer bar and bracket system. Installed vertically with brackets positioned at 2m max centres (subject to wind load conditions).

THERMAL BREAK
12mm thick Rockwool thermal barrier strip bonded to rail.

EXTERNAL CLADDING
0.70mm Quedron colour coated galvanised steel profiled sheet.

W/RC No. 159671 AR
INTERNAL FIRE ASSESSMENT
BS476 Part 22:1987 compliant
Stability - 240 minutes
Integrity - 240 minutes
Insulation - 15 or 30 minute options.



CONSTRUCTION NOTES:

SUPPORT STEELWORK	To be protected using suitable materials providing a fire resistance period equal to the cladding system. Support cladding from suitable structural element. e.g. Fire rated eaves beam.
Cladding Rails	Supplied in shorter lengths than normal with slotted holes to facilitate expansion. Install in single span condition using 16mm diameter steel bolts with steel and plastic washers. Rail centres for vertical lining not to exceed 2m.
INTERNAL LINING	
Profile	Quedron QLP20/9/14, QLP19/10/00 or QLP32/5(S)
Substrate	0.40 or 0.70mm thick galvanised steel
Finish	Bright/White/Lining/Enamel/Grey/Polyester/Reverse
Installation	Install vertically as per normal manufacturers instructions. Where 30 minutes insulation period is required, stich lining panel side laps at 300mm centres using steel rivets. e.g. TSPD 44 BS or equivalent.
INSULATION	
Reference	120mm thick Rockwool Flexislab mineral fibre insulation
Lambda Value	0.038W/mK
Density	35kg/m ³
Installation	Friction fit between internal lining and back face of Eurobar Extra spacer bar. Tightly butt joints and support using steel riveted stick pins.
SPACER SYSTEM	
Reference	135mm deep Quedron Mast Spacer System installed vertically.
Substrate	1.5mm thick galvanised steel spacer bar.
Installation	Install as per normal manufacturers instructions with bracket centres not exceeding 2m along width of wall elevation.
THERMAL BREAK	
Reference	12mm thick x 50mm wide Rockwool thermal barrier strip
Lambda Value	0.038W/mK
Density	175kg/m ³
Installation	Bond to external face of Eurobar Extra Rails.
EXTERNAL CLADDING	
Profile	e.g. Quedron WA6M, 1000/32C or MW5C(S)
Substrate	0.70mm thick galvanised steel
Finish	Organic coating e.g. Plastisol, PVDF etc.
Installation	Install horizontally as per normal manufacturers instructions.
BASE SUPPORT BRACKET	
Reference	1.60mm thick galvanised steel channel section x 60mm wide (minimum). Dimension to suit spacer depth and distance to cladding rail.
Installation	Secure to cladding rail via spacer bracket fasteners. Stich to spacer bar using 2No. non-washers 5.5mm diameter steel self drilling screws.

Ⓢ Quedron Limited

ISSUE DETAILS

Rev:	Description:	Drawn By:	Date:
0	Original Issue	John Summers	03/08/07
1	Gauge Amendment	John Summers	28/10/08



Quedron Limited
Runnings Road
Kingslentham Trading Estate
Cheltenham Gloucestershire
GL51 9NQ
T 01242 241222 F 01242 584934
E profilesales@quedron.co.uk
W www.quedron.co.uk

Title:

4 HOUR FIRE RATED HORIZONTAL WALL CLADDING SYSTEM INCORPORATING MAST SPACER AND ROCKWOOL FLEXISLAB ('U' VALUE <0.35W/M²K).

Scale:

NOT TO SCALE

Drawing No:

QD1105

Rev:

1