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

i s s u e s   t o

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

CERTIFICATE
Of the product characteristic
No. CV – 17 – 716/Z

Product: **Wooden window IV 68 Standard type**

Manufacturer: See Applicant

Description:

Frame and sash		Three layers jointed glued pine prism, (74 x 86) mm size
Other profiles		Frame drip ALURON No. ATW/19/25 and sash drip ALURON No. APZ 20
Glazing	1.	Insulating triple glass unit 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 W/(m^2.K)
	2.	Insulating double glass unit 24 mm thickness: 4 mm Pilkington Optifloat Clear / 16 mm TGI spacer, argon / 4 mm Pilkington Optitherm S3; U_g = 1,1 W/(m^2.K)
Sealing		Inside and central gasket: one-chamber cavity gasket filled in with a soft foam; gaskets are inserted and bent in the corners
The way of glazing installing		Without glazing bead System – Stollar 2001 System. The glazing mounted into the sash frame from two halves. The glued half of the sash is fitted to the glazing and connected to the screw joint. Around the perimeter is sealed on both sides of the insulating glass unit 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 W/(m^2.K) 1,1 W/(m^2.K)

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

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

- Calculation result of U_w = 1,1 W/(m^2.K) fulfils the standard ČSN 73 0540, part 2 for recommended thermal transmittance: U_w = 1,1 ≤ $U_{rec,20}$ = 1,2 W/(m^2.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: **01.12.2017**	
Valid till: **01.12.2019**	
Elaborated by: Ing. Nizar Al-Hajjar	Ing. Vladan Panovec *Workplace head*