



CERTIFICATE

No. B 16 05 68802 006

Holder of Certificate: **FAKRO PP Sp. z o.o.**

ul Wegierska 144a
33-300 Nowy Sacz
POLAND

Production Facility(ies): 68802

Certification Mark:



Product: **Window**
 Model(s): **Pine Wood- and PVC-U-Roof Windows**

Parameters: Admitted roof pitch: 15°-90° / 15°-55°
 with suitable covering frame

Material:
 The roof windows are glazed with single or double chamber, thermo insulating glazing units. At the connection between aluminium profile and pane there is a permanently plastic sealing mass – butyl putty.

Remark:
 The adjudication of the above shown test mark does not constitute an approval in the sense of the Regulation (EU) 305/2011 or the German Bauproduktengesetz - BauPG

Properties, Classification and Standards see pages 2 to 4.

Tested according to:

- DIN EN 1026:2000
- DIN EN 1027:2000
- DIN EN 12207:2000
- DIN EN 12208:2000
- DIN EN 12210:2003
- DIN EN 12211:2000
- DIN EN ISO 12567-2:2006
- DIN EN 13049:2003

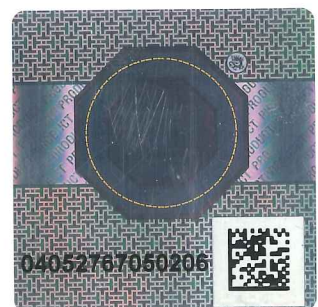
The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 713082516

Valid until: 2021-05-02

Date, 2016-05-03 (Horst Kristen)

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Certificate

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Type of window	Type / Gas filling H – hardened glass T – low emission coating	Property	Standard	Classification
FPP-V preSelect (FPP-V U3, FPP-V P2) FPU-V U3 preSelect FPU-V P2 preSelect white version	FPP-V U3: 4H-16-4T argon FPP-V P2 / FPU-V P2: 4H-15-33.2T argon FPU-V U3: 4H-16-4T argon	Resistance against windload	EN 12210	Class C5/B5
		Tightness against driving rain	EN 12208	Class E1050
		Impact resistance (ext. imp.)	EN 13049	Class 3
		Performance characteristics	EN 14351-1	Pass
		Noise insulation value R_w	EN ISO 140-3/ EN ISO 717-1	32 (-1;-5) dB- FPP-V/FPU-V U3 35 (-1;-3) dB- FPP-V/FPU-V P2
		Heat transfer coefficient U_w	EN ISO 12567-2	1,2 W/(m ² ·K)
		Air permeability	EN 12207	Class 4
FT.. (FTS U2, FTS-V U2, FTP-V U3, FTU-V U3) FTP-V U5/ FTU-V U5 white version FTP-V P5 FTU-V P5 FTP-V P2 FTU-V P2	FTS U2: 4H-16-4T argon FTS-V U2: 4H-16-4T argon FTP-V U3: 4H-16-4T argon FTU-V U3: 4H-16-4T argon FTP-V U5: 4H-10-4H-10-4HT krypton FTP-V P5: 4H-10-4H-8-33.2T krypton FTP-V P2: 4H-15-33.2T argon FTU-V P2: 4H-15-33.2T argon	Resistance against windload	EN 12210	Class C5
		Tightness against driving rain	EN 12208	Class E1200
		Impact resistance (ext. imp.)	EN 13049	Class 3
		Performance characteristics	EN 14351-1	Pass
		Noise insulation value R_w	EN ISO 140-3/ EN ISO 717-1	32 (-1;-5) dB – FTS-V U2, FTP-V U3, FTU-V U3 33(-1;-5) dB – FTS U2 35 (-1;-3) dB – FTP-V/FTU-V/P2 35(-2;-4) dB – FTP-V/FTU-V P5
		Heat transfer coefficient U_w	EN ISO 12567-2	0,97 W/(m ² ·K) FTP-V U5/FTU-V U5, FTP-V/FTU-V P5 1,2 W/(m ² ·K) FTP-V/FTU-V U3, FTP-V/FTU-V P2 1,3 W/(m ² ·K) – for others types of roof windows
		Air permeability	EN 12207	Class 4



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PTP PTP U3/TLP PTP U3 / GO PTP U3 / PI PTP P2 PTP P2 / GO PTP P2 / PI	PTP U3: 4H-16-4T argon PTL P2: 4H-15-33.2T argon	Resistance against windload	EN 12210	Class C4	
		Tightness against driving rain	EN 12208	Class E1200	
		Impact resistance (ext. imp.)	EN 13049	Class 3	
		Performance characteristics	EN 14351-1	Pass	
		Heat transfer coefficient Uw	EN ISO 12567-2	1,3 W/(m ² ·K)	
		Air permeability	EN 12207	Class 3	
		PTP U3: 4H-16-4T argon	Noise insulation value Rw	EN ISO 140-3/ EN ISO 717-1	34(-2;-5) dB- PTP U3
		PTP P2: 4H-15-33.2T argon	Noise insulation value Rw	EN ISO 140-3/ EN ISO 717-1	36(-1;-4) dB- PTP P2
	PTP-V PTP-V U3 PTP-V U3 / GO PTP-V U3 / PI PTP-V P2 PTP-V U5 PTP- U5 / GO PTP-V U5 / PI PTP-V P5 PTP-V P5 / GO PTP-V P5 / PI	PTP-V U3: 4H-16-4T argon PTP-V P2: 4H-15-33.2T argon PTP-V U5: 4HT-8-4H-10-4HT krypton PTP-V P5: 4H-8-4HT-8-33.2T krypton	Resistance against windload	EN 12210	Class C4
			Tightness against driving rain	EN 12208	Class E1200 – PTP-V U3/PTP-V P2 Class E1050 – PTP-V U5/PTP-V P5
Impact resistance (ext. imp.)			EN 13049	Class 3	
Performance characteristics			EN 14351-1	Pass	
Heat transfer coefficient Uw			EN ISO 12567-2	1,3 W/(m ² ·K) – PTP-V U3/PTP-V P2 1,1 W/(m ² ·K) – PTP-V U5/PTP-V P5	
Air permeability			EN 12207	Class 3	
		PTP-V U3: 4H-16-4T argon	Noise insulation value Rw	EN ISO 140-3/ EN ISO 717-1	32(-1;-4)dB - PTP-V U3
		PTP-V P2: 4H-15-33.2T argon	Noise insulation value Rw	EN ISO 140-3/ EN ISO 717-1	33 (-1; -4) dB – PTP-V P2 34 (-2;-6) dB – PTP-V U5 36(-1;-3) dB – PTP-V P5



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PPP preSelect (PPP-V U3, PPP-V P2, PPP-V U3/ GO, PPP-V U3/ PI, PPP-V P2/ GO, PPP-V P2/PI)	PPP-V U3 4H-16-4T argon PPP-V P2: 4H-15-33.2T argon	Resistance against windload	EN 12210	Class C4
		Tightness against driving rain	EN 12208	Class E900
		Impact resistance (ext. imp.)	EN 13049	Class 3
		Performance characteristics	EN 14351-1	Pass
		Noise insulation value Rw	EN ISO 140-3/ EN ISO 717-1	33 (-1; -4) dB – PPP-V P2 32 (-1; -4) dB – PPP-V U3
		Heat transfer coefficient Uw	EN ISO 12567-2	1,3 W/(m ² ·K)
		Air permeability	EN 12207	Class 3
FYP-V U3 proSky	4H-16-4T argon	Resistance against windload	EN 12210	Class C5
		Tightness against driving rain	EN 12208	Class E1050
		Impact resistance (ext. imp.)	EN 13049	Class 3
		Performance characteristics	EN 14351-1	Pass
		Noise insulation value Rw	EN ISO 140-3/EN ISO 717-1	32 (-1;-5)dB
		Heat transfer coefficient Uw	EN ISO 12567-2	1,3 W/(m ² ·K)
		Air permeability	EN 12207	Class 3
FDY-V U3 Duet proSky	4H-16-4T argon	Resistance against windload	EN 12210	Class C5
		Tightness against driving rain	EN 12208	Class E1050
		Impact resistance (ext. imp.)	EN 13049	Class 3
		Performance characteristics	EN 14351-1	Pass
		Noise insulation value Rw	EN ISO 140-3/EN ISO 717-1	32 (-1;-5)dB
		Heat transfer coefficient Uw	EN ISO 12567-2	1,3 W/(m ² ·K)
		Air permeability	EN 12207	Class 3