



EXPERTISE TEST IN ACCORDANCE WITH UNI EN 14351-1

Test Number	6236
Window maker	Alubin - OREN
Type of specimen	GOS-S T110
Dimensions	1990 mm (W) X 2125 mm (H)
Testing date	27/03/2017
Type of test	 Air Permeability <i>In accordance with UNI EN 1026:2001 and UNI EN 12207:2000</i>
	 Water tightness <i>In accordance with UNI EN 1027:2001 and UNI EN 12208:2000</i>

Results	
Air Permeability:	Class 4A
Water tightness:	E900

THE RESULTS ARE STRICTLY CONNECTED WITH THE SAMPLE SUBMITTED TO THE TESTS

Place and date of issue:
Budrio, Italia
19/05/2017

Testing Lab. Manager
GSG International S.p.A.
Andrea Murenu

External dimensions of the window:	1990 mm x 2125 mm
Number of casements:	2
Material:	Aluminium profiles (see p. 3)
Gaskets:	See technical drawing specifications enclosed (see p. 3)
Hardware and accessories:	See technical drawing specifications enclosed (see p. 4)

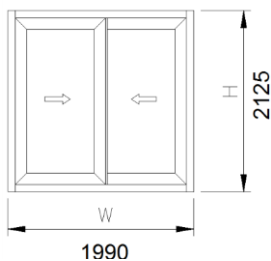
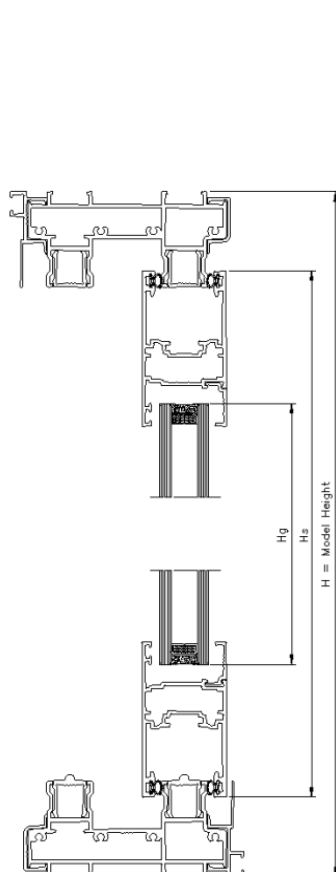
Picture of the specimen submitted to the tests



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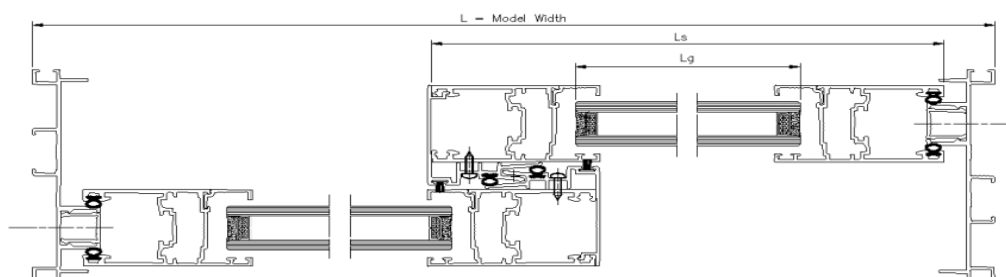
View from inside



PROFILE	Pieces	Formulas	Dimension	Cutting type
H-Mullion Frame	2	H	2125	90°-90°
Wtf-Transom Frame	4	W/2-51.5	943.5	90°-90°
Hs-Mullion Sash	4	H-84	2041	45°-45°
Ws-Transom Sash	4	W/2+15	1010	45°-45°
Hi-Interlocking	2	H-84	2041	90°-90°
Wtp-Track Profile	2	W-28	1962	90°-90°
Wec-Ext. cover Frame	2	W-28	1962	90°-90°
Vertical glass bead	2	Ws-124	886	90°-90°
Horizontal glass bead	2	Hs-164	1877	90°-90°
Wr-Rail	2	W-28	1962	90°-90°
Wcs-Cover Hor. Sup.	2			90°-90°
Wcs-Cover Hor. Sup.	2	W-28	1962	90°-90°

Gaskets	Codes	Pieces
Sash gasket	02970000	4W + 6H
Brush for interlock		2H
Outer glazing sliding		2W + 4Hs
Inner glazing sliding		2W + 4Hs

Glazing list	Pieces	Dimensions L x H
Sash glass	2	(Wg=Ws-132) x (Hg=Hs-132)
		(Wg = 878) x (Hg = 1909)

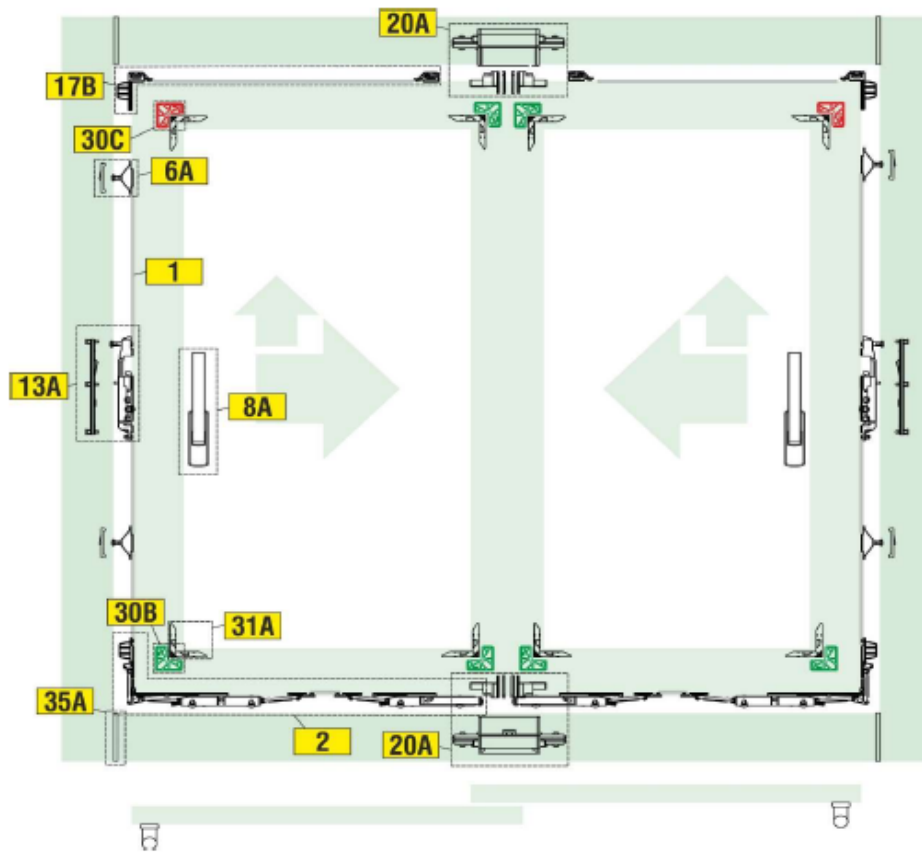


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Configuration:

DOOR GOS-S T-REX[®] L&S WITH HANDLES

SASH 45mm - 2 MOVABLE SASHES



Number	Code	Description	Quantity
	02970	SASH GASKET	
1	03524N	CONNECTION ROD	
6A	02929	LOCKING KIT FOR GOS-S OPEN FRAME	4
13A	02897	INTERNAL DEVICE WITH INCORRECT OPERATION SAFETY DEVICE	2
8A	02700	KORA HANDLE 0-180° L175	2
2	03913	KIT PULLEYS L&S 2 WHEELS GOS-S WITH ROD ADJUSTMENT	2
17B	02939	SHOCK ABSORBER AND LIFT-PROOF PLUGS KIT GOS-S L&S	2
20A	0280801	CENTRAL PLUGS KIT GOS-S T-REX L&S SASH 45 mm WITH DRAWER	1
30B	02921	SASH ALIGNMENT JOINT GOS-S	12
30C	02903	SASH ALIGNMENT JOINT GOS-S WITH SASH-GUIDE	4
31A	00350	FRAME CORNER JOINT GOS-S	8
35A	0297401	SEALING PLATE GOS-S FRAME 90° 2 TRACKS	4

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Specimen data in accordance with EN 1026:2000

H _t (mm)	2125
H ₀ (mm)	2041
B _t (mm)	1990
B ₀ (mm)	1965
Overall area (m ²):	4.2
Length of the opening joints (m):	10

Test apparatus

Testing machine installed at the GIESSE S.p.A. plant located in Via Menarini N°1 – Budrio (BO) - ITALY.
Calibration date 2017/03/13 by IRCCOS (notified body n. 1994 according to CPR 305/2011)

Set up of the test specimen

The test specimen:

- has been conditioned for 4 hours, right before the test, at ambient temperature between 10 and 30 °C with a relative humidity ranging from 25% to 75%;
- has been fixed by simulating the real conditions, without any torsion or flexure that may affect test results;
- during the set up was perfectly working, cleaned and dry.

Enviromental test conditions

Atmospheric pressure:	1012hPa
Ambient temperature:	18,0°C
Relative humidity:	44,0%

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Air permeability

Standard references

EN 14351-1:2006 – A1:2010

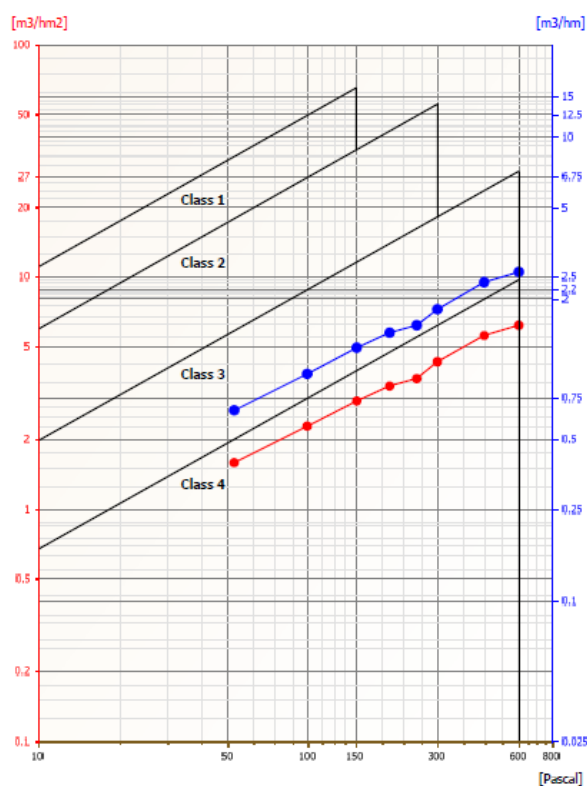
Windows and doors – Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristic.

EN 12207:1999

Windows and doors – Air permeability – Classification

EN 1026:2000

Windows and doors – Air permeability – Test method



AVERAGE VALUES

[Pascal]	[m3/h]	[m3/hm2]	[m3/hm]
53	6,69	1,58	0,67
99	9,60	2,27	0,96
151	12,34	2,91	1,24
200	14,34	3,39	1,44
252	15,50	3,66	1,55
301	18,23	4,30	1,82
449	23,63	5,57	2,37
601	26,13	6,17	2,62

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Final classification

Classification of the test specimen based on the overall area:	4A
Classification of the test specimen based on the opening joints:	3A
Final classification of the specimen:	4A

Watertightness

Standard references

EN 14351-1:2006 – A1:2010	Windows and doors – Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristic.
EN 12208:1999	Windows and doors– Watertightness classification.
EN 1027:2000	Windows and doors – Watertightness – Test method

General features

Test method:	1A
Number of nozzle rows:	1
Number of nozzles per row:	5
Nozzle capacity:	2l/min

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Outcome analysis

Pressure (Pa)	Time of pressure maintenance (min)	Remark
0	15	No leakage
50	5	No leakage
100	5	No leakage
150	5	No leakage
200	5	No leakage
250	5	No leakage
300	5	No leakage
450	5	No leakage
600	5	No leakage
750	5	No leakage
900	5	No leakage
1050	5	Test stopped after 50 sec. No leakage

Final classification

Watertightness:	Class E 900
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