

THINK  
GREEN



# **ISOBOARD** *green*<sup>®</sup>

*Environmental Friendly*

- Zero Ozone Depleting Potential ("0" ODP)
- Low Global Warming Potential (GWP<5)
- CFC, HCFC & HFC Free

# ISOBOARD<sup>®</sup> green<sup>®</sup>

*Environmental Friendly*

**ISOBOARD green<sup>®</sup>** ISOFOAM's extruded polystyrene, closed cell foam panel with continuous skin face and back surfaces produced by continuous, fully automated extrusion process. This process technology makes the unique closed-cell structure of **ISOBOARD green<sup>®</sup>** extruded polystyrene insulation highly resistant to moisture, retaining its excellent R-value year after year.

Insulation is major cornerstone in the world of green building. More than one-third of energy consumed in buildings worldwide, accounting for about 15% of global gas emissions. In cities, buildings can account for up to 80% of CO2 emissions. The built environment is therefore a critical part of the climate change problem. Improving the energy efficiency of the buildings by using insulation is a priority for reducing both gas emissions and energy cost.

ISOFOAM, a leader in building materials and energy efficiency solutions, today has started manufacturing zero ozone-depleting Potential ("0" ODP) and low global warming potential (GWP<5)

**ISOBOARD green<sup>®</sup>** extruded polystyrene (XPS) rigid foam insulation. The new blowing agent technology meets the requirements of Green Buildings which requires the phase-out CFC, HCFC & HFC, an ozone-depleting compounds.

ISOFOAM's plant is the first facility in the Middle East to meet the requirements of green building and expands the company's XPS foam production capabilities by using new blowing agent.

**ISOBOARD green<sup>®</sup>** XPS products will meet the requirements of green building. ISOFOAM is committed to helping architects, builders, contractors & specifiers consistently to meet their demand.

**ISOBOARD green<sup>®</sup>** XPS are designed to provide exceptional thermal and moisture resistance and long-term energy efficiency. Benefits of the **ISOBOARD green<sup>®</sup>** includes:

- Constant thermal performance year after year.
- Virtually , impervious to moisture penetration, preventing loss of R-Value.
- Environmental friendly blowing agent.
- Recyclable & reusable
- **ISOBOARD green<sup>®</sup>** Zero Ozone Depleting Potential ("0" ODP)
- **ISOBOARD green<sup>®</sup>** Low Global Warming Potential (GWP<5) CFC, HCFC & HFC Free
- **ISOBOARD green<sup>®</sup>** XPS is complying with ASTM C-578 & BS 3837 part 2.
- **ISOBOARD green<sup>®</sup>** XPS is accredited and certified by DCL (Dubai Central Laboratory) Certificate No. CL05020002
- **ISOBOARD green<sup>®</sup>** is Certified by FIW München
- **ISOBOARD green<sup>®</sup>** XPS insulation is ideal for roofs, external walls, cavity wall system, under slab, cold storage, concrete floor, foundation, pre-cast concrete, parking decks, sandwich panel, floating pontoons and other high load-bearing application.

Now it is the time to take on this new green initiative. If everyone of us do something, as small as it may seem, and millions of us do it we can start to turn the tide. **ISOBOARD green<sup>®</sup>** supports world's initiative to get this planet back on its feet.

# THINK GREEN



## ISOBOARD *green*® LD/ND/MD/HD

### Extruded Polystyrene Rigid Foam Insulation

#### Product Data Sheet

#### Typical Physical Properties

#### ISOBOARD *green*® Product & Value

Property	Test Method	Unit	LD	ND	MD	HD
Density	DIN 53420	kg/m <sup>3</sup>	26-28	32-35	38-42	45-48
	ASTM D1622	lb/ft <sup>3</sup>	1.6-1.7	2-2.2	2.4-2.6	2.8-3.0
Thermal Conductivity "k" at 10°C (50°F)	DIN 52612					
	or DIN 52616	W/mk	0.029	0.028	0.026	0.026
Compressive Strength at 10% deflection (min)	ASTM C177	Btu in/sq. ft hr °F	0.21	0.20	0.18	0.18
	or ASTM C518					
Flextural Strength	DIN53421	KPA	210	300	500-700	700
	ASTM D1621	psi	30	45	70-100	100
Water absorption by submersion	ASTM C-203	Kg/cm <sup>2</sup>	3.45	4.14	5.17	6.9
		psi	50	60	75	100
Water vapour permeance	DIN 53428	% by volume	0.2	0.2	0.2	0.2
	28 days submersion on whole board					
Capilarity	ASTM D2842	% by volume	<1.00	<1.00	<1.00	<1.00
Linear Coefficient of thermal expansion & contraction		(±1% by vol. precision)				
Flame Spread	ASTM C355	Perm inch	0.5	0.4-0.6	0.4-0.6	0.4-0.6
Smoke Developed	-	-	NIL	NIL	NIL	NIL
Flammability	ASTM E-84					
	DIN 4102	Building Material Class	Class B1	Class B1	Class B1	Class B1
Classification Type	ASTM C578		IV	VI	VII	V

#### Size Availability:

Product	Thickness (mm)	Width x Length (mm)
ISOBOARD <i>green</i> ® LD	25,50,75,100	600 x 1250 - 600 x 2500
ISOBOARD <i>green</i> ® ND	25,50,75,100	600 x 1250
ISOBOARD <i>green</i> ® MD	25,50,75,100	600 x 1250
ISOBOARD <i>green</i> ® HD	25,50,75,100	600 x 1250

**Note:** Special thickness and board size can be produced on special basis.

ISOBOARD *green*® available in straight, tongue & groove & shiplap edge.

The panel is easy to saw, cut & score.

#### Description

ISOBOARD *green*® LD/ND/MD/HD extruded polystyrene rigid insulation foam panel is highly resistant to moisture, humidity, condensation & ground water.

ISOBOARD *green*® is an environmental friendly product fully recyclable & reusable.

ISOBOARD *green*® meet the requirements of green building by using environmental friendly blowing agent and meet the requirements of Montreal protocol.

ISOBOARD *green*® Zero Ozone Depleting Potential ("0" ODP)

ISOBOARD *green*® Low Global Warming Potential (GWP<5) CFC, HCFC & HFC Free.

ISOBOARD *green*® complies to the requirements of ASTM C-578

and BS 3837 : Part 2

#### Uses

ISOBOARD *green*® extruded polystyrene is ideal for roofs, external walls, cavity wall system, pre-cast concrete, under slab, cold storage, concrete floor, foundation, sandwich panel, parking decks, roadways, rail beds and other high load-bearing application.

#### Site Handling & Storage

ISOBOARD *green*® XPS should be stored in covered areas away from direct sunlight and ultra violet rays.

ISOBOARD *green*® panels once placed on the roof should not be left exposed, to avoid damage. It is recommended that insulation should be covered immediately with the final layer. e.g. paving slabs, screed etc.



## ISOFOAM ايسوفوم



ISOFOAM UAE:

**ISOFOAM ENGINEERING PRODUCTS L.L.C.**

P.O. BOX : 35220, Dubai

Tel +971 4 880 0777 Fax +971 4 880 0700

Mail: [info@isofoam.ae](mailto:info@isofoam.ae), Web: [www.isofoam.ae](http://www.isofoam.ae)

ISOFOAM KUWAIT :

**ISOFOAM INSULATING MATERIALS PLANT W.L.L.**

P.O. BOX : 23053, SAFAT, 13091, KUWAIT

Tel no: +965 -24763820/1/2/3 , +965 -24742835, Fax no: +965 -24763819

ISOFOAM INDIA:

**ISOFOAM INSULATING MATERIALS PLANT W.L.L.**

111-112 /112b, 1st floor, Vishal Tower, District Center  
JANAKPURI, NEW DELHI -110058, INDIA

Tel no: +91-011-45562763, Fax no:+91-011-45562464

