



CENTRUM STAVEBNÍHO INŽENÝRSTVÍ a.s.
(Building Engineering Centre, joint-stock company)
Workplace in ZLÍN, K Cihelně 304, 764 32 ZLÍN - Louky

issues to

Applicant: "STOLLAR-SYSTEMY OKIENNE" SPÓŁKA Z OGRANICZONĄ
ODPOWIEDZIALNOŚCIĄ
Ul. OSIEDLE LESK 20
19-400 OLECKO, POLSKO

CERTIFICATE

Of the product characteristic

No. CV – 13 – 798/Z

Product: Standard IV 68 wooden window

Manufacturer: See Applicant

Description:

| | | |
|-----------------------------|---|--|
| Frame and sash | three layers jointed glued pine prism, (74 x 86) mm size | |
| Oter profiles | Frame drip ALURON No. ATW/19/25 and sash drip ALURON No. APZ 20 | |
| Glazing | 1. | Insulating triple glass unit(IGU) 32 mm thickness: 4 mm Pilkington Optitherm S3 / 10 mm TGI spacer, argon / 4 mm Pilkington Optifloat Clear/ 10 mm TGI spacer, argon / 4 mm Pilkington Optitherm S3 ; $U_g = 0,8 \text{ W/(m}^2 \cdot \text{K)}$ |
| | 2. | Insulating double glass unit (IGU) 24 mm thickness: 4 mm Pilkington Optifloat Clear / 16 mm TGI spacer, argon / 4 mm Pilkington Optitherm S3; $U_g = 1,1 \text{ W/(m}^2 \cdot \text{K)}$; |
| Sealing | Inside: 1-cellular, soft foam filled cavity sealing, inserted, in the corners bent, central: 1-cellular, soft foam filled cavity sealing, inserted, in the corners bent | |
| The way of panel installing | Without glazing bead System – Stollar 2001 System. Panel mounted into the sash frame from two halves. The glued half of the sash is fitted to the panel and connected to the screw joint. Around the perimeter is sealed on both sides of the insulating panel by silicone sealant „ Den Braven = TEC SIL NOF 4711“ | |
| Hardware | All-Peripheral - MACO MULTI-TREND i.S. (MACO MULTI-MATIC i.S.), 10 point closure, controlling by one handle, 2 tilt and turn hinges bolted to the face | |

Result:

| Title of tested parameter | Calculating method | Result |
|---|--------------------|--|
| Thermal transmittance U_w - For window with double IGU - For window with triple IGU | ČSN EN ISO 10077-1 | 1,3 $\text{W/(m}^2 \cdot \text{K)}$ 1,1 $\text{W/(m}^2 \cdot \text{K)}$ |

This Certificate proves the conformity of above given product properties with the required standard values:

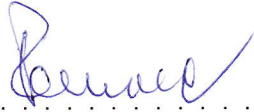
- Calculation result of $U_w = 1,3 \text{ W/(m}^2 \cdot \text{K)}$ fulfils the standard ČSN 73 0540, part 2 for requirement thermal transmittance: $U_w = 1,3 \leq U_{N,20} = 1,5 \text{ W/(m}^2 \cdot \text{K)}$;
- calculation result of $U_w = 1,1 \text{ W/(m}^2 \cdot \text{K)}$ fulfils the standard ČSN 73 0540, part 2 for recommended thermal transmittance: $U_w = 1,1 \leq U_{rec,20} = 1,2 \text{ W/(m}^2 \cdot \text{K)}$

Background documents: Calculation report No. V – 156/13. CSI, a.s. Zlín, AO 212

This Certificate applies only for a product which its specification is given in the test report in detail. It certifies only above given properties and neither implies nor substitutes certification in accordance with the Law No. 22/1997 Coll. on technical requirements for products.

Issue date: **01.12.2013**
Valid till: **01.12.2015**
Elaborated by: Ing. Nizar Al-Hajjar




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Workplace head