

GRILLODUR® barrel vault continuous rooflights

Technical information – Glazing panels



Panel Construction

Panel variant	Construction	GRP sheet thickness	Schematic illustration
Type 40/2 – 1,5	40 mm panel – 2-layer type		
	Exterior: Glass Reinforced Plastic (NT/BT/GT)	1,5 mm (HR 2 mm)	
	Core: Supporting profiles / insulation insert ¹		
	Interior: Glass Reinforced Plastic (NT/WT)	1,1 mm	

Panel variant	Construction	GRP sheet thickness	Schematic illustration
Type 70/2 – 1,1	70 mm panel – 2-layer type		
	Exterior: Glass Reinforced Plastic (NT/BT/GT)	1,5 mm (HR 2 mm)	
	Core: Supporting profiles / insulation insert ¹		
	Interior: Glass Reinforced Plastic (NT/WT)	1,1 mm	

Panel variant	Construction	GRP sheet thickness	Schematic illustration
Type 70/2 – 1.0	70 mm panel – 2-layer type		
	Exterior: Glass Reinforced Plastic (NT/BT/GT)	1,5 mm (HR 2 mm)	
	Core: Supporting profiles / insulation insert ¹		
	Interior: Glass Reinforced Plastic (NT/WT)	1,1 mm	

Panel variant	Construction	GRP sheet thickness	Schematic illustration
Type 70/3 – 0,9	70 mm panel – 3-layer type		
	Exterior:		
	1. Glass Reinforced Plastic (NT/BT/GT)	1,5 mm (HR 2 mm)	
	2. Glass Reinforced Plastic (NT)	1,1 mm	
	Core: Supporting profiles / insulation insert ¹		
Interior: Glass Reinforced Plastic (NT/WT)	1,1 mm		

Panel variant	Construction	GRP sheet thickness	Schematic illustration
Type 70/4 – 0,8	70 mm panel – 4-layer type		
	Exterior:		
	1. Glass Reinforced Plastic (NT/BT/GT)	1,5 mm (HR 2 mm)	
	2. Glass Reinforced Plastic (NT)	1,1 mm	
	3. Glass Reinforced Plastic (NT)	1,1 mm	
	Core: Supporting profiles / insulation insert ¹		
Interior: Glass Reinforced Plastic (NT/WT)	1,1 mm		

Natural Tint = NT / Blue Tint = BT / Grey Tint = GT
 Natural Tint = NT / White Tint = WT
 Natural Tint = NT

Adhesive
 Support profile
 Insulation insert
 Aluminium profile

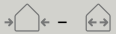
































Available thickness of GRP-sheets: 1.1 mm / 1.5 mm / 2 mm

Hard Roofing (HR) is available in exterior colours Natural Tint NT and Blue Tint BT

Panel type description "Type 70/2 – 1,1" = 70 mm – 2 layer panel type with U-value 1,1 W/(m²K)

¹⁾ The insulation insert is available in various densities and is used in accordance with the physical requirements. Optional without insulation insert.

Performances

Panel variant	Thermal Transmittance	Thermal Transmittance	Thermal Transmittance	Panel assembly		Light Transmission	Light Transmission	Solar Energy Transmittance	Sound Reduction Index	Sound Reduction Index
	U-value of the glazing in the undisturbed area *	U-value of the panel. Size 1980 x 4000 mm *	U-value of rooflight with insulated eaves. Size: 2000 x 4000 mm, area 8m ² **	Overall construction Shown with insulation insert (outside to inside) 		GRP-skins only, without insulation insert	GRP-skins with insulation insert	GRP-skins with insulation insert		Thicker GRP-skins
	U-value	U-value	U-value	Colour code	Letter code	τ _v	τ _v	g-value	R _w	R _w
	W/(m ² K)	W/(m ² K)	W/(m ² K)			%	%	%	dB	dB
Type 40/2 - 1,5	1,5	1,82	1,93		NT in NT	76	49	62	24	ca. 28 with 2 mm GRP inner skin
					NT in WT	53	37	52		
					BT in NT	67	43	58		
					BT in WT	43	32	49		
					GT in NT	53	35	48		
					GT in WT	37	25	39		
Type 70/2 - 1,1	1,1	1,46	1,56		NT in NT	76	40	56	26	30 with 2 mm GRP inner skin
					NT in WT	53	32	47		
					BT in NT	67	35	52		
					BT in WT	43	28	44		
					GT in NT	53	30	42		
					GT in WT	37	21	36		
Type 70/2 - 1,0	1,0	1,33	1,42		NT in NT	76	31	48	26	30 with 2 mm GRP inner skin
					NT in WT	53	26	42		
					BT in NT	67	28	45		
					BT in WT	43	24	38		
					GT in NT	53	24	36		
					GT in WT	37	17	31		
Type 70/3 - 0,9	0,9	1,21	1,29		NT NT in NT	66	30	40	approximately 30	34 with 2 mm GRP center and 2 mm inner skin
					NT NT in WT	46	21	35		
					BT NT in NT	58	26	38		
					BT NT in WT	41	19	31		
					GT NT in NT	46	21	36		
					GT NT in WT	32	15	32		
Type 70/4 - 0,8	0,8	1,08	1,16		NT NT NT in NT	57	26	35	approximately 32	36 with 2 mm GRP center and 2 mm inner skin
					NT NT NT in WT	40	18	31		
					BT NT NT in NT	51	23	33		
					BT NT NT in WT	36	16	30		
					GT NT NT in NT	41	19	24		
					GT NT NT in WT	29	13	21		

 Natural Tint = NT	 Blue Tint = BT	 Grey Tint = GT	 White Tint = WT	 Insulation core = in
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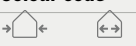








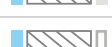



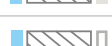








Note: Technical values are determined for the standard panels

* Vertical U-value for rooflight panels with insulation insert

** U-value of the horizontal rooflight construction with insulation insert

GRILLODUR® barrel vault continuous rooflights, Hard Roofing

Performances

Hard Roofing (HR) panel variant	Thermal Transmittance	Thermal Transmittance	Thermal Transmittance	Panel assembly		Light Transmission	Light Transmission	Solar Energy Transmittance	Sound Reduction Index	Sound Reduction Index
	U-value of the glazing in the undisturbed area *	U-value of the panel. Size: 1980 x 4000 mm *	U-value of rooflight with insulated eaves. Size: 2000 x 4000 mm, area 8m2 **	Overall construction Shown with insulation insert (outside to inside) 		GRP-skins only, without insulation insert	GRP-skins with insulation insert	GRP-skins with insulation insert		Thicker GRP-skins
	U-value	U-value	U-value	Colour code	Letter code	τ_v	τ_v	g-value	Rw	Rw
	W/(m²K)	W/(m²K)	W/(m²K)			%	%	%	dB	dB
Type 40/2 HR - 1,5	1,5	1,82	1,93		NT in NT	53	35	48	NPD	NPD
					NT in WT	37	25	39		
					BT in NT	53	35	48		
					BT in WT	37	25	39		
Type 70/2 HR - 1,1	1,1	1,46	1,56		NT in NT	53	30	42	NPD	NPD
					NT in WT	37	21	36		
					BT in NT	53	30	42		
					BT in WT	37	21	36		
Type 70/2 HR - 1,0	1,0	1,33	1,42		NT in NT	53	24	36	NPD	NPD
					NT in WT	37	17	31		
					BT in NT	53	24	36		
					BT in WT	37	17	31		
Type 70/3 HR - 0,9	0,9	1,21	1,29		NT NT in NT	46	21	36	NPD	NPD
					NT NT in WT	32	15	32		
					BT NT in NT	46	21	36		
					BT NT in WT	32	15	32		
Type 70/4 HR - 0,8	0,8	1,08	1,16		NT NT NT in NT	41	19	24	NPD	NPD
					NT NT NT in WT	29	13	21		
					BT NT NT in NT	41	19	24		
					BT NT NT in WT	29	13	21		

			
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Note: Technical values are determined for the standard panels

* Vertical U-value for rooflight panels with insulation insert

** U-value of the horizontal rooflight construction with insulation insert