

TECHNICAL SPECIFICATION

DRF DU6, DRG P2, INSULATED FLAT ACCESS ROOF LIGHTS

WINDOW TYPE	DRF DU6
	
I. APPLICATION	
Installation	installation angle 2°-15°
roofing base type	roofing felt paper, membrane, green roofs, gravel roofs
II. FEATURES	
Sash structure	multi-chamber PVC profile
Dome	no dome
Profiles fixing roofing	profiles mechanically fixing roofing to the frame
Opening	up to an angle of 80° (90x90, 100x100) up to an angle of 60° (90x120, 120x120)
Equipment	gas springs to facilitate operation of the sash profiles with anti-slip protection
Warranty	10 years for access roof light, 2 years for gas springs
III. TECHNICAL PARAMETERS	
Wind load resistance	Class C5/B5
Snow load resistance	6H* - 18-4H - 18-44,2** 6H* - 18-4H - 18-44,4** 6H* - 16-4H - 18-55,2** 6H* - 16-4H - 18-55,4**
*external glass toughened **internal glass laminated	
Reaction to fire	B-s2,d0
External fire rating	B _{non} (t1)
Watertightness Unshielded (A)	E1200
Impact resistance	Class 5 - 950mm
Air permeability	Class 4
Load bearing capacity of safety devices	Threshold value (350N)
IV. OPTIONS	
Glazing unit	DU8
Steppe, peripheral seal	- coating in colours of RAL Classic spectrum (ColourLine version)
Non-standard sizes	90x90 cm - 120x120 cm
V. ADDITIONAL PRODUCTS TO BE USED	
Mounting accessories	- XRD/W reinforced installation base with a height of 15 cm to raise the window above the roof. A maximum of three bases can be joined under one window. - XRD/A base to increase installation angle by 3 degrees
External accessories	AMZ/F Solar awning blinds.
Internal accessories	ARF/D blackout blinds

WINDOW TYPE	DRG P2
	
I. APPLICATION	
Installation	installation angle 2°-15°
roofing base type	roofing felt paper, membrane, green roofs, gravel roofs
II. FEATURES	
Sash structure	multi-chamber PVC profile
Dome	no dome
Profiles fixing roofing	profiles mechanically fixing roofing to the frame
Opening	up to an angle of 80° (90x90, 100x100) up to an angle of 60° (90x120, 120x120)
Equipment	gas springs to facilitate operation of the sash profiles with anti-slip protection
Warranty	10 years for access roof light, 2 years for gas springs
III. TECHNICAL PARAMETERS	
Wind load resistance	Class C4/B4
Snow load resistance	4H* + 4H-14-33,2** 6H* + 4H-14-33,2**
*external glass toughened **internal glass laminated	
Reaction to fire	B-s2,d0
External fire rating	npd
Watertightness Unshielded (A)	E1200
Impact resistance	Class 5 - 950mm
Air permeability	Class 4
Load bearing capacity of safety devices	Threshold value (350N)
IV. OPTIONS	
Glazing unit	P2
Steppe, peripheral seal	-
Non-standard sizes	90x90 cm - 120x120 cm
V. ADDITIONAL PRODUCTS TO BE USED	
Mounting accessories	- XRD/W reinforced installation base with a height of 15 cm to raise the window above the roof. A maximum of three bases can be joined under one window. - XRD/A base to increase installation angle by 3 degrees
External accessories	AMZ/F Solar awning blinds.
Internal accessories	ARF/D blackout blinds

VI. TECHNICAL PARAMETERS FOR PARTICULAR ACCESS ROOF LIGHTS					
Technical parameters	Access roof light type		Technical parameters	Access roof light type	
	DRF DU6			DRG P2	
Glazing unit structure***	6H-18-4HT-18-44.2T 6H-16-4HT-18-55.2T		Glazing unit structure***	4H + 4H-14-33.2 6H + 4H-14-33.2	
glazing U-value as per EN 1279-5+A2:2010	0.5 W/m²K		glazing U-value as per EN 1279-5+A2:2010	1.1 W/m²K	
roof light U-value as per EN 14351-1:2006+A1:2010	0.74 W/m²K		roof light U-value as per EN 14351-1:2006+A1:2010	1.0 W/m²K	
acoustic insulation Rw wg normy EN 14351-1:2006+A1:2010	38 (-1;-3)		acoustic insulation Rw wg normy EN 14351-1:2006+A1:2010	35 (-2;-5)	
light transmittance factor τ _v as per EN 1279-5+A2:2010	0.54		light transmittance factor τ _v as per EN 1279-5+A2:2010	0.69	
solar factor g as per EN 1279-5+A2:2010	0.43		solar factor g as per EN 1279-5+A2:2010	0.49	
frame thermal insulation U _f as per EN 14351-1:2006+A1:2010	0.78 W/m²K		frame thermal insulation U _f as per EN 14351-1:2006+A1:2010	0.84 W/m²K	
thermal insulation of frame and glazing connection Ψ as per EN 14351-1:2006+A1:2010	0.055 W/mK		thermal insulation of frame and glazing connection Ψ as per EN 14351-1:2006+A1:2010	0.034 W/mK	

***depending on access roof light type

VII. TECHNICAL PARAMETERS FOR ACCESS ROOF LIGHTS IN PARTICULAR SIZES				
commercial size [cm]	90x90	90x120	100x100	120x120
access roof light symbol	05K	06K	07K	08K
				
access roof light internal area [m²]	0.67	0.91	0.84	1.25
effective glazing area [m²]	0.60	0.83	0.77	1.16
access roof light weight DRF DU6 [kg]	89	109	103	139
access roof light weight DRG P2 [kg]	82	99	94	127

TECHNICAL SPECIFICATION

DRC-C P2, INSULATED FLAT ACCESS ROOF LIGHTS

WINDOW TYPE		DRC-C P2	
			
I. APPLICATION			
Installation		installation angle 0°-15°	
roofing base type		roofing felt paper, membrane, green roofs, gravel roofs	
II. FEATURES			
Sash structure		multi-chamber PVC profile	
Dome		transparent, UV-stabilized polycarbonate with a thickness of 3mm (sizes up to 06K) or 4mm (sizes from 07K)	
Installation set		set fixing dome and hindering its removal – material resistant to weather conditions (alloy of Al-Zn)	
Profiles fixing roofing		profiles mechanically fixing roofing to the frame	
Opening method		manually, up to an angle of 80°	
Equipment		gas springs to facilitate operation of the sash	
Warranty		10 years for access roof light, 2 years for gas springs	
III. TECHNICAL PARAMETERS			
Tearing out load resistance		UL 1500	as per EN 1873:2005
Clamping load resistance		DL 2500	
Watertightness		meets	
Impact resistance small hard body		meets	
Impact resistance large soft body		SB 1200	
Air permeability		Class 4	
External fire rating		B _{out} (t1)	
Laminated inner pan		P2A as per EN 356	
Toughened outer pane		1C3 as per EN 12600	
IV. OPTIONS			
Glazing unit		U6, U8 (VSG), P4	
Dome		transparent dome can be produced (DRC-M)	
V. ADDITIONAL PRODUCTS TO BE USED			
Mounting accessories		the XRD/W installation base allows raising the access roof light above the roof by 15cm. Maximum three bases XRD/W can be joined.	
External accessories		AMZ/F Solar awning blinds	
Internal accessories		ARF/D blackout blinds, APF/D pleated blind	

VI. TECHNICAL PARAMETERS FOR PARTICULAR ACCESS ROOF LIGHTS		
Technical parameters	Access roof light type	
	DRC-C P2	
Glazing structure	4H+14-33.2T	
glazing U-value as per EN 673	1.1 W/m²K	
izolacyjność cieplna okna U as per EN 1873:2005	0.93 W/m²K	
izolacyjność cieplna okna Urc as per EN 1873:2014+A1:2016; A4, 1m2	0.76 W/m²K	
acoustic insulation Rw as per EN 1873:2014	35(-1;-3)	
light transmittance factor τ _v as per EN 1873:2014	0.577	

VII. TECHNICAL PARAMETERS FOR ACCESS ROOF LIGHTS IN PARTICULAR SIZES				
frame external size [cm]	90x90	90x120	100x100	120x120
window size symbol	05K	06K	07K	08K
				
window internal area [m²]	0.67	0.91	0.84	1.25
effective glazing area [m²]	0.60	0.83	0.77	1.16
access roof light weight DRC-C P2 [kg]	89	109	103	139

TECHNICAL SPECIFICATION

DRL

FLAT ROOF ACCESS DOOR

ROOF ACCESS TYPE	DRL
	
I. APPLICATION	
Installation	kąt montażu 0-5°
roofing base type	Membrana, papa asfaltowa, zielone dachy, dachy żwirowe
II. FEATURES	
Structure	The frame is constructed of multi-chamber PVC profiles filled with insulation material, while the whole structure is insulated. Insulated sash equipped with a rubber seal ensures perfect thermal insulation performance.
Profiles fixing roofing	profiles mechanically fixing roofing to the frame
Opening method	manually, up to an angle of 60°
Equipment	gas springs to facilitate operation of the sash
Warranty	10 years for access roof light, 2 years for gas springs

ROOF ACCESS TYPE	DRL
III. TECHNICAL PARAMETERS	
Wind load resistance	Class C5/B5
Snow load resistance	npd
Fire resistance	npd
External fire resistance	npd
Watertightness. Unshielded (A)	E900
Impact resistance	Class 5 – 950 mm
Air permeability	Class 4
IV. OPTIONS	
Sizes	- sizes compatible with the size of LML loft ladders (sold separately)
V. ADDITIONAL PRODUCTS TO BE USED	
Mounting accessories	the XRD/W installation base allows raising the access roof light above the roof by 15cm. Maximum three bases XRD/W can be joined.

VI. TECHNICAL PARAMETERS FOR FLAT ROOF ACCESS DOOR IN PARTICULAR SIZES						
Rozmiar handlowy / wymiar otworu w sufcie [cm]	60x120	70x120	70x130	70x140	86x130	92x130
						
Access roof light symbol	13K	14K	15K	16K	17K	18K
Frame size [cm] [cm]	81x165	90x165	90x175	90x185	106x175	112x175
Frame internal dimensions [cm]	50.6x134.8	59.6x134.8	59.6x144.8	59.6x154.8	75.6x144.8	81.6x144.8
LML box internal dimensions [mm]	506x1121	596x1121	596x1221	596x1321	756x1221	816x1221
Heigh [cm]	20,2					
Flat roof access door weight DRL [kg]±1kg	63	67	70	73	76	79

VII. TECHNICAL PARAMETERS FOR PARTICULAR FLAT ROOF ACCESS DOOR	
Uw value as per EN 14351-1:2006+A2:2016	0.67 W/m²K
acoustic insulation Rw as per EN 14351-1:2006+A2:2016	30 (0; -2) dB
frame thermal insulation Uf as per EN 14351-1:2006+A2:2016	npd
thermal insulation of frame and glazing connection Ψ as per EN 14351-1:2006+A2:2016	npd

