

I Wind load stability

Technical report no.:	106 31293
Test institute:	ift Rosenheim
Client:	SOLARLUX Aluminium Systeme GmbH Gewerbepark 9-11 49143 Bissendorf
Product/Component	Three-panel slide & turn balcony glazing
Designation	SL 25, SL 25R
Exterior dimensions (W x H)	2700 mm x 2300 mm
(Frame) Material	Aluminium
Special features	Wind load test static / Test specimens 1 a to 4 a Wind load test dynamic / Test specimens 1 b to 4 b

	Test specimen 1	Test specimen 2	Test specimen 3	Test specimen 4
Exterior dimensions (W x H) in mm	2447 x 1800	2447 x 1800	2027 x 2300	2027 x 2300
Glazing	TSG-H, 6 mm	TSG-H, 8mm	TSG-H, 8 mm	TSG-H, 10 mm
Design wind load	Design ¹⁾ wind load (negative/positive pressure) according to TRLV of (evidence referring to stress $\sigma_{zul.} = 50 \text{ N/mm}^2$ without deflection limit)			
	900 Pa	1600 Pa	900 Pa	1500 Pa
Positive wind pressure	Resistance to static wind load no failure at up to			
	1100 Pa	1600 Pa	1300 Pa	1700 Pa
Negative wind pressure	1900 Pa	3400 Pa	1800 Pa	2700 Pa
Positive wind pressure	Resistance to dynamic wind load			
	no failure at up to 32 m/s (approx. 115 km/h) ²⁾			

¹⁾ by the client

²⁾ maximum wind speed of test equipment

The complete test report is available on request.

