CERTIFICATE OF APPROVAL
No CF 632

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

NORMA DOORS TECHNOLOGIES, S.A

Paraje Quiñones, s/n 42140 San Leonardo De Yague (Soria), Spain
Tel: int + 34 975376000 Fax: int + 34 975376208

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
Norma Doors Technologies, S.A Fire Resisting ITT FD60 door assemblies	**TS10 Fire Resisting Door Assemblies with non-metallic Leaves**

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager

Issued: 25th June 2008
Revised: 7th May 2019
Valid to: 14th January 2020

CERTIFICATE No CF 632
NORMA DOORS TECHNOLOGIES, S.A.

This approval relates to the use of the above doors in providing fire resistance of 60 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 60 minutes integrity as defined in BS 476: Part 22: 1987. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD 60 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.

2. The doors are approved on the basis of:
   i) Initial type testing
   ii) A design appraisal against TS10
   iii) Inspection and surveillance of factory production control
   iv) Certification under a CERTIFIRE approved Quality Management System
   v) Audit testing in accordance with TS10

3. The doors comprise cellulosic (chipboard) cored, timber framed leaves in various finishes for use with timber frames, with intumescent edge seals.

4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of this approval that an agreed Data Sheet accompanies the product and is complied with in its entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.

5. This approval is applicable to single-action, single-leaf, latched, latched ITT assemblies at leaf dimensions up to those detailed within Table 1 below

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Single-Acting, Single-Leaf Latched	2199 (at 925 wide)	1003 (at 2030 high)	2.03

Table 1

Note: Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.

6. Hardware items, including closing devices and intumescent fire seals, shall as specified in the Data Sheet.

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Revised: 7th May 2019
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CERTIFICATE No CF 632
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7. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.

8. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF 632 and FD60 classifications resistance shall be affixed to each door in the prescribed position.

9. This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

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CF 632 DATA SHEET

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 60 minutes integrity and 60 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 60 when used in accordance with the provisions therein.

In recognition of this, 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 door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. 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 Norma Doors Technologies, S.A may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

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

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Single-Acting, Single-Leaf Latched	2199 (at 925 wide)	1003 (at 2030 high)	2.03

Table 1

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

3. Door Frame

Material: Chipboard
Density: 700 kg/m^3 minimum
Section Size: 100 mm by 30 mm minimum plus 12 mm stop, rebated from solid.

Material: MDF
Density: 730 kg/m^3 minimum
Section Size: 155 mm by 28 mm minimum plus 10 mm stop, rebated from solid.

Door to Frame Gaps: Not to exceed 4 mm except at threshold where up to 8 mm is permitted.

**Increased gaps may be included where specific evidence exists.*

4. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 110 mm, providing at least 60 minutes fire resistance. Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies as recommended by the partition manufacturer.

5. Installation

The opening may be lined with hardwood which shall be continuous and of minimum width 85 mm. Any voids between lining and wall to be filled with mineral wool or if less than 6 mm wide, with intumescent paste or mastic. 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 50 mm. 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.

Door assemblies shall be installed as stated in BS 8214, Table 3. 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 provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 5 mm

6. Glazed Apertures

Not Permitted

7. Intumescent Seals

Configuration	Position	Specification
Single-Acting, Single-Leaf	Head	Single Palusol 15 mm by 2 mm* seal in the frame adjacent to door stop + a single Palusol 30 x 2 mm* seal in the frame positioned 5 mm from the opening face. A further 15 mm by 2 mm* seal Palusol seal is required in the leaf head, adjacent to the door stop
	Vertical Edges	Single Palusol 15 mm by 2 mm* seal in the frame adjacent to door stop + a single Palusol 30 x 2 mm* seal in the frame positioned 5 mm from the opening face
	Rear face of frame	Single 30 x 2 mm graphite based seal to rear face of frame to provide a seal with the supporting construction.

Position: Seals may be partially interrupted at hinge and latch positions.

* Seals must be CERTIFIRE approved and may incorporate PVC carriers to give and overall thickness of 4 mm.

8. Hinges

Hinges shall be CE Marked against EN 1935 for use on 60 minute timber fire door assemblies.

Number:	4 hinges per leaf	
Type:	Steel, butt, journal supported, lift off and fixed pin. Any washers or ball bearings to be of phosphor bronze or steel.	
Positions*:	173 mm, 511 mm, 917 mm and 1740 mm (±50 mm) from the head of the leaf.	
Dimensions:	i) Blade height:	140 mm (+10/ -25 mm)
	ii) Blade width:	35 mm (+6/ -3 mm)
	iii) Blade thickness:	3 mm (± 0.5 mm)
	iv) Knuckle dia.:	10 mm (+1/ -3 mm)
Fixings:	4 No. steel screws (min.) no smaller than No.8 by 32 mm long.	
Protection**:	2 mm Interdens sheets to each hinge blade	

* The datum in all cases is the top edge of the hinge.
** This specification overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative hinges exceed the specification given above the intumescent protection as identified 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.

9. Locks and Latches

Latches shall be CE marked in accordance with BS EN 12209 for use on fire resisting timber doors, in addition to the specification below:

Case dimensions	:	175 mm high by 75 mm wide by 20 mm thick.
Fore plate	:	240 mm high by 24 mm wide
Strike plate	:	185 mm high by 24 mm wide
Latch bolt material	:	steel
Protection*	:	2mm Interdens behind forend & strike & wrapped around the case

* 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. Where alternative lock/latch exceeds the specification given above the intumescent protection as identified in the lock/latch manufacture's CERTIFIRE certificate shall apply.

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Any other CERTIFIRE approved lock/latch may be fitted, subject to the conditions contained within the relevant certificate.

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

No restriction on type and material of handles.

10. 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.

11. Ancillary items

11a Protection plates and signage

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

- < 2mm thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm for 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.

11b Flushbolts

Not permitted

11c Pull Handles

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

11d. Air transfer grilles

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

Where apertures are pre-cut by NORMA DOORS TECHNOLOGIES, S.A , or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transfer Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in FD60 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.

11e. 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 FD60 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.

11f. Door Viewers

Not permitted

11g. 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 100 mm to any insulated glazing

12. Further Information

Further information regarding the details contained in this data sheet may be obtained from Norma Doors Technologies, S.A (Tel: int + 34 975376000).

Further information regarding CERTIFIRE certification and approved products can be obtained from CERTIFIRE (Tel: +44 (0) 1925 646777).

Further information regarding BWF labelling requirements can be obtained from the British Woodworking Federation (Tel: 0207 608 5050).