

Roof Insulation - Cool Home



PERLCON GLAZED ISO BALLS (GIB

Conventional Roof Insulation with high reflective material like china mosaic / U.V. Reflective Coatings / any insulation material based on Solar Reflective Index (SRI) etc. is not an effective method of insulation as the Solar Reflection gets reduced over a period of time due to accumulation of dust / dirty patches etc.



PERLCON GLAZED ISOBALL (GIB):



GIB is a light weight material produced by special process. The material is in the form of glass like bubbles. These are closed cell particles with high mechanical strength, very low water absorption & very high fire resistance characteristic. GIB being chemically inert has excellent heat & acoustic insulation characteristics & once mixed with cement, very high thermal resistance value can be achieved.

GIB is widely used in Building Construction Industry as a light weight aggregate, when combined with Portland cement and water it produces an ultra light weight concrete. GIB is a very unique insulating material especially when studied in comparison with other conventional insulating materials having R Value 2.78.

| Pericon GIB : Physical Properties | |
|-----------------------------------|-----------------|
| Colour | White |
| Refractive Index | 1.5 |
| Free Moisture, Max. | 0.5% |
| РН | 6.5-7.5 |
| Specific Gravity | 0.32 |
| Bulk Density | 100-250 kg/m3 |
| Grain Size | 0 - 2 mm |
| Softening Point | 871-1093°C |
| Fusion Point | 1260-1343°C |
| Specific Heat | 837 J/ kg k |
| Thermal Conductivity at (24°C) | 0.04 -0.06 W/mk |

Popular applications of GIB

- Insulating roof decks
- Lightweight floor fills / screeds
- Insulating structural roof decks
- **Curtain wall systems**

- Lightweight pre-cast panels for partitions
- Lightweight insulating blocks
- Roof / Ceiling tiles / Insulation tiles
- Hollow / Cavity walls

















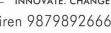


















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