

Technical Datasheet

Floorshield EPS Insulated Board

Floorshield products are light and easy-to-handle and can be installed in ground-bearing or suspended concrete ground floors in new or existing dwellings or buildings of similar occupancy.

Floorshield is suitable for use on floors which have a cement based floor screed, wood based or concrete slab overlay. The insulation can be placed above or below the ground bearing slab; above a suspended concrete beam and block floor and below under floor heating systems.

Sustainability

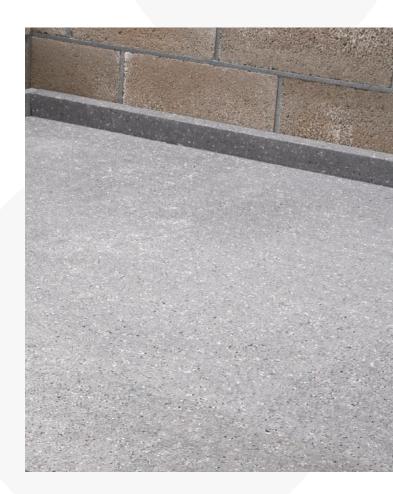
Springvale advocate responsibility to the environment as part of their Environmental policies and Environmental Managements System to BS EN ISO 14001 and as members of the British Plastics Federation (BPF), participates in the recycling post-construction EPS scheme.

Expanded Polystyrene (EPS)

Expanded polystyrene (EPS) is an excellent choice for use as insulation and other applications, consisting of 98% air means only 2% of any product is polystyrene material.

With its outstanding thermal insulation qualities EPS is a first choice material for numerous construction applications. Using EPS can reduce CO₂ emissions by up to 50%, offsetting its small carbon footprint and giving maximum return for minimal resource and can also make a significant contribution to reducing fossil fuel use for heating and cooling of buildings which in turn, helps reduce SO₂ and SO₃ emissions, a major cause of acid rain.

Using less than 0.1% of global oil consumption to manufacture EPS, it can save up to 200 times its own resource in thermal energy saving, bringing considerable energy and resource-saving benefits.



The amount of carbon monoxide and particulates given off by EPS during combustion is a small fraction of that emitted by wood or cardboard.

The manufacture of EPS is safe for the environment as only steam is used during the manufacture process. There is no waste in the process as all off-cuts are re-cycled back into the production process.

EPS uses Pentane as its blowing agent and is HFC, CFC and HCFC free. Pentane has a low Global Warming Potential (GWP) of less than five and the EU does not register pentane as a substance hazardous to human health or the environment.

The lightweight nature of EPS helps to minimise environmental impacts and costs associated with the movement of heavier alternative materials.

The inert and non-toxic nature of EPS provides stability in landfill because it does not biodegrade and leach chemicals into the water system or gases into air that could contribute to global warming.

Life-cycle analyses demonstrate that EPS has exceptional qualities as a construction material. It has a Zero Ozone Depletion Potential (ODP) and a low Global Warming Potential (GWP) and achieves the highest possible A-Plus summary rating in the BRE Global Green Guide to Specification.



Highly Durable

A durable, inert, non-toxic, rot proof and 100% recyclable product, the performance of EPS is expected to last at least the life time of the building in which it is used.

Excellent Thermal Performance

Platinum Floorshield at 300mm thick can achieve U Values as low as 0.08 W/m2K depending on the perimeter and area layout of the floor.

Contact our Technical department for further information.

Email - technical@springvale.com

Freedom of Design

For use in ground-bearing or suspended concrete ground floors; available in white or Platinum EPS at varying thicknesses to achieve required U Value.



Technical Data

Grade (BS EN 13163)

Thermal Conductivity

Compressive Strength At 10% deformation (kPa)

Board Size (mm)

Thickness (mm)

Floorshield					Platinum Floorshield		
EPS70	EPS100	EPS150	EPS200	EPS300	EPS70	EPS100	EPS150
0.038	0.035	0.034	0.033	0.033	0.030	0.030	0.030
70	100	150	200	300	70	100	150

1200 x 600mm or 2400 x 1200mm

From 20mm upwards designed to achieve the U Value required

Certification

Springvale Floorshield and Platinum Floorshield insulation has a third party BBA accreditation certificate 91/2568 product sheet and is manufactured to the requirements of BS EN 13163, under an ISO 9001 certified quality management system

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The products are designed to be installed by a general competent builder, or a contractor, experienced with these types of products, in accordance with the BBA certificate.



Floorshield or Platinum Floorshield should not come in direct contact with hot water pipes and electrical cables within the insulation should be enclosed in suitable conduit e.g. rigid PVC.

Handling & Storage

The boards must be stored fully supported and flat on a firm, level, dry base, and protected from prolonged exposure to sunlight, either under cover or with opaque, light-coloured polythene. Damaged boards must be discarded. The products must not be exposed to open flame or other ignition sources. Care must be taken to avoid contact with solvents and materials containing organic components.

Want to know more?

Contact Technical or Sales for more information.

Phone - 01457 863 211 or Email - technical@springvale.com

