

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

## Fire resistant single leaf wooden door FD 60

placed on the market by

**Viljandi Aken ja Uks AS**

Puidu 6, 71020 Viljandi, ESTONIA

and produced in the factory

**Viljandi Aken ja Uks AS**

Puidu 6, 71020 Viljandi, 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 first issued on **30.11.2015** and remains valid until **29.11.2020** 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](http://www.inspecta.com/et). Classification and field of direct application is presented in the TS-ET-0160 Annex Z.

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**Certificate No:** ET-0160-15

**Name and address of the sponsor:** Viljandi Aken ja Uks AS, Puidu 6, Viljandi 71020, ESTONIA.

**Name and address of the producer:** Viljandi Aken ja Uks AS, Puidu 6, Viljandi 71020, ESTONIA.

**Product:** Fire resistant single leaf wooden door FD 60

**Date:** 03.05.2016

## 1. Essential characteristics and performance

The product may be classified as EI<sub>1,60</sub> – Sa/S<sub>200</sub> – C5.

Essential characteristics	Performance								
	E15	E20	E30	E45	E60	E90	E120	E180	E240
Resistance to fire	EI <sub>1,15</sub>	EI <sub>1,20</sub>	EI <sub>1,30</sub>	EI <sub>1,45</sub>	EI <sub>1,60</sub>	EI <sub>1,90</sub>	EI <sub>1,120</sub>	EI <sub>1,180</sub>	EI <sub>1,240</sub>
	EI <sub>2,15</sub>	EI <sub>2,20</sub>	EI <sub>2,30</sub>	EI <sub>2,45</sub>	EI <sub>2,60</sub>	EI <sub>2,90</sub>	EI <sub>2,120</sub>	EI <sub>2,180</sub>	EI <sub>2,240</sub>
	-	EW20	EW30	-	EW60	-	-	-	-
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	max W, mm	max H, mm	max A, m <sup>2</sup>
Door leaf if smoke control S <sub>a</sub> is declared	1480	3424	3,56
Door leaf if smoke control S <sub>200</sub> is declared	1064	2461	2,37
Door leaf if fire resistance EI <sub>1,30</sub> is declared	1064	2346	2,26
Door leaf if fire resistance EI <sub>1,60</sub> is declared	925	2040	1,89
Door leaf if self closing up to C5 is declared	925	2000	1,85
Thickness of the door leaf	54 mm		
Frame profile	30/42 x 92		
Threshold profile	15/20 x 92		

Field of application for fire resistance	Field of application for smoke control
The number of leaves and the mode of operation shall not be changed.	
The thickness of the door leaf or leaves shall not be reduced but may be increased.	
The materials and construction of the doorset shall be the same as that tested.	* The door leaf shall be constructed from similar materials (e.g flaxboard, softwood) and stiffness equal or greater than that tested. Equal or increased stiffness may be assumed for S <sub>a</sub> if a) the leaf is thicker than those tested; b) the facings to the leaf are thicker than those tested; c) the size and density of any framing member enclosing the leaf core is not reduced; d) the glues and jointing procedures are not changed. * For S <sub>200</sub> no variations allowed.
The door leaf thickness and/or density may be increased provided the total increase in weight is not greater than 25 %.	
For timber based products (e.g particle board, blockboard, etc), the composition (e.g type of resin) shall not change from that tested. The density shall not be reduced but may be increased.	
-	The door may be produced with grooves (up to 20 mm x 1,7 mm).

Field of application for fire resistance	Field of application for smoke control
The cross-sectional dimensions and/or the density of the timber frames (including rebates) shall not be reduced but may be increased.	-
* For EI <sub>130</sub> mechanical threshold Planet PU or Planet FT is allowed. * For EI <sub>160</sub> mechanical threshold is not allowed.	* For Sa mechanical threshold Planet PU or Planet FT is allowed. Threshold gaps protected by active drop seals may be varied within the movement range specified by the seal manufacturer. * For S <sub>200</sub> mechanical threshold is not allowed.

Sealing of the door leaf and frame	
Sealing strip (Ø 10 mm)	On top and on vertical frame members.
Sealing strip (Ø 8 mm)	In the threshold groove.
Intumescent sealing (2,0 x 15) mm	On top and on vertical frame members, distance from the edge 10 mm.
Intumescent sealing (2,0 x 10) mm	On the perimeter of the door leaf, placed in the groove.
Rubber sealing	On the frame and door leaf.

Field of application for fire resistance	Field of application for smoke control
-	No modification may be made to the sealing system.

Hardware	
Lock	Assa 565 /positioned 1020 mm from the lower edge of doorleaf/
Additional lock	Assa 4181 /positioned 400 mm from the main lock/
Striking plate	Assa 1887-2
Hinges /3 per leaf/	Abloy 3248-110 / upper and lower hinge is positioned 250 mm from the edge, and one between these /
Closer	Abloy DC405 Abloy DC335
Door bell	Abloy 64 A
Lead cover	Abloy EA 281

Field of application for fire resistance	Field of application for smoke control
If self-closing characteristics are not required the doorset may be installed without door closing device.	
The number of hinges may be increased but shall not be decreased.	
-	* For Sa possible to change position of hardware. * For S <sub>200</sub> not possible.

### 3. General field of application

Field of application for fire resistance	Field of application for smoke control
The door leaf and the door frame may be painted.	
Decorative laminates and timber veneers up to 1,5 mm thickness may be added to the faces (but not the edges) of leaves and frames in doorsets which satisfy the insulation and/or smoke control criteria.	
Doorset may be mounted in rigid and in flexible supporting construction.	

