

PRODUCT DATA SHEET

Delta Glass Roof Board G3 T3+



Description

Delta Glass Roof Board G3 T3+ is a robust, Radon protective, high quality thermal insulation with a high compressive strength. Delta Glass G3 T3+ can be used as a single (top) layer or as a first layer in a two-layer insulation system to receive mechanically fixed or adhered waterproofing.

Delta Glass insulation has a high compressive strength, capable to take high loads without deformation or deflection due to its rigid cell structure. Delta Glass passes EN 826 Annex A that defines the uniform load bearing capabilities of insulations which do not compress before the load capability is recorded.

Delta Glass is dimensionally stable, neither shrinks nor swells and does not slump over time. It has a low co-efficient of expansion within the same range to steel, wood and concrete.

Features

- Euroclass E (Core material Euroclass A1).
- Waterproof & moisture resistant due to its hermetically closed glass cell structure
- High compressive strength and dimensionally stable
- Highly resistant to all forms of infestation and vermin
- Resistant to organic solvents and acids
- Insulation manufactured primarily from recycled glass (≥60%)
- Long-term efficiency and thermal performance over time

Specification

- J21/25 Warm deck roof insulation
- J21/115 Warm deck roof coating
- J31/335 Warm deck roof insulation
- J21/427 Cellular glass insulation
- J31/337 Cellular glass insulation
- J41/430 Warm deck roof insulation
- J42/430 Warm deck roof insulation
- Pr_25_71_52_13 Cellular glass insulation boards

Product Details

DMS Special Order

Fields of Application

- Warm roofing systems
- Accessible roofs including green roofs, terraces and balconies

Storage

- Store safely and keep out of reach of children
- Always store and transport in a secure position
- Delta Glass Roof Boards G3 T3+ units are packaged in boxes, transported and stored on pallets, to prevent damages from occurring

Associated Products

- Koster Bitumen Primer
- Koster Deuxan 2C
- Koster Glass Fibre Mesh
- Koster Glass Fibre Mesh
- Delta Terraxx
- Delta Geo Drain Quattro



PRODUCT DATA SHEET

Delta Glass Roof Board G3 T3+

Technical Data

1. Product Characteristics According to EN 13167 ¹⁾ and ETA17/09032 ²⁾

Density (± 15%) (EN 1602)	115 kg/m ³
Thickness (EN 823) ± 2mm	From 40 up to 200mm
Length (EN 822) ± 5mm	1200mm
Width (EN 822) ± 2mm	600mm
Thermal Conductivity (EN ISO 10456)	AD ≤ 0.041 W/(m·K)
Reaction to Fire (EN 13501-1)	Euroclass E (Core Material Euroclass A1)
Point Load (EN 12430)	PL ≤ 1.5mm
Compressive Strength (EN 826 annexe A)	CS ≥ 600 kPa
Characteristic Value of Compressive Stress (ISO 12491:1997) ³	0.05 = 633 KPa (n=50, mean = 750 kPa, so = 55 kPa)
Bending Strength (EN 12089)	BS ≥ 450 kPa
Tensile Strength (EN 1607)	TR ≥ 150 kPa
Compressive Creep (EN 1606)	CC (1.5/1/50) 225

2. Additional Product Characteristics

Thermal Diffusivity at 0°C	4.2 x 10 ⁻⁷ m ² /sec
Flexural Modulus of Elasticity E	700 MN/m ²
BRE Green Guide Rating	A
NBS plus	Yes
RIBA - CPD Assessed Material	Yes

1) CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 13167; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.

2) ETA-17/0903 in reference to EAD no. 040777-00-1201 for the intended use cellular glass boards as load bearing layer and thermal insulation outside the waterproofing.

3) Characteristic value of compressive stress or compressive strength, 5%-fractile value for a one-sided confidence level of 75% under unknown or known variance using ISO 12491:1997.

Packaging

Length x Width [mm]	1200 x 600								
Thickness [mm]	40	50	60	70	80	90	100	110	120
R ^p [m ² K/W]	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90
Units	6	5	4	4	3	3	3	2	2
Square Metre [m ²]	4.32	3.60	2.88	2.88	2.16	2.16	2.16	1.44	1.44

Packaging

Length x Width [mm]	1200 x 600							
Thickness [mm]	130	140	150	160	170	180	190	200
R ^p [m ² K/W]	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85
Units	2	2	2	2	14*	14*	12*	12*
Square Metre [m ²]	1.44	1.44	1.44	1.44	10.08	10.08	8.64	8.64

Other dimensions and thicknesses are available on request.

* No single package, but all boards on a pallet.

Guarantees

Delta Membrane Systems Limited offer a 30-year Product Guarantee on Type C membranes, seals and fixings when a Delta Waterproofing System has been installed by a Delta Registered Installer. A list of experienced Delta Registered Installers is available from Delta's offices.

Safety

Always follow the instructions provided in the material safety data sheet and take the precaution described there. Wear appropriate Protective Personal Equipment (PPE) when applying and using the material. Observe all governmental, state, and local safety regulations when processing the material.

Other Information

All data and information contained in these Product/Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed, or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.

Installations

Please refer to Delta's Installation Guides. Installation Guides can be found at www.deltamembranes.com/technical/delta-installation-guides/. We have a number of "How to" subject related video guides available on your Youtube Channel and Website. Please visit www.deltamembranes.com/technical-categories/the-video-suite

