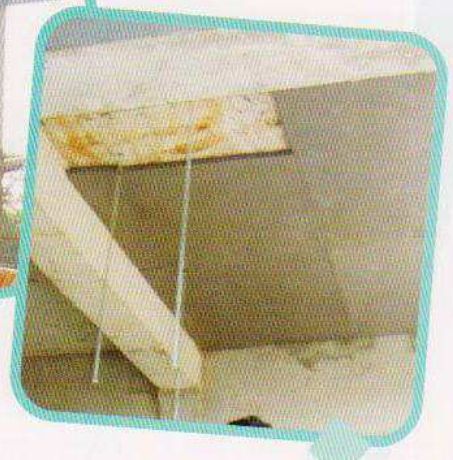




Solution for Underdeck insulation...



Supreme Always Value Efficient

INSUshield[®]

[Formerly SIL-XL-C]

Class 'O' in fire propagation
Class 'I' in surface spread of flame
as per BS 476 Part 6 & Part 7

The shift towards PEBs

- PEB buildings is one of the fast growing segment in each field of industrial activity
- PEB structures offer low cost faster erection and are approx 30% lighter and cost effective in comparison to traditional buildings
- These could be created with unique architectural designs, which are seismic resistant, with lighter foundation requirement
- These products offer faster delivery and short erection time, thus providing savings in time and money. PEB sheds are offered with thermal insulation as an integral part with the roofing system.

INSUshield with aluminium foil facing on both sides, is an excellent radiant and effective vapour barrier. The upper surface of the foil blocks infrared energy transfer from the roof, which gathers most of the solar heat. This results in improved working environment within the premises. Unlike mass / fibrous insulation, which absorb the heat and later release the same into the premises.

In cold weather, the reverse would happen, i.e. the inner aluminium foil surface stops the heat within the premises from escaping, hence stabilizing indoor conditions. INSUshield application under the roofing sheet, serves as a secondary water proof barrier, allowing any accidental water leakage / vapour turning to water droplets to flow along the slope to the gutter at the eave end.

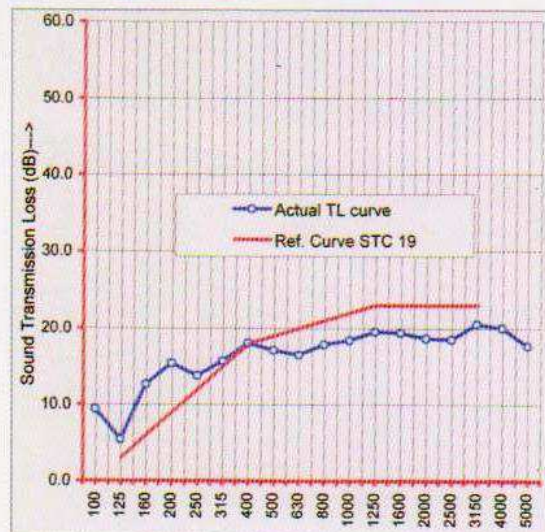
Technical Specifications

Property	INSUshield Typical Values			Test Method
Operating temperature	-40° C to +115° C			
Thermal conductivity (W/m° K)	Mean Temperature (°C)	W/m°K	K Cal/hr m°C	
	0° C	0.0318	0.0273	
	23° C	0.0328	0.0282	
	46° C	0.0383	0.0329	
Water absorption	<2 %			ASTM D 1056-98
Water vapour resistance factor (μ)	Plain	> 11000		
	Aluminium foil face one side	> 14000		
Oxygen index, %	29 - 34			ASTM D 2863
Fire characteristic	a) Surface spread of flame (For both plain and foil faced material)	Class 1		BS 476 Part 7
	b) Fire propagation (with specialized laminated aluminium foil only)	Class 0		BS 476 Part 6

INSUshield installation over purlins simultaneously with metal roofing

- Fix GI wire mesh 24G x ¼ inch over the purlins by self drilling self tapping screws
- Unroll both sides aluminium foil laminated INSUshield roll, along the slope from eave to the ridge i.e. perpendicular to the purlins. This is done to ensure the simultaneous fitting with the roofing sheet
- Align INSUshield roll properly against the left end keeping the 100mm overlap of the INSUshield hanging beyond the left most rafters
- Fix INSUshield to the purlins, eave end and ridge end, using self-drilling self-tapping screws at 3 equidistant places
- Place the next roll of INSUshield alongside the earlier roll side by side and then tape the joints, using 75mm wide aluminium foil tape
- Place all subsequent rolls of INSUshield parallel to the first roll. All joints of adjacent rolls to be taped as mentioned above
- Fix the spacers over the insulation at recommended by the PEB supplier
- Anchor the metal sheet to the spacers by self-drilling self-tapping screws. Use mastic tape to seal the joints of metal sheet at interlocking area.
- Now fix the end trim on the left side
- Repeat all the steps till the other end of the roof. Fix the ridge panel at the top and the side trim at both the eaves

Sound Insulation Characteristics
INSUshield – 12 mm with G.I. Sheet



Connect with us

Corporate Office Mumbai: 1161, Solitaire Corporate Park, Guru Hargovindji Marg, Andheri – Ghatkopar Link Road, Chakala, Andheri (E), Mumbai – 400093 Tel: (+91-22) 40430000 / 67710000 / 30840000 Fax: (+91-22) 40430099 / 67710099 / 30840000 **Ahmedabad:** Tel: (+91-79) 27681361 / 27680043 / 27680903 Fax: (+91-79) 27680064 **Bengaluru:** Tel: (+91-80) 22215475 / 22104698 **Chennai:** Tel: (+91-44) 43851500 / 39811176 / 39811174 Fax: (+91-44) 43850498 **Delhi:** Tel: (+91-11) 46590000 / 26413728 / 26217454 Fax: (+91-11) 46561393 **Hyderabad:** Tel: (+91-40) 23221140 Fax: (+91-40) 23221120 **Kolkata:** Tel: (+91-33) 24858837 / 24858839 / 24858833 Fax: (+91-33) 24858838 **Pune:** Tel: (+91-20) 25890538 **E-mail:** insulation@supreme.co.in **Website:** www.supreme.co.in

THE ABOVE MENTIONED SPECIFICATIONS ARE FOR REFERENCE PURPOSES ONLY.

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