

# Don Insuboard EPS

Expanded polystyrene insulation board



## DESCRIPTION

Don Insuboard EPS is an expanded, closed cell polystyrene board designed to provide high thermal insulation with long service life.

Don Insuboard EPS has a flexible structure that absorbs the force or pressure, it provides minimum water absorption with high mechanical properties when it used at the correct thickness and density, it repels water ,prevents humidity and bacterial growth.

Don Insuboard EPS is available in different density grade.

## APPLICATIONS

- » Don Insuboard EPS can be used in External Thermal Insulation Composite System (ETICS) such as [Don ETICS GP] system from DCP.
- » Internal and external walls, roofs, and floors insulation.
- » Filling Purpose.

## ADVANTAGES

- » Low thermal conductivity, high thermal insulation.
- » Closed cell structure.
- » Available in different density grades.
- » High compressive strength and dimensional stability.
- » Prevents humidity and bacterial growth .
- » Simple to cut and shape.
- » Light weight.
- » Flexible structure that absorbs the force or pressure -not fragile-
- » Economic, low labor cost.

## METHOD OF USE

### SURFACE PREPARATION

The substrate should be dry, clean, sound and free from contaminations. Remove any loose materials or projections. Damaged substrates should be repaired using a suitable repairing item from DCP.

## APPLICATION

Don Insuboard EPS can easily be cut, handled and installed. Align the boards next to each other in a compacted manner minimizing any voids to increase the thermal efficiency of the system. Do not leave any part of the substrate not covered.

For use with (Don ETICS GP) system from DCP, lay the insulation panels in horizontal rows over the adhesive, beginning at the bottom and working upwards. Arrange them in a staggered, brickwork pattern, ensuring that the edges of the boards are butted closely together to create a flush, seamless bond.

When securing the insulation panels with mechanical fixings, allow the adhesive to fully harden before proceeding.

## PACKAGING

Don Insuboard EPS is available in 25 mm to 200 mm thicknesses.

## STORAGE

Don Insuboard EPS should be stored in a cool, clean, dry, flat area and kept away from rain, sunlight, open flames and other sources of ignition.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

## HEALTH AND SAFETY

No major health hazard is associated with Don Insuboard EPS, nonetheless it is recommended to wear suitable protective clothing, gloves and face protection.

For further information refer to the Material Safety Data Sheet.

## TECHNICAL PROPERTIES:

Colour:	White					
Voids:	Free of voids					
Coefficient of thermal expansion:	97 x 10 <sup>-5</sup>					
Density:	12 kg/m <sup>3</sup>	15 kg/m <sup>3</sup>	18 kg/m <sup>3</sup>	20 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	28 kg/m <sup>3</sup>
Compressive strength: (at 10% deflection)	60 ± 10 kPa	80 ± 10 kPa	100 ± 10 kPa	120 ± 10 kPa	170 ± 10 kPa	190 ± 10 kPa
Bending strength:	165 ± 10 kPa	220 ± 10 kPa	265 ± 10 kPa	300 ± 10 kPa	335 ± 10 kPa	370 ± 10 kPa
Tensile strength:	135 ± 10 kPa	170 ± 10 kPa	225 ± 10 kPa	225 ± 10 kPa	285 ± 10 kPa	325 ± 10 kPa
Water vapour permeability:	5.0 perms	5.0 perms	4.3 perms	4.0 perms	3.8 perms	
Water absorption: (after 28 days)	2.0%	2.0%	1.8%	1.7%	1.6%	1.5%
Thermal conductivity:	0.036 W/m.°K	0.036 W/m.°K	0.036 W/m.°K	0.036 W/m.°K	0.036 W/m.°K	0.035 W/m.°K
Thermal resistance (min):	1.40 K.in <sup>2</sup> /W	1.40 K.in <sup>2</sup> /W	1.40 K.in <sup>2</sup> /W	1.50 K.in <sup>2</sup> /W	1.52 K.in <sup>2</sup> /W	1.55 K.in <sup>2</sup> /W
RSI per 50 mm:	7.85	7.95	7.95	8.50	8.60	8.80

*The information above is considered a guidance given to the best of our knowledge and based on controlled conditions.*

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- » Protective coatings.
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- » Tile adhesives and grouts.
- » Building products.
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### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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