



**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 – 17 – 718/Z

**Product:** Wooden window IV 78 PLUS type

**Manufacturer:** See Applicant

**Description:**

Frame and sash	three layers jointed glued pine prism, (84 x 86) mm size
Other profiles	Frame drip ALURON No. ATW/19/25 and sash drip ALURON No. APZ 20
Glazing	Insulating triple glass unit(IGU) 40 mm thickness: 4 mm Pilkington Optitherm S3 / 14 mm TGI spacer, argon / 4 mm Pilkington Optifloat Clear/ 14 mm TGI spacer, argon / 4 mm Pilkington Optitherm S3 ; $U_g = 0,6 \text{ W/(m}^2 \cdot \text{K)}$
Sealing	Inside gasket: one-chamber cavity gasket filled in with a soft foam, inserted and bent in the corners; central gasket: two one-chamber cavity gasket filled in with a soft foam, inserted and bent in the corners
The way of glazing installing	The glazing around the perimeter is sealed on both sides by silicone sealant „Den Braven = TEC SIL NOF 4711“
Hardware	All-Peripheral - MACO MULTI-TREND i.S. (MACO MULTI-MATIC i.S.), 11 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 $U_w$	ČSN EN ISO 10077-1	0,87 $\text{W/(m}^2 \cdot \text{K)}$

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

Fulfils the standard ČSN 73 0540, part 2 for recommended thermal transmittance

$$U_w = 0,87 \leq U_{\text{rec},20} = 1,2 \text{ W/(m}^2 \cdot \text{K)}$$

**Background documents:** Calculation report No. V – 164/13. 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:** 01.12.2017  
**Valid till:** 01.12.2019  
**Elaborated by:** Ing. Nizar Al-Hajjar



Ing. Vladan Panovec  
Workplace head