Approved technical description TS-ET-0285 version 05, APPENDIX Z

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

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

Name and address of the producer: **JELD-WEN Suomi Oy, Sammonkatu 4 / PL 1016, 70501 Kuopio, FINLAND**

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

Date: **11.07.2025**

1. Essential characteristics and performance

Classification according to EN 13501-2:2023:

Single leaf door set $EI_1$30 – Sa_4/S_{200} – C5[1]

Double leaf door set $EI_1$30 – Sa_4/S_{200} – C

Table 1. Essential characteristics and performance.

Essential characteristics	Performance										
Resistance to fire	**E**	15	20	30	45	60	90	120	180	240	360
	EI_1	15	20	30	45	60	90	120	180	240	360
	EI_2	15	20	30	45	60	90	120	180	240	360
	EW	15	20	30	45	60	90	120	180	240	360
Smoke control	**S_a**	3					4				
	S_{200}										
Self-closing	**C**	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^2
Leaf size					
Active leaf dimensions if fire resistance EI30 is declared	-	1335	-	2360	2,86
Inactive leaf dimensions if fire resistance EI30 is declared	-	1306	-	2360	2,80
Active/inactive leaf dimensions if smoke control S_a/ S200 is declared	-	1223	-	2372	2,9
Panels					
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

[1] 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 laser Abloy DC335.

Kiwa Estonia OÜ
Mäealuse tn 2/4, 12618 Tallinn, Eesti
Tel +372 659 9470
estonia@kiwa.com

Detail	min W, mm	max W, mm	min H, mm	max H, mm	max A, m^2
Glazed side panel dimensions if smoke control S_a is declared	-	980	-	5160	-
Glazed side panel dimensions if smoke control S_{200} is declared		980	-	3580	-
Glazed over panel dimensions if smoke control S_a is declared	-	4650	-	980	-
Glazed over panel dimensions if smoke control S_{200} is declared		3325	-	980	-
Glazing in door leaf					
Glass pane in door leaf if fire resistance EI30 is declared	-	707	-	1874	1,20
Glass pane in door leaf if smoke control S_a/S_{200} is declared	-	698	-	1972	1,37
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				

Sealing of the door leaf and frame	
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.

Hardware	
Flush bolt	Primo 3000
	OLDA 30 HZ
Lock	Abloy LC102, LC120, LC121, LC204, LC190, EL593, LE180, LE184, LE190x, LE193, LC194, OP 193, LC197, LC290, LC291, L4181, EL596FU, EL596, EL596FL, EL581, EL583, BL581, BL583
	ASSA 565, 560, 562, 1560, 6585, 2000, 7787, 8765, 504, 509, 1520, 8560, 8561, 1498, 2565, 6498, 5761, 8768, 564, 310-50, 311, 340, 410, 411, 510, 2002, 2500, 212, 22x, 23x, 610, 62x, 636, 640, 710, 732, 76x, 772
	Vingcard Essence
	Rollock W212
	ECO SCHULTE GBS 81, GBS 92, GBS 93, ECO 110
Strike plate	4691
	LP731
	LP711
	LP712
	LP721
	LP722
	S212 and ICU
	EP_SECAA
Handle	Primo ZN01

	Forum 4/007 Cr
	Abloy Polar
	VAL5_008EM_NIS 474301504765
Hinge	NTR110x30TMRKSS-CE
	NTR 110x30T
	VX-StarTec 924.15.403
	Tectus 340 FR
Door closer	DC335-190
	DC330-195
	DC700DA
	TS83
	TS86
	ITS96
	TS 4000
Lead cover	LP 281/EA 281
Doorbell	DF64 A
Letterbox	Primo 31[2]
Door viewer	Beslagia 15 mm
Door sensor	EA501 – EA503
Card reader	HID R10
Finger safe	MK1A PVC-U 2030 mm White
	MK1B PVC-U 2030 mm White

3. General 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 S_a possible to change of manufacturer and/or glass type. For S_{200} 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 S_a to increase the number of glazed apertures providing the air leakage rate is calculated proportionately. Not possible for S_{200} 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	The minimum permitted distance between the edge of glazing and the vertical edge of the door leaf is 262,5 mm. The minimum permitted

[2] Not allowed for smoke control

if fire resistance is declared	if smoke control is declared
glazing and the horizontal edge of leaf is 200,5 mm.	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.	
Protective plates Thickness ≤ 1 mm, 1,4 m^2 or up to 56% of leaf area. Thickness ≤ 2 mm 1,0 m^2 or up to 40% leaf area.	Possible for S_a to add protective plates. Possible for S_{200} to add 1,25 mm stainless steel kick plates (1169 x 885) mm and (1169 x 875) mm on both side of the door leaf.
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 3 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 S_a the distance between hinge and door leaf edge may be decreased/increased. For S_{200} 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 hardwood threshold or concealed mechanical drop seal.	