Evidence of Performance

Testing the joint characteristics of a sealing system between window and building structure in new condition and after a series of simulated shorttime exposures

Test Report

N° 15-003047-PR01-1

(PB-E03-020310-en-03)

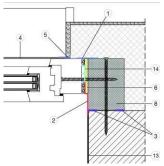
Client	Meesenburg Großhandel KG Westerallee 162 24941 Flensburg Germany	
Product	Sealing system between window and supporting structure in pre-wall installation	
Designation ^{*)}	First external sealing plane: On-site plaster stop bead [®] on sides and at top / aluminum window sill with lateral closures [®] at bottom and window sill sealing blue-yellow sealing tape 600 BG 1 15/2-6 mm [®] / [®] Second external sealing plane, as well as sealing internal: blue yellow foil DuoSL ¹⁰⁵⁰ Power Plus [®] / [®] Joint filling: blue yellow 1K gun foam [®] Assembly door frame: Triotherm+ profile 120 mm x 85 mm [®] , fixed with blue-yellow hybrid polymer Power Fix [®] ; blue-yellow frame fixing screw FK-T30 Ø 7.5 mm x 300 mm and dowel SDH - S10H length 230 mm with washer Ø 20 mm Window fastening: blue-yellow frame fixing screw FK-T30 Ø 7.5 mm x 152 mm, or 132 mm, and blue-yellow frame fixing screw ZK-T30 Ø 7.5 mm x 132 mm	
Installation situation / Boundary conditions ^{*)}	 Hollow block wall with blunt reveal Plastic window with steel reinforcement in frame and casement member. ETICS on outside with partial covering of frame. Window fastening to assembly door frame on sides, at top and at bottom via blue-yellow frame fixing screws FK-T30 / ZK-T30. Fixing distances on sides ≤ 700 mm. Load transfer of dead weight by bearing pads at bottom. Lateral securing by frame fixing screws. 	
Application area	Internal airtight and external watertight joint between external wall and window / casement doors in PVC with equivalent details, as described above.	
Special features	* ⁱ See description of test specimen in section 1 for more details. The tests were carried out in plastered condition, as well as with external window sill and joint filling.	
Results	Air permeability of joint frame member/door frame up to \pm 1,000 Pa in new condition $a < 0.1 \text{ m}^3/[\text{m h } (daPa)^{2/3}]$ Watertightness up to 600 Pa in new condition no water penetration Air permeability of joint frame member/door frame up to \pm 1,000 Pa after simulated short-term exposures (temperature, wind, use) $a < 0.1 \text{ m}^3/[\text{m h } (daPa)^{2/3}]$ Air permeability of joint door frame/masonry up to \pm 1,000 Pa after simulated short-term exposures (temperature, wind, use) $a < 0.1 \text{ m}^3/[\text{m h } (daPa)^{2/3}]$ Watertightness up to 600 Pa after simulated short-term loads (temperature, wind) no water penetration $a_{0.1 \text{ m}^3/[\text{m h } (daPa)^{2/3}]$	

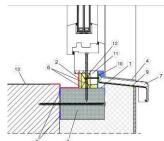


Basis:

ift-Guideline MO-01/1 : 2007-01 Wall connection of windows. Part 1: Determination of the suitability of use of sealing systems, Clause 5, Testing joint characteristics

Representation





Instructions for use

This test report serves to demonstrate the above mentioned characteristics.

Validity

The data and results given refer solely to the tested and described specimen.

Notes on publication

The ift-Guidance Sheet "Advertising with ift test documents" applies. The cover sheet can not be used as an abstract.

Contents

The test report contains a total of 40 pages and 2 cover sheets.

Test report cover sheet 1

This document is valid without a signature. The original document n° 15-003047-PR01 (PB-E03-020310-de-03) dated 30.05.2016 remains legally binding.

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Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021

Notified Body 0757 PÜZ-Stelle: BAY 18



Evidence of Performance

Testing the joint characteristics of a fastening system between window and building structure in new condition and after a series of simulated short-time exposures

Test Report

N° 15-003047-PR01-2

(PB-E03-020310-en-03)

Client	Meesenburg Großhandel KG Westerallee 162 24941 Flensburg Germany
Product	Fastening system between window and supporting structure
Designation *)	Assembly door frame: Triotherm+ profile 120 mm x 85 mm [®] , fixed with blue-yellow hybrid polymer Power Fix [®] , blue-yellow frame fixing screw FK-T30 Ø 7.5 mm x 300 mm as well as well as dowel SDH - S10H length 230 mm with washer Ø 20 mm Window fastening: blue-yellow frame fixing screw FK-T30 Ø 7.5 mm x 152 mm (at bottom), or 132 mm (on sides and at top), as well as blue-yellow frame fixing screw ZK-T30 Ø 7.5 mm x 132 mm (on sides)
	Joint filling: blue yellow 1K gun foam©
Installation situation / Boundary conditions [•])	Vertically perforated brick masonry Plan-T14-24.0 L with compressive strength class 8 and butt-joint reveal.
	Plastic window, 1,230 mm x 1,510 mm (incl. window sill connecting profile) with steel reinforcement 1.5 mm in frame and sash frame and configuration 8/12/6/12/8.
	ETICS on outside with partial covering of frame.
	Window fastening to assembly door frame on sides, at top and at bottom via blue-yellow frame fixing screws FK-T30 / ZK-T30. Fixing distances on sides \leq 700 mm.
	Load transfer of dead weight by bearing pads at bottom (3 pcs). Lateral securing by frame fixing screws FK-T30 / ZK-T30.
Application area	Professional window installation to supporting structure of window made of uPVC with equivalent construction, as described above.
Special features	*)See description of test specimen in section 1 for more details.
	^{**})The tests were carried out in plastered condition, as well as with external window sill and joint filling.
	The test sequence was carried out in combination with the test sequence of ift-Guideline MO-01/1.
Results	

Results



Evaluation of component testing according to ift-Guideline MO-02/1:2015-06, Section 5.2

Requirements fulfilled **) ***) 1 000 N with S

Additional load (racking):	1,000 N with δ_{Fmax} 1.9 mm
Wind loads:	p1 2,000 Pa with δ_{Fmax} 1.1 mm;
	p2 1,000 Pa with δ_{Fmax} 0.6 mm;
	p3 3,000 Pa
Loading by changing temper	atures:
	10 cycles with +60°C / -15°C with δ
Operating forces:	< 5 Nm for release and/or locking

Operating forces: Durability test:

Germany

 δ_{Fmax} 1.1 mm 5 Nm for release and/or locking 10,000 operating cycles Impact resistance, drop height: 700 mm SISSE itailed resure taibrier-, Zertificher t *)For detailed results, see section 3

ift Rosenheim 30.05.2016 Translation dated

Theodor-Gietl-Str. 7-9 83026 Rosenheim signed Thomas Stefan, Dipl.-Ing. (FH) 24. ift-rosenheim.de Head of Testing Department Building Component Testing

signed Thomas Krichbaumer Operating Testing Officer Building Component Testing

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Prüf

Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021



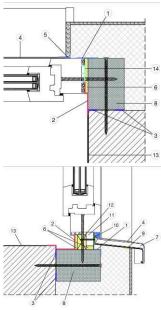




Basis:

ift-Guideline MO-02/1 : 2015-06 Wall connection of windows. Part 2: Procedure for determining the fitness for use of fastening systems

Representation



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