



Laboratorium Techniki Budowlanej s.c.
 B. Wojtowicz, A. Żyła, M. Żyła
 41-306 Dąbrowa Górnicza, ul. Laski 83
 NIP 625-21-29-966
 Numer notyfikacji/Notified body/ 1827



AB 661


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 Bank Śląski o/Dąbrowa Górnicza nr 57 1050 1272 1000 0022 3368 1416

Appendix No 5 to test report 569/B-2011

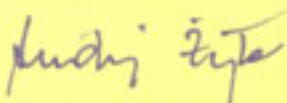
Initial Type Testing Certificate
pertinent to Standard EN 14351-1:2006+A1
No 569/B – 2011

Laboratorium Techniki Budowlanej carried out the examination of the window described in test report 569/B-2011, part 1, designated with No 1, under system **Thermo 88**, manufactured by:

SŁOWIŃSCY sp. j.
 ul. Wspólna 2
 62-400 Słupca

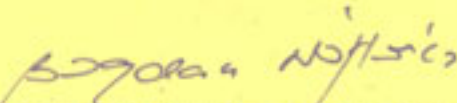
Test specimen	Characteristic	Test standard	Classification standard	Classification/value
 B=1000 H=1800	4.5. Watertightness	EN 1027	EN 12208	Not covered E1200 (Test pressure 1200 Pa)
	4.8. Load-bearing capacity of safety devices	EN 14609	EN 14351-1+A1	Threshold value 350 N
The results of the examination refer only to the tested sample and the test conditions. The parameters for other objects should be declared in compliance with the provisions specified in standard EN 14351-1+A1	4.14. Air permeability	EN 1026	EN 12207	Class 4 (Max test pressure 600 Pa) Reference air permeability at 100 Pa: 3m ³ /h m ² or 0,75 m ³ /h m

Quality Manager

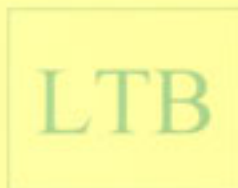

 mgr inż. Andrzej Żyła



Engineering Manager


 mgr inż. Bogdan Wojtowicz

Dąbrowa Górnicza, dated 14th July, 2011



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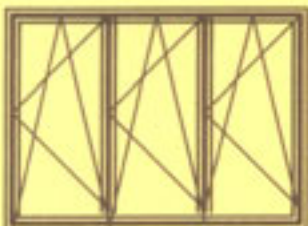
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Appendix No 6 to test report 569/B-2011

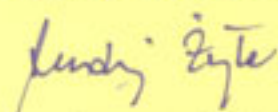
Initial Type Testing Certificate
Pertinent to Standard EN 14351-1:2006+A1
No 569/B – 2011

Laboratorium Techniki Budowlanej carried out the examination of the window described in test report 569/B-2011, part 1, designated with No 2, under system **Thermo 88**, manufactured by:

SŁOWIŃSCY sp. j.
 ul. Wspólna 2
 62-400 Słupca

Test specimen	Characteristic	Test standard	Classification standard	Classification/value
 B=3000 H=2450	4.2 Resistance to wind load	EN 12211	EN 12210	Test pressure P1 3 (1200 Pa) Frame deflection C (< 1/300)
	4.5. Watertightnes	EN 1027	EN 12208	Not covered 6A (Test pressure 250 Pa)
	4.8. Load-bearing capacity of safety devices	EN 14609	EN 14351-1+A1	Threshold value 350 N
The results of the examination refer only to the tested sample and the test conditions. The parameters for other objects should be declared in compliance with the provisions specified in standard EN 14351-1+A1	4.14. Air permeability	EN 1026	EN 12207	Class 4 (Max test pressure 600 Pa) Reference air permeability at 100 Pa: 3m ³ /h m ² or 0,75 m ³ /h m

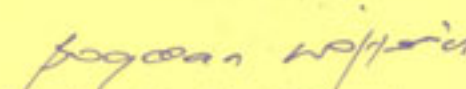
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Engineering Manager



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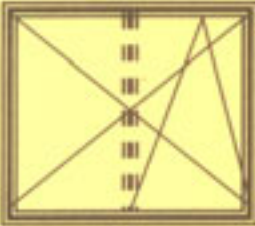
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Appendix No 7 to test report 569/B-2011

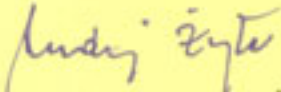
Initial Type Testing Certificate
Pertinent to Standard EN 14351-1:2006+A1
No 569/B – 2011

Laboratorium Techniki Budowlanej carried out the examination of the window described in test report 569/B-2011, part 1, designated with No 3, under system **Thermo 88**, manufactured by:

SŁOWIŃSCY sp. j.
 ul. Wspólna 2
 62-400 Słupca

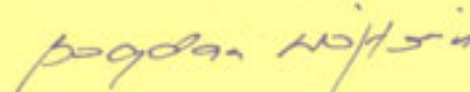
Test specimen	Characteristic	Test standard	Classification standard	Classification/value
 B=1800 H=2450	4.2 Resistance to wind load	EN 12211	EN 12210	Test pressure P1 3 (1200 Pa) Frame deflection C (< 1/300)
	4.5. Watertightnes	EN 1027	EN 12208	Not covered 6A (Test pressure 250 Pa)
	4.8. Load-bearing capacity of safety devices	EN 14609	EN 14351-1 +A1	Threshold value 350 N
The results of the examination refer only to the tested sample and the test conditions. The parameters for other objects should be declared in compliance with the provisions specified in standard EN 14351-1+A1	4.14. Air permeability	EN 1026	EN 12207	Class 4 (Max test pressure 600 Pa) Reference air permeability at 100 Pa: 3m ³ /h m ² or 0,75 m ³ /h m

Quality Menager


 mgr inż. Andrzej Żyła



Engineering Menager


 mgr inż. Bogdan Wójtowicz

Dąbrowa Górnicza, dated 14th July, 2011

LTB

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Appendix No 8 to test report 569/B-2011

Initial Type Testing Certificate
pertinent to Standard EN 14351-1:2006+A1
No 569/B – 2011

Laboratorium Techniki Budowlanej used the calculation method, in accordance with Annex B to Standard 14351-1+A1, to define the sound insulation of the windows under system **Thermo 88** described in test report 569/B-2011, manufactured by:

SŁOWIŃSCY sp. j.
 ul. Wspólna 2
 62-400 Słupca

Test specimen	Characteristic	Test standard	Classification/value
Windows made of wood, fixed and openable (turn and tilt&turn) single windows with IGU 4/18/4/18/4Ar, without SF ₆ R _w (IGU) = 31 dB C(IGU) = (-2) dB C _{tr} (IGU) = (-6) dB The results of the examination refer only to the tested sample and the test conditions. The parameters for other objects should be declared in compliance with the provisions specified in standard EN 14351- 1+A1	4.11 Acoustic performance	EN 14351- 1+A1 Annex B	windows area F ≤ 2,7 m ² R_w(C;C_{tr}) = 33(-1;-6)
			windows area 2,7 < F ≤ 3,6 m ² R_w(C;C_{tr}) = 32(-1;-6)
			windows area 3,6 < F ≤ 4,6 m ² R_w(C;C_{tr}) = 31(-1;-6)
			windows area 4,6 < F m ² R_w(C;C_{tr}) = 30 (-1;-6)

Quality manager

Andrzej Żyła
 mgr inż. Andrzej Żyła



Engineering Manager

Bogdan Wojtowicz
 mgr inż. Bogdan Wojtowicz

Dąbrowa Górnicza, dated 14th July, 2011



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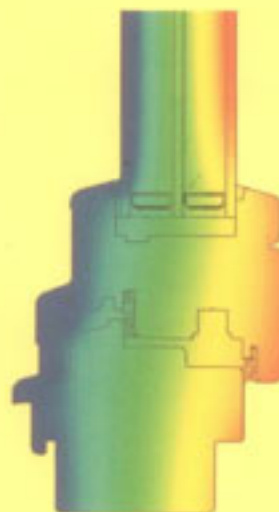
Appendix No. 2 to test report 483/B-2011

Initial Type Testing Certificate
pertinent to Standard EN 14351-1:2006+A1
No. 483/B – 2011

Laboratorium Techniki Budowlanej used the calculation method, in accordance with Standard EN ISO 10077-1:2006 and EN ISO 10077-2:2003, to define the thermal insulation of the windows described in test report 483/B-2011, manufactured by:

„SŁOWIŃSCY” sp. j.
 ul. Wspólna 2
 62-400 Słupca

Test's results		
Cross section	Frame/sash	Sill/sash
U_f [W/m ² K]	1,1	1,3
Ψ [W/mK]	0,040	0,043
U_{g_2} [W/m ² K]	0,5	
U_w [W/m ² K] for window 1,23x1,48 m	0,8	
The results of the examination refer only to the tested sample and the test conditions. The parameters for other objects should be declared in compliance with the provisions specified in standard EN 14351-1+A1		



Quality Manager

Andrzej Żyła
 mgr inż. Andrzej Żyła

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Engineering Manager

Bogdan Wojtowicz
 mgr inż. Bogdan Wojtowicz

Dąbrowa Górnicza, dated 08th March, 2011