

Number	23-002016-PR01 (NW-K26-09-en-02)
Owner	"OLIS" GmbH Pryrichna Str.5, ap.352 04210 Kyiv Ukraine
Product	Pre-wall frame system VSThermo
Designation	VST 80x90
Pre-wall frame profile	Material: expanded polystyrene (EPS), cross-section: transom profile with notches, dimensions: (80 x 90) mm with two notches, (5 x 7) mm, density: 150 kg/m ³ , compressive strength at 10% compression: ≥ 1900 kPa
Window mounting screw	Material: Alloy steel, galvanized, blue passivated, properties: Fully threaded screw, half-round head, TX30 with 70 mm ribbed thread on the screw tip, dimensions: ($\varnothing 7.5$ x 120 / 150 / 180) mm
Fixing base	Spruce transom profile, (1000 x 120 x 120) mm, soft wood C24
Special features	-/-

Result **)

Determination of load-bearing capacity of a pre-wall frame system for window installation according to ift-Richtlinie MO-02/1 Clauses 4.1.3.1, 4.1.3.2 and 4.1.3.3.

(Detailed results according to ift-Richtlinie MO-02/1, see sheet 2 and 3)

**) Decision rule: For the evaluation of conformity, the measurement uncertainty was not taken into account.

ift Rosenheim
25.10.2023



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Deputy Head of Testing Department
Material Testing



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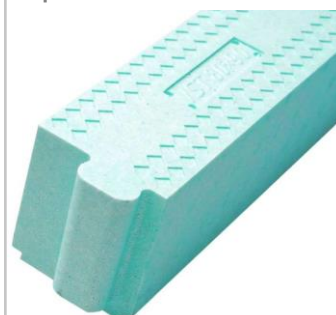
Basis

ift-Richtlinie MO-02/1:2015-06

Test report: 23-002016-PR01
(PB-K26-09-en-01)

Replaces ift Nachweis:
23-002016-PR01
(NW-K26-09-de-01)

Representation



Instructions for use

The results obtained can be used as evidence in accordance with the above basis.

Validity

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

This test does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

Notes on publication

The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

Identity-Check



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ID: 0BD-510A0

1 Summary

1.1 Results - Determination of the load-bearing capacity with transverse load at distance "e" (bending) according to ift-Richtlinie MO-02/1, section 4.1.3.3

Specimen	tested load case	distance „e“	charact. Load-bearing capacity F_{Rk} in kN ¹⁾ at deflection δ_F in mm			
			$F_{Rk,1mm}$	$F_{Rk,2mm}$	$F_{Rk,3mm}$	$F_{Rk,max}$
VST 80x90, Ejot „RA-Z“ (7.5 x 150) and frame profile Kömmerling 76 AD with blocking	wind suction	30 mm	0.11	0.24	0.37	1.46
VST 80x90, Ejot „RA-Z“ (7.5 x 150) and frame profile Kömmerling 76 AD without blocking		15 mm	0.06	0.17	0.31	1.36

¹⁾ characteristic force that ensures with 75 % probability that 95 % of the values are higher than this (5 % fractile).

1.1.1 Requirement according to ift-Richtlinie MO-02/1, Clause 5.1

Specimen	tested load case	deflection δ_F in mm	$F_{Rk,\delta} = F_{Rd,\delta} = F_{empf,\delta}$	$F_{Rk,max}$	$F_{Rd,max}$	$F_{empf,max}$
VST 80x90, Ejot „RA-Z“ (7.5 x 150) and frame profile Kömmerling 76 AD with blocking	wind suction	3 mm	0.37	1.46	2)	2)
VST 80x90, Ejot „RA-Z“ (7.5 x 120) and frame profile Kömmerling 76 AD without blocking			0.31	1.36	2)	2)

$$^2) F_{Rd,max} = \frac{F_{Rk,max}}{\gamma_M \cdot A_1 \cdot A_2 \cdot A_3} \quad \text{and} \quad F_{empf,max} = \frac{F_{Rd,max}}{\gamma_F}$$

with $\gamma_M, A_1, A_2, A_3, \gamma_F$

e.g. according to the BÜV recommendation "Load-bearing plastic components in the building industry [TKB] - design, dimensioning and construction - status 08 / 2010

Condition according to ift-Richtlinie MO-02/1, Clause 5.1, equation (7): $F_{empf,max} \geq F_{empf,\delta}$

1.2 Results - Determination of the load-bearing capacity with transverse load (shearing) according to ift-Richtlinie MO-02/1, Clause 4.1.3.2

Specimen	charact. load-bearing capacity F_{Rk} ³⁾
2 pcs. VST 80x90, Ejot „RA-Z“ (7.5 x 150) and frame profile Kömmerling 76 AD with blocking	6.99 kN

³⁾ characteristic force that ensures with 75 % probability that 95 % of the values are higher than this (5 % fractile).

1.3 Results - Determination of the load-bearing capacity in centric tension (screw pull-out) according to ift-Richtlinie MO-02/1, Clause 4.1.3.1

Specimen	charact. load-bearing capacity F_{RK} ⁴⁾
VST 80x90, Ejot „RA-Z“ (7.5 x 150)	2.04 kN

⁴⁾ characteristic force that ensures with 75 % probability that 95 % of the values are higher than this (5 % fractile).

1.4 Results - Determination of the load-bearing capacity in centric tension (head pull-through) according to ift-Richtlinie MO-02/1, Clause 4.1.3.1

Specimen	charact. load-bearing capacity F_{RK} ⁵⁾
VST 80x90, Ejot „RA-Z“ (7.5 x 180)	2.80 kN

⁵⁾ characteristic force that ensures with 75 % probability that 95 % of the values are higher than this (5 % fractile).