



Description

Delta Glass Perinsul HL is an extremely high-density speciality product used to eliminate structural thermal bridging. Delta Glass Perinsul HL's upper side (Green Side) and lower surface of insulation are bitumen coated and laminated with glass reinforced fleece composite, compatible with mortar. Delta Glass Perinsul acts as a thermal break at junction details and other thermal bridges, maintaining continuity of insulation. Delta Glass Perinsul has a high load-bearing capacity, are dimensionally stable, and contribute to damp proofing measures due to being completely watertight.

Features

- Manufactured from specially graded recycled glass and natural raw materials
- Totally inorganic insulation
- Will retain its low thermal conductivity
- Resists the passage of moisture and vapour
- Does not shrink or degrade over time
- Capable of bearing the structural loads of a three-storey building
- Tested in accordance with Eurocode 6 specifically to bear loads imposed by structural masonry

Specification

- F10/39 Thin joint autoclaved aerated concrete (AAC) common blockwork
- F10/36 Concrete common blockwork
- F10/33 Clay common brickwork
- F10/18 Concrete facing blockwork
- F10/5 Facing brickwork
- Pr_20_g3_33_12 Cellular glass thermal blocks

Product Details

DMS Special Order

Fields of Application

- Green roofs
- Floor-wall base element to eliminate structural thermal bridging and rising damp
- Parapet walls

Storage

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

Associated Products

- Delta High Performance DPC



Technical Data

1. Product Characteristics Conforming to EN 13167		2. Additional Product Characteristics	
Density (± 15%) (EN 1602)	200kg/m ³	Thermal Diffusivity at 0°C	3.5 x 10 ⁻⁷ m ² /sec
Thickness (EN 823) ± 2mm	65, 100, 140 mm	Compressive Strength CS-mean	f ^b = 2.9 MPa ± 25%
Length (EN 822) ± 2mm	450mm	per unit capped with mortar (EN 772-1) ¹⁾	
Width (EN 822) ± 2mm	From 90 to 365 mm	Compressive Strength of masonry F _k ¹⁾	KZ: Limestone f _k ≥ 1.80 MPa P: Full Ceramic Stone f _k ≥ 1.60 MPa SB: Ceramic Fast Block f _k ≥ 1.50 MPa
Thermal Conductivity (EN ISO 10456)	λD ≤ 0.058 W/(m K)	Flexural Modulus of Elasticity	E = 1500 MN/m ²
Reaction to Fire (EN 13501-1)	Euroclass E (Core Material Euroclass A1)		
Point Load (EN 12430)	PL ≤ 1.0mm		
Compressive Strength (EN 826 annexe A)	CS ≥ 2.75 MPa		

¹⁾ Tested in conformity with EN 1996-1-1 (Eurocode 6 'Masonry') and some test specimen in conformity with EN-1052-1 in MPa or N/mm². Also the ETA 013/0163 (European Technical Approval) is currently under revision to become an ETA-European Technical Assessment according the CPR latest procedures.

Packaging			
Thickness x Length (mm)	65 x 450mm		
Width (mm)	100	140	215
Units	25	17	12
Linear Running Metre (m)	11.25	7.65	5.40

Packaging			
Thickness x Length (mm)	100 x 450mm		
Width (mm)	100	140	215
Units	15	10	7
Linear Running Metre (m)	6.75	4.50	3.15

Packaging			
Thickness x Length (mm)	140 x 450mm		
Width (mm)	140	215	
Units	6	5	
Linear Running Metre (m)	2.70	2.25	

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.

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

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.

