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## CERTIFICATE OF APPROVAL

### No. ME0188

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This is to certify that the referenced products of

### FITZPATRICK S.A.L.

**Nahr El Mott – Industrial City, Beirut, Lebanon, P.O. Box: 90-1101**

**Tel: +44 (0) 961 1 901888 Fax: +44 (0) 961 1 901333**

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.

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#### Fitzpatrick S.A.L. Steel Rockwool Core Doorsets

#### 60 to 120 Minutes Integrity Performance In Accordance With Clause 8 of BS 476: Part 22: 1987

Configuration	Period of Fire Resistance (minutes)	Maximum Door Leaf Height (mm)	Maximum Door Leaf Width (mm)	Maximum Door Area (m <sup>2</sup> )
Single-acting, single-leaf (latched)	120 60	2474 2689	973 1058	2.18 2.37
Single-acting, single-leaf (3 point latched)	60/120	2800	1300	3.64
Single-acting, double-leaf (flush bolted and latched)	120 60	2474 2689	973 1058	2.18 2.37
Single-acting, double-leaf (flush bolted and 3 point latched)	60/120	2800	1300	3.64
Single-acting, double-leaf (bolted top and bottom of each leading edge with central latch)	60/120	2800	1300	3.64

**Table 1. Maximum Permitted Door Leaf Dimensions**

**Note:** There is no dimensional limitations when doorset are reduced in size from the above dimensions. Under no circumstances must either the maximum height or maximum width be exceeded without separate approval.

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<b>Installation, Glazing and Hardware Specification</b>					
<b>Supporting construction</b>	The door assemblies are approved to be installed in brick, block, structural steel openings, masonry or plasterboard clad stud (for up to 120 minutes fire resistance) with a fire resistance at least equal to that of the doorset to be installed.				
<b>Installation</b>	<p>Frame jambs fixed at maximum 620 mm centres. Single doorset head members to have a minimum of 1 no. fixing on widths over 1000 mm. Double doorset head members to have 2 no. fixings on widths up to 1800 mm and 3 no. fixings on widths above 1800 mm.</p> <p>For masonry or concrete, doorset to be installed using min. M6 steel anchor fixings. For plasterboard wall assemblies, doorset to be installed using minimum No. 10 steel woodscrews</p> <p>It is recommended that CERTIFIRE certificated doorsets are installed by the manufacturer, by his authorised agent under the manufacturers approved quality management system or by a FIRAS accredited installer of fire resisting metal doorsets. The appropriate label shall be applied by the installer.</p>				
<b>Glazed Apertures</b>	<p>All apertures to be factory prepared by Fitzpatrick S.A.L.</p> <p>Doorsets to be glazed (where permissible) using a CERTIFIRE or Warringtonfire Mid-East approved system (glass and glazing gasket). The relevant system shall be approved for use within an uninsulated steel door construction. The maximum opening or pane dimensions specified within the CERTIFIRE approval for the glazing system shall not be exceeded regardless of the maximum dimensions permitted in this approval.</p> <p>Aperture dimensions:</p> <table border="1" style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><b>Max. individual aperture size</b></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Latched single and double leaf doorsets</td> <td style="text-align: center;">0.4 m<sup>2</sup> - subject to max height and width of 1150 mm and 540 mm respectively OR 1500 mm high by 150 mm wide</td> </tr> </tbody> </table> <p>Number of apertures: Any number of apertures may be included providing the maximum area constraints and the minimum separation requirements are satisfied. In unlatched double-leaf doorsets, each leaf must be similarly glazed.</p> <p>Separation: 150 mm between apertures and leaf edge. Aperture provided for vision panel must not necessitate removal of leaf stiffeners.</p> <p>Aperture Construction: Aperture must be framed with a 50 mm by 25 mm by 1.2 mm minimum steel channel tack welded around</p>		<b>Max. individual aperture size</b>	Latched single and double leaf doorsets	0.4 m <sup>2</sup> - subject to max height and width of 1150 mm and 540 mm respectively OR 1500 mm high by 150 mm wide
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<b>Side/Overpanels</b>	Overpanels incorporating a transom rail may be included above single or double leaf assemblies up to a maximum size of 1000 mm high. Overpanels to be manufactured as per door leaf specification, and be mechanically fixed at minimum 400 mm centres into the frame rebate. Overpanels may be glazed. Glass types and sizes shall be limited to maximum sizes tested or CERTIFIRE approved for installation in glazed steel screens.
<b>Door Frame</b>	Door frame for single-acting doors to be of zintec steel of 1.6 mm minimum thickness, formed into varying shaped profiles having a minimum dimension of 80 mm by 57 mm. Door frame for double-acting doors to be of zintec steel of 1.6 mm minimum thickness, having a minimum dimension of 146 mm by 38 mm. Frame jambs to be profiled.
<b>Smoke Seals</b>	CERTIFIRE or Warringtonfire Mid-East approved smoke seals for use on uninsulated metal doors may also be utilised.
<b>Hinges</b>	Hinges shall be CERTIFIRE, Warringtonfire Mid-East approved or CE Marked for use of fire resisting steel doors. Number: 3 hinges per leaf for leaves up to 2200 mm high, 4 hinges per leaf for leaves over 2200 mm high Type: Steel ball bearing hinges Positions: 3 no. hinges equally spaced. 4 no. hinges equally spaced or fourth hinge positioned immediately below top hinge. The distance of centre line of the hinge from the top or base of the door shall not exceed 275 mm. Dimensions: i) Min. Blade height: 114 mm ii) Min. hinge width: 102 mm iii) Blade thickness: 3 mm (± 0.5 mm) Fixings: 12 mm long by 6 mm minimum countersunk head screws, 4 off. per flap, through steel hinge reinforcement plates welded within leaf and frame
<b>Locks and Latches</b>	Locks and latches shall be CERTIFIRE, Warringtonfire Mid-East approved or CE Marked for use on fire resisting steel doors and of the relevant Grade. Alternative locks/latches which have been CERTIFIRE approved for use in steel doorsets are deemed to be suitable for use. No restriction on type of metallic handles. Where specified, 3-point latches (and all associated components and accessories) should be of an all steel construction. These devices should provide restraint at the top and bottom of the leading edges of the leaf and also at the approximate mid-height of the leaf. <b>Emergency Exit Devices</b> Exit devices shall be CE Marked, tested, assessed or otherwise approved for use on fire resisting steel doors.

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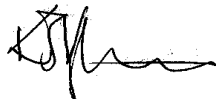
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<b>Self Closing Devices</b>	All unlatched doorsets shall be fitted with a face fixed surface mounted, concealed overhead door closer or a floor pivot closer. A self-closing device is required to be fitted to satisfy fire regulations and if fitted shall be a CERTIFIRE, Warringtonfire Mid-East approved or (for MM applications) CE Marked product for the required application and door type. Note: closers with mechanical hold-open mechanisms are not permitted to be used.
<b>Flush Bolts</b>	Flush bolts or shoot bolts of all steel construction may be fitted to the door leaves for periods of up to 120 minutes. For double-leaf doorsets which are required to be 'latched', the inactive door leaf shall incorporate such a bolting device at both the head and base of the leading edge and shall provide at least 12 mm engagement.
<b>Air Transfer Louvres</b>	A Lorient LVH 44 air transfer grille may be steel screw or weld fitted within factory prepared apertures for FD60 applications only (door leaf may only contain apertures equivalent to those stated for glazed apertures). Alternative items may be utilised on the basis that they are CERTIFIRE, Warringtonfire Mid-East approved or (for MM applications) CE Marked product or otherwise certificated for the required application and door type.

Certification is awarded on the basis of initial type testing to BS 476: Part 22: 1987 or BS EN 1634-1:2000, 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](http://www.warringtonfire.net/mideast).

**Signed for and on behalf of Warrington Certification**



Sir Ken Knight  
Chairman - Management Council

Issued: 29<sup>th</sup> September 2009  
Valid to: 28<sup>th</sup> September 2014