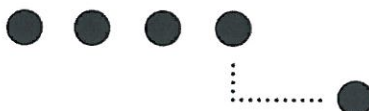


Test Certificate

Bern University of Applied Sciences
Architecture, Wood and Civil Engineering
Burgdorf, Biel



Test object Two-part metal sliding door

Product code **VITROCSA 3001 with vertical drainage**

Certificate No 7995-PZ-034

Test report No 7211-PB-01 and 7211-PB-02

Order No 7995.DPE

Customer VITROCSA - Orchidées Construction SA
Mister Joray
Route Cantonale
CH-1425 Onnens

Construction Two-part sliding-door, one movable door and one in fixed position.
Overall height of frame: 2300 mm
Overall width of frame: 2600 mm

Relevant standards EN 1026 (09/2000)
Windows and doors - Air permeability - Test method
EN 1027 (09/2000)
Windows and doors - Watertightness - Test method

Classification **Grade 4**
EN 12207 (06/2000)
Windows and doors - Air permeability – Classification
Grade 7A
EN 12208 (06/2000)
Windows and doors - Watertightness – Classification

Date of issue 12.05.2005, prolonged 23.03.2010

Validity This certificate will expire once the construction or the material of the test product or one of its components changes or if the content or validity of the underlying standard changes.

Address of test laboratory Bern University of Applied Sciences
R&D Department, Facades, Finishing and Furniture
Solothurnstrasse 102, CH-2504 Biel

Person in charge Christoph Rossmanith *Rossmanith*

Head R&D Facades, Finishing and Furniture Urs Uehlinger *U. Uehlinger*



SCHWEIZERISCHER PRÜFSTELLENDIENST
SERVICE SUISSE D'ESSAI
SERVIZIO DI PROVA IN SVIZZERA
SWISS TESTING SERVICE

Nach ISO/IEC 17025 akkreditiert, STS 317
Notified Body Nr.: 2172

BUAS | Research and Development

SUMMARY OF RESULTS

Test object

Two-part sliding-door, one movable door and one in fixed position.

This window system has been developed by VITROCSA.

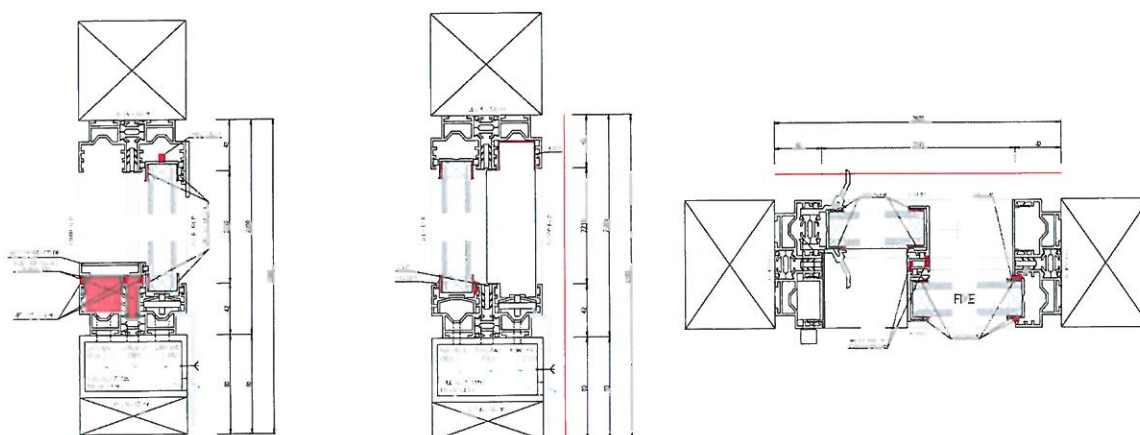
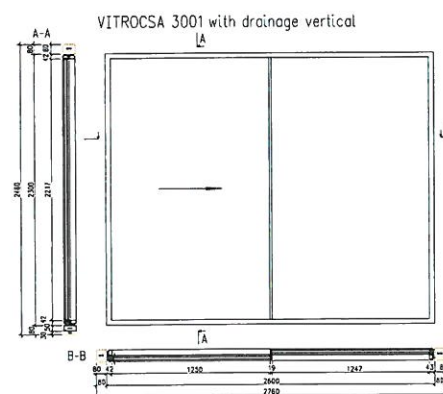
Material

Window frame: Aluminium

Window sash: Aluminium

Length of opening joints: 11.75 m

Total area: 6.27 m²



Summary and results of the performed tests

Air permeability (according to EN 1026)		
Testing pressure [Pa]	Air flow related to length of joints [m ³ /hm]	Air flow related to testing area of elements [m ³ /hm ²]
0	0	0
50	≤ 0.4	≤ 0.7
100	≤ 0.6	≤ 1.1
150	0.6	1.1
200	0.6	1.2
250	0.7	1.3
300	0.8	1.4
450	0.9	1.7
600	1.1	1.9

Watertightness (according to EN 1027)		
Classification Test method A	Time [min]	Inflow of water
1A	15	no
2A	+5	no
3A	+5	no
4A	+5	no
5A	+5	no
6A	+5	no
7A	+5	no

The testing was conducted on 28.04.2005 on the window-testing facility at BUAS, Biel.