



EIFS INSULATION

A SMART OPTION TO
COMFORT & SAVINGS.



WeatherTuff[®]
Building Surface Solutions

ISO 9001 : 2015

WEATHERTUFF INSULATION (WI) BOARD
EIFS-EXTERNAL INSULATION FINISHING SYSTEM

www.weathertuff.com

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There are three ways heat from sun reaches to the earth and spread in interior of the building, They are as follows...

RADIATION :

Solar heat transfer from sun to earth in the form of waves and all sun exposed surfaces are accumulating heat on the external surface. This heat is in form of infrared - Rays (IR Rays), which are of low frequency and Ultra Violet Rays (UV Rays), which are of high frequency.

CONDUCTION :

The heat gathered on the external surface of building is transmitted through rooftop and sun exposed side walls, of exterior to inner side of the building. Material used in roof and walls, determines how fast interior will be heated. Heat Conductivity is measured by 'K' value of material. Lower the 'K' value means longer the time heat takes to pass through it. Refrigerators have same low heat conductive material in it's frame and walls, which keeps cool inside at a very insignificant energy consumption.

CONVECTION :

Conducted heat reaches to inner wall of the building, it heats up inside by convection and spreads in the room.





MAKE YOUR HOME & OFFICE UPTO 15° C COOLER

WHAT IS EIFS ?

EIFS stands for External Insulation & finishing System. It is one of the most basic and widely used applications for insulation in residential and commercial construction. It helps to create an envelope around the structure, covering wall cavities and studs to increase the thermal resistance against heat transfer and Moisture protection.

With its versatility, ease of installation and consistent performance benefits, Poly Urethane foam in external insulation has become an industrial standard. Different densities help to provide the required K-value to meet local building energy codes. EIFS can be used in renovation as well as new construction because of its compatibility with wood, steel framing and masonry. Manufacturers can provide the builder with insulation of varying densities, which translates into a structure meeting or exceeding energy code standards without any added expense.



EIFS ADVANTAGES

- EIFS is the best performing cladding in relation to thermal and moisture control when compared to brick, stucco, and cementitious fibreboard siding.
- In addition EIFS is in full compliance with modern building codes which emphasize on energy conservation through the use of CI (continuous insulation).
- All components are built into today's EIFS products to provide maximum energy savings, and reduced environmental impact over the life of the structure. Along with these functional advantages come virtually unlimited colour, texture and decorative choices to enhance curb appeal and enjoyment of almost any home or structure from exteriors.
- EIFS can reduce heat infiltration by as much as 70% compared to standard brick or wood construction. Since walls are one of the greatest areas of heat and air conditioning loss, improvement in the wall insulation is mandatory in terms of energy conservation.



20 MILLION HOMES & OFFICES
IN INDIA ARE SUFFERING FROM
HEAT AROUND THE YEAR.

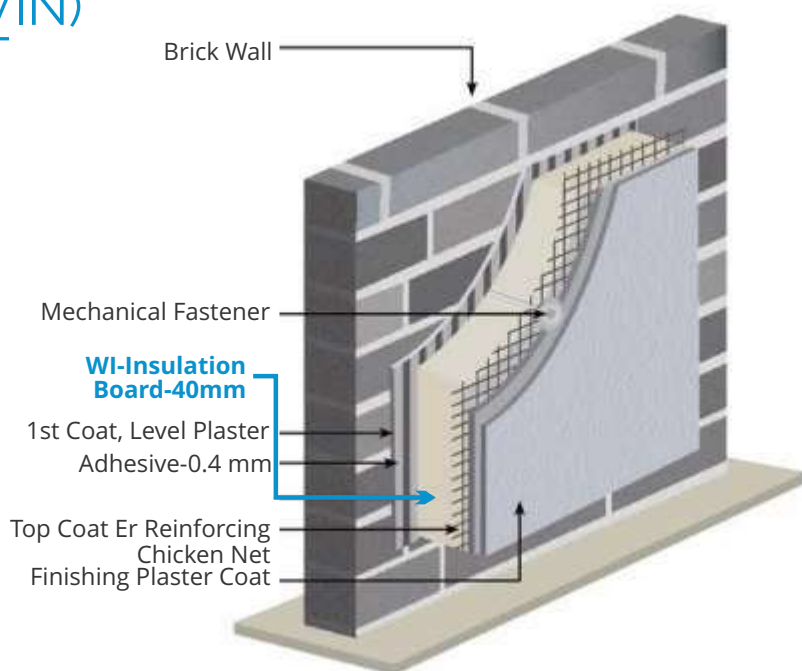
RENDERING OUTSTANDING PROTECTION AND LONGER LIFE TO CONSTRUCTION.

ABOUT (WI-BOARD)

WeatherTuff Insulation Board (WI Board) is a low thermal conductor. WI-Board is the main part of EIFS system. EIFS is a continuous insulation provider on the external surface of the building. It is known as non-load bearing exterior wall cladding system with density of just about 40 kg/m³. It is fixed on the outer surface by specially developed adhesive and mechanical fasteners. On the top of WeatherTuff Insulation Board (Higher Density PU Foam Sheet) regular plaster and other finishing may be suggested by architects, and can be done without adding any extra dead load, on wall & structure of buildings.

COMPARISON OF K (KELVIN) VALUE FOR \ DIFFERENT

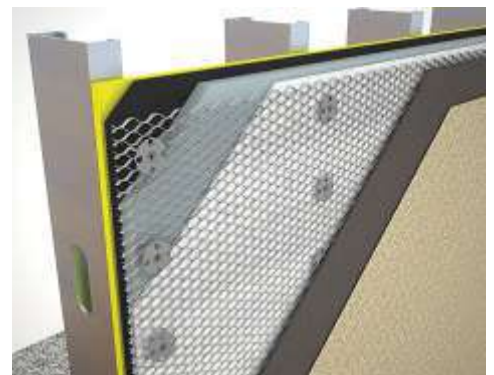
Materials	K Value (W/(m k)
Iron	80
Cement Portland	0.29
Cement Mortar	1.73
Concrete Stone	1.7
Rock Solid	2-7
Soil	1.4
Sand Dry	0.15 to 0.25
Brick Work - construction	0.6 to 1.0
Balsa Wood	0.048
Plywood	0.13
Fiber Insulating Board	0.048
Water	0.58
WeatherTuff-WI Insulation board (High Density PU Foam Sheet)	0.023





APPLICATION OF EIFS IN 4 SIMPLE STEPS:

1. WeatherTuff Insulation (WI-Board) glued to the structure's substrate and mechanically fastened with wall or building structure.
2. A top coat and Chicken Reinforcing mesh is installed over the WI Board, will give perfect substrate for smooth plaster on top.
3. A finishing plaster coat may be applied over the completed system as per your design and requirement.
4. The WI Board can also be cut to provide architectural detail. The joints between the panels are bridged with the fillers when completed. This gives an unbroken finish. Top of finished surface, any architectural finishing can be provided for the great look and very comfortable & cozy inside.



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RESISTANCE TO HEAT, WATER & CONSTRUCTION RELATED PROBLEMS



The most significant way of protecting heat entering in to inner space is by installation of low thermal conductive material on the external surface which is called EIFS (External Insulation Finishing System). WeatherTuff introduces the EIFS system for your building to protect it from solar heat in summer & cold waves of winter. By application of EIFS the quantum of heat entering from external surface to internal surface greatly reduces due to its very very low thermal conductivity. Similar to this, for further advantage one may adopt internal walls be insulated with the same system in the rooms on inner walls. As 80% of A/C energy is used on cooling walls made of bricks and masonry. Inner Emulation will stop energy loss through the walls.”





- What's more..... EIFS reduces the "K-value" of a home or building . (K-value is a measurement of the resistance to heat flow; the lower the K-value, the better the material's insulating value as per table)
- On all EIFS system, exterior painting can be applied as per your choice.
- It is assumed that energy saved on AC with the use of this system is more than 60%. Refrigerator are the best example to explain this system.
- Due to the energy efficiency of EIFS, it may be possible to specify lower- capacity heating and air conditioning equipment without sacrificing anything in terms of interior comfort.
- Because of the low thermal conductivity of the WI Board, Energy spent by Air Conditioners & Heaters has been greatly reduced.





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24 hours



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**WEATHERTUFF INSULATION (WI) BOARD
EIFS-EXTERNAL INSULATION FINISHING SYSTEM**

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