

Conserving energy for a better planet

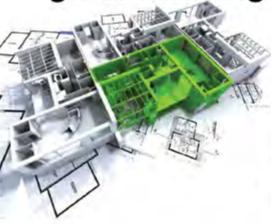
150717E Complete Insulation Systems





These days, it's all about sustainability.

How can we make green buildings for the future?



ISOPIPE conserves more than 80% of energy

According to the EPA (US Environment Protection Agency), achieving sustainability is straightforward.

- Reduce the amount of natural resources buildings consume
- Reduce the amount of pollution emitted by those same buildings

High performance green buildings share three main attributes: high energy efficiency, low environmental impact and proper occupant health and comfort. These are the fundamentals for both new and existing buildings.

A simple measure that directly impacts these three attributes is the use of proper insulation systems

ISOPIPE is a highly durable insulation system. It has shown to offer improved environmental performance and advanced control of buildings.

ISOPIPE insulation systems are cost effective and energy efficient; you save money by conserving more than 80% of energy. However, the real pay off comes when you consider ISOPIPE's environmental benefits:

- Low thermal conductivity for effective energy saving and CO2 reduction.
- Zero ozone depletion potential (ODP) ISOPIPE is manufactured without CFCs, HFCs or HCFCs in accordance with Green building requirements.
- Zero Global Warming Potential (GWP) ISOPIPE is manufactured with blowing agents which do not contribute to Global Warming.

Bare pipes lose heat. These loses can be significantly decreased when insulated with ISOPIPE

3i manufactures insulation systems according to the strictest standards that are environmetally sensitive in order to fulfill the need of our customers. We use raw materials and energy with responsibility to reduce waste. In addition, we meet industry standards by supplying information on the proper use of all our products to ensure their highest performance.



Invest in the future. ISOPIPE TC keeps people & the environment safe



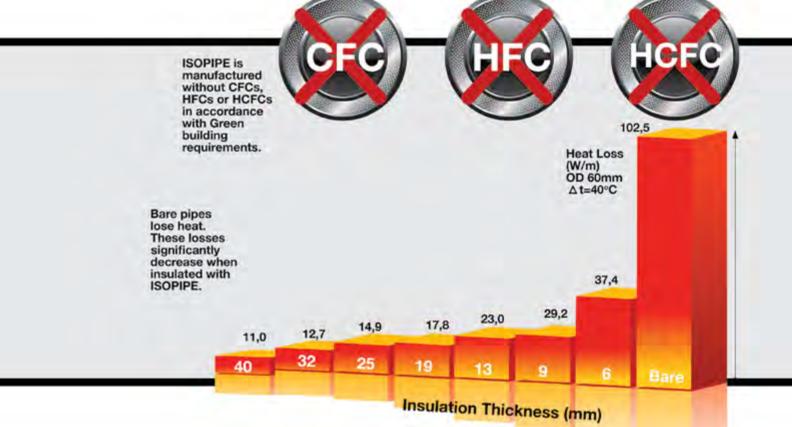
The use of ISOPIPE products is an investment that brings many benefits besides the energy efficiency.

Poor air quality in buildings can have harmful effects on human health and the environment. The health effects caused by poor air quality mainly affect the body's respiratory and cardiovascular systems. These may range from subtle biochemical and physiological changes to difficulty in breathing and aggravation of existing respiratory and cardiac conditions.

ISOPIPE TC insulation systems are manufactured with respect to human health and environment as they ensure improved air quality Moulds and fungi are easily found in nature and are necessary microorganisms for the breakdown of leaves, wood and other plant debris. However inside buildings moulds and fungi can pose health risks. Mycotoxins, the byproducts of mould, are toxic to humans. These toxins can slowly wear down the immune system and can lead to allergic or respiratory problems.

Furthermore, our insulation does not contain or release VOC (Volatile Organic Compounds) which are harmful substances for the environment.

The best method of prevention is the reduction of moisture in buildings. ISOPIPE TC insulation systems are designed to do exactly that.



ISOPIPE TC insulation systems ensure improved air quality keeping people healthy and the environment suitable for living

Our specially designed calculation program determines the amount of energy savings according to insulation's thickness



Input Parameters		
Material	Pipe	
Environment	Indoor	
Line Temperature	-20 °C 11 -4 °F	
Ambient Temperature	20 C 1 68 F	
Humididty	75 % ()	
Pipe Outer Diameter	60	Surface Coefficient (indoor)
Insulation Thickness	19 -	ID: ISOPIPE 19x6

Dust & Fibre Free

The long term performance and efficiency of ISOPIPE significantly increases when installed according to the 3i technical guide.

Unique Applications

& effectiveness of

the insulation.

 $(\mu > 7000)$

From the start, our commitment to quality and attention to detail has gained us international recognition. We do not only meet but exceed technical & performance specifications set by the insulation & fire safety standards. ISOPIPE has been highly commended by tradesmen, engineers & technicians alike for its ease of application, flexibility & durability. In 2000, The European Association of enterprises awarded ISOPIPE for its excellent quality.

All our certificates of quality, awards and documents of conformity to independent global institutes have been collected into a single book available for your convenience and reference.





ISOPIPE TC insulation systems are proven solutions for marine applications. Due to their easy to clean nature, our insulation solutions are highly suitable for sanitary and hygienic environments. For these needs, we recommend our UV coated systems.

· \(\) = 0,036W/mK at 10°C

· \(\lambda = 0.037W/mK at 20°C

· \u03b4 = 0,040W/mK at 40°C



Conditioning Refrigeration



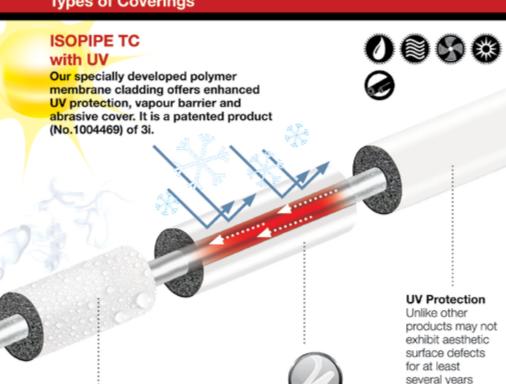
Certifications



LNE SIEMENS







Permeability

Increased steam diffusion resistance (u) more than 80%

Added Benefits

- UV protection
- Aesthetically pleasant
- No need to tape, paint or cover
- Oil and grease resistant

Flexibility Continuous long

term performance

- Easily cleaned with a standard cloth

 Elastomeric body well protected against scratches, abrasions

after prolonged

exposure to UV

radiation.

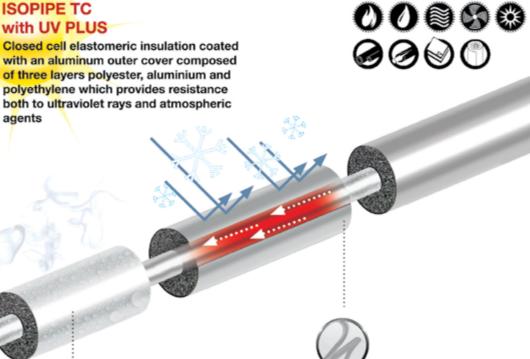
- High wear resistant

Temperature Resistance of UV Coating: Up to 58°C

Estimated Lifespan: 3-5 years

ISOPIPE TC with UV PLUS

with an aluminum outer cover composed of three layers polyester, aluminium and polyethylene which provides resistance both to ultraviolet rays and atmospheric agents



Increased steam diffusion resistance (u) more than 100%

Added Benefits

- High UV protection
- Reduces risk of under insulation corrosion
- Chemical and oil resistant

Thickness: 125µm Weight: 135gr/m²

Flexibility Continuous long term performance

- Saves you time: Installation is fast and
- No need for special equipment.
- User friendly: Easy to maintain.
- No need to tape, paint or cover.
- Cleaned with a standard cloth.

Temperature Resistance of UV Plus Coating:

-30°C + 85°C

Estimated Lifespan: +10 years

ISOPIPE TC Heavy Duty

Excellent water Our superior aluminum covered vapour barrier insulation offers protection against mechanical damage, leakage and pipe corrosion. This is made possible by our heavy duty coating that is made of a double layer of aluminum, special UV protection and PVC backing.



Cover Puncture O 0.8mm = 23NO 2,0mm = 87N

Fire will not spread through the coating, It has a limited oxygen index for fire - 35% (Normal oxygen level in the air is at 15%)

You will save up to 50% on installation costs if you choose ISOPIPE TC Heavy Duty as this insulation comes with the aluminum coating in a unified piece.

- Stress free: It is fire retardant and reduces risk of under insulation corrosion.
- Saves money: Built to last by excellent long term UV protection and resistant to wear, chemicals, oil and severe weather.

Temperature Resistance of HD Coating: -25°C + 75°C Estimated Lifespan: +15 years

Applications



Coil

Effective ISOPIPE elastomeric foam insulation tube coiled in continued lengths of up to 78 meters. It is highly practical to installers and

technicians. No scraps; cut only the necessary length and store the rest. Less use for glue and less labour.

Available in: TC



ISOPIPE is supplied in a complete range of sizes, which accommodate any application.

Available in pipes thickness of: 6, 9, 13, 19, 25, 30mm and to suit pipe diameters from 6mm to 139mm. Pipes standard length is 2 meters.

Available in: TC, UV, UV PLUS, HD



Angle-pre slit self-adhesive with overlapping self adhesive tape.

Slit & Seal

Significantly reduces application and installation time and relevant labour costs. Secures bonding along the slit length, with strong double self-adhesive tape. Perfect for existing "installed" pipe systems.

Available in: TC



System

Sheet insulation system for large bore pipes, ducts and cylinders offers an efficient method of insulating as it is already accurately pre-cut to the dimensions of the pipe.

Engineered angle-cut ends assuring parallel to the pipe bonding. Less "unleash" stress. Packaged in 1 meter length.

Available in: TC, UV PLUS & HD



Sheets

Permeability

Increased steam

(µ) more than 10

Added Benefits

with a standard cloth.

Thickness: 230µm

Weight: 340gr/m²

times

diffusion resistance

Closed-cell elastomeric foam thermal insulation material in flat sheet form pre-cut in 2 meter length and 1 meter

- Saves time: Fast and easy installation. -

- No need to tape, paint or cover. Cleaned

User friendly: Easy to maintain.

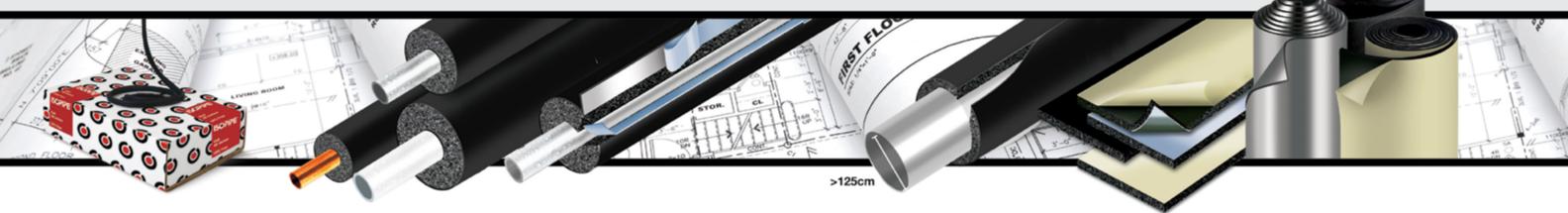
Available in: TC, UV PLUS & HD (with or without self-adhesive)



Closed-cell elastomeric foam thermal insulation material in flat sheet form. rolled into length of up to 30 meters.

Available in: TC, UV PLUS & HD (with or without self-adhesive). TC is available in widths of 1m,1,20m and





3i has obtained the ability to produce specialised products due to its continuous research and development program.

Until today, elastomeric insulation has been vulnerable when used outdoors, and under specific weather conditions. To ensure its performance and lifetime this is ordinarily treated with paint or by wrapping the insulation with plastic type. Environmental and health issues were until recently overlooked.

Unlike other insulation, ISOPIPE is made to last. The R&D department of 3i, managed to combine the effective elastomeric insulation with a specially developed outer covering (polymer membrane), forming one unified body. This eliminates the need for any further external treatment or covering but maintains the flexibility, thermal performance and all other characteristics of the elastomeric insulation.

It is due to this continuous research and development that 3i are able to produce insulation systems that are both environmental and health sensitive without compromising the quality of the insulation performance.

Don't wait any longer to protect your investments. Join the world of 3i today and rest easy.





Our 3i factory is situated 68km north of Athens, with a covered area of 40.000m² and building extensions of 28.000 m². Onsite, we have advanced testing equipment and continuous quality control that ensures top performance of all our products.

3i International Innovative Industries s.A.

GREECE

Head Offices:

Nafpliou & Daskalogianni 144 52, Metamorfossi, Athens, Greece T: +30 210 28 28 603 F: +30 210 28 19 210

E: export@isopipe.gr

Plant:

68 km Nat. Road Athens - Lamía 341 00, Ritsona, Halkida, Greece T: +30 2262 089800

F: +30 2262 072006

SPAIN

Calle Alfred Nobel, 29
Parcela, 35 - Poligono Industrial Valldoriolf
08430 La Roca del Valles, Barcelona
T: +34 93 879 1195
F: +34 93 879 1313
E: info@isopipe.es

www.isopipe.eu

More products ranges from 3i

ISOPIPE DISOTUBE TORRENT

The closed cell synthetic rubber solution for high temperatures. Environmentally friendly with limited smoke and toxic emissions in the case of fire.

ISOTUBE Pre-Insulated Pipes, Copper-Cu, Polyethylene-PE, Multilayer-PEX-AL-PEX and INOX is the ideal solution for cooling and thermo-plumbing works. We supply TORRENT, the leader in cast iron boilers and manufacture Sun, Galaxy, Matrix, Star, Megastar and the compact unit Sun cast iron boilers from 25kw to 1400kw.

A wide range of accessories also available from 3i

WP: 8"X8"X1/2"+
PL. 8"X8"X1/2"+
PL. 3/8"X8"
2-3/8"X8"
ANCHORS