

## FIRE TEST REPORT EFR-18-H-003901 - Revision 1

According to EN 1363-1: 2012 and 1634-1: 2014 + A1 : 2018

Test	EFR-18-H-003901
Performed on	November the 14 <sup>th</sup> 2018
Regarding	<p>A single leaf wood door and a double leaves wood door referenced "STREBORD 30" mounted into an aerated concrete.</p> <p>Fire direction : Fire on the hinges side.</p> <p><u>Single leaf</u></p> <p>Clear opening : 832 x 2043 mm (w x h)</p> <p>Overall dimensions : 896 x 2079 (w x h)</p> <p>Leaf : 826 x 2040 x 44 mm (w x h x t)</p> <p><u>Double leaves</u></p> <p>Clear opening : 1400 x 2043 mm (w x h)</p> <p>Overall dimensions : 1464 x 2079 (w x h)</p> <p>Leaves : (891 + 500) x 2040 x 44 mm (w x h x t)</p>
Sponsor	<p>BW HARDWARE 1/2 Airton Road DUBLIN 24 D24 TK251 IRELAND</p>

**This test report cancels and replaces the test report EFR-18-H-003901**



Accreditation n° 1-1762  
Scope available on  
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## REVISIONS

Rev. Index.	Modification	Comments
0	Initial document	-
1	Replacement HARDWARE by BW	

## SCOPE OF THIS TEST REPORT

1. Fire resistance test regarding two doors, according to the general requirements of the standard EN 1363-1: 2012 and the particular requirements of standard EN 1634-1: 2014 + A1: 2018 "Fire resistance tests of door-units and closing units - Part 1: Fire-resistant doors and closing devices".

## TEST LABORATORY

2. EFECTIS FRANCE  
Voie Romaine  
F – 57280 MAIZIERES-LES-METZ

## 3. REFERENCE AND MANUFACTURER OF THE TESTED SPECIMEN

Reference: STREBORD 30  
Manufacturer: FALCON PANEL PRODUCTS LTD  
UNITED KINGDOM

4.

## FURTHER INFORMATIONS FOR CE MARKING

*(Chapter not covered under the COFRAC's accreditation).*

The sampling was realized by a non notified body.

Informations about the sampling:

- Sampling under responsibility of : IFC
- Sampling made by : IFC
- Date of sampling : 25/10/2018
- Sampling point : John Watson Joinery Ltd, Usworth Road IND estate,  
Belle Vue Way, Harttepool, TS25 1PD
- Quantity : 1 single leaf and 1 double leaf Doorset
- Batch number : 1
- Date of fabrication of the batch : 06/12/2018
- Sampling report : 15780

See the sampling report in sampling report appendix.

## DESCRIPTION OF THE TESTED SPECIMEN

The information below were provided by the applicant who attests their accuracy.

### GENERAL

5. **Note:** The test specimen (dimensions, fire direction, supporting frame and assembling) were supplied by the Applicant to the Test Laboratory on his own initiative, in conformity with clause 12 of standard EN 1363-1.

- 5.1. See plates nr 1 to 6.

The tested elements were a single leaf wood door and a double leaves wood door referenced "STREBORD 30" mounted into an aerated concrete.

#### Dimensions:

##### Single leaf

Clear opening : 832 x 2043 mm (w x h)  
Overall dimensions : 896 x 2079 (w x h)  
Leaf : 826 x 2040 x 44 mm (w x h x t).

##### Double leaves

Clear opening : 1400 x 2043 mm (w x h)  
Overall dimensions : 1464 x 2079 (w x h)  
Leaves : (891 + 500) x 2040 x 44 mm (w x h x t).

- 5.2.

### LIST OF THE COMPONENTS

According to the information supplied by the sponsor.

- 5.3. See appendix nr 3 and 6.

### DETAILED DESCRIPTION OF THE SPECIMEN

The drawings in the appendix nr 1 to 6 have been supplied by the Sponsor, checked by the test laboratory EFACTIS France, and are in conformity with the tested specimen.

#### 5.3.1. Doorframe

The frame was realized with two jambs and one upper rail realized in softwood with theoretical density of 510 kg/m<sup>3</sup>:

The jambs and the rail was made of:

- 1 piece with dimensions 104 x 33 mm ;
- 2 pieces with dimensions 55 x 15 mm ;
- 1 piece with dimensions 32 x 12 mm.

The jambs and the upper rail was fixed between them by woods screw Ø 5 x 75 mm in the number of 2 for each angles.

The overall section of the frame was 32 x 104 mm. The piece with dimensions 32 x 12 mm was made for the passage of the leaf and create a rabbet with dimensions 47 x 12 mm.

Two intumescent joints referenced STS104FO (STFO), of section 10 x 4 mm, were placed in a groove with same dimensions on the edge of 47 mm of the rebate.

A perimeter seal joint referenced ST1009 (STFO), of section 11 x 5 mm, were placed on the edge of 12 mm of the rebbate.

The doorframe was fixed to the area concrete support by steel screw Ø 5 x 75 mm with maximal step of 500 mm to the two jambs.

A nominal 10 mm fill of ST88 intumescent mastic was posed between the frame and the support construction.

### 5.3.2. Leaves

Each leaf was 44 mm thick.

The framework of the leaf was realized with two jambs and one upper rail in SAPELE wood with theoretical density of 640 kg/m<sup>3</sup>, of dimensions 44 x 8 mm.

The core of the leaf was realized with a panel of wood Stredoor with theoretical density of 550 kg/m<sup>3</sup>, with 44 mm thickness.

### 5.3.3. Equipment and locking system

#### 5.3.3.1. Hinges

Each leaf was hung on 3 steel hinges referenced Concept 3043 Grade 13 SSS whose height was 100 mm and wide 76 mm.

They were placed at 200 mm from the bottom of the leaf and at 150 mm from the top of the leaf. The third one was placed at mid-height of the leaf.

They were fixed to the leaf and to the frame with respectively:

- 4 screws Ø 4,5 x 45 mm ;
- 4 screws Ø 4,5 x 30 mm.

#### 5.3.3.2. Locking system

##### 5.3.3.2.1. Single door

The leaf was equipped with a 2 lever lock (BW HARDWARE) fixed to 44 mm from the vertical edge.

The dimensions of the case were 102 x 63 mm. The dimensions of the forend were 155 x 22 mm.

The lock was fixed to the leaf by 4 steel screws Ø 4,8 x 30 mm.

The lever handle was:

- Concept 3 designer lever on rose and concept designer Key escutcheon to hinged face ;
- BW Hardware Son nato lever on rose and sonnato key escutcheon to non-hinged face.

##### 5.3.3.2.2. Double leaves

The leaf was equipped with a lock referenced CHML009 Din Standard Sash lock with CHE1 Escutcheons and UMK europrofile cylinder (BW HARDWARE) fixed to 60 mm from the vertical edge.

The dimensions of the case were 165 x 85 x 18 mm. The dimensions of the forend were 235 x 24 x 2 mm.

The lock was fixed to the leaf by 4 steel screws Ø 4,8 x 30 mm.

The lever handle was:

- DDTH001SSS (BW HARDWARE) lever handle on rose fitted to non hinged face ;
- DDTH002SSS (BW HARDWARE) lever handle on rose fitted to hinged face.

#### 5.3.3.3. Accessories

##### 5.3.3.3.1. Single door

The leaf received a Stainless steel pull handle referenced Guardsman (BW HARDWARE) with 8 mm fixing bolts to hinged face of door. The dimensions were 600 mm and Ø 19 mm. It was placed at 600 mm from bottom of door to bottom of handle fitted centrally in door.

The leaf received a Stainless Steel fingerplate referenced SSS (BW HARDWARE) 650 x 75 mm. The dimensions were 650 x 75 mm. It was placed at 625 mm from bottom of door to bottom of plate fitted in slave leaf at 63 mm in from leaf edge to edge of plate.

The leaf received a door closer referenced CHD3036 (BW HARDWARE).

##### 5.3.3.3.2. Double leaves

The leaves received a Stainless steel pull handle referenced Guardsman (BW HARDWARE) with 8 mm fixing bolts to hinged face of door. The dimensions were 600 mm and Ø 25 mm. It was placed at 600 mm from bottom of door to bottom of handle fitted centrally in door.

The leaves received a Stainless Steel fingerplate referenced SSS (BW HARDWARE) 650 x 75mm. The dimensions were 650 x 75 mm. It was placed at 625 mm from bottom of door to bottom of plate fitted in slave leaf at 63 mm in from leaf edge to edge of plate.

The leaves received a flush bolt referenced CHDB004 (BW HARDWARE) with dimensions 200 x 19 mm.

The leaves received a door closer referenced:

- D2024 (BW HARDWARE) overhead surface door closer and rail to main leaf ;
- D503 (BW HARDWARE) closer to small leaf.

#### 5.4.

##### VERIFICATION

The specifications supplied by the Applicant were detailed enough to enable the Test Laboratory to carry out a detailed examination of the test specimens before the test and to check the accuracy of the information supplied.

#### 6.1.

##### TEST ASSEMBLY

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#### 6.2.

##### DEFINITION OF THE TESTED SPECIMEN

The choice and the definition of this test specimen have been carried out by the sponsor in conformity with section 12 of standard EN 1363-1: 2012.

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