

FIRE RESISTANT INTERNAL DOOR FD18

Description:

Hinged timber leaf hung in timber frame.

The door is intended to use for closing entrances between the fire compartments of heated working and living premises. The difference of temperature of the rooms so separated cannot exceed 5 $^{\circ}$ C.

Performance characteristics:

Fire resistance: EI₁30

Smoke control: Sa/S₂₀₀ (single-leaf, without glazing)

Self-closing: C0

Sound insulation: Rw 38dB (single-leaf, without glazing)*

Technical data:

Dimensions: Single-leaf: M7-M10 x M21 (max M10 x M22).

Double-leaf: M15-M20 x M21 (max M20 x M22).

Special dimensions available on request.

Door leaf: Door leaf thickness 54 mm. Decoration is flush, possible

to order decorative boards and/or slits, grooved pattern

(depth up to 1,7mm).

Glazing: Glass opening max dimensions 733 mm x 1920 mm,

glass Fireswiss Foam 30-15, painted wooden glazing

bead, fixing with screws.

Frame: Softwood frame 42x92 mm, profile FR435 or FR435N.

Threshold: In standard hardwood threshold, height 25 mm, type RO.

Also available with height 22 mm or 20 mm and

automatic threshold.

Finishing: Door leaf and frame painted white (NCS S 0502-Y),

special colors by catalogues.

Fittings: In standard Assa 565 lock case and adjustable striker

plate 0094 (see also alternative fittings for fire- and

smoke resistant doors ASL-08-0001).

Hinges: Abloy 3248-110 TMKSS (3 pcs) or 110 x36 KSS (3 pcs)

Accessories: - RST kick plate

- extra security lock ASSA 411 or Abloy 4181

- doorbell Abloy DF64 - door eye Y180

- door eye 1760 - door closer Abloy DC335+DC199, Dorma TS 73,

TS 93 or ITS 96 2-4+G96 N20 P

- coordinator Olda 30DK

- lead cover and cable Abloy EA281

- key tube ASSA 88

- panic bar (surface mounted)

- flush bolt, automatic Olda 28HZ, Olda 30HZ or manual

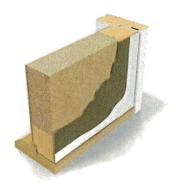
Oda 31HZ-C

Certificates: kiwa Certificate of Conformity no. ET-0221-18 (Inspecta

Estonia OÜ)

Packing: Door leaf packed with frame. Edges covered with

protective board and door coated with plastic.



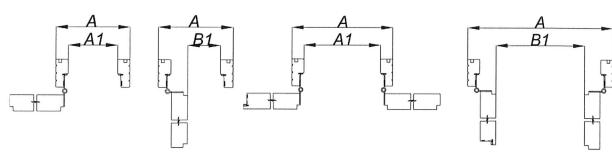




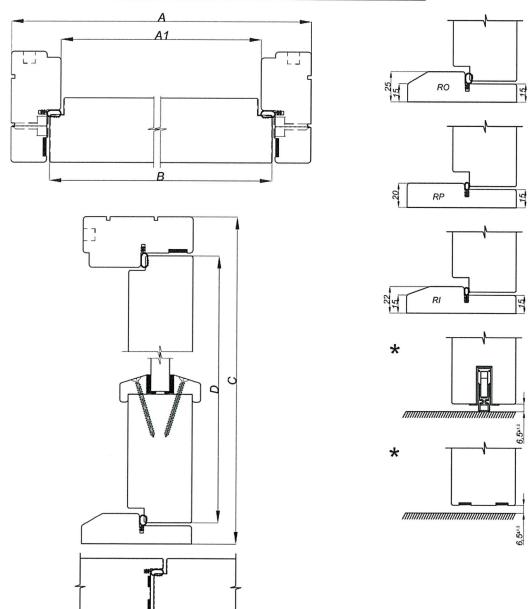








Module	A (mm)	A1 (mm)	B (mm)	B1 (mm)	C (mm)	D (mm)
Single-leaf M9 x 21	890	806	825	750	2090	2040
Single-leaf M10 x 21	990	906	925	850	2090	2040
Double-leaf M19,3 x 21	1917	1833	925+925	1720	2090	2040
Double-leaf M20 x 21	1990	1906	968+955	1793	2090	2040



^{*}Not allowed for double-leaf doors.

Construction without threshold is not allowed for single-leaf sound proof doors.



Declaration of performance

Producer: AS VILJANDI AKEN JA UKS, reg no 10052966, Puidu 6, 71020 Viljandi, Estonia

Hereby declares that

Product: internal door FD18

Product description: hinged timber leaf hung in timber frame, fire resistant and sound insulation wooden

door.

Intended use or uses of the construction product: for closing entrances between the fire compartments of

heated working and living premises.

Systems of assessment and verification of constancy of performance of the construction product:

system 1

Produced: AS Viljandi Aken ja Uks, Puidu 6, 71020, Viljandi, Estonia

Confirms with following characteristics:

No	Characteristics	Test or calculation standard	Classification standard	Unit	Class/ value	Test report	Notified body*
1.	Fire resistance	EN 1634-1	EN 13501-2	Class	El₁30 El₂30 E30	735-18T2PAU TEK-249/19	1526
2.1.	Single door with wooden threshold, key tube and doorbell			dB	40	VTT-S-05873-14	0809
2.2.	Single door with wooden threshold, key tube, letterbox, door viewer and doorbell	EN 100 40440 0	100 747 4	dB	38	VTT-S-05873-14	0809
2.3.	Single door with drop down seal (Planet PU), key tube and doorbell	EN ISO 10140-2	ISO 717-1	dB	39	VTT-S-05873-14	0809
2.4.	Single door with wooden threshold and glass Fireswiss foam 30-15			dB	38	EUFI29- 19005198	0809
3.	Smoke control	EN 1634-3	EN 13501-2	Class	Sa/S ₂₀₀	SD-181-19-0061 SD-181-19-0064	1336
4.	Self-closing	EN 1191	EN 13501-2	Class	C5	DD-181-19-0065	1336
5.	Burglary resistance	EN 1628 EN 1629 EN 1630	EN 1627	Class	RC2	2P06613	0402

*Notified body:

0809 - Eurofins Expert Services Oy

1526 – TÜV Eesti ÖÜ

1336 - Inspecta Estonia OÜ

0402 - RISE Research Institutes of Sweden AB

- Products are produced according to standardisation proposal SFS 4434 in case it is not in conflict with European standards.
- Products are installed according to the product installation and maintenance instructions.
- "Warranty conditions for doors and windows sold by AS Viljandi Aken ja Uks" apply to the sale of products.

AS Viljandi Aken ja Uks

Veiko Põldsaar R&D Manager 22.01.2021

Certificate of conformity ET-0221-18



Based on Estonian Regulation No. 49 of the Minister of Economic Affairs and Communications of 26.07.2013 "Requirements and procedure for attestation of the conformity for building materials and construction products" § 4, it has been stated that the construction product

Single- and double leaf fire resistant wooden door FD18

placed on the market by

Viljandi Aken ja Uks AS

Puidu tn 6, 71020 Viljandi linn, Viljandi maakond, ESTONIA

and produced in the factory

Viljandi Aken ja Uks AS

Puidu tn 6, 71020 Viljandi linn, Viljandi maakond, ESTONIA (Projektuksetehas: Pärnu mnt 20, 71012 Viljandi linn, Viljandi maakond, ESTONIA)

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that Inspecta Estonia OÜ has performed type testing, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

EN 16034:2014

were applied and that the product fulfils all the prescribed requirements.

This certificate is issued on **03.09.2018** and remains valid until **02.09.2023** as long as the conditions laid down in the standard in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. The validity of the certificate can be checked on the Internet at www.inspecta.com/et. Classification and field of direct application is presented in the TS-ET-0221 Appendix Z.

German Virte Head of the conformity assessment department

Tallinn 03.09.2018

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12618 Tallinn
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Certificate No: ET-0221-18

Name and address of the sponsor: Viljandi Aken ja Uks AS, Puidu tn 6, Viljandi linn, 71020 Viljandi maakond, ESTONIA

Name and address of the producer: Viljandi Aken ja Uks AS, Puidu tn 6, Viljandi linn, 71020 Viljandi maakond, ESTONIA (Projektuksetehas Pärnu mnt 20, Viljandi linn, 71012 Viljandi maakond, ESTONIA)

Product: Single- and double leaf fire resistant wooden door FD18

Date: 11.11.2019

1. Essential characteristics and performance

Classification of single leaf door according to EN 13501-2:2016: EI₁30 - Sa/S₂₀₀ - C5

Essential characteristics	Perform	mance							
	E15	E20	E30	E45<	E60<	E90	E120	E180	E240
Desistance to five	El ₁ 15	El ₁ 20	El ₁ 30	El ₁ 45	El160	El ₁ 90	El-120	El ₁ 180	El ₁ 240
Resistance to fire	El ₂ 15	El ₂ 20	El ₂ 30	El ₂ 45	El ₂ 60	El₂90	El ₂ 120	El₂180	El ₂ 240
	-	EW20	EW30	-	EW60	-	-	-	-
Smoke control	Sa				S ₂₀₀	0			
Self closing	CO	C1 *		C2 *	C3	*	C4 *	C5	*

^{*} The self-closing classifications C1-C5 cover only doors with a door leaf weight ≤ 80 kg.

2. Product specification and field of application

Configuration allowed	Max dim	ensions of	leaf	Perfor	formance			
	W, mm	H, mm	A, m ²	EI₁30	Sa	S ₂₀₀	C5	
Leaf of single leaf doorset without letter	1113	2461	2,48	+	+			
plate	1063	2461	2,38	+	+	+		
Leaf of single leaf doorset with letter plate	971	2154	2,09	+	+	+		
Leaf of single leaf doorset (with or without	967	2140	2,06	+	+	+	+	
letter plate)	1063	2472	2,38		+	+	><	
	1480	3440	3,57		+	><		
Active leaf of double leaf doorset without	1113	2461	2,48	+	+	- Commonweal		
letter plate	1112	2461	2,48	+	+	+	><	
Active leaf of double leaf doorset with letter plate	971	2154	2,09	+	+	X	$\overline{}$	
	971	2140	2,07	+	+	+		
Active leaf of double leaf doorset (with or	967	2140	2,06	+	+	+	+	
without letter plate)	1112	2461	2,48		+	+	X	
	1547	3424	3,72		+	X	><	
Passive leaf of double leaf doorset without letter plate	1098	2461	2,45	+	+	+	X	
Passive leaf of double leaf doorset with	981	2154	2,11	+	+	X		
letter plate	981	2140	2,09	+	+	+		
Passive leaf of double leaf doorset (with or	967	2140	2,06	+	+	+	+	
without letter plate)	1112	2461	2,48		+	E E	STO	
	1547	3424	3,72		+/0	AP		
Thickness of the door leaf	54 mm		ACCOMPANIES AND ACCOMPANIES AN	The second second second second	10	(
Frame profile	(42/30 x 9	92) mm			60		1	

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Field of application for fire resistance	Field of application for smoke control		
The mode of operation of leaves shall not be change	d.		
The cross-sectional dimensions and/or the density of reduced but may be increased.	the timber frames (including rebates) shall not be		
Single leaf doorset may be installed with wooden threshold, with mechanical threshold Planet FT, without threshold (gap at the lower edge of leaf ≤ 6 mm) or stainless-steel sheet on the floor.	In case of Sa the single leaf doorset may be installed with wooden threshold, with mechanical threshold Planet FT, without threshold (gap at the lower edge of leaf ≤ 6 mm) or stainless-steel sheet on the floor.		
	In case of S ₂₀₀ the single leaf doorset may be installed with mechanical threshold Planet FT or with wooden threshold.		

Glass panes	Max dim	Performance				
	W, mm	H, mm	A, m ²	EI₁30	Sa	S ₂₀₀
Fireswiss Foam 30-15, thickness 15 mm	839	2202	1,67	+		
	742	1915	1,42	+	+	+
Toughened glass, thickness 8 mm	742	1915	1,42		+	+

Field of application for fire resistance	Field of application for smoke control
Door may be produced up to 1 glazing or without glazing.	Door may be produced up to 3 glazings or without glazing.
The minimum permitted distance between the edge The minimum permitted distance between the edge	of glazing and the vertical edge of leaf is 110 mm. of glazing and the horizontal edge of leaf is 110 mm.
-	The minimum permitted distance between vertical and horizontal edges of glazing is 100 mm.

Sealing of the door leaf and frame	
Intumescent sealing (2,0 x 15)	On vertical frame members and on top frame member.
Intumescent sealing $(2,0 \times 10)$	2 stripes on the lock side edge of passive leaf or on the lower edge of leaf if there is no threshold used.
Silicone sealing Ø 10 mm	On frame and on the lock side edge rebate of passive leaf.
Silicone sealing Ø 6 mm	On threshold if it exists.





Hardware	
Lock	multipointlock ASSA M5001*; ASSA 565*; Abloy EL580*; ASSA 410-50*; Vingcard Signature*; Vingcard Classic*; Rollock Smart Lock E111/E112**
Additional lock	ASSA 411; Abloy 4181
Striking plate	ASSA 730 + 575; ASSA 1887-2; Abloy EL712; Multihela 0094; Rollock ISP-RH; Abloy 5995; EP SECELAS S+EFT-C-RACT9; ASSA 1487-2; Abloy 4691; Abloy LP712; ASSA 5144
Hinges /2 pcs per leaf, if smoke control is declared 3 pcs per leaf, if fire resistance is declared/	Assa Abloy 3248-110; Abloy 110 x 36 TMKS; Tectus 340 3D***; ASSA 3248-01 FOP**; Otlav IN300120; Otlav IN303120
Closer	Dorma TS 73; Dorma TS 93; Assa Abloy DC 355 + DC 199; concealed closer Dorma ITS 96 2-4 + G96 N20 P
Door coordinator	Olda 30 DK
Automatic flush bolt /2 pcs on passive leaf/	Olda 28HZ; Olda 31HZ-C**
Manual flush bolt /2 pcs on passive leaf/	Olda 30HZ**
Quick bolt /1 pc on passive leaf/	Abloy DF3000**
Panic bar	Abloy PBE001; Abloy PBE002
Door viewer	Y180; Amig 180
Door bell	Abloy DF 64A
Letter plate	Primo 31
Lead cover	Abloy EA281
Key tube	ASSA 88

 $^{^{\}star}$ Self-closing C1 - C5 is assured only with strike plates defined in the product family.

^{***} Hardware is not permitted if fire resistance is declared.

Field of application for fire resistance	Field of application for smoke control
995 \pm 200 mm variation from lower edge is allowed. At the main lock.	Additional lock if it exists is positioned 400 mm from
The number of hinges may be increased. The number of hinges may be decreased provided the distance between hinges is ≤ 820 mm.	The number of hinges may be increased.
Distance between the centre of the endmost hinges and edge of doorleaf is 100 mm – 250 mm.	Distance between the centre of the endmost hinges and edge of doorleaf is ≤ 350 mm.
If self-closing characteristics are not required, the doc	orset may be installed without door closing device

3. General field of application

Field of application for fire resistance	Field of application for smoke control
Doorset may be mounted in standard high flexible supporting construction.	density rigid, in standard low density rigid and in standard
The installation gap may be sealed with min with wool and foam.	neral wool, with fire rated PU foam or using combined seaming
Installation gap ≤ 25 mm.	Installation gap ≤ 15 mm, if wool or combined sealing is used. Installation gap for single leaf door ≤ 40 mm and for double leaf door ≤ 5 mm, if foam

^{**} Hardware is not permitted if self-closing C1 – C5 is declared.



Field of application for fire resistance	Field of application for smoke control
The door leaf and the door frame may be painted.	
Timber veneer up to 3 mm thick or decorative laminate, plastic or cloth up to 2 mm thick may be added to the faces (but not the edges) of leaves.	Decorative laminates and timber veneers up to 1,5 mm thickness may be added to the faces (but not the edges) of leaves
Decorative facings such as glass sheet, marble, stone or ceramic tile with a reaction to fire class A1 or A2 may be glued to the faces of leaves (but not to the area of the leaf behind the door frame rebates) providing the total increase in leaf weight is not more than 25 %.	-
Timber-based mouldings may be added to the faces of leaves providing they will not cover more than 25 % of the surface of one face. Timber-based mouldings may be added to the faces of leaves so they will cover more than 25 % of the surface of one face only if the mouldings are placed on both face of leaf and the mass of the leaf is not increased by more than 25 %.	-

The doorleaf may be produced with grooves, if the depth of the groove is ≤ 2.5 mm and cross-section area of the groove is ≤ 50 mm². The minimum distance between edges of parallel grooves is 112 mm. The total area of the grooves may be up to 13% of the area of leaf.

1,0 mm thick and 900 mm high protective stainless-steel sheet may be added on the lower part of leaf and/or frame.





CERTIFIED

Certificate

It's confirm that

Viljandi Aken ja Uks AS, Doorfactory Estonia

Fulfil the requirements according to

NORWEGIAN DOOR- AND WINDOW CONTROL

NDVK-Rules

The certificate include all production of windows and doors, and include the following products:

Door types:

- VU T1 HPL, outward opening timberdoor, with or without glazing.
- VU T1, outward opening timberdoor, with or without glazing.
- FD 14, one sided hinged timber leaf in timber frame, external door.

Oslo date: 05.03.2021

Ole Wide Streets

NDVK chairman

Date of issue first time:

02.01.201

Valid thru:

31.12.2021

Certificate NO.: 061



Quality management in the production of windows and door fulfils the requirement to **NDVK Rules:**

Requirements for doors and windows of 01/2019

and

Rules for certificate and inspection of 01/2019.

The product at page 1 fulfil the requirement according to:

Characteristic	Classification/value										NDVK req.
Air permeability Class Max. test pressure (Pa)	1 150			2 300			3	0	4 600		4
Watertightness Class - Non-shielded (A) Test pressure (Pa)	1 A (0)	2 A (50)	3 A (100)	4 A (150)	5 A (200)	6 A (250)	7 A (300)	8 A (450)	9 A (600)	E (>600)	7A or 7B*
Class - Shielded (B) Test pressure (Pa)	1 B (0)	2 B (50)	3 B (100)	4 B (150)	5 B (200)	6 B (250)	7 B (300)				7A 01 7B

^{*} Requirement for windows and balcony-doors

^{**)} Requirement for Pedestrian doors