

**Certificate No:** ET-0285-20

**Name and address of the sponsor:** JELD-WEN Suomi Oy, Jyväskylätie 288 / PL 300, 17201 Vääksy, FINLAND

**Name and address of the producer:** JELD-WEN Suomi Oy, Jyväskylätie 288 / PL 300, 17201 Vääksy, FINLAND

**Product:** Fire rated door F-core (F6 and F7)

**Date:** 14.05.2021

## 1. Essential characteristics and performance

Classification according to EN 13501-2:2016:

Single leaf door set **EI<sub>2</sub>30 - Sa/S<sub>200</sub> - C5<sup>1</sup>**

Double leaf door set **EI<sub>2</sub>30 - Sa/S<sub>200</sub>**

Essential characteristics	Performance								
	E15	E20	E30	E45	E60	E90	E120	E180	E240
Resistance to fire	E <sub>1</sub> 15	E <sub>1</sub> 20	E <sub>1</sub> 30	E <sub>1</sub> 45	E <sub>1</sub> 60	E <sub>1</sub> 90	E <sub>1</sub> 120	E <sub>1</sub> 180	E <sub>1</sub> 240
	EI <sub>2</sub> 15	EI <sub>2</sub> 20	EI <sub>2</sub> 30	EI <sub>2</sub> 45	EI <sub>2</sub> 60	EI <sub>2</sub> 90	EI <sub>2</sub> 120	EI <sub>2</sub> 180	EI <sub>2</sub> 240
	-	EW20	EW30	-	EW60	EW90	EW120	-	-
Smoke control	S <sub>a</sub>				S <sub>200</sub>				
Self-closing	C0	C1	C2	C3	C4	C5			

## 2. Product specification and field of application

Detail	min W, mm	max W, mm	min H, mm	max H, mm	max A, m <sup>2</sup>
<b>Single leaf</b>					
Single leaf dimensions if smoke control S <sub>a</sub> is declared	-	1505	-	3283	3,47
Single leaf dimensions if smoke control S <sub>200</sub> is declared.	-	1082	-	2360	2,31
Single leaf dimensions if fire resistance EI30 is declared	-	1335	-	2360	2,86
<b>Double leaf</b>					
Active leaf dimensions if fire resistance EI30 and/or S <sub>200</sub> is declared	-	1335	-	2360	2,86
Inactive leaf dimensions if fire resistance EI30 and/or S <sub>200</sub> is declared	-	1306	-	2360	2,80
Active leaf dimensions if smoke control S <sub>a</sub> is declared	-	1857	-	3283	4,28

<sup>1</sup> Only valid for single leaf door with max leaf dimensions (941 x 2052) mm, max weight 67,5 kg, Lock Abloy LC 190 + strike plate 4691, door closer Abloy DC335.

Detail	min W, mm	max W, mm	min H, mm	max H, mm	max A, m <sup>2</sup>
Inactive leaf dimensions if smoke control Sa is declared	-	1816	-	3283	4,19
<b>Panels</b>					
Glazed side panel dimensions if fire resistance EI30 is declared	-	564	-	2967	1,52
Glazed over panel dimensions if fire resistance EI30 is declared	-	2674	-	564	1,37
Glazed side panel dimensions if smoke control Sa/S <sub>200</sub> is declared	-	490	-	2580	1,26
Glazed over panel dimensions if smoke control Sa/S <sub>200</sub> is declared	-	2325	-	490	1,14
<b>Glazing in door leaf</b>					
Glass pane in door leaf if fire resistance EI30 is declared	-	707	-	1874	1,20
Glass pane in door leaf if smoke control Sa/S <sub>200</sub> is declared	-	615	-	1630	1,00
Thickness of the door leaf	54 mm				
Door leaf maximum weight with hardware	82 kg				
Frame profile	(42/30 x 92) mm				
Threshold	(22 x 92) mm				

<b>Sealing of the door leaf and frame</b>	
Silicone Ø10 mm or Ø7 mm	In frame. Ø7 mm not allowed for smoke control.
Silicone Ø8 mm	In astragal and door leaf.
Silicone Ø7 mm	In threshold.

<b>Hardware</b>	
Flush bolt	Primo 3000
	OLDA 300 HZ
Lock	Abloy LC190
	Abloy EL 593
	ASSA 565
	Vingcard Essence
	Rollock W212
Strike plate	4691
	LP731
	S212 and ICU
Handle	Primo ZN01
	Forum 4/007 Cr
Hinge	NTR110x30TMRKSS-CE
	NTR 110x30T
	VX-StarTec 924.15.403
Door closer	Abloy DC335
	Dorma TS83
	Dorma TS86



Hardware	
	Geze TS 4000
Lead cover	LP 281/EA 281
Doorbell	DF64
Letterbox	Primo 31 <sup>2</sup>
Door viewer	Beslagia 15 mm
Door sensor	EA501 – EA503
Finger safe	MK1A PVC-U 2030 mm White
	MK1B PVC-U 2030 mm White

### 3. General field of application

Defined field of application	
if fire resistance is declared	if smoke control is declared
The thickness of the door leaf shall not be reduced but may be increased provided the total weight with hardware in not more than 82 kg.	The thickness of the door leaf shall not be reduced but may be increased.
The mode of operation shall not be changed.	
Distance between fixings may be decreased. Increase in distance is allowed only pro rata with the increase of door dimension	Distance between fixings can be decreased and increased.
The type of glass and the edge fixing technique, including type and number of fixings per metre of perimeter, shall not be changed from those tested.	For Sa possible to change of manufacturer and/or glass type. For S <sub>200</sub> possible if the glass is fire resistant or will not fracture at temperatures less than 200 °C.
The number of glazed apertures cannot be increased.	Possible for Sa to increase the number of glazed apertures providing the air leakage rate is calculated proportionately. Not possible for S <sub>200</sub> to increase the number of glazed apertures.
Doorset may be produced with glazing or without glazing.	
The minimum permitted distance between the edge of glazing and the vertical edge of the door leaf is 155 mm. The minimum permitted distance between the edge of glazing and the horizontal edge of leaf is 200,5 mm.	For Sa the the distance can be decreased. For S <sub>200</sub> the minimum permitted distance between the edge of glazing and the vertical edge of the door leaf is 155 mm. The minimum permitted distance between the edge of glazing and the horizontal edge of leaf is 200,5 mm.
The door leaf and the door frame may be painted.	
Thickness ≤ 1 mm, 1,4 m <sup>2</sup> or up to 56% of leaf area. Thickness ≤ 2 mm 1,0 m <sup>2</sup> or up to 40% leaf area. If fixed by screws 200 mm width x leaf height or 500 mm height x door leaf width.	Possible for Sa to add protective plates. Possible for S <sub>200</sub> providing no thicker than 1,5 mm or, if thicker than 1,5 mm, limited to one piece up to 800 mm from the base of the leaf or limited to maximum two pieces per face at 250 mm in width or height and providing the sealing system is unaffected.

<sup>2</sup> Not allowed for smoke control



Defined field of application	
if fire resistance is declared	if smoke control is declared
Timber based mouldings can be allowed to the face of the leaf, provided that the surface of the leaf is not covered by more than 25% and the weight of the leaf is not increased by more than 25%.	Mouldings can be added.
Decorative facings of reaction to fire classification B-F, or metals with melting points below 660 °C, with a thickness up to 3 mm for timber veneer or 2 mm for other materials including laminates may be added to the faces of the door leaf.	Possible to add laminates and veneers up to 1,5 mm thick.
Minimum two hinges for each door leaf must be used, depended on door leaf size and weight. The number of hinges may be increased but not decreased. The distance between top hinge and top of door leaf may be decreased but not increased. The distance between bottom hinge and bottom of door leaf may be decreased but not increased. Intermediate hinges can be positioned without limitations.	For Sa the distance between hinge and door leaf edge may be decreased/increased. For S <sub>200</sub> doors subject to a maximum variation by 100 mm.
It is possible to change lock/strike position ± 200 mm.	
It is possible to change lock/strike position to a position of up to 300 mm higher than tested position in line with an increase in door leaf height	-
The door must be installed with threshold or the gap between door leaf and floor is maximum 6 mm, and 2,5 x 10 mm Intumex LSSK is positioned in the bottom of the door leaf, and the flooring is non-combustible (at least A2-fl, s1) or a metal plate with at least the width of the door leaf is positioned beneath the door leaf.	The doors can be installed without threshold in case of Sa. The door must be installed with threshold in case of S <sub>200</sub> .
Doorset may be mounted in rigid and in flexible supporting construction.	
Installation gap ≤ 20 mm shall be sealed with compressed stone wool or fire rated foam.	Installation gap ≤ 20 mm shall be sealed with compressed stone wool, ≤ 15 mm shall be sealed with fire rated foam.

