

# TECHNICAL SPECIFICATION

## FYP-V proSky, FYU-V proSky, WOODEN PIVOT ROOF WINDOWS WITH RAISED AXIS OF ROTATION



WINDOW TYPE	FYP-V proSky	FYU-V proSky
<b>I. APPLICATION</b>		
Installation	installation angle 20°-65° universal installation system on rafters and battens	
<b>II. FEATURES</b>		
Material	pinewood, vacuum impregnated	
Lacquer	acrylic natural colour	polyurethane white NCS S0502-Y
Varnishing	twice	triple
Air inlet type	automatic V40P	
Air inlet capacity	up to 49m <sup>3</sup> /h	
System	top Safe	
Seals	four	
Micro-opening facility	+	
Handle	Elegant	
Warranty	10 years for windows, 20 years for glazing unit	
<b>III. TECHNICAL PARAMETERS</b>		
Air permeability class	3 as per EN 12207	
Wind load resistance	class C4* as per EN 12210	
Watertightness – unshielded (A)	E900 as per EN 12208	
Impact resistance	class 3 (450mm) as per EN 13049	
Applicability of glazing units	U3, U5, P2, P5, P2, R1, G2	

WINDOW TYPE	FYP-V proSky	FYU-V proSky
<b>IV. OPTIONS</b>		
Wooden profiles for FYP-V	- painted in colours of RAL spectrum - painted in one of five Lazure colours - in mahogany woodwork	
Cladding	- painted in colours of RAL spectrum - cladding elements made of different types of sheet metal (CU,TC) - window with black mullion bar and cladding - window without air inlet	
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>		
Flashings	- standard, - special, - combination	
Control	- manual - electric	
Mounting accessories	- insulation sets - linings - auxiliary rafters - insulating band - frame extensions	
External accessories	- awning blind - roller shutter	
Internal accessories	- ARF blackout blind - ARP roller blind - ARS standard roller blind - AJP venetian blind - APS pleated blind - APF pleated blind - AMS insect screen	

Technical parameters	Glazing unit type				
	U3	U5	P2	P5	R1
Glazing structure	4H-16-4T	4HT-10-4H-10-4HT	4H-15-33.2T	4HS-10-4HT-8-33.2T	6H-12-33.2SRT
glazing U-value as per EN 673	1.0 W/m <sup>2</sup> K	0.5 W/m <sup>2</sup> K	1.0 W/m <sup>2</sup> K	0.5 W/m <sup>2</sup> K	1.0 W/m <sup>2</sup> K
window U-value as per EN ISO 12567-2	1.3 W/m <sup>2</sup> K	0.97 W/m <sup>2</sup> K	1.3 W/m <sup>2</sup> K	0.97 W/m <sup>2</sup> K	1.3 W/m <sup>2</sup> K
acoustic insulation Rw (the window with air inlet) as per EN ISO 717-1	32(-1;-5)	31(-1;-4)	35 (-1;-3)	33(-1;-3)	34(-1;-3)
acoustic insulation Rw (the window without air inlet) as per EN ISO 717-1	33(-1;-5)	32(-1;-4)	36(-1;-4)	36(-1;-4)	38(-1;-4)
light transmittance factor τ <sub>v</sub> as per EN 410	0.76	0.73	0.75	0.68	0.75
solar factor g as per EN 410	0.53	0.53	0.52	0.48	0.51
UV radiation as per EN 410	0.26	0.28	0.01	0.01	0.01
frame thermal insulation Uf as per EN ISO 10077-1. EN ISO 10077-2	npd	1.70 W/m <sup>2</sup> K	1.69 W/m <sup>2</sup> K	npd	npd
thermal insulation of frame and glazing connection Ψ as per EN ISO 10077-1. EN ISO 10077-2	npd	0.052W/mK	0.067W/mK	npd	npd

\* for the window width > 134 cm and height > 160 cm: npd  
npd – no performance determined

VI. TECHNICAL PARAMETERS FOR WINDOWS IN PARTICULAR SIZES												
frame external size [cm]	66x118	78x98	78x118	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206	114x140
window size symbol	04	05	06	07	13	40	42	09	80	41	43	11
window internal area [m <sup>2</sup> ]	0.62	0.62	0.75	0.91	1.05	1.18	1.36	1.12	1.29	1.46	1.68	1.38
effective glazing area [m <sup>2</sup> ]	0.47	0.47	0.59	0.73	0.85	0.96	1.12	0.92	1.07	1.22	1.42	1.16
window weight for U3 glazing unit [kg]±1kg	30	30	34	42	47	50	53	48	54	57	61	55
air inlet capacity at a pressure difference of 10Pa [m <sup>3</sup> /h]	23.34	27.89	27.89	27.89	27.89	27.89	27.89	27.89	27.89	27.89	27.89	49.08



# TECHNICAL SPECIFICATION

## PYP-V proSky\*, ALUMINIUM CLAD-PLASTIC PIVOT ROOF WINDOWS WITH RAISED AXIS OF ROTATION



thermoPro

WINDOW TYPE	PYP-V proSky
<b>I. APPLICATION</b>	
Installation	installation angle 20°-65° universal installation system
<b>II. FEATURES</b>	
Material	multi-chamber PVC profiles
Colour	white (RAL 9010)
Varnishing	-
Air inlet type	V35
Air inlet capacity	up to 41m <sup>3</sup> /h
System	top Safe
Seals	four
Micro-opening facility	+
Handle	Elegant white
Warranty	10 years for windows, 20 years for glazing unit
<b>III. TECHNICAL PARAMETERS</b>	
Air permeability class	3 as per EN 1026, EN 12207
Wind load resistance	class C4* as per EN 12210
Watertightness – unshielded (A)	E900 as per EN 12208
Impact resistance	class 3 (450mm) as per EN 13049
Applicability of glazing units	U3, U5, P2, P5

WINDOW TYPE	PYP-V proSky
<b>IV. OPTIONS</b>	
Wooden profiles	- available in veneer colours: - golden oak (GO) - pinewood (PI)
Cladding	- painted in colours of RAL spectrum - cladding elements made of different types of sheet metal (CU, TC) - window with black mullion bar and cladding - window without air inlet
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>	
Flashings	- standard, - special, - combination
Control	- manual - electric
Mounting accessories	- insulation sets - linings - auxiliary rafters - insulating band - frame extensions
External accessories	- awning blind - roller shutter
Internal accessories	- ARF blackout blind - ARP roller blind - ARS standard roller blind - AJP venetian blind - APS pleated blind - APF pleated blind - AMS insect screen

Technical parameters	Glazing unit type		
	U3	U5	P2
Glazing structure	4H-16-4T	4HT-10-4H-10-4HT	4H-15-33.2T
glazing U-value as per EN 673	1.0 W/m <sup>2</sup> K	0.5 W/m <sup>2</sup> K	1.0 W/m <sup>2</sup> K
window U-value as per EN ISO 12567-2	1.4 W/m <sup>2</sup> K	1.1 W/m <sup>2</sup> K	1.4 W/m <sup>2</sup> K
acoustic insulation Rw (the window with air inlet) as per EN ISO 717-1	32(-1;-4)	34(-2;-6)	33(-1;-4)
acoustic insulation Rw (the window without air inlet) as per EN ISO 717-1	34 (-2;-5)	34 (-2;-5)	36(-1;-4)
light transmittance factor τ <sub>v</sub> as per EN 410	0.76	0.73	0.75
solar factor g as per EN 410	0.53	0.53	0.52
UV radiation as per EN 410	0.26	0.28	0.01
frame thermal insulation U <sub>f</sub> as per EN ISO 10077-1, EN ISO 10077-2	1.60 W/m <sup>2</sup> K	1.57 W/m <sup>2</sup> K	npd
thermal insulation of frame and glazing connection Ψ as per EN ISO 10077-1, EN ISO 10077-2	0.048 W/mK	0.061 W/mK	npd

\* for the window width > 94 cm and height > 180 cm: npd  
npd – no performance determined

VI. TECHNICAL PARAMETERS FOR WINDOWS IN PARTICULAR SIZES										
frame external size [cm]	66x118	78x98	78x118	78x140	78x160	78x180	94x140	94x160	94x180	114x140
window size symbol	04	05	06	07	13	40	09	80	41	11
window internal area [m <sup>2</sup> ]	0.62	0.62	0.75	0.91	1.04	1.18	1.12	1.29	1.45	1.38
effective glazing area [m <sup>2</sup> ]	0.47	0.47	0.59	0.73	0.85	0.96	0.92	1.07	1.22	1.16
window weight for U3 glazing unit [kg]±1kg	38	36	42	48	54	60	56	62	69	65
air inlet capacity at a pressure difference of 10Pa [m <sup>3</sup> /h]	20.59	25.32	25.32	25.32	25.32	25.32	27.55	27.55	27.55	40.97

\*until stock lasts



# TECHNICAL SPECIFICATION

## FDY-V Duet proSky, FDY-V/U Duet proSky

WOODEN PIVOT ROOF WINDOWS

WITH RAISED AXIS OF ROTATION WITH LOWER TRANSOM



thermoPro

WINDOW TYPE	FDY-V Duet proSky	FDY-V/U Duet proSky
<b>I. APPLICATION</b>		
Installation	installation angle 25°-65° universal installation system	
<b>II. FEATURES</b>		
Material	pinewood, vacuum impregnated	
Lacquer	acrylic natural colour	polyurethane white NCS S0502-Y
Varnishing	twice	triple
Air inlet type	automatic V40P	
Air inlet capacity	up to 49m³/h	
System	top Safe	
Seals	four	
Micro-opening facility	+	
Handle	Elegant	
Warranty	10 years for windows, 20 years for glazing unit	
<b>III. TECHNICAL PARAMETERS</b>		
Air permeability class	3 as per EN 12207	
Wind load resistance	class C5* as per EN 12210	
Watertightness – unshielded (A)	E900 as per EN 12208	
Impact resistance	class 3 (450mm) as per EN 13049	
Applicability of glazing units	U3, P2, G2	

WINDOW TYPE	FDY-V Duet proSky	FDY-V/U Duet proSky
<b>IV. OPTIONS</b>		
Wooden profiles for FDY-V	- painted in colours of RAL spectrum - painted in one of five Lazure colours - in mahogany woodwork	
Cladding	- painted in colours of RAL spectrum - cladding elements made of different types of sheet metal (CU,TC) - window with black mullion bar and cladding - window without air inlet	
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>		
Flashings	- standard, - special, - combination	
Control	- manual - electric	
Mounting accessories	- insulation sets - linings - auxiliary rafters - insulating band - frame extensions	
External accessories	- awning blind - roller shutter	
Internal accessories	- ARF blackout blind - ARP roller blind - ARS standard roller blind - AJP venetian blind - APS pleated blind - APF pleated blind - AMS insect screen	

VII. TECHNICAL PARAMETERS FOR WINDOWS WITH PARTICULAR GLAZING UNIT TYPES		
Technical parameters	Glazing unit type	
	U3	P2***
Glazing structure	4H-16-4T	4H-14-33.2T
glazing U-value as per EN 673	1.0 W/m²K	1.1 W/m²K
window U-value as per EN ISO 12567-2, EN ISO 10077-1	1.3 W/m²K	1.3 W/m²K
acoustic insulation Rw as per EN ISO 717-1	32(-1;-5)	35(-1;-3)
light transmittance factor τ <sub>v</sub> as per EN 410	0.76	0.75
solar factor g as per EN 410	0.53	0.52
UV radiation as per EN 410	0.26	0.01
frame thermal insulation U <sub>f</sub> ** as per EN ISO 10077-1, EN ISO 10077-2	npd	1.83 W/m²K
thermal insulation of frame and glazing connection Ψ** as per EN ISO 10077-1, EN ISO 10077-2	npd	0.074 W/mK

\* for the window width > 94 cm and height > 255 cm: npd  
 \*\* FAKRO internal test results  
 \*\*\* applies to FDY-V windows  
 npd – no performance determined

### VI. TECHNICAL PARAMETERS FOR WINDOWS IN PARTICULAR SIZES

frame external size [cm]	78x186	78x206	78x235	78x255	94x186	94x206	94x235	94x255
top sash dimensions [cm]	78x140	78x160	78x160	78x160	94x140	94x160	94x160	94x160
bottom sash dimensions [cm]	78x50	78x50	78x78	78x98	94x50	94x50	94x78	94x98
window size symbol	CA	CB	CC	CD	DA	DB	DC	DD
window internal area [m²]	1.19	1.33	1.52	1.80	1.46	1.63	1.87	2.04
effective glazing area [m²]	0.91	1.03	1.20	1.32	1.15	1.30	1.52	1.67
window weight for U3 glazing unit [kg]±1kg	55	60	66	70	65	68	77	83
air inlet capacity at a pressure difference of 10Pa [m³/h]	27.89	27.89	27.89	27.89	27.89	27.89	27.89	27.89

