

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.

Perlcon GIB : Physical Properties

Colour	White
Refractive Index	1.5
Free Moisture, Max.	0.5%
pH	6.5-7.5
Specific Gravity	0.32
Bulk Density	100-250 kg/m ³
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



PERLCON
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For inquiries call: Nimish 9925025109 & Hiren 9879892666

Manufactured by: Perlcon Premix Private Limited

Registered office: 302 Akshay, 53 Shramali Society, Navrangpura, Ahmedabad 380 009, Gujarat, India.
Ph: +91 79 26441404, 26441325, Fax: + 91 79 26569103 www.perlcon.com info@perlcon.com

Dealer/distributor Enquiries Solicited