

PRODUCT CATALOGUE



PROFLEX INDONESIA

POLYOLEFIN FOAM THERMAL INSULATION

XLPE/IXPE

CFC free HCFC free
Zero Ozone Depletion Potential (ODP)



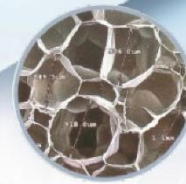
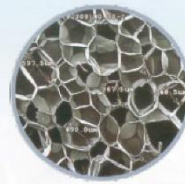
*Taking care
of energy and
Environment*

MADE IN INDONESIA



XLPE/IXPE

CROSSLINKED CLOSED CELL FOAM +FR



R & D

Proflex Insulation developed after continuous and understanding the needs of the changing demands of the new generation equipment solution.

Proflex is a chemically and physically cross-linked closed-cell polyolefin foam thermal insulation

Proflex XPE/IXPE both properties are same.
IXPE cross linked with physically irradiation.
IXPE has a very smooth surface and fine cell structure

What does cross-linked means?

A method of making the cell structure stronger-preventing the trapped gas bubbles from bursting. This means that Proflex has superior strength to other non cross-linked and Rubber material

How can Proflex Insulation Benefit the Environment

With today's increasing consumer awareness of protecting the environment. Proflex has been Engineered to provide high quality insulation, Proflex is an insulating material produced without the use of CFC, HCFC, with zero ozone depletion potential (ODP) which mean Environment friendly product.

Proflex Energy Saving, Money Saving Insulation

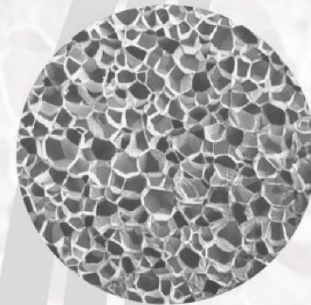
Energy is the single largest operating expenses for commercial building and factories each year

Did you know that about 44% of your total utility bill pays for heating and cooling your Home, Commercial Buildings and Factories

We offer Proflex specifically for the insulation requirements of various industries, with a sole purpose of improving the energy efficiency, and thereby helping in conserving energy.

Excellent fire-retardant

Proflex contains various flame blocking and smoking reducing elements and therefore smoke density is very low when a fire occurs. Proflex doesn't melt when it catches fire, not to cause spark it has self fire extinguishing material and cannot be the root cause of combustion



Duct insulation

XPE/IXPE

Proflex Duct Insulation

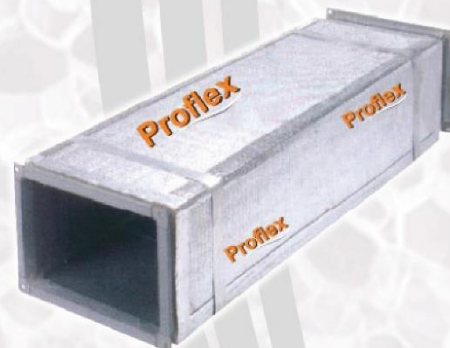
The sustainable benefits of using proflex insulation are numerous, including Proflex is chemically and physically cross-linked closed-cell polyolefin thermal insulation is a light weight with excellent thermal insulation properties, excellent compressive and condensation control, excellent durability and flexibility ,weather chemical resistant, Non hazardous, Non irritant, safe and odorless ,will not allow bacterial growth, Proflex is Fiber free, free of cadmium, lead stabilizers, tin organic substances and other heavy metals, Proflex is un affected by most acids, alkalis, alcohols, detergents and petrochemicals. Environment friendly and energy saving characteristics.

Easy and simple construction

The exceptional flexibility of Proflex is great help to the installer, Proflex is supplied in any thickness, any size of Rolls and sheets to minimize wastage installation time reduced further when supplied with aluminum foil and self adhesive which is more popular in duct insulation application. Proflex duct insulation material can be easily applied to the metal ducts through a process of pre-adhesion, Proflex doesn't emit dust or fiber particles so protective clothing not required during installation.

Applications

General duct work insulation for construction HVAC system (building/factories) it is also suitable for square and round duct construction



Product range Standard with Alum foil & self adhesive	Continuous sheet
Wall thickness mm	M/roll
3	100
4	100
5	100
6	100
9	60
12	20
13	20
15	20
19	15
25	15
32	10
50	2

Width 1.2, 1.06
Contact our sales department
for length cutting

Note: Installing insulation properly is important because gaps, voids, compressions, and moisture reduce the effectiveness of insulation and allow unconditioned air to enter your home



Pipe Insulation

XPE/XPE

Proflex Pipe Insulation

Proflex Sleeves can be produced chemically and physically cross-linked closed-cell polyolefin foam for all piping work except high steam line

Proflex manufacture in pre formed pipe section comprises two meter long section

Proflex insulation faced with factory applied reinforced aluminum foil as a vapor barrier jacket. Proflex pipe insulation available in full range of pipe diameter and used on mild steel, stainless steel, copper pipe, and plastic pipe work

Applications:

The following services shall be insulated:

Chilled water pipe work

Condensate pipe work

Hot water pipe work and Cold water pipe work

Drain pipe work and Refrigeration line and others.

Length: Production by order possible
pipe dia can be make up to 20"

Size Availability

Pipe ID	Foam Thick	Length
mm	mm	m
8-100	3-25	
125-600	3-50	only 1m

Dimension

Designation of mould (')		Polyvinyl Chloride pipe	Copper Pipe	Inside diameter of mould	Tolerance on Inside diameter of mould	Thickness	Tolerance on thickness	Length	Tolerance on length
Steel Pipe A	Steel Pipe B								
-	-	-	6.35	7	+3	5	In case of thickness of 5 and 7.5 +15 -1.0	2000	+50 0
-	-	-	9.52	10		7.5			
-	-	-	12.70	13		10			
-	-	-	15.88	16		15			
10	3/8	13	-	18		20			
-	-	-	19.05	20		5			
15	1.2	16	22.22	22		7.5			
-	-	20	25.40	26		10			
20	3/4	-	28.58	8		15			
-	-	25	31.75	32		20			
25	1	-	34.92	35	+4	25	In case of thickness of 10 and 15 +2.0 -1.5	2000	+50 0
-	-	30	38.10	38		30			
32	1 1/4	-	41.28	43		10			
40	1 1/2	40	-	49		50			
-	-	-	53-98	54		10			
50	2	50	-	61		15			
-	-	-	66-88	67		20			
65	2 1/2	65	-	77		25			
-	-	-	79-88	80		30			
80	3	75	-	90		+5			
-	-	-	104-78	105	40				
100	4	100	-	115	10				
125	5	125	-	140	15				
150	6	150	-	166	20				
-	-	-	-	-	25				
-	-	-	-	-	30				
-	-	-	-	-	35				
-	-	-	-	-	40				
-	-	-	-	-	50				
-	-	-	-	-	+6	50	In case of thickness of 20 or over. +3.0 -2.0	2000	+50 0
-	-	-	-	-		50			

Other construction Meterial



Proflex Acoustic Lagging

Noise pollution is an often overlooked environment problem, disturbance from un wanted sound can effect human health and performance, Noise radiating from piping and ductwork can be a serious problem in modern building construction. Turbulent flow piping noise can be caused by water or other liquids passing through elbows, vales or other transition pieces. Duct noise is caused by air flowing past obstructions or branches which results in vibration of the metal duct work this vibration then radiates noise into the building.

Proflex developed a most effective treatment method for the control of piping and duct breakout noise is to wrap the piping and ducting with proflex acoustic lagging.

Current building construction material cause piping and ducting work noise to be more of a concern today than in the past.

Application: Waste - Water and sewage pipes

Inside Diameter	: 50mm, 63mm, 75mm, 90mm, 110mm, 125mm, 150mm, 315mm,
Thikness	: 5mm, 9mm
Length	: Continuous

Proflex Lining - Open cell

Metal duct work often requires acoustic insulation to prevent air-borne noise from inside the duct Noise Emerges into the building through grills and other transition pieces

Proflex duct lining open cell design primarily to provide acoustic insulation to the duct system

Due to the excellent thermal and acoustic properties

Proflex can breakout noise transmission; also improve comfort, and thermal performance

Proflex tested according to ASTM C423 -09a (Standard test method for sound absorption and sound absorption coefficient by the Reverberation Room method) Frequency range was 100Hz to 5000Hz in 1/3 Octave bands.

Proflex Foam Density 33 kg /m²

Thickness: 8mm

(A-mounting according to ASTM E 795-05)

Absorption Coefficient 0.30 to the Frequency 500Hz and 0.67 to the Frequency 5000Hz

Noice Reduction Coefficient (NRC) 0.45

Application: Internal surfaces of the metal duct for air-conditioning or ventilation ductwork, under - floor and wall insulation



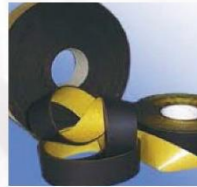
Accessories

Aluminium Tape 2"-3"



Foam tapes and gaskets

3mm x 12mm x10m
3mm x 20mm x 10m
3mm x 25mm x 10m
3mm x 50mm x 10m



Double side self adhesive tape

3mm x 12mm x10m
3mm x 20 mm x 10m
3mm x 50mm x 10m



Contact our sales department for length and Width cutting

Proflex Adhesive

Proflex Adhesive has been specially formulated for proflex products and guarantees a homogeneous and reliable joints its seams

Roof Insulation



Proflex roof insulation provides high performance thermal insulation and also can be used as a vapor barrier, Proflex roof insulation can help to improve indoor temperature and increase energy saving, the energy saving properties of insulation keeps building warm in winter and cold in summer.

Installation

It is fast to install and perform for the life of building without a requirement of maintenance

Step 1 Roll over purlin / roof and secure

Step 2 mount roof sheets on top of the insulation

Proflex Technical properties

Raw material	Polyolefin Resin
Cellular Structure	Cross-Linked Closed-Cell
Closed-Cell Content	90%
Density	30 to 50kg/m ³ (foam core only)
Thermal Conductivity	0.034W/mK@ a mean of 23°C ASTM C 518
Water Vapor Permeability	4.3 x 10 ⁻¹² g/Pa.m.s ASTM E96
VOC Content	Low
Fire Resistant	BS 476 part 6 & 7 class 0
Temperature Range	From - 80°C - + 120°C
Odour	Neutral
Color	Grey/Black
Vibration absorption	Excellent
Pollution/Toxic	Non
Spread of Flame Index	≤ 25 ASTM E84
Smoke Developed Index	≤ 50 ASTM E84
Anti-fungal	Strong
Noise Reduction Coefficient (NRC)	0.45 (8mm thickness) ASTM C423-09a
Tensile strength	90% Both direction
Shrinkage	Almost no shrinkage
Elongation	90%
Chemical resistant	Excellent
Resistant to permanent deformation	High resistant



Intertek Testing Service NA,INC
Elemendorf - USA



PSB Singapore



UL STANDARD



ASTM G 21-09
SGS Korea Co.Ltd



Qatar Civil Defence Approved

Stable Low Thermal conductivity

Proflex insulation has a very low thermal conductivity value 0.034 w/mk at mean temperature 23C° (ASTM C518)

Proflex is closed-cell foam. It will not absorb moisture or vapor this mean the thermal conductivity remains constant throughout the life time of foam. Other types of open cell and rubber insulation materials thermal conductivity will not remain constant as it will increased over a period of time due to the absorption of moisture into the structure of the material.



Condensation Control

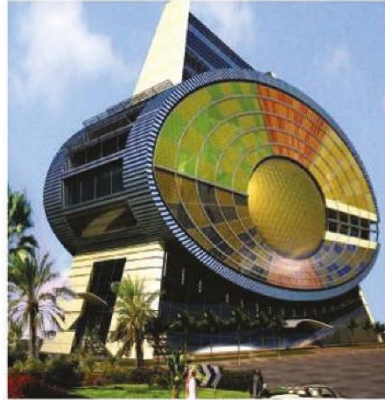
Vapor diffusion into the insulation material is one of the major causes of condensation. The technology is to laminate Proflex foam with aluminum foil as a vapor barrier itself and it is effective dew formation caused by a drastic changes in temperature. proflex with more than 90% of closed-cell and independent air bubble structure it prevent dew forming.



Project Reference



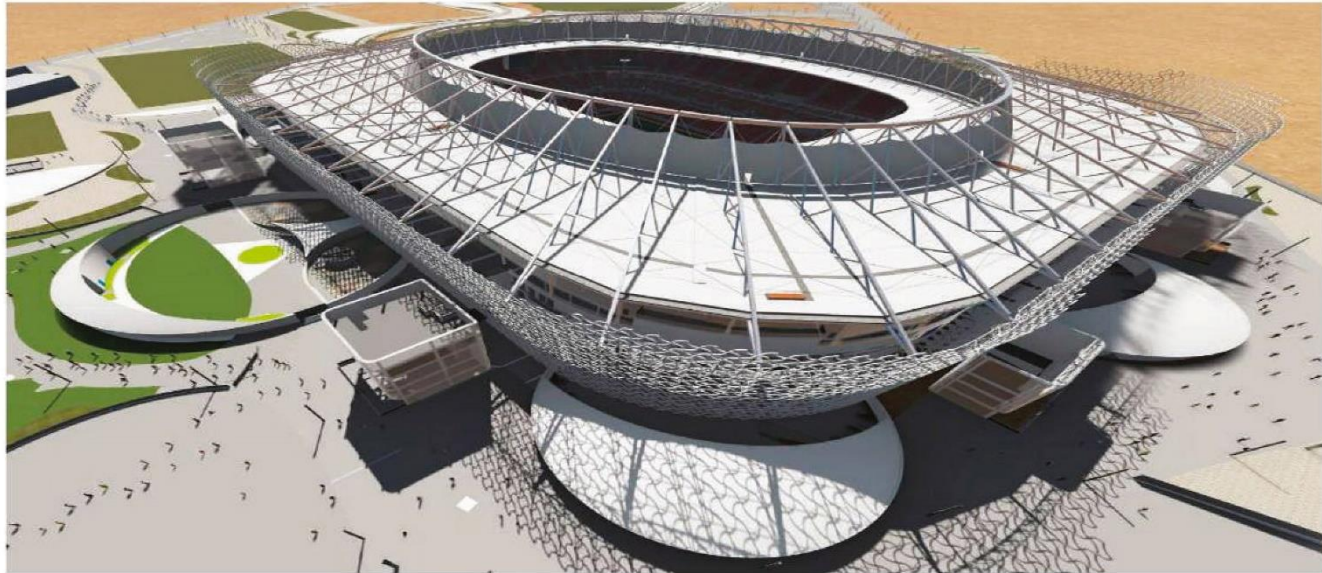
Marina Twin Towers Lusail



Air Port Office Building



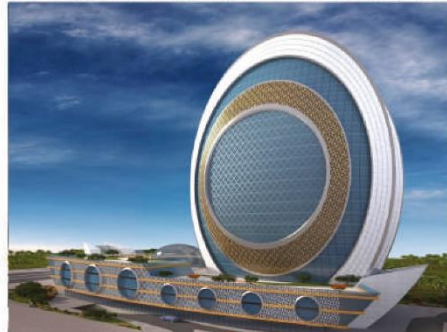
VIP Hotel Building



Al Rayyan Stadium and Precint Project



AI Waab Mall



Shell Tower Lusail Qatar



Rotana Hotel

National Service Academy Training Camp - Al Mazroaa - Qatar Armed Forces

Al - Udied Air Base - Strategic Military Facilities - Qatar Armed Forces - GHQ

PROFLEX TECHNICAL DATA

PHYSICAL CHARACTER	REMARKS
MATERIAL	Cross-linked Closed Cell Polyolefin Insulation. Available in Sheet and Tubes
CELLULAR STRUCTURE	Cross-linked Closed Cell
DENSITY	30 to 50 kg/m ³ (foam core only)
THERMAL CONDUCTIVITY	0.034 W/mK @ a mean of 23°C (ASTM C518)
EMISSION OF VOLATILE ORGANIC COMPOUND (VOC)	Low VOC Emission
FIRE RESISTANCE	BS 476 Part 6 & 7, Class O
SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS	Spread of Flame Index ≤25 Smoke Developed Index ≤50 (ASTM E84)
FIRE LISTINGS	Class O BS 476 Part 6 & 7
CERTIFICATES	UL Listed, TUV BS 476 Part 6 & 7, ASTM E84, ASTM C518, ASTM D5116, ASTM G21-09
WATER VAPOUR PERMEABILITY	4.3 X 10 ⁻¹² g/Pa.m.s (ASTM E86)
TEMPERATURE RANGE	-80°C to +120°C
ENVIRONMENTAL CONCERNS	CFC Free, HCFC Free, Dust Free, Fiber Free, Zero Ozone Depletion Potential (ODP), Environment Friendly Product, Global Warming Potential <5 (GWP)

CHEMICAL RESISTANCE	Inert to Most Acids, Alkalis, Alcohols, Esters, Ketones, Water, Soaps, and Detergent
UV RESISTANCE	Excellent, No covering or UV coating required
ANTI FUNGAL	Strong
WATER PROOFING	Excellent
ANTI CHEMICAL	Excellent
RESISTANT TO PERMANENT DEFORMATION	High Resistant
SHRINKAGE	Almost no Shrinkage
POLLUTION / TOXIC	Non
VIBRATION ABSORPTION	Excellent
TENSILE STRENGTH	90% Both Direction
ELONGATION	90%
ODOUR	Neutral
COLOR	Grey / Black