

CERTIFICATE OF APPROVAL
No. ME0103

This is to certify that the referenced products of

Middle East Metal and Wood Industries Co Ltd.

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have been assessed against the requirements of the *warringtonfire – mideast certification scheme* and are approved for use within the scope of the test and/or assessment report(s) referenced.

Timber Based FD45 Doorsets

**45 Minutes Integrity and Insulation Performances In Accordance
With BS 476: Part 22: 1987**

Assessment Report Reference	Valid Until
Report WF No. 173489	1st February 2014

Approved Maximum Door Leaf Dimensions			
Configuration	Leaf Height (mm)	Leaf Width (mm)	Leaf Area (m²)
Latched, Single-Acting, Single-Leaf, 50 mm thick	2393	1072	2.57
Latched, Single-Acting, Double-Leaf, 50 mm thick (note: inactive leaf flush bolted top & bottom, active leaf latched to inactive leaf at mid-height)	2393	1072	2.57

Intumescent Specification		
Intumescent Type	Intumescent Reference	Position
Exposed Intumescent Strip	20 mm by 4 mm thick Lorient Polyproducts LP2004	Single strip self adhered into a groove located within the rebate of the vertical and head sections of the frame. Interrupted at the strike plate and hinge positions
Exposed Intumescent Strip	15 mm by 4 mm thick graphite based PVC encapsulated seal	Single strip self adhered into a groove located within the rebate of the vertical and head sections of the frame.

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Intumescent Specification (continued)		
Intumescent Type	Intumescent Reference	Position
Exposed Intumescent Strip	20 mm by 4 mm thick Lorient Polyproducts LP2004	Single strip self adhered into a groove located centrally within the meeting edge of the active leaf. Interrupted at the lockset position (Double doors only)
Exposed Intumescent Strip	10 mm by 4 mm thick Lorient Polyproducts LP1004	Two strips self adhered into grooves located within the meeting edge of the passive leaf, 20 mm apart. Partially interrupted at the strike plate position, partially interrupted at the flush bolt positions (Double doors only)

Frame and Hardware Specification	
Door Frame	Hardwood 120 mm by 50 mm with a 24 mm deep rebate (minimum density 650 kg/m ³)
Hinges	'Hager' steel butt type bearing hinges, 100 mm by 30 mm (blade size). Hinge blades to be bedded on 1 mm thick Interdens intumescent sheet
Lockset	Dorma Door Controls ML 9956DL, 202 mm high by 32 mm wide (forend size). Lock body to be wrapped with 1 mm thickness of Interdens intumescent sheet. 1mm thick Interdens to be fitted beneath lock forend and strike plate. Fitted with appropriate steel lever type handles
Flush Bolts	'Hager' steel flush bolts 172 mm high by 25 mm wide. 1 mm thick Interdens to be fitted behind each bolt. (Double doors only)
Tolerances	All door leaves should be accurately fitted within the frame with an absolute maximum door gap (between the leaf and frame or leaf to leaf) of 3 mm

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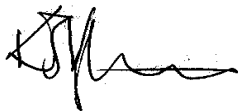
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Glazing Specification (where included)	
Glass type	6 mm thick 'Pyroshield' wired glass
Sight sizes (maximum)	547 mm high by 277 mm wide
Glazing gasket	Lorient Polyproducts System 90
Door aperture lining	2 mm thick Palusol intumescent sheet to all sides of the aperture
Beading	Hardwood 29 mm high by 15.5 mm deep with a 3.5 mm by 3.5 mm bolection return and a 19° chamfer
Bead fixings	Steel woodscrews 60 mm long fitted 50 mm from the corners and at 150 mm centres

Certification is awarded on the basis of initial type testing and assessment to BS 476: Part 22: 1987, initial inspection and ongoing surveillance of factory production control, and ongoing compliance with the scheme requirements including the use of labels supplied by Bodycote **warringtonfire**. The currency of the certification may be verified at www.warringtonfire.net/mideast

Signed for and on behalf of Warrington Certification



Sir Ken Knight
Chairman - Management Council

Issued: 6th February 2009
Valid to: 5th february 2014