
Title:

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

Approved Body No:

1314

Product Name:

Falcon Timber Ltd,
DC44-E30-STD-ULSASD-INT-G

WF Classification Report No.:

WF555405

Issue Number:

1

Prepared for:

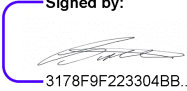
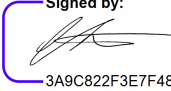
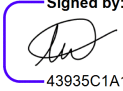
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Date of Issue:

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Signatories and revision history

Issue No.	Date	FM No.	Report scope and signatures
1	23/10/2025	555405	Initial report issued to Falcon Timber Ltd
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1. Introduction

This resistance to fire classification report defines the classification assigned to the product family referenced DC44-E30-STD-ULSASD-INT-G in accordance with the procedures given in EN 13501-2:2023.

2. Details of classified product

2.1 General

The doorset design referenced, the DC44-E30-STD-ULSASD-INT-G product family (as described by the sponsor), 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 self-closing as a normal mode of operation.
- The doorset is completed with building hardware and is contained within a single perimeter frame for inclusion of a single aperture.
- The leaf may be fitted both with and without vision panels and includes seals for fire resistance and ambient temperature smoke control.

2.2 Type of Function

The general technical specification for the DC44-E30-STD-ULSASD-INT-G product family being considered within this classification report is summarised as follows:

- The door leaf comprises a Falcon Timber Ltd, Duocore door blank and includes 5 layers of Albasia Falcata of varying thicknesses (43.8mm thick overall) with 0.5mm thick outer Albasia Falcata facing veneer. The door leaf is lipped on all edges with hardwood.
- The door leaf nominal thickness is 44mm and the leaf is hung within a timber door frame.

The door frame construction comprises:

- A softwood door frame measuring 70mm (w) x 30mm (t) excluding the door stop. The stop measures 20mm (w) x 12mm (d).

The doorset design incorporates hardware, intumescent seals and non-intumescent seals (i.e. smoke and weather seals) and may be optionally glazed.

The DC44-E30-STD-ULSASD-INT-G product family detailed in this classification report is defined as fire resisting doorsets as described in in clause 7.5.5 of BS EN 13501-2: 2023. Their function is to:

1. Resist fire in respect of the fire performance characteristics given in clause 5.2.2 of BS EN 13501-2: 2023

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 doorsets, shutter assemblies and openable windows including their closing devices. The product is to be classified for integrity (E) & radiation (W) only.

2.3 Description

The DC44-E30-STD-ULSASD-INT-G doorset design is fully described in the test reports and extended application reports in support of this classification, listed in clause 3.

The scope of application for the DC44-E30-STD-ULSASD-INT-G product family is summarised below. For specific details on approved products and scope of application the Extended Field of Application (EXAP) report referenced WF550028 must be referred to:

- Unlatched single acting, single leaf doorsets opening towards and away from the fire test conditions.
- Alternative doorset dimensions (smaller than tested).
- Doorsets fitted with and without glazed apertures.
- The doorset has various decorative and protective face options to suit end use application and aesthetic requirements.
- Hardware options: steel butt hinges, single point locking system, handles, overhead face fixed closers and more as defined within the EXAP

3. Test reports in support of the classification

3.1 Test Report

Name of laboratory	Name of sponsor	Test or EXAP Report reference number	Test Method / EXAP Standard	Test / Report date
Warringtonfire Testing and Certification Limited	Falcon Timber Ltd	WF547225	BS EN 1634-1: 2014+A1:2018	30/10/2024
Warringtonfire Testing and Certification Limited	Falcon Timber Ltd	WF550028	BS EN 15269-3: 2022 & BS EN 15269-20: 2020	09/10/2025

3.2 Results

3.2.1 WF547225

The following table summarises the results of the test and provides information on the performance of the doorsets in fire test conditions that is required to extend the scope of application for the design using the rules in BS EN 15269-3: 2022.

Doorset Reference	Integrity	Result (minutes)			Category of performance ¹ (A or B)	Distortion ² (Low, Med, High)
		Insulation		Radiation		
		(I ₁) ³	(I ₂) ⁴			
Doorset A	42	N/A	N/A	42	B	Low
Doorset B	42	N/A	N/A	42	B	Medium

1. In accordance with clause 13.3.2 of BS EN 1634-1: 2014 + A1: 2018
2. In accordance with Annex A of BS EN 15269-3: 2022
3. Supplementary procedure for maximum temperature rise (I₁) in accordance with 11.2.5 in BS EN 1634-1: 2014 + A1: 2018
4. Normal procedure for maximum temperature rise (I₂) in accordance with 11.2.4 in BS EN 1634-1: 2014 + A1: 2018

3.2.2 WF550028

The Extended Field of Application (EXAP) report was commissioned by Falcon Timber Ltd and relates to the fire resistance of the DC44-E30-STD-ULSASD-INT-G product family, which comprises a 30 minute fire resisting timber based doorset design.

The EXAP report concerns test results obtained in accordance with test method BS EN 1634- 1: 2014 + A1 2018; *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows* and BS EN 1634- 3: 2004; *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control doors and shutters assemblies*

The extended application process is carried out in conformity with the following standards:

- BS EN 15269-1: 2019; Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 1: General Requirements
- BS EN 15269-3: 2022; Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows

The report is to be used for extending the field of application for the DC44-E30-STD-ULSASD-INT-G product family and has been written in accordance with the principles outlined in BS EN 15725: 2023; Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports.

The report is to be used to support the formal fire resistance classification for the DC44-E30-STD-ULSASD-INT-G product family against BS EN 13501-2: 2023; Fire classification of construction products and building elements Part 2: Classification using data from fire resistance tests, excluding ventilation services.

To prepare the EXAP, in accordance with Annex A of BS EN 15269-3: 2022, the EXAP rules given in table A.1 and table A.2 of BS EN 15269-3: 2022 have been applied by experts competent in the field of fire resistance testing of hinged and pivoted doorsets with timber based leaves

Fire Performance Parameters

The fire performance parameters for the range of designs covered in the extended field of application report for the Falcon Timber Ltd, DC44-E30Sa-STD-LSASD-INT-G product family is tabulated below:

Integrity	
Cotton pad	30 (Thirty) minutes
Continuous flaming	30 (Thirty) minutes
Gap gauges	30 (Thirty) minutes
Insulation	
Average	0 (Zero) minutes
Maximum temperature rise (normal procedure for insulation 2)	0 (Zero) minutes
Maximum temperature rise (supplementary procedure for insulation 1)	Not Evaluated
Radiation	
<15kw/m ²	30 (Thirty) minutes

The legal validity of this classification report can only be claimed on the presentation of the complete classification report.

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 DC44-E30-STD-ULSASD-INT-G product family may be classified to the following combinations of performance parameters and classes as appropriate.

R	E	I	W		<i>t</i>	<i>t</i>	-	M	Sa ₄	-	C	IncSlow	sn	ef	r
x	✓	x	✓		x	x		x	x		x	x	x	x	x

Considering the test evidence submitted for classification, latched, glazed & unglazed, single leaf, single acting doorsets provide the following classifications:

Fire resistance classification*:

EW30

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

** Note: the classifications stated are the maximum classifications permitted. Any classification period below this is covered by default.*

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 classified for integrity (E), radiation (W) performance only.

4.3 Field of application

4.3.1 General

The test results generated for the DC44-E30-STD-ULSASD-INT-G product family have been extended using the rules given in the relevant extended application standards for fire resisting door sets. The report is referenced in section 3 of this classification report.

According to Section 5 of EN 15725 - Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports, an extended application report is equivalent to a test report in that it forms the basis of preparing a classification report.

The scope of application presented within the fire resistance EXAP report for the DC44-E30-STD-ULSASD-INT-G product family design has been written to provide the same extension to scope and the same design options for the product family.

The classification stated in section 4.2 of this report is therefore valid for the DC44-E30-STD-ULSASD-INT-G product family presented in the EXAP for fire resistance performance referenced in section 3.2.2 of this classification report.

5. Limitations

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