

Evidence of Performance

Fire resistance of door and shutter assemblies

Test Report

No. 18-002777-PR02

(PB-C04-01-en-02)



Client
The Birtley Group
Mary Avenue, Birtley
DH3 1JF County Durham
United Kingdom

Product	Single leaf door assembly
Designation	"Doorset1"
Overall dimensions of assembly (W x H)	857 mm x 1999 mm
Door leaf dimension (W x H)	758 mm x 1913 mm
Material	Pinatta Pometia and LVL with an Agrifiber board as core Meranti hardwood BBP50F
Type of opening	hinged doorset
Exposed face	opening face (opening in towards the furnace)
Supporting construction	solid high density structure, thickness 240 mm

Basis

EN 1363-1:2012
EN 1363-2:1999
EN 1634-1:2014+A1:2018
EN 16034:2014
EN 13501-2:2016

Equivalent to the national DIN EN standard/s.

Test report of ift Rosenheim 18-002777-PR02 (PB-C04-01-en-01) dated 11-01-2019

Representation



Fire resistance

Criteria	Test results
E - flame > 10 s	66 minutes
E - gap gauge	67 minutes
E - cotton pad	67 minutes
I - insulation, average value	67 minutes
I ₁ - insulation	- minutes
I ₂ - insulation	47 minutes
W - radiation	- minutes
Termination of test	68 minutes

Instructions for use

This test report serves to demonstrate the fire resistance of door and shutter assemblies. This test report does not provide any verification of applicability as set out by the relevant Building Control Authorities!

Validity

The data and results given refer solely to the tested and described specimen. Testing for fire resistance does not allow any statement to be made on any further characteristics regarding performance and quality of the construction submitted.

Notes on publication

The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

The cover sheet can be used as an abstract.

Contents

The report comprises a total of 59 pages (incl. Annexes)
1 Object
2 Procedure
3 Results
Annex (50 pages)

ift Rosenheim
16.01.2019

A. Aguirre Cano

Anyke Aguirre Cano, Dipl.-Ing. (FH)
Head of Testing Department
Fire Safety



Erich Munders
Erich Munders, Dipl.-Ing.
Operating Testing Officer
Fire Safety

Evidence of Performance

Fire resistance of door and shutter assemblies

Test Report

No. 18-002777-PR03

(PB-C04-01-en-02)



Client
The Birtley Group
Mary Avenue, Birtley
DH3 1JF County Durham
United Kingdom

Product	Single leaf door assembly
Designation	"Doorset2"
Overall dimensions of assembly (W x H)	857 mm x 1999 mm
Door leaf dimension (W x H)	758 mm x 1913 mm
Material	Pinatta Pometia and LVL with an Agrifiber board as core Meranti hardwood BBP50F
Type of opening	hinged doorset
Exposed face	closing face (opening away from furnace)
Supporting construction	solid high density structure, thickness 240 mm

Basis

EN 1363-1:2012
EN 1363-2:1999
EN 1634-1:2014+A1:2018
EN 16034:2014
EN 13501-2:2016

Equivalent to the national DIN EN standard/s.

Test report of ift Rosenheim 18-002777-PR03 (PB-C04-01-en-01) dated 11-01-2019

Representation



Fire resistance

Criteria	Test results
E - flame > 10 s	68 minutes
E - gap gauge	68 minutes
E - cotton pad	68 minutes
I - insulation, average value	68 minutes
I ₁ - insulation	- minutes
I ₂ - insulation	57 minutes
W - radiation	- minutes
Termination of test	69 minutes

Instructions for use

This test report serves to demonstrate the fire resistance of door and shutter assemblies. This test report does not provide any verification of applicability as set out by the relevant Building Control Authorities!

Validity

The data and results given refer solely to the tested and described specimen. Testing for fire resistance does not allow any statement to be made on any further characteristics regarding performance and quality of the construction submitted.

Notes on publication

The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

The cover sheet can be used as an abstract.

Contents

The report comprises a total of 59 pages (incl. Annexes)
1 Object
2 Procedure
3 Results
Annex (50 pages)

ift Rosenheim
16.01.2019

A. Aguirre Cano

Anyke Aguirre Cano, Dipl.-Ing. (FH)
Head of Testing Department
Fire Safety



Erich Muters
Erich Muters, Dipl.-Ing.
Operating Testing Officer
Fire Safety

Evidence of Performance

Fire resistance of door and shutter assemblies

Test Report

No. 18-002777-PR04

(PB-C04-01-en-02)



Client
The Birtley Group
Mary Avenue, Birtley
DH3 1JF County Durham
United Kingdom

Product	Single door leaf assembly
Designation	"Doorset3"
Overall dimensions of assembly (W x H)	1040 mm x 2114 mm
Clear opening (W x H)	900 mm x 2013 mm
Material	timber frame construction with LVL and Agrifiber Board timber block frame
Type of opening	hinged doorset
Exposed face	opening face (opening in towards the furnace)
Supporting construction	solid high density structure, thickness 240 mm

Basis

EN 1363-1:2012
EN 1363-2:1999
EN 1634-1:2014+A1:2018
EN 16034:2014
EN 13501-2:2016

Equivalent to the national DIN EN standard/s.

Test report of ift Rosenheim 18-002777-PR04 (PB-C04-01-en-01) dated 11-01-2019

Representation



Fire resistance

Criteria	Test results
E - flame > 10 s	54 minutes
E - gap gauge	58 minutes
E - cotton pad	58 minutes
I - insulation, average value	54 minutes
I ₁ - insulation	- minutes
I ₂ - insulation	54 minutes
W - radiation	- minutes
Abortion of test	59 minutes

Instructions for use

This test report serves to demonstrate the fire resistance of door and shutter assemblies. This test report does not provide any verification of applicability as set out by the relevant Building Control Authorities!

Validity

The data and results given refer solely to the tested and described specimen. Testing for fire resistance does not allow any statement to be made on any further characteristics regarding performance and quality of the construction submitted.

Notes on publication

The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

The cover sheet can be used as an abstract.

Contents

The report comprises a total of 58 pages (incl. Annexes)

- 1 Object
 - 2 Procedure
 - 3 Results
- Annex (49 pages)

ift Rosenheim
16.01.2019

A. Aguirre Cano

Anyke Aguirre Cano, Dipl.-Ing. (FH)
Head of Testing Department
Fire Safety



Erich Muders
Erich Muders, Dipl.-Ing.
Operating Testing Officer
Fire Safety

Evidence of Performance

Fire resistance of door and shutter assemblies

Test Report

No. 18-002777-PR05

(PB-C04-01-en-02)



Client
The Birtley Group
Mary Avenue, Birtley
DH3 1JF County Durham
United Kingdom

Product	Single door leaf assembly
Designation	"Doorset4"
Overall dimensions of assembly (W x H)	1040 mm x 2114 mm
Clear opening (W x H)	900 mm x 2013 mm
Material	timber frame construction with LVL and Agrifiber Board timber block frame
Type of opening	hinged doorset
Exposed face	closing face (open out away from furnace)
Supporting construction	solid high density structure, thickness 240 mm

Basis

EN 1363-1:2012
EN 1363-2:1999
EN 1634-1:2014+A1:2018
EN 16034:2014
EN 13501-2:2016

Equivalent to the national DIN EN standard/s.

Test report of ift Rosenheim 18-002777-PR05 (PB-C04-01-en-01) dated 11-01-2019

Representation



Fire resistance

Criteria	Test results
E - flame > 10 s	48 minutes
E - gap gauge	58 minutes
E - cotton pad	45 minutes
I - insulation, average value	45 minutes
I ₁ - insulation	- minutes
I ₂ - insulation	43 minutes
W - radiation	- minutes
Abortion of test	59 minutes

Instructions for use

This test report serves to demonstrate the fire resistance of door and shutter assemblies. This test report does not provide any verification of applicability as set out by the relevant Building Control Authorities!

Validity

The data and results given refer solely to the tested and described specimen. Testing for fire resistance does not allow any statement to be made on any further characteristics regarding performance and quality of the construction submitted.

Notes on publication

The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

The cover sheet can be used as an abstract.

Contents

The report comprises a total of 58 pages (incl. Annexes)

- 1 Object
 - 2 Procedure
 - 3 Results
- Annex (49 pages)

ift Rosenheim
16.01.2019

A. Aguirre Cano

Anyke Aguirre Cano, Dipl.-Ing. (FH)
Head of Testing Department
Fire Safety



Erich Muders
Erich Muders, Dipl.-Ing.
Operating Testing Officer
Fire Safety

Provisional Test Performance (Issue #2)



This letter provides notification of provisional test performance following a fire resistance test conducted at ift-Rosenheim, Germany. The test was organised by UL International (UK) Ltd. on behalf of the Test Sponsor.

Test Reference: 18-002777-AU01

UL Project Reference: 4788642857

Test Date: 25-September-2018

Test Standard: EN 1634-1

Test Sponsor: Birtley Building Products, Mary Avenue, Birtley, DH3 1JF, UK.

The test specimens consisted of: 4 No single leaf, single acting doorsets each of ‘Capstone FD30 Agrifiber’ door leaves manufactured using an ‘Agrifiber Board’ core. The doors leaves were hung within a Meranti hardwood outer frame. All doorsets were fitted with a ‘Yale Autosecure’ multipoint lock.

Specimen dimensions: Specimens 1 and 2 had overall, outer dimensions of 1999mm high by 857mm wide, each with leaves 1913mm high by 758mm wide by 44 mm thick. Specimens 3 and 4 had overall, outer dimensions of 2099mm high by 999mm wide, each with leaves 2013mm high by 900mm wide by 44 mm thick.

Opening Direction: The doorsets were installed such that two door leaves opened towards the furnace and two door leaves opened away from the furnace as shown in the table below

Supporting Construction: The doorsets were mounted within a rigid, masonry supporting construction

The test specimens achieved* the following performance when judged against the **integrity** criteria given in the test standard:

	Specimen 1 Open towards furnace	Specimen 2 Open away from furnace	Specimen 3 Open towards furnace	Specimen 4 Open away from furnace
Integrity:	68 Minutes	66 Minutes	45 Minutes	54 Minutes

*The table above should be used to show only provisional performance. This letter is not intended to be used in place of a formal, full test report which includes a full specification of the tested specimens and which meets the requirements of the Test Standard. UL and ift-Rosenheim reserve the right to amend the above performances ahead of the formal test report.

A full description of the tested specimens is provided in test report referenced 18-002777-AU01 (Specimens 1 to 4). Not until the full test report issued can the test be considered to meet the requirements of the Test Standard.

This letter is valid for a period of one month from the date of issue.

Signed: <i>cc [Signature] CWMILES</i>	Name: Ross Newman
	Title: Project Engineer
On behalf of: UL International (UK) Ltd., 220 Cygnet Court, Warrington, WA1 1PP, UK	Date of issue: 28 th September 2018

UL International (UK) Ltd. did not select the samples, determine whether the samples were representative of production samples, witness the production of the test samples, nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual samples tested.

The issuance of this report in no way implies Listing, Classification or Recognition by UL and does not authorize the use of UL Listing, Classification or Recognition Marks or any other reference to UL on the product or system. UL authorizes the above named company to reproduce this letter provided it is reproduced in its entirety. The name, Brand or Marks of UL cannot be used in any packaging, advertising, promotion or marketing relating to the data in this letter, without UL's prior written permission.

UL, its employees and agents shall not be responsible to anyone for the use or nonuse of the information contained in this letter and shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use of, or inability to use, the information contained in this letter.