
Title:

Classification of Fire Resistance
Performance in Accordance with EN
13501-2: 2023

Approved Body No:

1314

Product Name:

The Panel Technologies 51 – Access
Panel design as tested within
Chilt/RF13137 Revision C and
WF434360 Doorset B.

WF Classification Report No.:

555672

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1

Prepared for:

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Signatories and revision history

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1. Introduction

This classification report defines the resistance to fire classification assigned to the Panel Technologies 51 doorset design as tested in Chilt/RF13137 Revision C and WF434360 Doorset B in accordance with the procedures given in EN 13501-2:2023.

2. Details of classified product

2.1 General

The doorset design referenced, the Panel Technologies 51 design tested in Chilt/RF13137 Revision C, is intended to be used in fire compartmentation and/or escape routes and is defined as the following type of product according to EN 16034: 2014:

- A pedestrian doorset, which is hinged, intended for installation in areas in the reach of persons and for which the main intended uses are giving safe access for persons and is manually operated and opening and normally maintained locked in the closed position as a normal mode of operation.
- The doorset is completed with building hardware
- The leaf is fitted without vision panels and includes seals for fire resistance and smoke control.

2.2 Description (Chilt/RF13137 Revision C)

The doorset referenced Panel Technologies 51 is fully described in fire resistance test report Chilt/RF13137 Revision C.

Briefly, the product comprises:

- A Panel Technologies profiled Steel tray 1.2mm (t) with 1.2mm (t) profiled steel stiles and rails are welded to the tray 70mm (w) x 44mm (t)
- 15mm (t) Siniat Soundbloc plasterboard was held in place to the closing face of the tray section of the leaf with Z section profiled steel that was affixed to the stiles with self tapping screws 16.5 (l)
- The doorset is fitted with 8mm (w) x 4mm (t) Lorient IS1020 white 'P' rubber buffer seal and 10mm (w) x 2mm (t) Envirograf Paper G10-10 applied adjacent to each other on the upstand of the stop.
- The frame is made out of 1.5mm (t) folded zinc steel which is formed to create the integral architrave frame profile with 25mm (w) architraves.
- The leaf was hung in the frame using Fast Fit Spring Hinges referenced HINGE-RF-R51.
- The doorset was fitted with door security bolts 11mm Dia x 6mm projection fitted at 290mm centres, 340mm from the bottom of the leaf.
- 3WL - 3 point locking system with 2No. 8mm Dia locking rods running through steel guide blocks was affixed to the doorset.

The Panel Technologies 51 doorset design tested in Chilt/RF13137 Revision C and detailed in this classification report, is defined as a fire resisting doorset as described in in clause 7.5.5 of BS EN 13501-2: 2023. Its function is to resist fire in respect of the fire performance characteristics given in clause 5 of BS EN 13501-2: 2023.

- Resist fire in respect of the fire performance characteristics given in clause 5 of BS EN 13501-2: 2023 and

This classification has been carried out in accordance with clause 7.5.5 of BS EN 13501-2: 2023 which is the classification of fire doors and shutters including their closing devices.

The product is to be classified for integrity (E) performance.

2.3 Description (WF434360 Doorset B)

The doorset referenced Panel Technologies 51 is fully described in fire resistance test report WF434360 Doorset B.

Briefly, the product comprises:

- A Panel Technologies profiled Steel tray 1.2mm (t) with 1.5mm (t) profiled steel stiles and rails are welded to the tray 65mm (w) x 43mm (t)
- 12.5mm (t) GTEC dB plasterboard with 5mm (t) IsoBase R50 was held in place to the closing face of the tray section of the leaf with Z section profiled steel that was welded to the stiles and rails
- The doorset is fitted with 8mm (w) x 5mm (t) C.R.A International 'P' profile compression self adhesive EPDM seal and 10mm (w) x 2mm (t) Envirograf G10/10 applied to the perimeter of the leaf face to contact with the upstand of the stop.
- The frame is made out of 1.5mm (t) folded zinc steel which is formed to create the integral architrave frame profile with 25mm (w) architraves.
- The leaf was hung in the frame using Fast Fit Spring Hinges referenced HINGE-RF-R51.
- The doorset was fitted with door security bolts.
- 3WL - 3 point locking system with 2No. 8mm Dia locking rods running through steel guide blocks was affixed to the doorset.

The Panel Technologies 51 doorset design tested in WF434360 Doorset B and detailed in this classification report, is defined as a fire resisting doorset as described in in clause 7.5.5 of BS EN 13501-2: 2023. Its function is to resist fire in respect of the fire performance characteristics given in clause 5 of BS EN 13501-2: 2023.

- Resist fire in respect of the fire performance characteristics given in clause 5 of BS EN 13501-2: 2023 and

This classification has been carried out in accordance with clause 7.5.5 of BS EN 13501-2: 2023 which is the classification of fire doors and shutters including their closing devices.

The product is to be classified for integrity (E) performance.

3. Test reports in support of the classification

3.1 Test Reports

Name of laboratory	Name of sponsor	Report reference number	Test standard and date
Warringtonfire Testing and Certification Limited	Panel Technologies Limited	Chilt/RF13137 Revision C	BS EN 1634-1: 2008 and BS EN 1363-1 1999
Warringtonfire Testing and Certification Limited	Panel Technologies	WF434360 Doorset B	BS EN 1634-1: 2014+A1:2018

3.2 Results

3.2.1 Chilt/RF13137 Revision C

Test Report Reference Chilt/RF13137 Revision C		
Report Sponsor	Fire Proofing Services Ltd	
Test Laboratory	Warringtonfire Testing and Certification Limited UKAS No. 1762	
Test Date	23/05/2013	
Test Standard	BS EN 1634-1: 2008 and BS EN 1363-1:1999	
Performance Parameters		Results
Integrity	Sustained Flaming	No failure recorded prior to termination of the test at 132 minutes
	Gap Gauge	No failure recorded prior to termination of the test at 132 minutes
	Cotton Pad	No failure recorded prior to termination of the test at 132 minutes
Insulation	Normal Procedure (I ₂)	8 minutes
Radiation	Time to exceed 15 kW/m ²	Radiation of 15 kW/m ² was not exceeded during the test's duration of 132 minutes

3.2.2 WF434360 Doorset B

Test Report Reference WF434360		
Report Sponsor	Panel Technologies Ltd	
Test Laboratory	Warringtonfire Testing and Certification Limited UKAS No. 1762	
Test Date	12/11/2020	
Test Standard	BS EN 1634-1: 2014+A1: 2018 and BS EN 1363-1:2012	
Performance Parameters		Results
Integrity	Sustained Flaming	No failure recorded prior to termination of the test at 126 minutes
	Gap Gauge	No failure recorded prior to termination of the test at 126 minutes
	Cotton Pad	No failure recorded prior to termination of the test at 126 minutes
Insulation	Normal Procedure (I ₂)	11 minutes
Radiation	Time to exceed 15 kW/m ²	Radiation of 15 kW/m ² was not exceeded during the test's duration of 126 minutes

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2023.

4.2 Classification

The element, the Panel Technologies 51 as tested in **Chilt/RF13137 Revision C** is classified according to the example of the following combinations of performance parameters and classes as appropriate.

R	E	I	W		t	t	-	M	Sa	-	C	IncSlow	sn	ef	r
x	✓	x	x		x	x		x	x		x	x	x	x	x

Classification based upon test report referenced **Chilt/RF13137 Revision C**

Fire resistance classification*: E120 This classification document does not represent type approval or certification of the product.															
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* Note: the classifications stated are the maximum classifications permitted. Any classification period below this is covered by default.

The element, the Panel Technologies 51 as tested in **WF434360 Doorset B** is classified according to the example of the following combinations of performance parameters and classes as appropriate.

R	E	I	W		t	t	-	M	Sa	-	C	IncSlow	sn	ef	r
x	✓	x	x		x	x		x	x		x	x	x	x	x

Classification based upon test report referenced **WF434360 Doorset B**

Fire resistance classification*: E120 This classification document does not represent type approval or certification of the product.															
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* Note: the classifications stated are the maximum classifications permitted. Any classification period below this is covered by default.

4.3 Field of application

This classification is valid for the following end use applications:

Scope of classification as defined within Annex A and B of this report referenced WF555672 Issue 1 and in accordance with BS EN 13501-2: 2023.

4.3.1 Direct Field of application

The direct field of application for the Panel Technologies 51 doorset design as tested in Chilt/RF13137 Revision C and classified within this report is given in Annex A and is based on the DIAP rules for fire resistance given in section 13 of BS EN 1634-1: 2014 + A1 2018.

The direct field of application for the Panel Technologies 51 doorset design as tested in WF434360 Doorset B and classified within this report is given in Annex B and is based on the DIAP rules for fire resistance given in section 13 of BS EN 1634-1: 2014 + A1 2018.

5. Limitations

This classification document does not represent type approval or certification of the product.

The doorset design tested in Chilt/RF13137 Revision C was undertaken with the doorset in a latched arrangement, therefore these classifications only apply to doorsets which are latched at three points as tested.

The doorset design tested in WF434360 Doorset B was undertaken with the doorset in a latched arrangement, therefore these classifications only apply to doorsets which are latched at three points as tested.

Annex A - Direct Field of Application Chilt/RF13137 Revision C

A.1 Rules

This Direct Field of Application (DIAP) has been derived based on the field of direct application of test result rules found within Clause 13 of BS EN 1634-1:2014+A1:2018.

A.2 General Description of Construction

The materials, construction and specification of the Panel Technologies 51 doorset design as tested in Chilt/RF13137 Revision C, relevant to this classification report are detailed within the test report referenced in section 3.

A.3 Design Variations

This Annex details the permitted variation to the design tested in Chilt/RF13137 Revision C whilst maintaining the products ability to meet the classification periods outlined within Section 4.2 of this report.

Other than the permitted variations detailed in this Annex, the materials, construction and specification of the doorset must remain as tested in Chilt/RF13137 Revision C.

A.4 Field of Application

A.4.1 Configuration

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1:** The number of leaves and the mode of operation (e.g. sliding, single action or double action) shall not be changed.

Permitted variation for:

Based on the above rules it is not permitted to change the number of leaves or mode of operation therefore, the doorsets must consist of 1No. leaves and be of a single acting operation.

Number of Leaves	Mode of Operation
1	Single Action

A.4.2 Materials and Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1:** Unless otherwise stated in the following sections, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

The following sections give the permitted variation to materials and construction to that tested and described in Chilt/RF13137 Revision C.

A.4.2.1 Door panel thickness and density

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2:** The type of metal shall not be changed from that tested. The number of stiffening elements for uninsulated doors may be increased proportionally with the increase in size but shall not be reduced.

Permitted variation:

Not permitted.

A.4.2.2 Composition of door panel

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: The materials and construction of the doorset shall be the same as that tested.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2**: The type of metal shall not be changed from that tested.

Permitted variation:

Not Permitted.

A.4.3 Leaf Size

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.2**: The amount of variation of size permitted is dependent on whether the classification time was just reached (Category 'A') or whether an extended time (Category 'B') in accordance with the values shown in Table 1 were fulfilled before the test was concluded.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.1** For Category 'B' tests (with specified overrun of classification period) all smaller sizes are permitted and increases in height and width are permitted as stated in Annex B (of BS EN 1634-1: 2014+A1: 2018).
- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.2**: For smaller doorset sizes the relative positioning of movement restrictors (e.g. hinges and latches) shall remain the same as tested or any change to the distances between them will be limited to the same percentage reduction as the decrease of test specimen size.

For larger doorset sizes the following shall also apply:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.2 a**: The height of the latch above floor level shall be equal to or greater than the tested height, and such increase in height shall be at least proportional to the increase in door height.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.2 d**: Where three hinges or distortion preventers are used, the distance between the bottom of the door leaf and centre restraint shall be equal to or greater than that tested.

Permitted variation:

A decrease in leaf size is permitted provided that the relative positioning of movement restrictors (e.g. hinges and latches) are the same as tested or any change to the distances between them are limited to the same percentage reduction as the decrease of test specimen size.

Tested Leaf Height	Tested Leaf Width	Tested Leaf Area
2398mm	898mm	2.153m ²

An increase in leaf size is permitted from the tested dimension to the maximum sizes detailed in the table below.

Maximum Leaf Height	Maximum Leaf Width	Maximum Leaf Area
2757mm	1032mm	2.583m ²

A.4.4 Leaf Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated in the following sections, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

The leaf construction must remain as tested, other than the specific design variations permitted herein.

A.4.5 Frame

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2**: The type of metal shall not be changed from that tested.

Permitted variation:

No permitted variation.

A.4.6 Paint

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.3.1**: Where the paint finish is not expected to contribute to the fire resistance of the door, alternative paints are acceptable and may be added to door leaves or frames for which unfinished test specimens were tested.

Permitted variation:

No permitted variation.

A.4.7 Seals

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

No permitted variation

A.4.8 Hardware

A.4.8.1 Hinges and Dog Bolts

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.5**: The number of hinges and dog bolts may be increased but shall not be decreased.

Permitted variation:

The doorset design must be fitted with at least the same number of door security bolts as that tested in Chilt/RF13137 Revision C.

A.4.8.2 Locks/latches

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.5**: The number of movement restrictors such as locks and latches is not covered by direct application. Interchange of building hardware is not covered by the field of direct application.

Permitted variation:

The doorset design must be fitted with the same lock as that tested in Chilt/RF13137 Revision C.

A.4.9 Installation

A.4.9.1 Sealing to the structure

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

A change to the sealing materials between the back of frame and supporting construction to that tested in Chilt/RF13137 Revision C is not permitted.

A.4.9.2 Fixings

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.4**: The number of fixings per unit length used to attach doorsets to supporting constructions may be increased, but shall not be decreased and the distance between fixings may be reduced but shall not be increased.

Permitted variation:

Fixings must be positioned as follows:

- The length of the fixings must not be reduced from that tested (70mm long).
- ≤ 50mm from corners of the doorset
- ≤ 450mm centres between the fixings
- The fixings must be appropriate to the supporting construction to which the doorset is installed.

A.4.9.3 Door Gaps

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.5**: The maximum size of the primary gaps is restricted to the following sizes in practice: $x = (a + b)/2 + 2$ mm where x is the maximum permitted gap size; a is the maximum measured gap size; b is the mean measured gap size. The minimum size of the primary gaps may be reduced. The permitted gap size may be different for different parts of the door.

Permitted variation:

On the basis of the above defined rules the gaps within the following table may be applied but not exceeded:

Gap Location	Maximum Permitted Gap Dimension (mm)
Across the Head	2.9
Hanging Edge	4.6
Closing Edge	3.0
Threshold	2.6

A.4.10 Supporting Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.6**: The fire resistance of a door tested in an associated supporting construction has no field of direct application. The applicability of the result to other supporting constructions shall be the subject of extended application.

Permitted variation:

The doorset tested in Chilt/RF13137 Revision C must be fitted in the supporting construction design in which it was tested.

A.4.11 Orientation

Applicable DIAP rules:

BS EN 1634-1: 2014+A1: 2018 clause **13.4**: EN 1363-1 states that for separating elements required to be fire resisting from both sides, two test specimens shall be tested (one from each direction) unless the element is fully symmetrical, i.e. the construction of the doorset is identical on both sides of the centre line when viewed in plan (from above).

Permitted variation:

The doorset tested in Chilt/RF13137 Revision C was asymmetric and therefore can only be fitted opening away the furnace.

Annex B - Direct Field of Application WF434360 Doorset B

B.1 Rules

This Direct Field of Application (DIAP) has been derived based on the field of direct application of test result rules found within Clause 13 of BS EN 1634-1:2014+A1:2018.

B.2 General Description of Construction

The materials, construction and specification of the Panel Technologies 51 doorset design as tested in WF434360 Doorset B, relevant to this classification report are detailed within the test report referenced in section 3.

B.3 Design Variations

This Annex details the permitted variation to the design tested in WF434360 Doorset B whilst maintaining the products ability to meet the classification periods outlined within Section 4.2 of this report.

Other than the permitted variations detailed in this Annex, the materials, construction and specification of the doorset must remain as tested in WF434360 Doorset B.

B.4 Field of Application

B.4.1 Configuration

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1:** The number of leaves and the mode of operation (e.g. sliding, single action or double action) shall not be changed.

Permitted variation for:

Based on the above rules it is not permitted to change the number of leaves or mode of operation therefore, the doorsets must consist of 1No. leaves and be of a single acting operation.

Number of Leaves	Mode of Operation
1	Single Action

B.4.2 Materials and Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1:** Unless otherwise stated in the following sections, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

The following sections give the permitted variation to materials and construction to that tested and described in WF434360 Doorset B.

B.4.2.1 Door panel thickness and density

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2:** The type of metal shall not be changed from that tested. The number of stiffening elements for uninsulated doors may be increased proportionally with the increase in size but shall not be reduced.

Permitted variation:

Not permitted.

B.4.2.2 Composition of door panel

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: The materials and construction of the doorset shall be the same as that tested.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2**: The type of metal shall not be changed from that tested.

Permitted variation:

Not Permitted.

B.4.3 Leaf Size

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.2**: The amount of variation of size permitted is dependent on whether the classification time was just reached (Category 'A') or whether an extended time (Category 'B') in accordance with the values shown in Table 1 were fulfilled before the test was concluded.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.1** For Category 'A' tests with no overrun of classification period, no increased is allowed. Unlimited reductions from the tested specimen are permitted.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.2**: For smaller doorset sizes the relative positioning of movement restrictors (e.g. hinges and latches) shall remain the same as tested or any change to the distances between them will be limited to the same percentage reduction as the decrease of test specimen size.

Permitted variation:

A decrease in leaf size is permitted provided that the relative positioning of movement restrictors (e.g. hinges and latches) are the same as tested or any change to the distances between them are limited to the same percentage reduction as the decrease of test specimen size.

Tested Leaf Height	Tested Leaf Width	Tested Leaf Area
2395mm	895mm	2.143m ²

B.4.4 Leaf Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated in the following sections, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

The leaf construction must remain as tested, other than the specific design variations permitted herein.

B.4.5 Frame

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.2.2**: The type of metal shall not be changed from that tested.

Permitted variation:

No permitted variation.

B.4.6 Paint

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.3.1**: Where the paint finish is not expected to contribute to the fire resistance of the door, alternative paints are acceptable and may be added to door leaves or frames for which unfinished test specimens were tested.

Permitted variation:

No permitted variation.

B.4.7 Seals

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

No permitted variation

B.4.8 Hardware

B.4.8.1 Hinges and Dog Bolts

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.5**: The number of hinges and dog bolts may be increased but shall not be decreased.

Permitted variation:

The doorset design must be fitted with at least the same number of door security bolts as that tested in WF434360 Doorset B.

B.4.8.2 Locks/latches

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.5**: The number of movement restrictors such as locks and latches is not covered by direct application. Interchange of building hardware is not covered by the field of direct application.

Permitted variation:

The doorset design must be fitted with the same lock as that tested in WF434360 Doorset B.

B.4.9 Installation

B.4.9.1 Sealing to the structure

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.1**: Unless otherwise stated, the materials and construction of the doorset or openable window shall be the same as that tested.

Permitted variation:

A change to the sealing materials between the back of frame and supporting construction to that tested in WF434360 Doorset B is not permitted.

The supporting construction must include aperture lining as tested in WF434360 Doorset B.

B.4.9.2 Fixings

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.5.4**: The rules for alternative supporting constructions assume that the fixings methods used in each type of supporting construction are appropriate.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.2.4**: The number of fixings per unit length used to attach doorsets to supporting constructions may be increased, but shall not be decreased and the distance between fixings may be reduced but shall not be increased.

Permitted variation:

Fixings must be positioned as follows:

- The length of the fixings must not be reduced from that tested (66mm long).
- No further from the corners of the doorset than tested in WF434360 Doorset B.
- $\leq 300\text{mm}$ centres between the fixings
- The fixings must be appropriate to the supporting construction to which the doorset is installed.
- Where the doorset is installed in a steel stud supporting construction, a minimum of 67mm x 29mm softwood timber infill is required to facilitate fixings.

B.4.9.3 Door Gaps

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.3.3.2.5**: The maximum size of the primary gaps is restricted to the following sizes in practice: $x = (a + b)/2 + 2$ mm where x is the maximum permitted gap size; a is the maximum measured gap size; b is the mean measured gap size. The minimum size of the primary gaps may be reduced. The permitted gap size may be different for different parts of the door.

Permitted variation:

On the basis of the above defined rules the gaps within the following table may be applied but not exceeded:

Gap Location	Maximum Permitted Gap Dimension (mm)
Across the Head	2.0
Hanging Edge	3.6
Closing Edge	3.6
Threshold	2.0

B.4.10 Supporting Construction

Applicable DIAP rules:

- **BS EN 1634-1: 2014+A1: 2018** clause **13.5.3**: The fire resistance of a door tested in one of the flexible standard supporting construction specified in EN 1363-1 can be applied to a door mounted in the same manner in a wall or partition which is of the board covered type with studs made from metal or timber. The fire resistance of the door is only applicable to a door mounted in a partition with a fire resistance equal to or greater than the partition in which it was tested. The fire resistance of the partition shall have been established separately in a previous test.
- **BS EN 1634-1: 2014+A1: 2018** clause **13.5.4 (e)**: For uninsulated metal doors, the result of a test in a rigid standard supporting construction is applicable to that door assembly mounted in a flexible construction, but not vice versa.

Permitted variation:

The doorset tested in WF434360 Doorset B may not be fitted into a rigid supporting construction.

The doorset tested in WF434360 Doorset B may be fitted into a flexible supporting constructions (a wall or partition which is of the board covered type with studs made from metal or timber), provided the partition has:

- A fire resistance period (established separately in a previous test) equal or greater than the fire resistance period of the doorset design.

B.4.11 Orientation

Applicable DIAP rules:

BS EN 1634-1: 2014+A1: 2018 clause **13.4**: EN 1363-1 states that for separating elements required to be fire resisting from both sides, two test specimens shall be tested (one from each direction) unless the element is fully symmetrical, i.e. the construction of the doorset is identical on both sides of the centre line when viewed in plan (from above).

Permitted variation:

The doorset tested in WF434360 Doorset B was asymmetric and therefore can only be fitted opening towards the furnace.