

# GRILLODUR® barrel vault continuous rooflights

Technical information – Glazing panels



## Standard 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 <sup>1</sup>		
	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 <sup>1</sup>		
	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 <sup>1</sup>		
	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 <sup>1</sup>		
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 <sup>1</sup>		
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
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Adhesive	Support profile	Insulation insert	Aluminium profile
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Available thickness of GRP-sheets: 1.1 mm / 1.5 mm / 2 mm

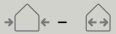
































Hard Roofing (HR) is available in exterior Natural Tint NT

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

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

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## 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 <sup>2</sup> **	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	$\tau_v$	$\tau_v$	g-value	Rw	Rw
	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> 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		

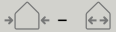












 Natural Tint = NT	 Blue Tint = BT	 Grey Tint = GT	 White Tint = WT	 Insulation core = in
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Note: Technical values are determined for the standard panels

\* Vertical U-value for rooflight panels with insulation insert

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

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 8m <sup>2</sup> **	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	$\tau_v$	$\tau_v$	g-value	Rw	Rw
	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> K)			%	%	%	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		
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		
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		
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		
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		

 Natural Tint = NT     White Tint = WT     Insulation core = in

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