

## Flowchem VE Honeycomb C

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### Product description

Flowchem VE Honeycomb C is an extruded polypropylene honeycomb designed as a core for structural sandwich panels (8 mm hexagonal mesh). Open faces covered with a flexible non-woven polyester fabric and a plastic film on one side and conductive version on the opposite side (black in colour).

### Features and Key Benefits

- Lightweight
- Energy and sound absorbent
- High compression and shear strength
- High HDT, around 160°C

## Product Information

### Applications

Flowchem VE Honeycomb C is used in conjunction with the Flowchem VE GL vinyl ester resin lining system.

Suitable for:

- new construction and renovation.
- bridges cracks and movement joints.
- provides sound platform for Flowchem VE GL.
- tolerant of damp or wet conditions.

## Technical Information

### Technical Characteristics

Density	~ 80 kg/m <sup>3</sup>
Compressive strength, at break at 20°C (NFT 56101)	~ 1.3 MPa
Compressive Modulus at 20°C (NFT 56101)	~ 15 MPa
Ultimate perpendicular tensile strength (NFT 56130)	~ 0.5 MPa
Shear strength (NFT 56118)	~ 0.5 MPa
Shear Modulus (NFT 56118)	~ 8.0 MPa

### Rigidity in bending

Rigidity depends on the facings of the sandwich panel. The facings must be very tightly bonded to the core. The mechanical behaviour of the panel is due to this bonding.

### Heat insulation

In 20 mm, R ~ 0.3m<sup>2</sup> °C / W (soit  $\lambda$  ~ 0.067 W /m°C)

In 100 mm, R ~ 0.6m<sup>2</sup> °C / W (soit  $\lambda$  ~ 0.14 W /m°C)

For more insulation, it is possible to get foam in the honeycomb.

### Fire reactions

Burns.

Possibility of M1 classification on the sandwich panel depending on the faces of the panel.

### Chemical Resistance

Inert material.

### U.V. resistance

Prolonged UV exposure will affect the quality when exposed without a Lining system applied to it.

Possibility of reinforced grades.

### Packaging

Size of panels : 2500 X 1200 mm

Standard thickness : 10 mm.



## Storage

Flowchem VE Honeycomb C should be stored in the original packaging and protected from impact damage.

Protect from sunlight, weather, and moisture / contamination.

It is recommended that glass fibre be kept at a temperature not exceeding 25°C and a relative humidity of 65% ± 10%.

Pallets should not be stacked on top of each other if damage to the board is to be avoided.

A First-In-First-Out (FIFO) stock control system is recommended to minimize the influence of storage conditions.

## Technical Service

Contact Tremco CPG “Country”

## Guarantee

Tremco CPG “Country” warrants all goods to be free from defects and will replace materials proven to be defective but makes no warranty as to appearance of colour. The information and recommendations herein are believed by Tremco CPG “Country” to be accurate and reliable.