

SW130s

istituto sperimentale per l'edilizia s.p.a.

ISTEDIL

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° 203/2006-C

Guidonia M. 11/05/2006

Results of calculation of thermal transmittance of frame profile, with numerical method, carried out on 27/04/2006.

Geometrical and structural characteristics of the test-piece are given in the attached description sheet, supplied by the Customer, which form an integral part of this test report.

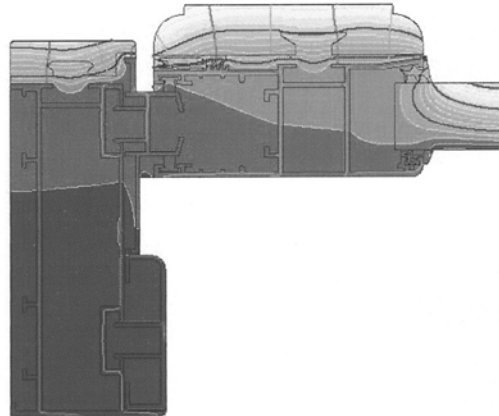
CUSTOMER : STARPUR S.r.l.

DECLARED DATA

Product name : SW 130s side joint
Frame : ALUMINUM-WOOD

Thermal conductivity of materials:

Aluminum	160.000	W/m°K
EPDM	0.250	W/m°K
Soft Wood	0.130	W/m°K
Insulation panel	0.035	W/m°K



TEST PROCEDURE

Reference standard: UNI EN ISO 10077-2

Calculation program: PHISIBEL BISCO vers. 7.0w

TEST RESULTS

BISCO data file: sw130slaterale.bsc

THERMAL TRANSMITTANCE OF FRAME (UNI EN ISO 10077-2)

$$U_f = (Q/(t_i - t_e) - U_p * w_p) / w_f$$

with:

Q = 21.530 W/m [total heat flow (frame+panel)]

t_i = 20.00 °C [internal temperature]

t_e = 0.00 °C [external temperature]

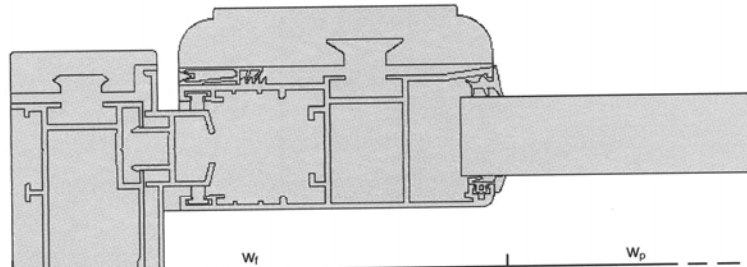
U_p = 1.258 W/(m².K) [thermal transmittance of the insulation panel]

w_p = 0.3784 m [projected width of insulation panel]

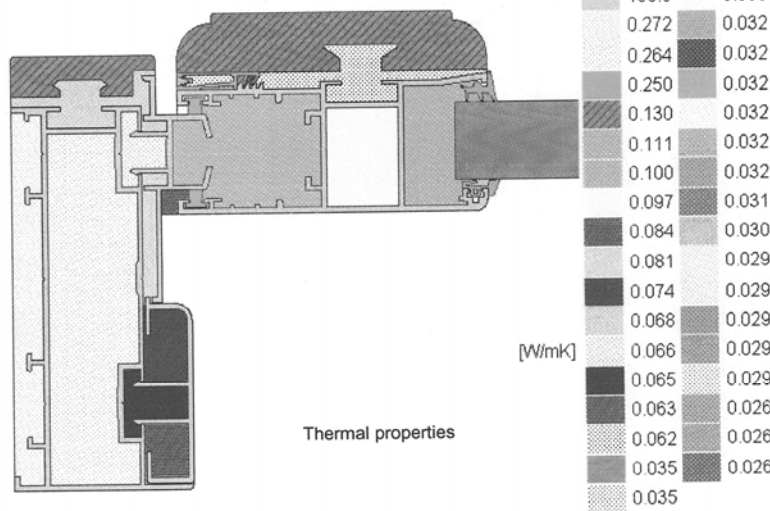
w_f = 0.1345 m [projected width of frame]

THERMAL TRANSMITTANCE OF FRAME U_f = 4.47 W/m² K

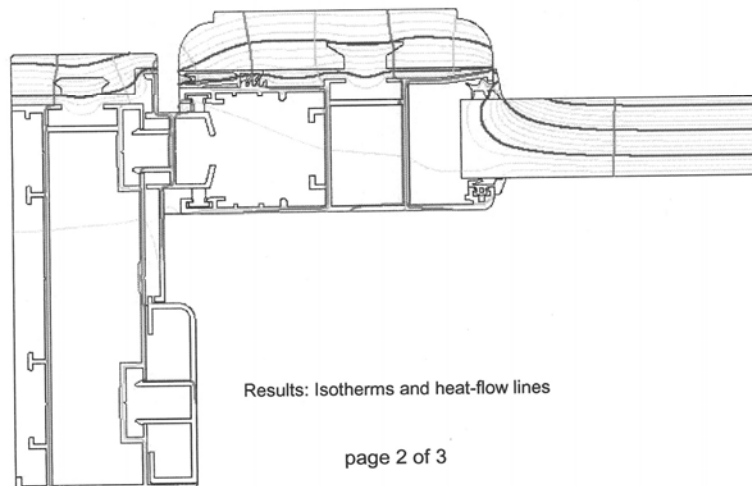
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Geometrical description and triangulation mesh



Thermal properties



Results: Isotherms and heat-flow lines