

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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 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

Panel type description "Type 70/2 – 1,1" = 70 mm – 2 layer panel type with U-value 1,1 W/m²

¹⁾ 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 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 | Rw | Rw |
| | 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 |
|--|--|--|---|---|

* Vertical U-value for rooflight panels with insulation insert

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