

---

## CERTIFICATE OF APPROVAL

### No. ME0178

---

This is to certify that the referenced products of

## SUNDART PRODUCTS LIMITED

2<sup>nd</sup> Floor, Abbott Building, Road Town, Tortola, British Virgin Islands  
Tel: int +852 2413 2133 Fax: +852 2413 2166

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 FD30 Duradart Doorsets

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

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single –leaf, Single-Acting, Double–leaf*, (Latched / Unlatched)	2860 (at 1200 wide)	1430 (at 2400 high)	3.43

\*Note: Single-Acting, Double-leaf doorsets may include unequal width door leaves such that the smaller leaf is no less than 60% of the width of the larger leaf.

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

**CERTIFICATE No. ME0178**  
**SUNDART PRODUCTS LIMITED**

**Sundart Products Limited FD30 Duradart Doorsets**

<b>Door Specification</b>	
<p>Door frame – Softwood or Hardwood</p> <p>Mild/stainless steel clad hardwood*</p> <p>Mild/stainless steel (backfilled)</p> <p>Particleboard</p>	<p>Minimum density 450kg/m<sup>3</sup>, minimum section size 70mm by 32mm plus stop of minimum size 12mm by 25 mm.</p> <p>Minimum density 500kg/m<sup>3</sup>, minimum section size 140mm by 40mm plus stop of minimum size 15mm by 78 mm (minimum density 400kg/m<sup>3</sup>. * hardwood except ash or iroko. Cladding of maximum 1mm thick Mild / stainless steel (interrupted at intumescent seal position), adhered to the door frame and stop using Lorient Polyproducts Limited Intumescent mastic.</p> <p>Backfilled with sand/cement mortar or concrete - Basic section sizes 70 mm deep by 30 mm wide, with a 15 mm integral doorstep.</p> <p>Minimum density 700kg/m<sup>3</sup>, minimum section size 80mm by 30mm plus stop of minimum size 12mm by 25 mm.</p>
Door Gaps	Gaps between door and frame shall be 2mm ± 1mm. Leaf to cill gaps shall not exceed 10 mm.
Glazed Openings	Multiple glazed openings utilising the below approved glazing systems may be included up to a total maximum cut-out area of 0.95 m <sup>2</sup> per door leaf. All apertures to be factory prepared. No site cutting of apertures is permitted.
Apertures	<p>Margins: No closer than 100 mm to the edge of the door leaf or between apertures</p> <p>Height: 1440 mm maximum (cut-out size)</p> <p>Width: 660 mm maximum (cut-out size)</p> <p>Lining: 39 mm thick by 20 mm wide softwood of minimum density 350 kg/m<sup>3</sup>, bonded to door leaf core with PVA adhesive</p>
Glazing systems	<p>The leaf/leaves may incorporate glazing systems subject to the following conditions:</p> <p>All apertures to be factory prepared. <b>No site cutting of apertures permitted.</b></p> <p>Glass: 6 mm thick Georgian Wired Polished Plate</p> <p>Glazing Seal: 6 mm high (or equal to bead height) by 2 mm thick Lorient Polyproducts Limited Intumescent mastic</p> <p>Beads: i) Material: Hardwood ii) Dimensions: 6 mm high by 14.5 mm wide (minimum) iii) Density: 600 kg/m<sup>3</sup> iv) Fixing: 40 mm long steel pins at 60 mm centres v) Coating: Beads to be immersed in fire retardant solution referenced SDJY-FRS1</p> <p>Any CERTIFIRE approved glazing system may be utilised subject to the conditions contained within the relevant certificate.</p>



**CERTIFICATE No. ME0178**  
**SUNDART PRODUCTS LIMITED**

**Sundart Products Limited FD30 Duradart Doorsets**

Intumescent Seals	Seals may be interrupted at hinge and latch positions. Smoke seals may be included subject to the conditions contained within the relevant			
	Doorset Configuration	Frame	Position	Intumescent Specification
	Single-Acting, Single-Leaf	Particleboard/ Softwood/ Hardwood	Head & Vertical Edges	A single STJ 'S1' graphite based seal of dimensions 25mm wide by 2mm thick to be fitted centrally within the reveal to the frame.
		Steel clad, hardwood core	Head & Vertical Edges	A single STJ 'S1' graphite based seal of overall dimensions 40mm wide by 6mm thick (intumescent material 38mm by 4mm) to be fitted adjacent to door stop position within the reveal to the frame.
		Steel back-filled	Head & Vertical Edges	A single STJ 'S1' graphite based seal of overall dimensions 40mm wide by 6mm thick (intumescent material 38mm by 4mm) to be fitted at mid-width of the door leaf edge.
	Single-Acting, Double-Leaf	Particleboard/ Softwood/ Hardwood	Head & Hanging Edges	A single STJ 'S1' graphite based seal of dimensions 25mm wide by 2mm thick to be fitted centrally within the reveal to the frame.
			Meeting Edges	A single STJ 'S1' graphite based seal of dimensions 25mm wide by 2mm thick to be fitted 5mm from leaf edges such that they are not directly opposing.
		Steel clad, hardwood core	Head & Hanging Edges	A single STJ 'S1' graphite based seal of overall dimensions 40mm wide by 6mm thick (intumescent material 38mm by 4mm) to be fitted adjacent to door stop position within the reveal to the frame.
			Meeting Edges	A single STJ 'S1' graphite based seal of dimensions 25mm wide by 2mm thick to be fitted 5mm from leaf edges such that they are not directly opposing.
		Steel, back-filled	Head & Hanging Edges	A single STJ 'S1' graphite based seal of overall dimensions 40mm wide by 6mm thick (intumescent material 38mm by 4mm) to be fitted at mid-width of the door leaf edge.
			Meeting Edges	A single STJ 'S1' graphite based seal of dimensions 25mm wide by 2mm thick to be fitted 5mm from leaf edges such that they are not directly opposing.
	CERTIFIRE certificate for the smoke seal.			

**CERTIFICATE No. ME0178**  
**SUNDART PRODUCTS LIMITED**

**Sundart Products Limited FD30 Duradart Doorsets**

Latches	<p>Where fitted, latches shall be CE marked for use on fire resisting timber doors, in addition to the specification below:</p> <p>Lock case dims:           150 mm long by 80 mm deep by 15 mm thick maximum</p> <p>Forend dims:               200 mm long by 25 mm wide maximum</p> <p>Strike plate:               130 mm long by 28 mm wide by 2 mm thick maximum</p> <p>Latch bolt:                 Steel or material with a melting point greater than 950°C</p> <p>Handles:                   No restriction on type or material</p> <p>Position:                    Shall be fitted at a maximum height of 1025 mm from the spindle to the bottom of the door.</p>
Flush bolts	Mild or stainless steel flush bolts of maximum dimensions 300 mm high by 22 mm wide.
Overhead Closers	All unlatched doorsets shall be fitted with a door closer covered by a Warringtonfire Mid-East or CERTIFIRE certificate. Closers are not essential for fire performance if the doorset incorporates a latch and the leaf is in the closed and fully latched position. A self-closing device may, however, be required to be fitted to satisfy fire regulations and if fitted shall be a Warringtonfire Mid-East or CERTIFIRE approved product. <b>Note: closers with mechanical hold-open mechanisms are not permitted to be used.</b>

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](http://www.warringtonfire.net/mideast).

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



Sir Ken Knight  
Chairman - Management Council

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