

# dēanta

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CERTIFIRE CF5740 DATA SHEET

## DEANTA UK LTD – TYPE 5 – FD30 TIMBER DOOR ASSEMBLIES CF5740 DATA SHEET

### 1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD30 when used in accordance with the provisions therein.

The leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the manufacture of which complies with a CERTIFIRE approved quality management system. This label shall 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 Déanta UK Ltd may be considered to meet the requirements in respect of those items.

### 2. Door Leaf Dimensions

This approval is applicable to single action and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 below:

Door assembly configuration	Max. height (mm)	Max. width (mm)	Area (m <sup>2</sup> )
Intumescent Option 1 Single-acting, single leaf Latched / Unlatched Timber-based Frame	2900 (at 1350 wide)	1350 (at 2900 high)	3.92
Intumescent Option 2 Single-acting, single leaf Latched / Unlatched Timber-based Frame	2427 (at 1100 wide)	1113 (at 2400 high)	2.67
Intumescent Option 3 Single-acting, Double leaf Latched / Unlatched Timber-based Frame	2480 (at 1000 wide)	1033 (at 2400 high)	2.48
Intumescent Option 4 Single-acting, Double leaf Latched / Unlatched Timber-based Frame	2141 (at 950 wide)	968 (at 2101 high)	2.03

<sup>(1)</sup> Under no circumstances must the maximum height, width or area be exceeded without separate CERTIFIRE approval.

<sup>(2)</sup> All timber framed door assembly configurations may incorporate over panels which include a transom rail as detailed within data sheet.

### 3. Door Frame

To be any of the following: -

Deanta veneered engineered softwood, FR MDF & Plywood frame	i) Density: ii) Dimensions: iii) Door stop:	510 kg/m <sup>3</sup> min (softwood) 75mm by 30mm min. 12mm deep pinned, screwed, or rebated from solid softwood or hardwood stop (510kg/m <sup>3</sup> ) min  Where the stop is rebated from solid the overall frame thickness must be increased by 12mm to accommodate the 12mm rebate depth.
FR MDF	i) Density: ii) Dimensions: iii) Door stop:	700kg/m <sup>3</sup> min 75mm by 25mm min. 12mm deep pinned, screwed, or rebated from solid softwood or hardwood stop (510kg/m <sup>3</sup> ) min  Where the stop is rebated from solid the overall frame thickness must be increased by 12mm to accommodate the 12mm rebate depth.
Softwood or Hardwood	i) Density: ii) Dimensions: iii) Door stop:	510 kg/m <sup>3</sup> min 75mm by 30mm min. 12mm deep pinned, screwed, or rebated from solid softwood or hardwood stop (510kg/m <sup>3</sup> ) min  Where the stop is rebated from solid the overall frame thickness must be increased by 12mm to accommodate the 12mm rebate depth.
Jointing:  Door to frame gaps:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws. Not to exceed 4mm except at threshold where up to 8mm is permitted and 4mm at the meeting sites.	

### 4. Overpanels

Overpanels may be included up to a maximum height of 1000mm when used with transom rail.

Overpanels will include an identical perimeter intumescent fire seals to those included in frame perimeter and a minimum 44mm thick transom rail (excluding stops).

### 5. Glazing Fanlights

Any CERTIFIRE approved glazing systems may be used providing the specification and installation details given in the appropriate certification documents are adhered to.

## 6. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 75mm, providing at least 30 minutes fire resistance. Where stud partitions are used these should be suitably constructed as recommended by the partition manufacturer.

## 7. Installation

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width 75mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600mm centres penetrating the wall to at least 50mm. Architraves are optional with no restrictions.

Door assemblies shall be installed as stated in BS 8214. Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame/supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third-party accredited installers ensures that installations have been conducted by approved contractors, to appropriate standards thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame, providing a minimum lipping thickness of 3mm is maintained to all edges.

Note that the maximum door to frame and door to threshold gaps specified shall not be exceeded, nor shall the door edge fitted with the CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

The labelled edge may be subjected to minor 'shooting-in', providing the label is not damaged or removed in the process, and the mount of material removed does not exceed that stated previously.

## 8. Glazed Apertures

All apertures to be factory prepared by Déanta UK Ltd, or a CERTIFIRE approved Licenced Door Processor. No site cutting of apertures permitted as this will invalidate the certification.

Door may incorporate CERTIFIRE glazing systems subject to the conditions contained within the relevant CERTIFIRE certificate (e.g. maximum size associated with glass, system, edge cover, aperture lining required, etc.), and the maximum pane dimensions given below (whichever is smaller):

Aperture dimensions:	Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:
Area:	Maximum total glazed area of 1.32m <sup>2</sup> per leaf (cut-out size)
Margins:	Minimum 147mm lock/hanging edge, 128mm top edge and 87mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
2010 (at 657 wide)	767 (at 1723 high)	1.32

Hardwood or non-combustible setting blocks will be used to establish the correct edge cover where necessary.

**Non-insulating glasses:** 7mm thick Pilkington Pyrodur 30-105 glass or the other CERTIFIRE approved glass and glazing systems, subject to the conditions of the glass/system certificate.

<b>Intumescent System</b>	Lorient System 36 PLUS – No liner
<b>Bead Dimensions</b>	15mm high by 17mm wide square flushbead (12mm +2/-1mm edge cover)
<b>Bead Material/ Density</b>	MDF min 700kg/m <sup>3</sup>
<b>Fixings</b>	40mm long pins or Tacwise air fired brads or No.6 screws. 50mm from each corner and a maximum of 150mm centres. Fitted at a 35° to the face of the glass.
<b>Max. Height (mm)</b>	2010 (at 657 wide)
<b>Max. Width (mm)</b>	767 (at 1723 high)
<b>Max. Diameter</b>	N/A
<b>Max. Area (m<sup>2</sup>)</b>	1.32

**Insulating glasses:** CERTIFIRE approved glass subject to the conditions of the glass certificate.

## 9. Intumescent Seals

CERTIFIRE certificated intumescent seals are required to be fitted to these doors as below.

**For door assemblies to BS 476: Part 22 – classified as FD30 – Timber-based Frame**

Door assembly Configuration*	Frame material	Position	Required Intumescent Protection

<b>Intumescent Option 1</b> Single-acting. Single leaf door assemblies latched/unlatched Max 2900mm high and 1350mm wide (Max 3.92m <sup>2</sup> )	Timber-based	Head	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
		Vertical edges	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
<b>Intumescent Option 2</b> Single-acting. Single leaf door assemblies latched/unlatched Max 2427mm high and 1113mm wide (Max 2.67m <sup>2</sup> )	Timber-based	Head	Single 15mm wide by 4mm thick Pyroplex FO8700 (positioned central to door thickness)
		Vertical edges	Single 15mm wide by 4mm thick Pyroplex FO8700 (positioned central to door thickness)
<b>Intumescent Option 3</b> Single-acting. Single leaf door assemblies latched/unlatched Max 2427mm high and 1113mm wide (Max 2.67m <sup>2</sup> )	Timber-based	Head	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
		Hanging edges	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
		Meeting edges	Primary leaf only – 2No. 10mm by 4mm thick Lorient LP1004 (positioned 10mm apart and 7mm from face)
<b>Intumescent Option 4</b> Single-acting. Single leaf door assemblies latched/unlatched Max 2427mm high and 1113mm wide (Max 2.67m <sup>2</sup> )	Timber-based	Head	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
		Hanging edges	Single 15mm wide by 4mm thick Lorient 617 (positioned central to door thickness)
		Meeting edges	Primary and Secondary leaf – Single 15mm by 4mm thick Lorient 617 in each meeting edge (positioned central to door thickness – opposing)

\*See Table 1 for size restrictions

Latched or unlatched, single acting, single -leaves with maximum leaf dimensions 2040mm high by 926mm wide and of a minimum thickness of (42) mm may utilise alternative intumescent in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

All other door assembly configurations should include the specific intumescent size type and location as specified within the data sheet.

Smoke seals may be included subject to the conditions contained within the relevant CERTIFIRE certificate for the smoke seal.

## 10. Hinges

Hinges shall be CE marked against EN 1935 for use on 30-minute timber fire door assemblies and have a grade suitable for the size/weight of the door required.

Number:	Minimum 3 No.	
Type:	Steel lift off or butt hinge.	
Positions: *	Maximum 200mm from the top of door to top hinge. Maximum 285mm from the bottom of the door to bottom hinge. Middle hinges fitted equidistant between the top and bottom hinges.	
Dimensions:	i) Height:	98-122mm
	ii) Blade width:	28-37mm
	iii) Thickness:	3mm (+/-0.5mm)
	iv) Knuckle dia.:	13mm (+1mm/-2mm)
Fixings:	Minimum 4No. steel screws, minimum No. 8 by 30mm long.	
Intumescent Protection**	1mm Interdens or graphite-based intumescent sheet material.	

\* The datum in all cases is the centreline of the hinge.

\*\*This specification overrides any requirement for additional intumescent identified in the hinge manufacturers certification, providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material.

Any other CERTIFIRE approved hinge may be fitted, providing the hinge dimensions are no greater than 10% in blade width and 25% in blade height from that approved above.

Where the CERTIFIRE approved hinge exceeds the specification above, the minimum requirement for intumescent protection to the hinges, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the hinge manufacture's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved hinges may be used, subject to the conditions contained within the relevant certificate.

## 11. Locks and Latches

Locks/latches are not necessary. When fitted locks/latches shall be CE Marked for use on 30-minute timber fire doors.

Mortice type, automatic (sprung) latch bolt, and knobs/sets.

Single - action, single-leaf doors only:	
Max. case dimension:	110mm high by 80mm deep by 15mm wide

Max. forend dimension:	165mm high by 27mm wide
Max. keep dimension:	180mm high by 30mm wide (excluding latch plate lip)
Latchbolt material:	Keep/strikeplate may include a steel backbox
Position:	Brass or material with a melting point $\geq 800^{\circ}\text{C}$
Intumescent: protection*	Latch cases, forend and strike plate to be bedded onto 1mm of Interdens sheet material.
<b>Single – action, single-leaf &amp; single-action, double-leaf doors:</b>	
Max. case dimension:	110mm high by 80mm deep by 15mm wide
Max. forend dimension:	155mm high by 22mm wide
Max. keep dimension:	65mm high by 25mm wide (excluding latch plate lip)
Latchbolt material:	Brass or material with a melting point $\geq 800^{\circ}\text{C}$
Position:	Max. 1100mm from bottom of door to centreline of lockcase.
Intumescent: protection*	Latch cases, forend and strike plate to be bedded onto 1mm of Interdens sheet material.

Note: This lock size is only approved for use in single action, double-leaf doors where the primary leaf incorporates 2No. 10mm by 4mm thick Lorient LP1004 (positioned 10mm apart and 7mm from face).

<b>Single – action, single-leaf &amp; single-action, double-leaf doors:</b>	
Max. case dimension:	110mm high by 80mm deep by 15mm wide
Max. forend dimension:	60mm high by 27mm wide
Max. keep dimension:	60mm high by 27mm wide
Latchbolt material:	Brass or material with a melting point $\geq 800^{\circ}\text{C}$
Position:	Max. 1100mm from bottom of door to centreline of lockcase.
Intumescent: protection 1*	Latch cases, forend and strike plate to be bedded onto 1mm of Interdens.
Intumescent: protection 2*	Latch cases and forend to be bedded onto 0.8mm and the keep, strike plate bedded onto 1mm Smith & Locke graphite-based sheet material; in addition, the base of the Latchbolt recess is to include 1mm Smith & Locke graphite-base sheet material.

\* This specification overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified above, specifically maximum dimensions and material.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved above and subject to the conditions contained within the relevant certificate.

Where the CERTIFIRE approved lock/latch exceeds the specification given above, the minimum requirement for intumescent protection to the locks, latches and strikeplates, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the lock/latch manufacturer's CERTIFIRE certificate shall apply.

Recessing the locks should result in a tight fit, allowing any intumescent protection where required.

No restriction on type or material of mechanical lever handles and knobs.

*The use of mechanical locks in conjunction with electromechanical handles must be either CERTIFIRE approved for the application or subject to specific appraisal.*

## 12. Self-Closing Devices

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service access doors. Note: Closers with mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic locations where self-closing devices are not mandatory.

The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/or seals fitted. The closer should have the ability to provide a minimum size 3 closing force. Where doors are unlatched the minimum size 3 shall be maintained.

Closers shall be CE Marked against EN 1154 and categorised as grade 1-suitable for use on fire/smoke door assemblies.

### 12a. Surface Mounted Overhead Closers

Any CERTIFIRE approved surface mounted overhead closer may be fitted, subject to the conditions contained within the relevant certificate.

### 12b. Concealed Overhead Closers

Door assemblies may incorporate CERTIFIRE approved concealed overhead closers in accordance with the following:

- Concealed overhead closers are to be CERTIFIRE approved for use with single-acting, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of 30 minutes (code ITT).
- Intumescent protection to be closer body and arm channel are to be in accordance with the CERTIFIRE certificate of approval for the specified closer.

- Closer body and arm positioning to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- The minimum required frame density and section size are to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Compliance is required with all additional requirements as stated within the CERTIFIRE certificate of approval for the specified closer.

## 12c. Jamb Mounted Closers

Recessed Deanta DH single-chain door Jamb Mounted closers with a maximum 58 x 27mm forend and 22mm diameter x 150mm deep body 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 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 in common areas within multiple occupancy dwellings and flats and all industrial and commercial application are expressly excluded.

The forend within the door edge and frame shall be bedded on 1mm Interdens intumescent sheet material.

<sup>(1)</sup> Note: use of uncontrolled jamb mounted 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.

## 12d Transom Mounted and Concealed Closers

Not permitted.

## 12e Floor Springs

Not permitted.

## 13. Ancillary Items

Please note that hardware items other than those discussed within this certificate of approval are not permitted.

### 13a. Protection Plates and Signage

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the basis that they are:

- $\geq 2\text{mm}$  thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm and mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally, screws may be used.

### 13b. Flushbolts

Not permitted.

Bolts which are wholly surface mounted and do not encroach into the door/frame gap may be fitted providing these items are screw fitted only, and not bolted through the full thickness of the door.

### 13c Pull Handles

Screw-fitted, bolt-fixed from the back and back-to-back fixed pull handles of steel, brass, aluminium and nylon coated, and permitted providing any through-bolt fixing is of steel.

### 13d. Air Transfer Grilles

No site cutting of apertures permitted as this will invalidate the certification.

Where apertures are pre-cut by Déanta UK Ltd, or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transport Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in FD30 timber-based doors. The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the door assembly.

### 13e. Letter Plates

Where letter plates are fitted, the aperture for a letter plate may be formed on site by NON-CERTIFIRE approved staff, however the letter

plates shall be CERTIFIRE approved for use in FD30 timber-based doors. The letter plates must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the letter plate. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the letter plate within the door assembly.

obtained from Warrington Fire Certification (Tel: +44 (0) 1925 646777).

### 13f. Door Viewers

Not permitted.

### 13g. Coat Hooks and Other Surface Mounted Hardware

Ancillary items which are wholly surface mounted may be fitted providing:

- These items are screw fixed or bonded only
- Are not bolted through the full thickness of the door
- Are not directly above, or closer than 100mm to any non-insulated glazing

### 13h. Dropseals

Lorient LAS8001 (35 x 41mm) dropseals are specifically approved without additional intumescent protection.

Any other CERTIFIRE approved dropseal with a maximum dimension of 35 x 14mm may be used, subject to the conditions contained within the relevant certificate.

Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

Note: Threshold gaps as stated in Section 3 are to be maintained.

### 13i. Electric Strikes / Electro Mechanical Locks

Not permitted.

## 14. Further Information

Further information regarding the details contained in this data sheet may be obtained from DÉANTA UK LTD (Tel: 01353 698602).

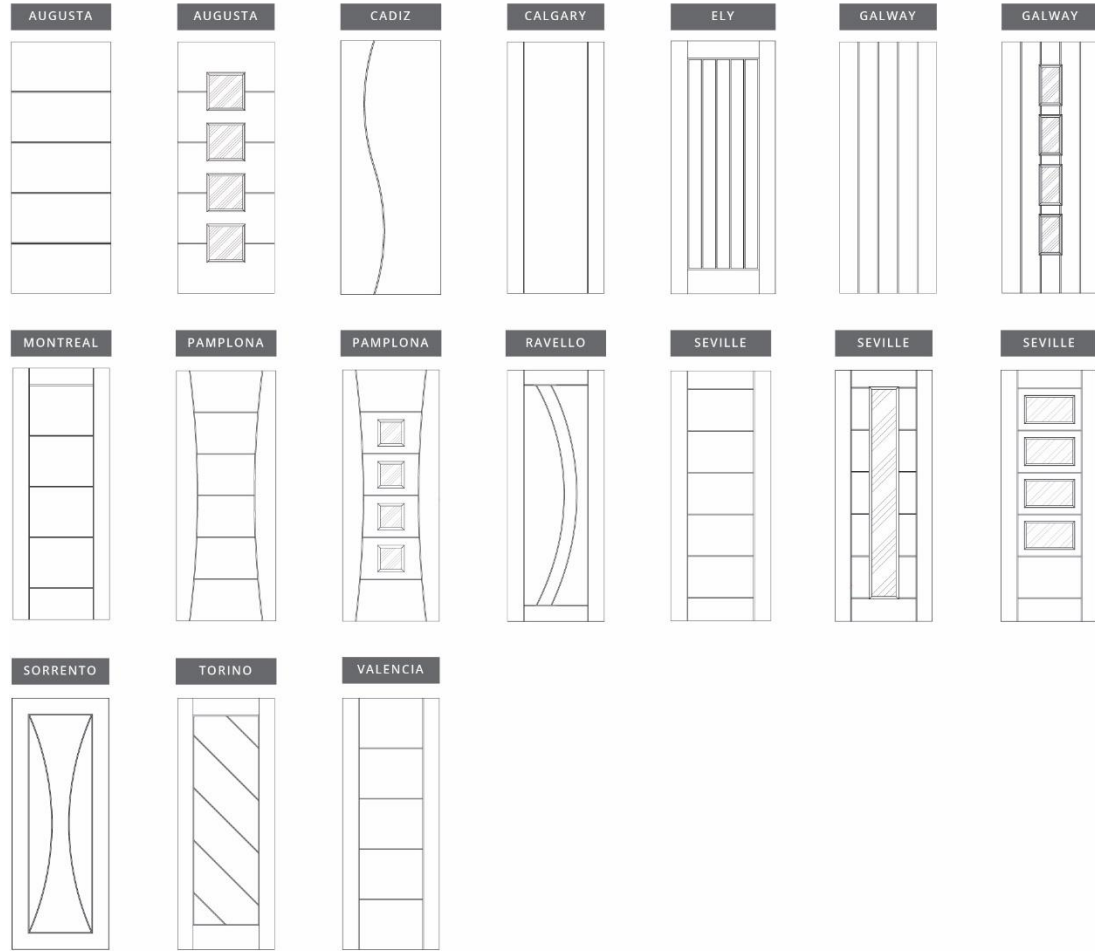
Further information regarding the CERTIFIRE certification and other approved products can be



These doors are limited to veneered doors only, white primed doors are not included.

All the doors listed are stocked, but they are still available to order as Bespoke. For more information speak to our sales team on 01353 698602.

## FEATURE RANGE



## ARCHITECTURAL RANGE

