

Autorizzato all'esecuzione delle prove ai sensi e per gli effetti dell'Art. 20 della legge del 5-11-71 n. 1086 con Decreti Ministero LL. PP. Autorizzato alle certificazioni CE - Notificato CEE n. 0529  
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## TEST REPORT n° 0329/2006-C

Guidonia M. 24/02/2006

Results of the air permeability, watertightness and wind resistance tests performed on 23/02/2006, on a two opening window test-piece received on 14/02/2006.

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 : STARPUR S.r.l. -Nocera Inferiore- (SA)



## DECLARED DATA

Product name : SW40  
 Opening type : ANTA/RIBALTA  
 Frame : WOOD-ALUMINUM  
 Dimensions (mm) : 1200 x 1400 (total) ; 1128 x 1328 (openings)

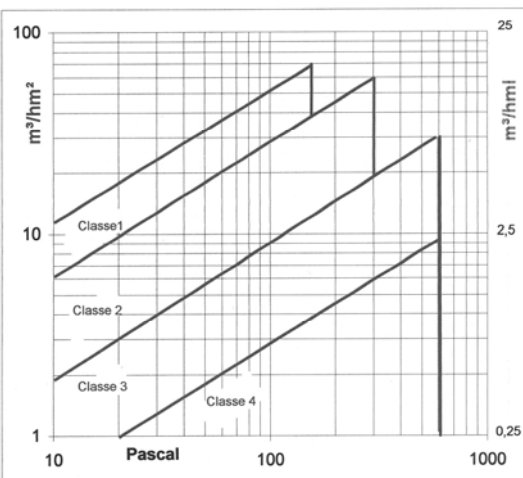
## TEST RESULTS

Environmental conditions: 18 °C 57% R.H.

## AIR PERMEABILITY - UNI EN 1026

Surface m<sup>2</sup> 1,7 Perimeter lin. m 6,2

Pascal	m <sup>3</sup> /h	m <sup>3</sup> /hm <sup>2</sup>	m <sup>3</sup> /hml
50	0,0	0,0	0,0
100	0,0	0,0	0,0
150	0,0	0,0	0,0
200	0,0	0,0	0,0
250	0,0	0,0	0,0
300	0,0	0,0	0,0
450	0,2	0,1	0,0
600	1,0	0,6	0,2



Air permeability: Classification according to UNI EN 12207 : Class 4

## WATERTIGHTNESS UNI EN 1027 - Method A

No water leakage at 600 Pa

Watertightness : Classification according to UNI EN 12208 : Class 9A

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Capitale Sociale € 1.040.000,00 int. versato - Trib. di Roma n. 1256/72 - C.C.I.A.A. n. 358813 - Partita I.V.A. 00887271005 - Codice Fiscale 00422700585  
 Inserito nell'albo dei laboratori altamente qualificati di cui all'art. 4 della legge 17-2-1982 n. 46 - con decreto del Ministero per il Coordinamento delle iniziative per la Ricerca Scientifica e Tecnologica - Iscritto all'Albo



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**WIND RESISTANCE - UNI EN 12211**

**Frontal deflection (P1)**

Most deformable window element (mm) : **1200**

		Pressure P1 (Pa)					
		0	2000	0	0	-2000	0
deflection (mm)	A →	Ao	Ap	A residuo	Ao	Ap	A residuo
	M →	0,0	1,6	0,1	0,0	-0,1	0,0
	B →	Bo	Bp	B residuo	Bo	Bp	B residuo
		0,0	3,6	0,1	0,0	-0,2	0,0
		0,0	1,3	0,1	0,0	-0,1	0,0
<b>Frontal deflection (mm)</b>		Fp			Fp		
		2,15			-0,10		
<b>Relative frontal deflection (mm)</b>		1/ 558			1/ -12000		
<b>CLASS</b>		A		B		C	
<b>Frontal deflection limits (mm)</b>		<1/150	8,0	<1/200	6,0	<1/300	4,0

**Repeated pressure test (P2)**

N° 50 pulsations at **1000 Pascal** were applied ( 101 kg/m<sup>2</sup> and 145 km/h); at the end of the test, there was no alteration in the casing functionality.

After P1 and P2 tests, air permeability did not have variations greater than **20 %**.

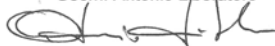
**Security test (P3)**

A **3000 Pascal** (304 kg/m<sup>2</sup> and 252 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 EN 12210 : Class C5**

**TEST OPERATOR**

Geom. Antonio Liberatore



**DIRECTOR**

Dott. Ing. Giovanni Lapolla



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