

Air permeability FFLH

Test overview air permeability

Window system: Wooden windows

Profile type: IV 80


Width: 1.23 m

Height: 1.48 m

Joint length: 5.10 m

Test report:

- Air permeability in accordance with DIN EN 13141-1 Table 4
- Driving rain resistance in accordance with DIN EN 13141-1 Table 6

FFLH – for all common wooden windows (system IV 80)										
Differential pressure in accordance with DIN 1946-6 in Pa			2	3	4	5	6	7	8	Comment
Airflow volume in m ³ /h	1 unit Rebate vent FFLH (Type 24)		2.1	2.7	3.2	3.6	4.1	4.5	4.7	Test layout corresponds to ift noise insulation test No. Z 35/32 **
	1 pair Rebate vent FFLH (Type 14)									

Observe DIN EN 12207 and DIN 4108-2

** Here, the installation precisely matches the variant shown in the installation instructions of Type 24. For each window casement, the maximum recommended quantity is 2 units of Regel-air® FFLH (Type 24). French casement windows are to be treated as a single casement.

When two units of Type 24 or 2 pairs of Type 14 are installed, the flow volume doubles.

Values may differ slightly depending on profile and window.

Subject to technical changes – legal liabilities cannot be derived from this.

Result of driving rain resistance test

1 unit rebate vent (Type 24)

1 pair rebate vents (Type 14)

No water ingress up to 600 Pa

Noise insulation FFLH

Test overview noise insulation

Summary of the test results for noise insulation of the Regel-air® FFLH

(Test report by the Institute für Fenstertechnik, ift Rosenheim, dated 17/02/2012)

1 unit Regel-air® FFLH Type 24 / 1 pair Regel-air® Type 14				
Test	Airflow inside (4 mm gap by cutting out the sash gasket)	Airflow outside (2.5 mm gap by milling in the window frame rabbet)*	Rw of window WITHOUT Regel-air®	Rw of window WITH Regel-air®
Z35	Inner gasket top right & left cut out by 70 mm each (starting 10 mm each on left & right of Regel-air®)	Top gap in front of Regel-air® along the length of the vent	33 dB	32 dB
Z33	Inner gasket top right & left cut out 60 mm each (starting 120 mm both on right & left of Regel-air®)	Top gap in front of Regel-air® along the length of the vent	38 dB	37 dB
Z30	Inner gasket top right & left cut out 60 mm each (starting 120 mm both on right & left of Regel-air®)	Gap 140 mm on each side** right & left (starting 180 mm from top corner)	46 dB	42 dB
Z28	Inner gasket on side** right & left cut out by 50 mm each (starting 100 mm from the top corner)	Gap 100 mm on each side** right & left (starting 220 mm from top corner)	45 dB	42 dB

2 units of Regel-air® FFLH Type 24 / 2 pairs Regel-air® Type 14

Test	Airflow inside (4 mm gap by cutting out the sash gasket)	Airflow outside (2.5 mm gap by milling in the window frame rabbet)*	Rw of window WITHOUT Regel-air®	Rw of window WITH Regel-air®
Z51	Inner gasket closed for 420 mm in centre in front of vent position, 140 mm cut out on both left & right of it	Gap in front of each Regel-air® set along the length of the vent	38 dB	32 dB
Z47	Inner gasket closed for 680 mm in centre in front of vent position, 120 mm cut out on both left & right of it	Closed for 640 mm in centre in front of vent position (block air only), 150 mm cut out on both left & right of it	38 dB	37 dB
Z55	Inner gasket on side** right & left cut out by 140 mm each (starting 100 mm from the top corner)	Gap 100 mm on each side** right & left (starting 220 mm from top corner)	46 dB	41 dB

*The block air of the test window (external fitting of casement against window frame) was 0.5 mm. In addition, 2 mm were milled into the window frame rabbet, resulting in a gap of 2.5 mm.

** "Side" represents the side of the window frame or casement in this overview. "Top" represents the top window frame or casement.

Values may differ slightly depending on profile and window.

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