PHENOLIC FOAMS IN FACTORY-ENGINEERED COMPOSITE PANELS

General Description

Factory-engineered composite panels with a structural phenolic foam core are manufactured for a range of applications including food processing factories, clean rooms, cold stores and hospitals.

The manufacturing process consists of a heavy density phenolic foam being dispensed between two skins, (typically steel or aluminium). The curing process results in a good bond between the foam and skin. Other types of factory engineered composite panels are manufactured using cut block foam, which is then adhesively bonded to an appropriate substrate.

The advantage of phenolic foam in this application area is that it is possible to obtain a one hour integrity and one hour insulation performance in BS 476 Part 22 and no other cellular plastic can achieve this level of insulation performance.

Advantages

- Factory manufactured under accurately controlled conditions to give a high quality product
- Phenolic foam has excellent fire performance and the composite panel is capable of achieving a one hour integrity and one hour insulation fire performance according to BS 476 Part 22
- The product has an integral vapour barrier with no voids and risks of interstitial condensation
- Phenolic foam has excellent long term thermal performance
- Non-fibrous
- Range of sizes and colours available

Availability

Ceiling panels are typically available in 100mm and 125mm thick with a panel width of 1m with length up to 3.6m.

Wall panels are available in 100mm to 175mm thickness up to a maximum length of 6.3m.

European Phenolic Foam Association
Association House, 235 Ash Road, Aldershot, Hampshire GU12 4DD, UK
Tel: +44 (0) 1252 336318 Fax: +44 (0) 1252 333901
info@epfa.org.uk