

CERTIFICATE OF APPROVAL
No. ME0179

This is to certify that the referenced products of

SUNDART PRODUCTS LIMITED

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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.

Sundart Products Limited FD120 Composite Doorsets

120 Minutes Integrity Performance In Accordance With BS 476: Part 22: 1987

Assessment Report Reference	Valid Until
WF Test Report No. 178458 Issue 3 Plus all associated supplements	1 st January 2014

Ref.	Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
1	Single-acting, Double-leaf, (Latched / Unlatched) 42 mm Leaf	2750 (at 1220 wide)	1220 (at 2750 high)	3.36
2	Single-acting, Single-leaf & Single-acting, Double-leaf, (Latched / Unlatched) 42 mm Leaf/reduced stiles/rail dimensions	2200 (at 1150 wide)	1150 (at 2200 high)	2.53
3	Single-acting, Single-leaf & Single-acting, Double-leaf, (Latched / Unlatched) 56 mm Leaf with Overpanel	2400 (at 1220 wide)	1220 (at 2400 high)	2.93
4	Single-acting, Single-leaf, (Latched / Unlatched) 40 mm Leaf	2420 (at 1150 wide)	1150 (at 2420 high)	2.78

(1) Under no circumstances must either the maximum height, maximum width or maximum area be exceeded without separate approval.

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Door Specification									
Door frame	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 20%;">Door Type</th> <th>Frame</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 & 3</td> <td>Calcium silicate 68 x 36 mm with 17 x 12 hardwood stop</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Calcium silicate 68 x 30 mm with 17 x 12 hardwood stop or 12 mm calcium silicate backing with 18 mm hardwood facing and 17 x 12 hardwood stop</td> </tr> <tr> <td style="text-align: center;">4</td> <td>12 mm calcium silicate backing with 18 mm hardwood facing and 17 x 12 hardwood stop</td> </tr> </tbody> </table>	Door Type	Frame	1 & 3	Calcium silicate 68 x 36 mm with 17 x 12 hardwood stop	2	Calcium silicate 68 x 30 mm with 17 x 12 hardwood stop or 12 mm calcium silicate backing with 18 mm hardwood facing and 17 x 12 hardwood stop	4	12 mm calcium silicate backing with 18 mm hardwood facing and 17 x 12 hardwood stop
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Door Gaps	Gaps between door and frame shall be 3mm ± 1mm. Leaf to cill gaps shall not exceed 6 mm.								
Glazed Openings	Multiple glazed openings utilising the below approved glazing systems may be included up to a total maximum cut-out area of 0.375 m ² per door leaf. All apertures to be factory prepared. No site cutting of apertures is permitted. Apertures are not permitted in 40 mm thick leaves (Type 4 doors).								
Apertures	Margins: No closer than 100 mm to the edge of the door leaf or between apertures								
Glazing systems	<p>The leaf/leaves may incorporate glazing systems subject to the following conditions:</p> <p>All apertures to be factory prepared. No site cutting of apertures permitted.</p> <p>Glass: 5 mm thick NEG Firelite glass Glazing Seal: 25 x 3 mm ceramic tape Beads: i) Material: Firedart ii) Dimensions: 12 mm high by 19.5 mm wide (minimum) iii) Density: 800 kg/m³ iv) Fixing: 38 mm long steel pins at 150 mm centres (30° angle)</p> <p>Any CERTIFIRE approved glazing system may be utilised subject to the conditions contained within the relevant certificate.</p>								
Supporting construction	The door assemblies are approved to be installed in brick, block, masonry, steel or timber stud of minimum thickness 70mm, providing at least 60 minutes fire resistance.								
Latches	Manufacturer: Dang Yang Dong Fang Lock Factory Reference: HL 958-A Bedding material: 2 mm thick intumescent sheet referenced STP-F1								


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Hinges	<p>Hinges shall be CE marked for use on fire resisting timber doors, in addition to the specifications below:</p> <p>Number: 4 No. per leaf (minimum) Type: Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel. Position: 150 mm from the head of the leaf, and 250 mm from the base of the door leaf and positioned equidistant between these positions.</p> <p>i) Height - 105 mm ii) Blade width - 48 mm iii) Thickness - 4.5 mm iv) Knuckle dia. - 18mm</p> <p>Fixings: Steel screws, minimum 4 No. and no smaller than 32 mm long. Intumescent: All hinge blades to be bedded onto 1 mm thick graphite based STJ 'F1' material.</p> <p>Any other CERTIFIRE approved hinges may be utilised subject to the conditions contained within the relevant certificate.</p>	
Intumescent Seals	Door Type	Frame
	1 & 2 & 3	Sundart 'STP-S1' single 40 x 2 mm seals at head and vertical edges (2 seals opposing at meeting edges). For rebated meeting edges 22 x 2 mm and 17 x 2 mm seals are substituted for each 40 x 2 mm seal.
	4	Sundart 'STP-S1' single 25 x 2 mm and 10 x 2 mm seals at head and jambs.
Overhead Closers	<p>Manufacturer: Dorma Door Controls Reference: TS68</p>	
Installation	<p>Each door frame jamb to be fixed to the wall at not less than four points with steel or nylon frame fixings screwed and plugged at maximum 600mm centres and penetrating the wall to at least 50 mm. Architrave is optional with no restrictions on material, size or fixing.</p>	
	<p>Fitting to be carried out in accordance with BS 8214: 1990, Table 3.</p>	

Certification is awarded on the basis of initial type testing 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 **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: 29th June 2009
Valid to: 28th June 2014