

TEST REPORT n° 631/97

Guidonia M. 29/05/97

Results of the tests performed on 20/05/97, on window test-piece aluminium.

Geometrical and structural characteristics of the test-piece are given in the attached description sheet that is an integral part of this test report and it was supplied by the Customer.

Customer : ALLUMIX S.p.A.

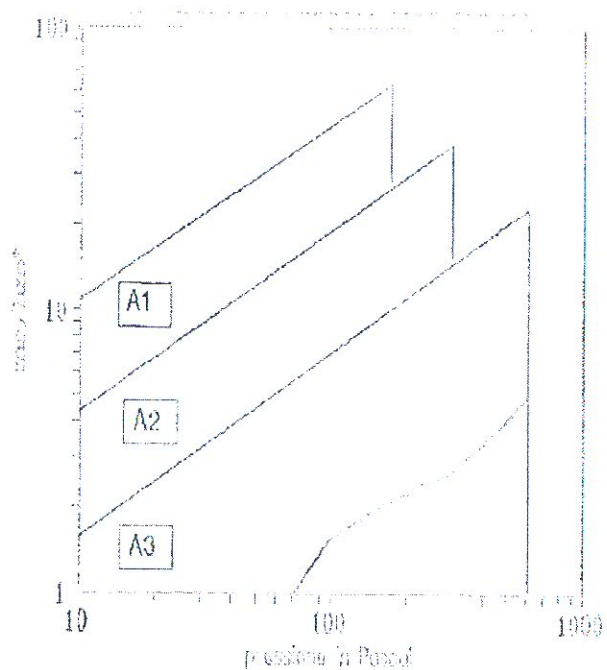
Product name : F 90 SYSTEM
 Opening type : sliding
 Dimentions : 2400 x 2200 mm

TEST RESULTS

AIR PERMEABILITY - EN 42 -

Open dimentions
 Surface: 4.9 m² Perimeter: 11.0 ml

Pression	Flow		
	Pascal	mc/h	mc/hm ² mc/hm
0	0.0	0.0	0.0
50	3.0	0.6	0.3
100	7.7	1.6	0.7
150	9.8	2.0	0.9
200	11.2	2.3	1.0
300	13.1	2.7	1.2
400	16.6	3.4	1.5
500	20.1	4.1	1.8
600	24.4	4.9	2.2

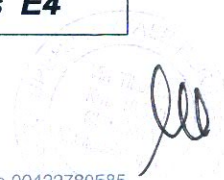


Air permeability : classification according to UNI 7979 Class A3

WATERTIGHTNESS - EN 86 – Metod 1

No water leakage at 600 Pascal.

Watertightness : classification according to UNI 7979 Class E4

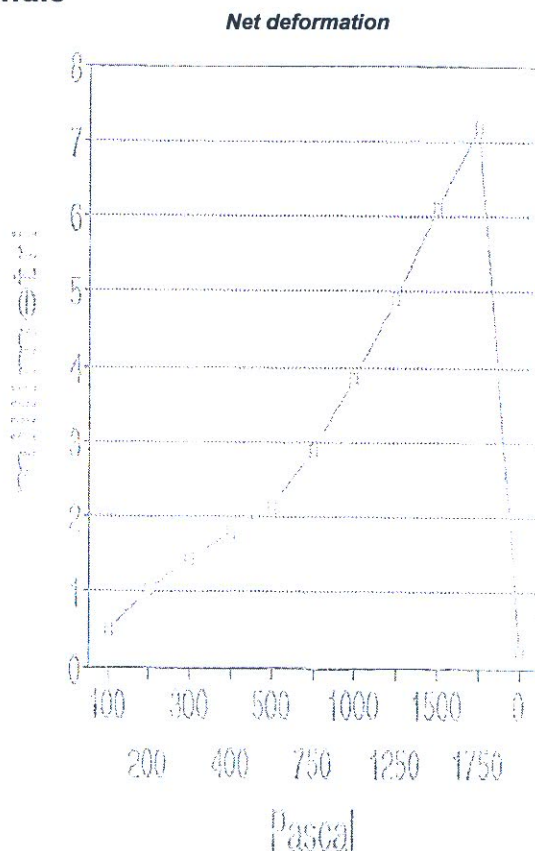


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WIND RESISTANCE – EN 77 –

P1- Most deformable window element with handle

Pascal	Basso	Centro	Alto	Netta
0	0.0	0.0	0.0	0.0
100	0.5	1.0	0.5	0.5
200	0.9	2.0	1.0	1.0
300	1.3	2.8	1.4	1.4
400	1.6	3.5	1.8	1.8
500	1.9	4.2	2.2	2.2
700	2.7	5.8	3.1	3.1
1000	3.7	7.8	4.2	4.2
1250	4.7	9.9	5.3	5.3
1500	5.7	12.0	6.1	6.1
1750	6.6	14.1	7.2	7.2
0	0.3	0.5	0.2	0.2



Note: no alteration

P2 - Pulse

N° 50 pulsations at **1400 Pascal** (143 kg/m² and 172 km/h); at the end of the test, there was no alteration in the casing functionality.

air permeability did not have variations

P3 - maximum pressure exceptional

A 2900 Pascal (295 kg/m² and 248 km/h) pulsation was applied; at the end of the test, there was no alteration in the casing functionality.

Wind resistance : classification according to UNI 7979 Class V2a

TEST OPERATOR

DIRECTOR