

## Attachment 1a

Norm EN 12101-2:2003-09

EG-certificate of conformity Nr. 1368-CPD-C004/2007

Date: 30.10.2009

for natural smoke and heat exhaust ventilation (NSHEV) of **Fieger Lamellenfenster GmbH**Productname: **Lamellenfenster Typ FLW SmoTec**

## Data sheet

Possible actuators 24V	Security of functionality RE 1000 (TYP B)	Open with load SL 0	Low ambient temperature T 00	Heat resistance B300	Fire behaviour of materials minimum E
D+H LDF 100/60	yes	yes	yes	yes	yes
STG Beikirch FLA 1200	yes	yes	yes	yes	yes
WSS 60000413 -417	yes	yes	yes	yes	yes
G-U Eltral S 24 LAM	yes	yes	yes	yes	yes
<b>Pneumatic</b>					
Grasl Type PUDV 32_12-M6x45-BA1L	yes	yes	yes	yes	yes

Sizes	BFR min	BFR max	BFR max with centre mullion	HFR min	HFR max	Surface area max with one actuator
FLW SmoTec 24	0,3 m	1,8 m	3,6 m	0,24 m	3,6 m	3,0 m <sup>2</sup> > 3,0 m <sup>2</sup> = 2. actuator
FLW SmoTec 28	0,3 m	2,4 m	4,0 m	0,24 m	3,6 m	3,0 m <sup>2</sup> > 3,0 m <sup>2</sup> = 2. actuator
FLW 24 with pneumatic	0,3 m	1,8 m	3,6 m	0,24 m	3,0 m	2,1 m <sup>2</sup> > 2,1 m <sup>2</sup> = 2. actuator
FLW 28 with pneumatic	0,3 m	2,0 m	4,0 m	0,24 m	3,0 m	2,1 m <sup>2</sup> > 2,1 m <sup>2</sup> = 2. actuator

Sizes of blades	Heights	Blade surface
	min 0,17 m max 0,344 m	max 0,69 m <sup>2</sup>

Glazing	2 x Float 4 mm / SZR 16 mm until width to height ratio 1 / 6 2 x Float 6 mm / SZR 16 mm until width to height ratio 1 / 10 Panel infill
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SZR = Cavity

Windload	ALam < 0,4 m <sup>2</sup> 0,4 m <sup>2</sup> ≤ ALam < 0,5 m <sup>2</sup> 0,5 m <sup>2</sup> ≤ ALam < 0,65 m <sup>2</sup> 0,65 m <sup>2</sup> ≤ ALam < 0,85 m <sup>2</sup>	WL 3000 WL 2500 WL 2000 WL 1500
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Aerodynamic free area calculated by window surface Aaero with an opening angle of 85°	
Cv0 = 0,61	if vent has less than 5 blades
Cv0 = 0,59	if vent has 5, 6 or 7 blades
Cv0 = 0,57	if vent has more than 7 blades
B opening = width minus 84mm (units with centre mullion minus 64mm per mullion) H opening = height minus 59mm (blades are ignored)	
A <sub>v</sub> = B opening x H opening	
A <sub>a</sub> = Cv0 x A <sub>v</sub>	