

CERTIFICATE OF APPROVAL
No. ME0114

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.

Mineral Composite Based FD90 Doorsets

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

| | |
|------------------------------------|-------------------------------------|
| Assessment Report Reference | Valid Until |
| Report WF No. 173490 | 1st February 2014 |

| Approved Maximum Door Leaf Dimensions | | | |
|--|-------------------------|------------------------|----------------------------------|
| Configuration | Leaf Height (mm) | Leaf Width (mm) | Leaf Area (m²) |
| Latched, Single-Acting, Single-Leaf, 62 mm thick | 2650 (At 1045 wide) | 1306 (At 2119 high) | 2.77 |
| Latched, Single-Acting, Double-Leaf, 62 mm thick (note: inactive leaf flush bolted top & bottom, active leaf latched to inactive leaf at mid-height) | 2650 (At 1045 wide) | 1306 (At 2119 high) | 2.77 |

| Intumescent Specification | | |
|----------------------------------|---------------------------------------|---|
| Intumescent Type | Intumescent Reference | Position |
| Exposed Intumescent Strip | 45 mm by 3 mm thick BASF Palusol | 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 |
| Concealed Intumescent Strip | 50 mm by 3.9 mm thick BASF Palusol | Fitted behind the door leaf lippings to the head and both vertical edges |

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| Frame and Hardware Specification | |
|---|---|
| Door Frame | Hardwood and Georgia Pacific 'Firestop' mineral composite construction, 150 mm by 50 mm, with 65 mm by 20 mm deep rebate (hardwood minimum density 650 kg/m ³) |
| Hinges | 'Vantage' stainless steel butt type hinges, 102 mm x 35 mm x 3 mm thick (blade size) Hinge blades to be bedded on 3 mm thick Palusol intumescent sheet |
| Lockset | 'Vantage 772E x 60 mm' mortice sashlock '430114.01.3'. 235 mm long x 24 mm wide (forend size). Lock body to be wrapped with 3 mm thickness of Palusol intumescent sheet. 3 mm thick Palusol to be fitted beneath lock forend and strike plate. Fitted with appropriate steel lever type handles |
| Flush Bolts | 'Vantage' stainless steel flush bolts 170 mm high by 25 mm wide. 3 mm thick Palusol 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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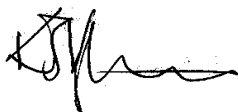
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| Glazing Specification (where included) | |
|--|--|
| Glass type | 5.8 mm thick 'Firelite' ceramic glass |
| Sight sizes (maximum) | 198 mm wide by 748 mm high |
| Glazing gasket | Lorient Polyproducts System 90 |
| Door aperture lining | 2 mm thick Palusol intumescent sheet to all sides of the aperture |
| Beading | 'Thermax SN750' 23 mm high by 24 mm wide with a 6 mm by 3 mm bolection return and a 40° chamfer |
| Bead fixings | Steel pins 25 mm long fixed through the face of the door leaf. 4 no. pins at 200 mm centres along vertical beads. 2 no. pins along horizontal beads at 75 mm in from corners |

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