FAKRO®

FPP-V, FPU-V, FPW-V

TOP HUNG AND PIVOT WOODEN ROOF WINDOW

I. APPLICATION

	Top hung and pivot window
	Installed in roofs with pitches 15-55°

II. FEATURES

	Pinewood, natural colour (FPP), white NCS S0502-Y polyurethane (FPU) or acrylic (FPW)
	TopSafe system
	V40P automatic air inlet
	Quadruple sealing system
	Universal installation system
	Warm TGI spacer
	Handle Elegant

III. ADDITIONAL PRODUCTS USED WITH WINDOWS

Flashings	
	standard
	special
	combination

Control	
	manual
	electric

Mounting accessories	
	insulation sets
	linings
	auxiliary rafters
	bands
	frame extensions

External accessories	
	awning blinds
	roller shutters

Internal accessories	
	blackout blinds
	roller blinds
	standard roller shutters
	awning blinds
	pleated blinds

Other accessories	
	insect screen

IV. OPTIONS

	Wooden profiles painted in any RAL colour or one of the five transparent colours
	External cladding elements painted in any RAL colour or manufactured to match event the most unusual roofing colours (CU, TC)
	Window with a mullion bar
	Non-standard glazing unit

V. DECLARATION OF PERFORMANCE

Harmonized standard	**EN 14351-1:2006+A1:2010**
Number of Declaration of Performance	XXX/CPR/14351/xx Individual numbers of Declaration of Performance are to be found in the table with technical parameters

VI. TECHNICAL PARAMETERS

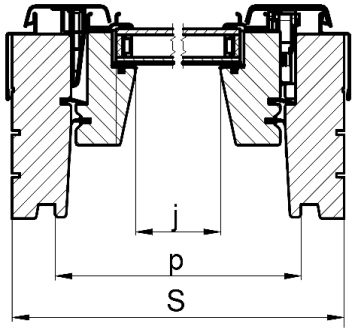
Technical parameters	*Glazing unit type*								
	U3	**U5**	**U5+EHV- AT Thermo**	**P2**	**P5**	**R1**	**G2**	**G61**	**standards**
- Window heat transmittance coefficient Uw [W/m²K]	1,3	0,97	0,92*	1,3	0,97	1,3	1,3	1,3	EN 12567-2, EN 10077
- Glazing heat transmittance coefficient Ug [W/m²K]	1,0	0,5	0,5	1,0	0,5	1,0	1,0	1,0	EN 673
- Acoustic performance Rw [dB]	32 (-1;-5)	33 (-2;-6)	33 (-2;-6)	35 (-1;-3)	35 (-2;-4)	39 (-2;-5)**	35 (-1;-3)	39 (-2;-5)**	EN ISO 717-1
- max. capacity of air inlet [m³/h] - 10Pa	up to 49								EN 13141
- air permeability class	4								EN 1026, EN 12207
- light permeability τv	0,76	0,73	0,73	0,75	0,63	0,75	0,40	0,40	EN 410
- solar factor[g]	0,53	0,53	0,53	0,52	0,48	0,51	0,23	0,23	EN 410
- permeability UV	0,26	0,28	0,28	0,01	0,01	0,02	0,01	0,01	EN 410
- frame thermal insulation Uf [W/m²K]	1,96*	1,93*/1,387*	1,387*	1,96*	npd	npd	1,96*	npd	EN ISO 10077-1 EN ISO 10077-2
- thermal insulation of window frame connection with glazing ψ (psi) [W/mK]	0,052*	0,059*/0,062*	0,062*	0,065*	npd	npd	0,065*	npd	EN ISO 10077-1 EN ISO 10077-2
Number of Declaration of Performance	B01/CPR/14351/xx	B01/CPR/14351/xx	-	B40/CPR/14351/xx	B40/CPR/14351/xx	B40/CPR/14351/xx	B50/CPR/14351/xx	B05/CPR/14351/xx	EN 14351-1:2006+A1:2010

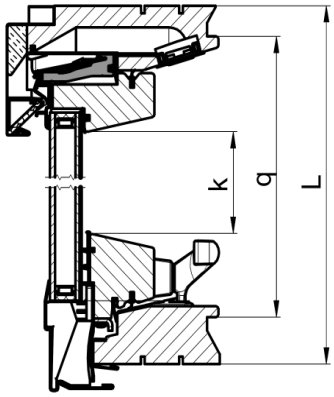
* Result of FAKRO internal tests

** Parameter for the window without air inlet FPP R1, G61 (FPP-V R1, G61 Rw= 36(-2;-3))

VII. DETAILED DIMENSIONS OF FPP-V WINDOWS

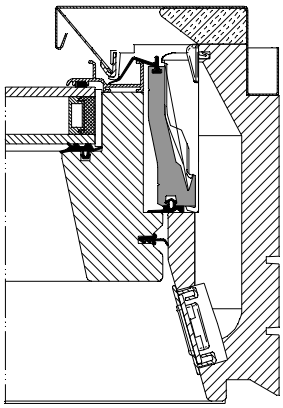
Window size [cm]			Size symbol	Frame external size S x L [mm]			Distance between lining grooves p [mm]	q [mm]	Glazing area j [mm]	k [mm]	Glazing visible area j * k [m²]
55	x	**98**	02	**547**	x	**981**	485	924	369	791	0,29
55	x	**118**	16	**547**	x	**1181**	485	1124	369	991	0,37
55	x	**140**	AM	**547**	x	**1401**	485	1344	369	1211	0,45
55	x	**160**	AN	**547**	x	**1601**	485	1544	369	1411	0,52
66	x	**98**	03	**657**	x	**981**	595	924	479	791	0,38
66	x	**118**	04	**657**	x	**1181**	595	1124	479	991	0,47
66	x	**140**	14	**657**	x	**1401**	595	1344	479	1211	0,58
66	x	**160**	BN	**657**	x	**1601**	595	1544	479	1411	0,68
78	x	**98**	05	**777**	x	**981**	715	924	599	791	0,47
78	x	**118**	06	**777**	x	**1181**	715	1124	599	991	0,59
78	x	**140**	07	**777**	x	**1401**	715	1344	599	1211	0,73
78	x	**160**	13	**777**	x	**1601**	715	1544	599	1411	0,85
94	x	**98**	15	**937**	x	**981**	875	924	759	791	0,60
94	x	**118**	08	**937**	x	**1181**	875	1124	759	991	0,75
94	x	**140**	09	**937**	x	**1401**	875	1344	759	1211	0,92
94	x	**160**	80	**937**	x	**1601**	875	1544	759	1411	1,07
114	x	**118**	10	**1137**	x	**1181**	1075	1124	959	991	0,95
114	x	**140**	11	**1137**	x	**1401**	1075	1344	959	1211	1,16
134	x	**98**	12	**1337**	x	**981**	1275	924	1159	791	0,92
134	x	**118**	18	**1337**	x	**1181**	1275	1124	1159	991	1,15
134	x	**140**	17	**1337**	x	**1401**	1275	1344	1159	1211	1,40





VIII. CAPACITY OF V40P AIR INLET

		Window width [cm] 55/..	66/..	78/..	94/..	114/..	134/..
Geometric area * [mm²]		2,436	3,480	4,524	4,524	6,960	6,960
Pressure difference [Pa]							
1	[m³/h]	5.27	6.9	8.58	8.58	14.89	14.89
	[l/s]	1.46	1.92	2.38	2.38	4.14	4.14
2	[m³/h]	7.66	10.07	12.39	12.39	21.64	21.64
	[l/s]	2.13	2.8	3.44	3.44	6.01	6.01
10	[m³/h]	17.28	23.34	27.89	27.89	49.08	49.08
	[l/s]	4.8	6.48	7.75	7.75	13.63	13.63
20	[m³/h]	16.86	30.97	34.12	34.12	70.84	70.84
	[l/s]	4.68	8.6	9.48	9.48	19.68	19.68



* the smallest cross-section area of the air inlet channel