FD 30 FIRE RESISTING DOOR
CERTIFIRE CERTIFICATE OF APPROVAL NO.192

INTRODUCTION

This timber Fire Door/Doorset design has been tested to B.S 476 Part - 22 and manufactured in accordance with the terms of the British Woodworking Federation - CERTIFIRE Product Certification Scheme. As such it carries an identification label giving the following information:

- The name and telephone number of the manufacturer.
- Colour coded fire rating for this product in minutes.
- The CERTIFIRE certificate number under which this door/doorset has been approved.
- A reference number unique to this particular door. This number should be quoted on all correspondence in connection with the item.

DELIVERY AND STORAGE

a) Doors should be stored flat on a level surface and in a dry, well ventilated building and not on end or on edge. They should be stacked on not less than three bearers to eliminate deflection. The bearers should be of greater length than the width of the door and carefully levelled to ensure that all take an equal share of the weight and the plane of the leaf is not in twist.

b) Doors should be sealed or primed on both faces and all four edges immediately after delivery or after any protective wrapping has been removed unless some form of sealing/decoration has been undertaken in the factory.

c) Doors should be handled with care, wearing gloves if necessary and not have the faces dragged one across the other.

d) Doors should be checked at the time of delivery to ensure that they meet with your quality requirements before any processing is carried out.

e) Doors should be covered to keep them clean but without restricting air circulation.

f) Do not store or hang in damp or freshly plastered buildings.

g) Protective wrapping should be left on the door as long as possible.

h) Natural finished doors should be stacked in such a way that they are not partially exposed to daylight. Opaque wrappings must not become torn. Exposure to ultra violet light can cause fading or discolouration of timber or veneers.

i) Maximum trimming permitted - Top of door cannot be trimmed due to label, Max 4mm from both sides and 6mm from the bottom. Doors must not be cut down in any attempt to produce special sizes.

GENERAL

This door leaf has been tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes insulation and 30 minutes integrity as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door would be expected to meet the relevant requirements of BS 5588 for FD30 doorsets when used in accordance with the provisions therein.

In recognition of this the leaf carries a prefixed label on the top edge of the door issued under the terms of the British Woodworking Federation - CERTIFIRE fire resisting door scheme. This label uniquely identifies the door leaf, the manufacture of which complies with BS: ISO 9000 for quality systems and is subject to on-going surveillance. This label must not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by JELD-WEN UK Limited may be considered to meet the requirements in respect of those items.

DOOR LEAF

This leaf may only be used in a latched single-acting, single or double-leaf configuration.
The following table gives a maximum door leaf height (mm) at a standard width and a maximum width at a standard height (excluding overpanel). Intermediate maximum dimensions may be calculated by linear interpolation between the absolute maximum values as shown on Table 1 (reproduced below).

Doorset Configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m^2)
Single-Acting, Single-Leaf (latched)	2310 (at 836 wide)	975 (at 1980 height)	1.930
Single-Acting, Double-Leaf (latched or unlatched)	2070 (at 838 width)	850 (at 2040 height)	1.735

(1) Maximum dimensions for Single-Acting, Single-Leaf (latched) doorsets includes all door leaves of dimensions 2040mm high by 926mm wide or less.

(2) Overpanels to be supplied by JELD-WEN UK Limited Overpanels incorporating a transom rail may be fitted up to height of 1000mm in addition to the sizes above.

(3) Maximum permitted values at dimensions greater than specified in the headings may be determined graphically by linear interpolation between the two data points for each configuration. Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.

DOOR FRAMES

To be any of the following:

Softwood	Minimum density 440kg/m3 and basic section sizes 70mm by 30mm plus a pinned, screwed or rebated from s olid stop of minimum dimensions 12mm deep minimum density 440kg/m³.
Hardwood -	As above
MDF -	Minimum density 720kg/m3 and basic section sizes 70mm by 25mm including a pinned, screwed or rebated from solid stop of minimum dimensions 12mm deep.
Timber Split - Frames	permitted providing section opposite door edge complies with minimum requirements for single section timber frames.

DOOR GAPS

Gaps between doors and between door and frame shall be 3mm ± 1mm. Leaf to cill gaps shall not exceed 10mm.

SUPPORTING CONSTRUCTION

The door assemblies are approved to be installed in brick, block, masonry or timber stud of minimum thickness 70mm, providing at least 30 minutes fire resistance.

INSTALLATION:

The opening may be lined with softwood, hardwood or plywood which shall be continuous and of minimum width 70mm. Any voids between lining and wall or frame and wall up to a maximum of 20 mm, to be filled in accordance with Table 2 of BS 8214: 1990. Each door frame jamb to be fixed through to the wall at not less than three points with steel fixings penetrating the wall to at least 50mm.

In addition the frame head of double-leaf doors shall be similarly fixed. Any voids between door frame and lining or door frame and wall to be filled as above for lining to wall gaps. Architraves are optional with no restrictions on material, size or fixing.

GLAZED APERTURES

All apertures to be factory prepared. No site cutting of apertures permitted. Door leaves within double leaf-doorsets shall be glazed equally.

Glazing system (see also Figure 2, overleaf)

Glass: 6mm thick Georgian Wired Polished Plate

Intumescent:

i) Type A: Pyrostrip 300 (15mm wide by 2mm thick) or Pyroglaze (10 mm wide by 3mm thick)

ii) Type B: Intuplus (15mm wide by 2mm thick)

Aperture Lining:

i) Type A: Pyrostrip 300L (44mm wide by 2mm thick)

ii) Type B: Therm-A-Line (44mm wide by 2mm thick)

Beads:

i) Material: hardwood, to be tightly mitred at joints

ii) Dimensions: 19mm by 21mm chamfered including a 4mm high by 6mm wide bolection return

iii) Density: 640kg/m³ minimum

Fixing: 50mm long steel screws at maximum 150mm centres (maximum of 40mm from each corner) at 35° to the vertical

Door Leaf Infill:

i) Type A: Entire extruded tube (at bottom edge of aperture) to be filled with Intuplus

ii) Type B: Entire extruded tube (at bottom edge of aperture) to be filled with plaster

Setting Block: Glass is to be bedded onto hardwood setting block of dimensions 6mm wide by 3mm thick

Alternative Glazing system (Type C)

Glass: 6mm thick Pyroshield (Georgian Wired Polished Plate) Pyroguard C/W

Intumescent: ISL Therm-A-Strip 10mm by 2mm

Aperture Lining: 6mm thick Hardwood minimum density 550 kg/m³

Beads:

i) Material: Hardwood, to be tightly mitred at joints

ii) Dimensions: 23mm by 2mm chamfered including a 10mm high by 7mm wide bolection return

iii) Density: 550kg/m³ minimum

Fixing: 40mm long steel pins at maximum 200mm centres (maximum of 40mm from each corner) at 35° to the vertical.

Alternative Glazing system (Type D)

Glass: 6mm thick Pyroshield, Pyroguard C/W, Pyran S

Intumescent: ISL Therm-A-Strip 10mm by 2mm

Aperture Lining: 6mm thick Hardwood minimum density 550kg/m³

Beads:

i) Material: MDF, to be tightly mitred at joints

ii) Dimensions: Minimum 25mm wide by 22mm high or 25mm wide by 15mm high including a 5mm bolection return. The beads may be square topped or splayed up to 10° with 15mm cover to the glass edge. The beads are to be tightly mitred at all corners.

iii) Density: 720kg/m³ minimum

Fixing: 38mm long steel pins or screws at maximum 150mm centres at 20° to the vertical.

Maximum Aperture Dimensions*			
Glazing System Reference	**Maximum Height**	**Maximum Width**	**Maximum Aperture Area**
Type A	770mm	642mm	0.49m²
Type B	960mm	310mm	0.31m²
Type C	1000mm	850mm	0.85m²
	1150mm	150mm	0.173m²
Type D	910mm	726mm	0.60m²

INTUMESCENT SEALS

Intumescent Seals are required to be fitted to these doors.

The specification of the seals will be:

Doorset Configuration	Position	Intumescent Type / Specification
Single-Acting, Single-Leaf (Latched)	Head	1 No. 10mm wide by 4mm thick Mann McGowan 100P fitted at the centre of the leaf edge or within the reveal to the frame or transom rail
	Vertical Edges	1 No. 10mm wide by 4mm thick Mann McGowan 100P fitted at the centre of the leaf edge or within the reveal to the frame.
Single-Acting, Double-Leaf Unlatched)	Head	A single ISL Therm-A-Seal of dimensions 20mm wide by the centre of 4mm thick to be fitted at mid-width of the (Latched / door leaf edge or the reveal to the frame
	Hanging Edges	A single ISL Therm-A-Seal of dimensions 10mm wide by 4mm thick to be fitted at mid-width of the door leaf edge or the reveal to the frame
	Meeting Edges (plain meeting stiles only)	A single ISL Therm-A-Seal of dimensions 10mm wide by 4mm thick to be fitted within each door leaf such that they do not directly oppose each other

Seals may be interrupted at hinge and latch positions (Intumescent pads are required behind the hinges, see Section 11). Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

THRESHOLD/ACOUSTIC SEALS

Lorient Polyproducts IS8010Si threshold seals may be included and shall be bedded onto intumscent mastic or 1mm thick Interdens intumscent material. Lorient Polyproducts IS1212 smoke seals may be included and shall be uninterrupted and fixed around the head and vertical edges of the frame.

LETTERPLATES

The above referenced doorsets may include Lorient Polyproducts Limited or Mann McGowan Fabrications Limited Letterplate assemblies. The apertures shall be cut no more than 250mm (vertically) from the mid-height of the door leaf. Alternative CERTIFIRE approved letterplates may also be installed in-line with the relevant Data sheet.

HINGES

Hinges shall be CE marked for use with fire resisting timber doors, in addition to the specification below.

Number - 3 off

Type - Steel butt, any washers or ball bearings to be of steel

Positions - Nominally 250mm from the head and threshold of the leaf. Centre hinge to be between 500mm and 1000mm from the head of the door leaf (±50mm)

Dimensions

i) height 100 - 110mm high

ii) blade width - 32 - 35mm

iii) knuckle dia - 10mm (±1mm)

Fixings - 4 No. steel screws 3 or 4mm dia. by 30mm long

LATCHES

Where fitted, latches shall be CE marked for use on fire resisting timber doors, in addition to the specification below:

Type - Mortice automatic (sprung) latch bolt

Case dims - Maximum 120mm high, 90mm wide by 22mm thick

Latch bolt - Steel

Handles - No restriction on type or material

Position - Shall be fitted at a maximum height of 1200mm from the spindle to the bottom of the door.

OVERHEAD CLOSERS

Face mounted overhead closers may only be used if they are CERTIFIRE approved for the purpose or have been fire tested successfully in the appropriate condition. Such closers are required to be fitted in all cases where doors are required to be self-closing (usually the case for fire doors). Closers with mechanical hold-open mechanisms are not permitted to be used.

JAMB MOUNTED CLOSERS

Recessed cylindrical door closers referenced 'Henderson Model 140', 'Perko R1/R2' and 'Perkomatic R85' are permitted to be used with the above mentioned doorset references within the following constraints:

i) On internal, single-leaf, single-acting, latched door assemblies

ii) In single occupancy, domestic dwellings including on a door between an integral garage and the living accommodation

iii) On internal doors ONLY within a single residence (flat) of multiple occupancy domestic dwellings

iv) Use on individual entrance (flat entrance) doors and in common areas within multiple occupancy dwellings and flats and all industrial and commercial applications are expressly excluded.

(1) Note: use of 'Henderson Model 140' closers are permitted on the basis that, when the door is latched shut, it will not detract from the fire performance of the door assembly in the event of a fire. The closing device is not CERTIFIRE approved and no claims are made or should be implied or inferred on the ability of the device to close and latch the door or in respect of its mechanical performance or durability.

FURTHER INFORMATION

Further information regarding the details contained in this data sheet may be obtained from JELD-WEN UK Limited
(Tel. 0845 122 2890)
(Tel. 01768 866 786).

Further information regarding CERTIFIRE certification and approved products can be obtained from CERTIFIRE
(Tel. 01925 646 777).

Further information regarding BWF labelling requirements can be obtained from the British Woodworking Federation
(Tel. 0870 4586939).