

Structherm Structural Panel Datasheet

Panel Reference: P-GPL

STANDARD SIZE

2400mm long x 1200mm wide x 125mm thick,
Tolerances for wire cage-overall length +5/-10mm, width +1/-2mm, squareness – Measurement across corners to be within 15mm. (Other sizes possible, subject to quantities and lead-in periods, up to maximum of 3600mm long at 75mm, 100mm, 125mm or 150mm thick)

INSULATION WITH WIRE SPACE FRAME CAGE

Enhanced Grey Expanded Polystyrene EPS70E (FRA Grade) to EN13163.
Density 15kg/m³ plus minus 15%.
Thermal Conductivity of Insulation: 0.032 W/m²K

WIRE CAGE

Electro-galvanized steel, cold drawn wire to the following specification;

2.00mm, 2.25mm & 3.00mm nominal diameter.
Specification – ASTM A82-79.
Electro-plated galvanized coating minimum 20 – 30gm².

The wire is formed into space frame panels with warren trusses at 100mm vertically and horizontally connecting wires at 50mm centres.
Wires are welded where each vertical wire crosses a horizontal wire. There may be a maximum of 3% missed welds per side per standard panel length or, not more than 50% per cross wire before the panel is deemed unfit for purpose. Where this occurs, the contractor is to inform Structherm accordingly.

WEIGHT

16kg per standard size panel = 6.7 kg/m or 5.6kg/m³.

PACKAGING

Shrink-wrapped in stacks of 9, with cardboard edge protectors. Strips of insulation as feet for forklift loading

DELIVERY

On 45' long curtain sided vehicles unless requested otherwise or due to availability.
180 standard size panels to a full load. Accessories may be delivered with panels.

OFFLOADING

Panels should be off loaded in stacks by forklift.
Maximum lifting as per general health & safety/manual handling requirements.
It is recommended that 2 operatives handle panels over 25kg or of larger size. Care should be taken when off loading and distributing panels to avoid damage to panels, particularly wires, where weld points can be disturbed.

CUTTING

Panels can be cut using angle grinder with steel blade through wire and insulation, or alternatively with tin snips for wire and hand saw for insulation.
Ensure appropriate PPE is worn during this process

STORAGE

Panels must be stored on a level firm surface, ensuring they do not come into direct contact with the ground externally. If stored outside, ensure adequate protection (i.e heavy tarpaulins) is provided from the weather. Protective sheets and panels should be tied down suitably to prevent wind uplift

Q.A

Structherm operate a Quality Assurance system to BS EN ISO9001:2015 to ensure panel manufacture, packaging and delivery is carried out to the required standard. If you feel panels are not the required standard for installation, please contact Structherm with the relevant details and a customer complaint will be processed.

COSHH

HAZARDS:

Avoid unnecessary handling of unwrapped product.

When handling the product, there is a risk of laceration of the skin. Injury including skin laceration and eye injury may occur when breaking open the packaging, off-loading, distribution, cutting and fixing of panels.

There is a danger of heat transfer, sparks and loose material when cutting panel wires, as well as dust and particles of insulation.

Preferably use an angle grinder for cutting through the wire and pad saw for cutting the insulation. Ensure adequate ventilation.

For the Safety Data Sheet information specific to EPS, see safety datasheet I-HS009.

PPE

Safety gloves with Abrasion Resistance rating of at least 3 should be worn when handling panels to prevent cuts or lacerations.

Safety boots with steel toecaps should be worn to protect feet in the event of a panel falling onto them.

Safety glasses should be worn when cutting panels to size.

RELEVANT REFERENCES

HSE Publications:

Personal protective equipment at work
<https://www.hse.gov.uk/pubns/priced/l25.pdf>

Manual Handling at Work
<https://www.hse.gov.uk/pubns/indg143.htm>

All information and references in this data sheet are accurate as at 02.08.2021. Users/Customers should ensure that there have been no alterations of further data sheets since that date.