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**Turn only and Tilt and Turn Windows, fixed windows and French windows (balcony doors) and combination of windows and fixed glazed elements as well as combinations of french windows and fixed glazed elements, turn and tilt and turn opening „SMARTWIN“  
with one or two sashes  
for residential, public and office buildings  
( maximal sizes per element : for one sash window 1,400 m x 1,600 m ,  
for two sash windows and french windows per element : 2,000 m x 2,600 m ;  
for one sash french window maximal size of sash : 0,985 m x 2,55 m  
Fixed glazed elements maximal size per element: 2m x 2,6m ).**

Resistance for wind load :

One sash windows and french windows, fixed elements : **B5(C4)**,  
test pressure 1600 Pa 1 2000 Pa: class 5, bending : 7,38 mm with 1600 Pa,  
9,20mm with 2000 Pa

Two sash windows and french windows : **B3(C2)**, test pressure: 1200 Pa class 3,  
bending : 7,68 mm

Watertightness :

One and two sash windows and French windows, fixed glazed elements : **9A**  
French window with wheel-chair threshold GFK: **8A**

**Dangerous substances** : None

**Load bearing capacity of safety device (tilt and turn)** : Satisfied , 100 N ,class 1

Acoustic performance  $R_w$  (C;C<sub>tr</sub>)

Glazing 4-18-4-18-4 : **36(-2;-6)dB**

Glazing 8-18-4-14-4 : **40(-2;-5)dB**

Glazing 6-16-4-14-2\*0,38si-4) : **44(-2;-5)dB**

Thermal transmittance :

**U<sub>w</sub>=0,66 W/(m<sup>2</sup>K)** with U<sub>g</sub>= 0,54 W/(m<sup>2</sup>.K)

Air permeability :

Windows, french windows and fixed glazed elements : **4**