CERTIFICATE OF APPROVAL
No CF 607

This is to certify that, in accordance with CERTIFIRE's Rules for Certification The undermentioned products of

PROMAT UK LTD

The Sterling Centre, Eastern Road, Bracknell, Berkshire, RG12 2TD
Tel: 01344 381 300 Fax: 01344 381 301

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
Promat UK Ltd MMMF-Free Durasteel Partitions	**DTS49 Vertical and Horizontal Separating Elements**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman - Management Council

Issued: 29th May 2008
Valid to: 28th May 2013

Only valid when authenticCERTIFIRE Seal is in place

CERTIFICATE No CF 607
PROMAT UK LTD

PROMAT UK LTD – MMMF-Free Durasteel Insulated Partition Assemblies

1. This approval relates to the use of the above partition assemblies in providing fire resistance of 240 minutes integrity and up to 240 minutes insulation as defined in BS 476: Part 22: 1987. Subject to the undermentioned conditions, the partitions will meet the relevant requirements of BS 5588 for fire resisting compartment walls, for periods of up to 240 minutes (dependant upon design limitations) when used in accordance with the provisions therein.

2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'

3. The partitions and ceiling membranes are approved on the basis of:

   i) Initial type testing
   ii) Audit testing at the frequency specified in TS49
   iii) A design appraisal against TS49
   iv) Inspection and surveillance of factory production control
   v) Certification of quality management system to ISO 9001: 2000

4. The partition assemblies comprise Durasteel board and Promatect 250 board screwed to a steel framework.

5. This approval is applicable to MMMF-free insulated Durasteel partition assemblies as described within this Certificate.

6. The partition assemblies shall be mechanically fixed to wall and/or floor constructions or structural steel members having a fire resistance of at least the same period as the partition.

7. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

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The basic construction consists of a framework of steel channels, minimum 80mm wide x 60mm deep x 3mm thick, with the vertical channels at 1200mm maximum centres and horizontal channels at 2000mm maximum centres. The perimeter channels of the partition are fastened to the surrounding construction with M10 or M12 all-steel expanding anchors (or equivalent for alternative types of supporting construction) at 500mm maximum centres. For partition heights up to 4m the horizontal and vertical channel members may be welded together or joined with steel angle cleats, minimum 60mm x 60mm x 3mm thick x 60mm long, that are fastened to each channel member with two M10 steel bolts and nuts. Above this height the horizontal and vertical channel members are joined with the angle cleats. Wherever possible the main vertical channel studs should be formed in one continuous length to avoid the need for splicing.

The inner layer of board on each face of the steel framework is Promatect 250 board, minimum 12mm thick. It is fastened to the framework with steel drywall screws at 250mm nominal centres. Vertical board joints coincide with the studs. Horizontal board joints are fitted with an internal Promatect 250 cover strip, 100mm wide x same thickness as the facing boards, fastened on both sides of the joint with steel drywall screws at 250mm nominal centres.

The outer layer of board on each face of the steel framework is Durasteel board, 6mm or 9.5mm thick. It is fastened to the framework, through the Promatect 250 board, with M5.5 steel self drill and tap Tek screws at 250mm nominal centres. Vertical board joints coincide with the studs. Horizontal board joints coincide with the horizontal channels or are fitted with an internal steel cover strip, 100mm wide x 3mm thick, fastened on both sides of the joint with M5.5 steel self drill and tap Tek screws at 250mm nominal centres.

Up to a height of 4m no expansion allowance is required. Above that height an expansion allowance of at least 6mm per metre height is required. Where an expansion allowance is provided at the top of a partition, steel channels, minimum 50mm flanges x 3mm thick, are fastened to the vertical channels with M10 steel bolts and nuts. The width of the channel (web dimensions) should be such that it is a close fit within the channel studs. At the junction above the expansion gap the channels are connected with minimum two M10 bolts. At the junction below the expansion gap the channels are connected, through slotted holes, with minimum two M10 bolts fitted with fusible washers. The gap in the Durasteel and Promatect 250 board facing is covered with a Durasteel and Promatect 250 board cover panel that is fastened to the steel framework above the gap (through the facing boards) and overlaps the facing boards below the gap by at least 75mm.

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The alternative sizes of channel stud are 80mm x 60mm x 3mm thick, 150mm x 60mm x 3mm thick and 175mm x 60mm x 3mm thick. The size of steel channel used in the construction of the partition framework for various heights is as follows:

Height of partition - m	Size of channel stud for fire resistance period of - minutes				
	60	**90**	**120**	**180**	**240**
0 – 6	80mm	80mm	80mm	80mm	80mm
6 – 9	80mm	80mm	150mm	150mm	150mm
9 – 12	150mm	150mm	150mm	150mm	150mm
12 - 15	150mm	175mm	175mm	175mm	2 x 150mm

The notation '2 x' refers to back-to-back channels. The back-to-back channels are 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 centreline of the back-to-back studs to avoid a straight through path for hot gases. The horizontal channels are single channels.

Details of the different specifications for the partition assemblies are as follows:

Insulation period - minutes	Thickness of Promatect 250 boards - mm	Thickness of Durasteel boards - mm
60	12	6
90	12	9.5
120	15	9.5
180	20	9.5
240	25	9.5

The approval for the integrity performance of the partition assemblies is for 240 minutes. The maximum height of the partition assemblies is 15.0m. Fire attack may be from either face.

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