

ISOPIPE ISOTUBE ISOSOUND





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Icons Directory

ICON	DESCRIPTION
	Available as: PIPES
0	Available as: SLIT & SEAL
	Available as: SYSTEM
	Available as: SHEETS
	Available as: ROLLS
	Applicable in conditions of: HEATING
	Applicable in conditions of: PLUMBING
	Applicable in conditions of: AIR CONDITIONING
	Applicable in conditions of: REFRIGERATION
	Applicable in conditions of: SOLAR ENERGY
	Applicable in conditions of: NOISE



Company History Environment



I – Company, History, Environment

1. Introduction

Dear partners,

3i – International Innovative Industries S.A. was established in 1997. Our plant is located at Ritsona area of Halkida – 68km north of Athens, on a private 30.000 sq meters facility that accommodates the fully automated production unit. Furthermore, since 2009 we founded ISOPIPE IBERICA S.L., our subsidiary company in Barcelona, Spain.

Our company is one of the three companies in vertical production of insulation worldwide, and is engaged in the production of the widely used closed cell synthetic rubber insulation with the trademark ISOPIPE. We are investing in high technology machinery, research and development and testing laboratories to improve the quality of our products every day. Our production process is now under ISO 9001:2008.

Since our foundation, our obsession on high quality and our attention to detail resulted in our products being covering every insulation and fire protection specification, while they are recommended by specialist as the most appropriate insulation, based on performance and lifetime. In the year 2000, ISOPIPE insulation was awarded by the EUROPEAN Business Organization, due to its excellent quality.

Our company's investment in our R&D Department can be easily highlighted through the constant development on new and innovative insulation products. At the same time, we are proud that 3i is holding a protected patent for innovative product design for the ISOPIPE UV insulation protection (patent No 100 4469).

The above are the results of the continuous commitment to achieve customer satisfaction, through the philosophy stated as to

"We identify needs – we supply the solution."

The international success of 3i in the insulation products market, as its export operation stretches nowadays in more than 40 countries, reward us by feeling proud on our contribution to global energy saving and the future of our planet.



3i Production Site

EUROPE

Ritsona, Halkida, Greece

3i Offices

EUROPE

Head Office: Metamorfosi Attikis, Greece

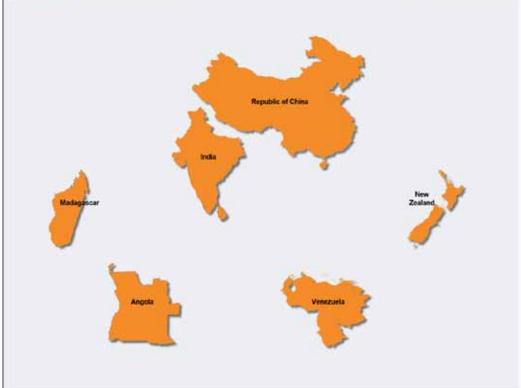
Subsidiary: Barcelona, Spain

Distributing Countries

EUR	POPE	MIDDLE EAST	AFRICA
Armenia	Kazakhstan	Israel	Angola
Azerbaijan	Latvia	Lebanon	Egypt
Bulgaria	Lithuania		Madagascar
Croatia	Malta	ASIA	Morocco
Cyprus	Netherlands	China	
Finland	Poland	India	
France	Portugal	New Zealand	
FYROM	Romania		
Georgia	Serbia	SOUTH AMERICA	
Germany	Slovenia	Venezuela	
Greece	Spain		
Hungary	Sweden		
Ireland	Turkey		
Italy	United Kingdom		

Worldwide 3i Presence





§ 3i Export countries

§ 🏓 3i Offices

2. Innovation, Mission and Vision of 3i

3i has obtained the ability to produce specialized 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 is 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 mission is to offer innovative, high quality solutions to the insulation industry to counteract environmental and energy saving issues.

We want to contribute significantly in reducing industrial and household energy consumption, around the world.



3. Basics of Insulation

Insulation is any material that can slow the heat transfer. The important component of all insulators is stationary air. Still air is poor conductor of heat but air is never still. Heat is transferred across on air space by conduction, or by combination of conduction and convection, and radiation. Heat transfer is highly dependent on both orientation and thickness. Heat transfer by radiation is dependent of both thickness and orientation and also of the reflectivity of the enclosing surfaces.

Structure of foam insulation

In foam insulation, air is trapped in many small spaces called cells. These cells are completely enclosed by a thin wall and they are not interconnected (closed cell structure). The thermal conductivity of the whole body then is reduced, but not as much as to reach that of still air, because air in individual cells moves. The value of thermal conductivity that can be reached is dependent on the size of cells and the material from which the cells were produced.

The heat travels conductive through the cell walls, convective-conductive from cells trapped air wall and by convection-radiation when reaches the free surface of the material. The size of cells is related to the density of the foam. High density means a larger number of smaller cells than that of low density. A large number of small cells also indicates presence of more material from which the cells are made of, so this increases the thermal conductivity of the whole body.

The thermal conductivity is strongly dependent on the quantity of solid material present. At very low densities there is so small amount of solid material that there is an appreciable heat transfer by radiation and some by convection. As density increases, the heat transfer by radiation and convection is reduced until the increased conduction, matches the reduction of radiation and convection. This is the density for the minimum thermal conductivity. Beyond this point the thermal conductivity increases.

ISOPIPE insulation, produced to give a structure of 100-120 cells/cm² and a density of 60-75 kgr/m³, reaches the optimum combination one can get by rubber insulation.

Heat loss is directly dependent on the area of the surface. When we add insulation to a pipe we increase its outer surface and this means that the heat loss will increase. Insulation reduces the heat transfer but also reduces the temperature-difference between the outer surface and surroundings. Again a contradiction, this means that a balanced calculation is required in order to achieve the optimum insulation level depending on the application.

ISOPIPE, rubber insulation is produced by rubber compounds which contain special additives that give the excellent final mechanical and insulating properties.

Usually optimum thickness is represented by intersection curves traced in terms of cost. Thicker insulation may be better but it will not be the optimum. Thinner insulation will not earn its cost from energy saving. Generally it is suggested to require the maximum insulation for outdoors and as over the limit the reduction of loss is minimal and 80% efficiency of insulation is considered to be proper. For intermediate controlled conditions a 50% efficiency has to be required and for indoor conditions a 30% efficiency of insulation. So first we have to calculate the heat loss on not insulated surfaces and then consider the requirements for heat loss reduction.

Finally, construction works must be designed in such a way that in case of an outbreak of fire the spread will be limited. This means that building materials must be selected taking into account their fire performance. This means they should not support or spread fire to other materials and they should not drop flaming particles.

The ISOPIPE formulations obtained qualification to many countries achieving very low ignitability and spread of flame, no dropping, limited smoke and low heat release.

4. Environmental Sustainability

Energy technology is vital to a dynamic society but global warming, driven primarily by CO₂ emissions, now demands change in current patterns of generation and use.

Half of our energy is used in buildings, which form an excellent focus for actions to reduce CO₂ emissions, starting with energy efficiency.

How can we make green buildings for the future?

According to the EPA (Environmental Protection Agency) achieving sustainability is straightforward.

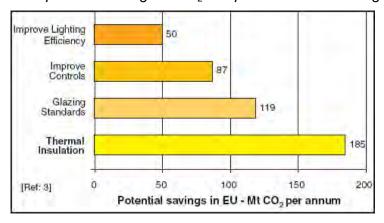
- ü Reduce the amount of natural resources buildings consume.
- ü Reduce the amount of pollution emitted by those same buildings.



In Europe, the largest share of energy in buildings is heating. Insulation and thermal design can dramatically reduce heat

loss and help stop global warming. Heating energy demand in existing buildings can be reduced by 30-50% through retrofit, compared to the current average. In new buildings it can be reduced by 90-95%, using widely available technology at competitive costs.

Insulation shows the greatest potential savings of CO₂ compared to other building efficiency measures!



Green buildings often include measures to reduce energy use. To increase the efficiency of the building envelope, they may use high-efficiency windows and insulation in walls, ceilings, and floors.

Another strategy, passive solar building design, is often implemented in low-energy homes. Designers orient windows and walls and place awnings, porches, and trees to shade windows and roofs during the summer while maximizing solar gain in the winter. In addition, effective window placement (day lighting) can provide more natural light and lessen the need for electric lighting during the day. Solar water heating further reduces energy loads.

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.

The benefits of pipe Insulation include, in addition to reducing costs and environmental impacts of energy consumption:



- Conserves Energy by Reducing Heat Loss or Gain:
 Properly designed and installed insulation systems immediately reduce the need for energy, a costly ingredient of every product made.
- Ü Controls Surface Temperatures for Personnel Protection and Comfort Insulation reduces the surface temperature of piping or equipment to a safer level, resulting in increased worker safety and the avoidance of worker downtime due to injury.
- Ü Prevents Condensation on Cold Surfaces Specifying sufficient insulation thickness with a good vapor retarder is the most effective means of controlling condensation and limiting corrosion on cold piping, ducts, chillers and roof drains. Sufficient thickness is needed to keep the surface temperature above the dewpoint temperature of the ambient air.
- Prevents or Reduces Damage to Equipment From Exposure to Fire or Corrosive Atmospheres When used in combination with other materials, fiber glass and rock and slag wool insulation help provide fire protection in firestop systems; grease- and air-duct fireproofing; and electrical and communications conduit and cable protection.
- ü Controls Noise

Special or standard insulation materials can be used to encase or enclose a noise generating source, forming a sound barrier between the source and the surrounding area. Insulation installed in walls and ceilings can provide a barrier to the entry of sound from the outside or other rooms.

How to conserve more than 80% of energy?

ISOPIPE is a highly durable insulation system. It is shown that it offers 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.

A simple measure that directly impacts three attributes is proper insulation systems.

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.



The real pay off comes when you consider ISOPIPE's environmental benefits:

- ü Low thermal conductivity for effective energy saving and CO₂ reduction
- Ü **Zero ozone depletion potential (ODP).** ISOPIPE is manufactured without CFC's, HFC's or HCFC's in accordance with Green Building requirements.
- ü **Zero Global Warming Potential (GWP).** ISOPIPE is manufactured with blowing agents which do not contribute to Global Warming.



How to keep people and environment safe?

Invest in the future! ISOPIPE is a healthy conscious choice. It allows you to protect the buildings' occupants from mould and poor air quality. So it's an investment that will deliver tremendous benefits.

Poor air quality in buildings can have harmful effects on human health (the body's respiratory and cardiovascular systems) and the environment. Our systems ensure improved air quality keeping people and the environment healthy.

Join us in protecting our planet today by choosing the insulation that protects our future!





II – Products, Protections, Availability



1. ISOPIPE TC

a. Product Description

ISOPIPE TC is a new generation of high performance insulation. The closed cell elastomeric rubber insulation is a lasting solution against mould. It has outstanding thermal protection and because of this its surface is absolute condensation resistant.

The outstanding performance of the ISOPIPE TC material is guaranteed through continuing supervision and factory tests.



Density

ISOPIPE TC insulation is produced with a density of 60-75 kgr/m³



Proper Fit

ISOPIPE TC ensures no gaps between insulation and pipe because of the proper and secure fitting. This is especially important in applications like air conditioning, refrigeration or cooling, where condensation on the surface of the pipe is prevented.



Temperatures

ISOPIPE TC elastomeric material is characterized as thermoset, which means that brief temperature spikes (-40°C to +105°C) will not result in failure.



Flexibility

ISOPIPE TC has exceptional flexibility and elasticity. This allows for easy and fast application, effective insulation and at the same time provides excellent tear resistance.



Permeability

ISOPIPE TC's inherent structure & material offers a very high resistance to water vapor transmission. This ensures long term performance & effectiveness.

 $\ddot{u} \mu > 7000$.

Thermal Conductivity

As air (closed cells) & elastomeric material are poor conductors of heat, ISOPIPE TC significantly reduces the transfer of heat through its insulation.

- \ddot{u} $\lambda = 0.035W/mK$ at 0°C
- \ddot{u} $\lambda = 0.036W/mK$ at $10^{\circ}C$
- \ddot{u} $\lambda = 0.037W/mK$ at 20°C
- \ddot{u} $\lambda = 0.040W/mK$ at $40^{\circ}C$

Fire Rating

ISOPIPE TC has a very good fire behavior. It will not drip flaming particles nor will it spread flames. It provides safe insulation; an ideal choice for residential & public buildings.

- ü Class 0, Class 1
- ü **B s3, d0**



Applicable in situations of:



Available in forms of:



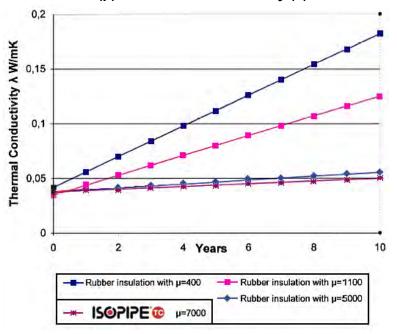
The influence of water vapor diffusion resistance index (μ) on thermal conductivity (λ)

Values:

Ambient Temperature: 36°C

Line Temperature: 0°C Relative Humidity: 60%

Insulation Thickness: 19mm



	MECHANI	CAL AND THERMAL PROPERT	TIES of ISOPIPE TC
Property	Symbol	Technical Data	Measuring Method
Thermal Conductivity	λ	0°C - 0,035W/mK	EN 12667
		10°C - 0,036W/mK	
		20°C - 0,037W/mK	
		40°C - 0,040W/mK	EN ISO 8497
Permeability	μ	μ ≥ 7000	EN 13469, EN 12086
Density	р	60 – 75 Kgr/m ³	prEN 13470, EN 1602
Tensile Strength	Pa	> 0,15 Mpa	EN ISO 1798
Temperature Resistance	°C	-40°C to +105°C (Pipe, Coil, S/S)	
		-40°C to +85°C (Sheet, Roll, System)	
Fire Rating		B - s3, d0 (Pipe, Coil, S/S)	EN 13823
		C - s3, d0 (Sheet, Roll,System)	EN ISO 11945-2
		Class 0, Class 1	BS 476 p.6 & p.7, UNI 8457
		B _L - s3, d0 (M1)	NF EN 13823, NF EN 11925-2
		Low Flame Spread	IMO RES.MSC 61(67) FTP code, Annex 1, Part 5
Noise Reduction		up to 30dB	DIN 4109
CFC, HFC, HCFC		Free	
Odor		Neutral	

The written figures on these pages are these that have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special usage.

Certifications

We do not only meet but exceed technical & performance specifications set by the insulation & fire safety standards. All our certificates, awards and documents of conformity to independent global institutes are available as a single book for your convenience and reference.



b. Types of Protections

i. UV

Patented product (1004469) of 3i. Our specially developed polymer membrane cladding offers enhanced UV protection, vapor barrier and abrasive cover.

UV PROPERTIES

Permeability: Increased steam diffusion resistance (µ) more than 80%.

UV Protection: May not exhibit aesthetic surface defects for several years after prolonged

exposure to UV radiation.

Flexibility: Continuous long term performance.

Temp. Resistance: -30°C to +58°C

Lifespan (est.): 3-5 years

Added Benefits:

ü Aesthetically pleasing.

ü White color helps to detect mold faster.

ü Oil and grease resistant.

ü No need to tape, paint or cover and easily cleaned with a standard cloth.

ü Elastomeric body well protected against scratches and abrasions.

ü High weather resistant.

Applications:





Pipes

Slit & Seal



ii. UV PLUS

Closed cell elastomeric insulation dressed with an aluminium outer cover composed of three layers polyester, aluminium and polyethylene which provides resistance both to ultraviolet rays and atmospheric agents.

UV PLUS PROPERTIES

Thickness: $125 \mu m$ Weight: $135 gr/m^2$

Temp. Resistance: -30°C to +85°C

Lifespan (est.): +10 years

Permeability: Increased steam diffusion resistance (μ) more than 100%.

Flexibility: Continuous long term performance.

Added Benefits:

ü High UV protection with reflective properties.

ü Reduces risk of under insulation corrosion

ü Chemical and oil resistant.

ü Fast and easy installation, without requiring special equipment.

ü Aesthetically pleasing through its smooth and shiny appearance.

ü No need to tape, paint or cover. Easy to clean and maintain.

ü Can be cleaned with a standard cloth.

Applications:







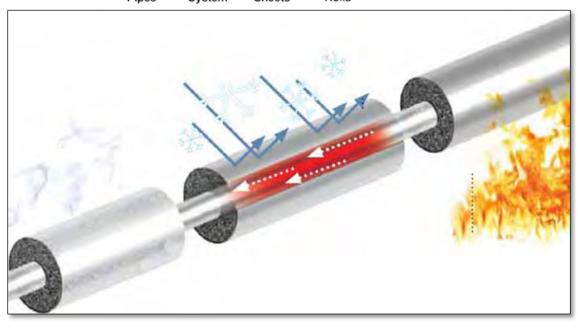


Pines

Syst

Sheets

Rolls



iii. H D (HEAVY DUTY)

Superior aluminium covered insulation offering protection against mechanical damage, leakages and pipe corrosion. The coating consists of a double layer of aluminium, special UV protection and PVC backing. By using Heavy Duty protection, 50% of installation costs are saved as the insulation comes with the aluminium covering in a unified piece.

HD PROPERTIES

Thickness: $230 \mu m$ Weight: 340 gr/m^2

Temp. Resistance: -25°C to + 75°C

Lifespan (est.): +15 years

Permeability: Increased steam diffusion resistance (μ) more than 10 times.

Cover Puncture: Very high puncture and wear resistance.

 \emptyset 0,8mm = 23N, \emptyset 2,0mm = 87N

Oxygen Index: 35% (Oxygen level in the air is nearly 20%) > Fire will not spread through

Added Benefits:

ü Excellent long term UV protection with extra reflective properties.

- ü Reduces risk of under insulation corrosion.
- ü Chemical, Oil, weather and wear resistant.
- ü It is fire retardant and has two moisture barriers.
- ü Aesthetically pleasing through its smooth and shiny appearance
- ü Easy to clean and maintain. It can be cleaned with a standard cloth.

Applications:







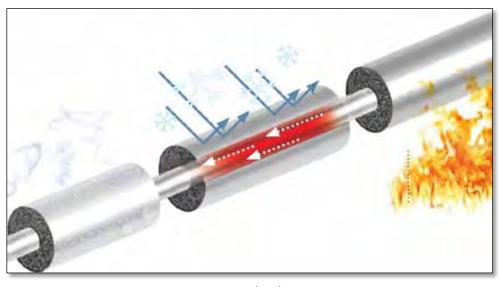


Pipes

Sys

Sheet

Rolls

















Pipes

Coi

il SI

Slit & Se

& Seal Syst

She

Roll



c. Product Range, Availability

i. Pipes (Regular)



EXTERNA	L PIPE D	IAMETER		INTERNAL	THICKNESS & DIMENSION OF INSULATION											
				DIAMETER												
Fe	•	Cu	PP			mm		mm		Bmm		mm		imm		mm
Inch	mm	Inch				/4"		3/8"	1/2"			3/4"	1"		1 1/4"	
				min - max	Φ	m	Ф	m	Ф	m	Φ	m	Φ	m	Ф	m
	Ф6	1/4"		7,0 - 8,0	√	420	√	270	√	156	*	84				
	Ф8	5/16"		9,0 - 10,0	*	340	*	250								
	Ф 10	3/8"		11,0 - 12,0	√	340	√,	190	√	130	*	70				
	Ф 12			13,0 - 14,0	√	250	V	180	√	120	*	70				
	Ф 13	1/2"		14,0 - 15,0	*	250	*	170	*	120						
	Ф 14			15,0 - 16,0	*	200	*	140	*	100						
1/4"	Ф 15			16,0 - 17,0	√	200	√	140	√	100	√	50	√	40	√	30
	Ф 16	5/8"	Ф 16	17,0 - 18,0	*	200	*	140	*	100						
3/8"	Ф 18			19,0 - 20,0	V	180	1	130	V	90	1	50	*	40	*	30
	Ф 19	3/4"		20,0 - 21,0	*	180	*	130	*	90						
(16X1) WICU TALOS			Ф 20	21,0 - 22,0	*	150	*	110	*	80						
1/2"	Ф 22	7/8"		23,0 - 24,0	V	144	1	100	1	70	1	44	1	30	1	24
	Ф 25	1"	Ф 25	26,0 - 27,0	*	120	*	80	*	60	*	40	*	26	*	24
3/4"	Ф 28	1 1/8"		29,0 - 30,0	V	120	1	80	1	60	1	40	1	26	1	24
	Ф 30			31,0 - 32,0	*	108	*	70	*	44					*	24
	Ф 32	1 1/4"	Ф32	33,0 - 34,0	*	108	*	70	*	44	*	30				
1"	Ф 35	1 3/8"		36,0 - 37,0	V	108	1	70	V	44	1	30	1	24	1	18
	Ф 38	1 1/2"		39,0 - 40,0	*	60	*	60	*	36	*	28				
1 1/4"	Ф 42	1 5/8"	Ф 40	43,0 - 44,0	V	60	1	60	V	36	1	28	1	22	1	16
	Ф 45	1 3/4"		46,0- 47,0			*	40	*	30						
1 1/2"	Ф 48	1 7/8"		49,0 - 50,0			1	40	V	30	1	22	V	18	*	14
	Ф 54	2 1/8"	Ф 50	55,0 - 56,0			1	36	V	26	1	20	1	16	1	12
	Ф 57	2 1/4"		58,0 - 59,0			*	36	*	26						
2"	Ф 60	2 3/8"		61,0 - 62,0			1	36	√	24	√	16	1	12	*	10
	Ф 64	2 1/2"	Ф 63	65,0 - 66,0			1	32	√	22	√	16	*	12	*	10
	Ф 67	2 5/8"		68,0 - 70,0			*	32	*	22	*	14	*	12		
	Ф 70	2 3/4"		71,0 - 73,0			*	24	*	22	√	14	*	12	*	10
2 1/2"	Ф 76	3"	Ф 75	77,0 - 79,0			1	24	√	20	√	14	√	10	*	10
	Ф 80	3 1/8"		81,0 - 83,0			*	20	*	16	*	12	*	8	*	10
3"	Ф 89	3 9/16"	Ф 90	90,0 - 92,0			1	20	√	16	√	12	√	8	*	8
	Ф 101	4"		103,0 - 105,0			*	16	1	16	√	8	*	8	*	6
3 1/2"	Ф 108	4 1/4"	Ф 110	110,0 - 112,0			*	16	√	16	*	8	*	6	*	6
4"	Ф 114	4 9/16"		116,0 - 118,0			1	12	√	16	√	8	√	6	*	6
5"	Ф 139	5 1/2"		141,0 - 143,0			*	10	√	8	√	6	√	4	*	4
	Thickness Tolerance			± 1,	0 mm	± 1,	,5 mm	± 1	,5 mm	± 2	,0 mm	± 2,0 mm ± 2,			0 mm	

 $[\]S$ Standard length for ISOPIPE TC is 2 m (± 1,5 %).

[§] Standard carton size is 210x41x27 cm.

 $[\]S$ Up to 5% of total carton content may be in 1 meter length.

[§] Dimensions marked with a * should be consulted for price and availability.

ISOPIPE TC Pipes (UV)



EXTERNA	AL PIPE D	IAMETER		INTERNAL DIAMETER		TI	HICKNE	SS & D	IMENS	SION OF	INSUL	ATION		
Fe Inch	mm	Cu Inch	PP	٩		mm /8"		mm /2"		9mm 3/4"		mm I"	30r 1 1	
IIICII	"""	IIICII		min - max	Φ	m	Φ	m	Φ	m	Φ	m	Φ	m
	Ф6	1/4"		7,0 - 8,0	√	270								
	Ф 10	3/8"		11,0 - 12,0	V	190	V	130	V	70				
	Ф 12			13,0 - 14,0	√	180	V	120	V	70				
1/4"	Ф 15			16,0 - 17,0	V	140	V	100	V	50	√	40	1	30
3/8"	Ф 18			19,0 - 20,0	V	130	V	90	V	50	√	40	1	30
1/2"	Ф 22	7/8"		23,0 - 24,0	√	100	V	70	V	44	√	30	√	24
	Ф 25	1"	Ф 25	26,0 - 27,0	√	80	V	60						
3/4"	Ф 28	1 1/8"		29,0 - 30,0	V	80	√	60	V	40	√	26	V	24
1"	Ф 35	1 3/8"		36,0 - 37,0	V	70	√	44	V	30	√	24	V	18
1 1/4"	Ф 42	1 5/8"	Ф 40	43,0 - 44,0			V	36	V	28	√	22	V	16
	Thickness Tolerance			<u>.</u>		5 mm	± 1,	5 mm	± 2	2,0 mm	± 2,0	0 mm	± 2,0) mm

[§] Standard length for ISOPIPE TC UV is 2 m (± 1,5%). Standard carton size is 210x41x27 cm.

ISOPIPE TC Pipes (UV PLUS)



EXTERNA	AL PIPE DIAM	ETER			THIC	KNESS 8	DIMEN	SION OF	INSULA	TION		
Fe Inch		u Inch		mm /8"		mm '2"		mm '4"		mm ")mm 1/4"
inch	mm	men	Φ	m	Φ	m	Φ	m	Φ	Φ pcs		pcs
	Ф6	1/4"	V	270								
	Ф 10	3/8"	√	190	V	130	V	70				
	Ф 12		√	180	√	120	√	70				
1/4"	Ф 15		√	140	1	100	1	50	V	40	√	30
3/8"	Ф 18		√	130	V	90	V	50	V	40	V	30
1/2"	Ф 22	7/8"	√	100	√	70	√	44	V	30	√	24
3/4"	Ф 28	1 1/8"	√	80	√	60	√	40	V	26	V	24
1"	Ф 35	1 3/8"	√	70	1	44	1	30	V	24	√	18
1 1/4"	Ф 42	1 5/8"	√	60	√	36	√	28	V	22	V	16
1 1/2"	Ф 48	1 7/8"	√	40	√	30	√	22	V	18	*	14
	Ф 54	2 1/8"	√	36	√	26	√	20	V	16	V	12
2"	Ф 60	2 3/8"	√	36	√	24	√	16	V	12	*	10
	Ф 64	2 1/2"	√	32	1	22	1	16	V	12	*	10
2 1/2"	Ф 76	3"	√	32	√	20	√	14	V	10	*	10
3"	Ф 89	3 9/16"	√	20	√	16	√	12	V	8	*	8
	Ф 101	4"	V	16	√	16	√	8	*	8		
3 1/2"	Ф 108	4 1/4"	√	16	√	16	*	8	*	6		
4"	Ф 114	4 9/16"	V	12	V	16	V	8	V	6		
5"	Ф 139	5 1/2"	*	10	√	8	√	6	√	4		
Thick	kness Tolerance		± 1,	5 mm	± 1,5	mm	± 2,0) mm	± 2,0) mm ± 2		,0 mm

- § Standard length for ISOPIPE TC UV PLUS is 95 cm (± 5 cm). Standard carton size is 210x41x27 cm.
- $\$ Up to 5% of total carton content may be in 1 meter length.
- \S $\;$ Dimensions marked with a * should be consulted for price and availability.

[§] Up to 5% of total carton content may be in 1 meter length.

ISOPIPE TC Pipes (HD)



EXTERNAL	PIPE DIAM	ETER			THICK	(NESS 8	& DIMEN	NSION OF	INSUL	ATION		
Fe	C		9n 3/		13r		_	mm /4"	25mm 1"		30mm 1 1/4"	
Inch	mm	Inch	Φ	m	Φ	m	Φ	m	Φ	m	Φ	m
	Ф 10	3/8"	√	190	√	130	√	70				
	Ф 12		√	180	√	120	√	70				
1/4"	Ф 15		√	140	√	100	√	50	√	40	√	30
3/8"	Ф 18		√	130	√	90	√	50	*	40	*	30
1/2"	Ф 22	7/8"	√	100	√	70	√	44	√	30	√	24
3/4"	Ф 28	1 1/8"	√	80	√	60	√	40	√	26	√	24
1"	Ф 35	1 3/8"	√	70	√	44	√	30	√	24	√	18
1 1/4"	Ф 42	1 5/8"	√	60	√	36	√	28	√	22	√	16
1 1/2"	Ф 48	1 7/8"	√	40	√	30	√	22	√	18	*	14
	Ф 54	2 1/8"	√	36	√	26	√	20	√	16	√	12
2"	Ф 60	2 3/8"	√	36	√	24	√	16	√	12	*	10
	Ф 64	2 1/2"	*	32	*	22	√	16	*	12	*	10
2 1/2"	Ф 76	3"	√	24	√	20	√	14	√	10	*	10
	Ф 80	3 1/8"	*	20	*	16	*	12	*	8	*	10
3"	Ф 89	3 9/16"	√	20	√	16	√	12	√	8	*	8
	Ф 101	4"	√	16	√	16	√	8	*	8	*	6
3 1/2"	Ф 108	4 1/4"	√	16	√	16	*	8	*	6	*	6
4"	Ф 114	4 9/16"	√	12	√	16	√	8	√	6	*	6
	Ф 125	5"	√	12	*	10	*	6	*	6	*	4
	Ф 133		*	10	*	8	√	6	*	6		
5"	Ф 139	5 1/2"	*	10	*	8	√	6	*	4		
Thickr	Thickness Tolerance			mm	± 1,5	mm	± 2,	0 mm	± 2,0) mm	± 2,0) mm

- \S Standard length for ISOPIPE TC HD is 95 cm (± 5 cm)
- § Standard carton size is 210x41x27 cm
- \S Up to 5% of total carton content may be in 1 meter length.
- § Dimensions marked with a * should be consulted for price and availability

ISOPIPE TC System (UV Plus)

ü Protection Thickness: aprx. 125µm

ü Layers: PET (Polyester) transparent film - Aluminium foil PE (Polyethylene)

ISOPIPE TC System (HD)

ü Protection Thickness: aprx. 230µm

ü Layers: Transparent film - Aluminium glossy - PVC FR (Flame Retardant)

ii. ISOPIPE TC Coil (Regular)



Synthetic rubber installation in continuous length.

ISOPIPE Coil offers you large savings since its delivered in a continuous length up to 65 m.

It's specially designed to be the practical solution for the technician and the installer!

Applications:

It addresses the need for economical and effective insulation for internal & external applications. It is ideal for piping used in dual-temperature systems (hot or cold pipelines), Air Conditioning and Refrigeration, Central Heating and plumbing (hot or cold pipelines).



Added Benefits:

- ü **No scrap!** Cut only the necessary length and store the rest.
- ü Less glue! No need to cut join short pieces.
- ü Less labour time from less cutting, joining or gluing!
- ü More convenient, due to the easy to carry package!











EXTERNAL	PIPE DIAM	ETER	INTERNAL		THICK	NESS 8	MEN	ISION			
			DIAMETER		c	F INSU	LATION	l			
Fe	Cu		Cu			6m	m 9r		9mm		nm
landa		lust		1/4	1"	3/	8"	1/	2"		
Inch	mm	Inch	min - max	Φ	m	Φ	m	Φ	m		
	Ф6	1/4"	7,0 - 8,5	√	78	V	50				
	Ф 10	3/8"	11,0 - 12,5	√	72	√	45	√	32		
	Ф 12		13,0 - 14,5	√	66	√	42	√	30		
1/4"	Ф 15		16,0 - 17,5	√	58	√	40	√	27		
3/8"	Ф 18		19,0 - 20,5	√	54	√	36	√	25		
1/2"	Ф 22	7/8"	23,0 - 24,0	√	47	√	33	√	24		
3/4"	Ф 28	1 1/8"	29,0 - 30,0			√	27	√	19		
Thickness Tolerance				± 1,0	mm	± 1,5	mm	± 1,5	mm		

- $\$ Continuous length tolerance is \pm 1.5 %
- § Carton size is 50x50x20 cm
- § Rest cartons is 50x50x30 cm

iii. ISOPIPE TC Slit and Slit & Seal



SLIT

- Synthetic rubber installation, lengthwise pre-slitted.

SLIT & SEAL - Synthetic rubber installation, lengthwise pre-slitted WITH self-adhesive PLUS black overlap.

Applications:

- ü It's ideal for confined or restricted working areas and
- ü for **already installed pipe systems**, where insulation cannot be threaded and must be slit and clamped around the existing pipes.

Added Benefits:

- ü ISOPIPE TC Slit & Seal has a **secure double bonding** along the slit length, with strong inner self-adhesive "mesh" tape and self-adhesive overlapping tape.
- ü It is **pre-cut at angle** to ensure larger bonding surface, better adhesion and less risk of heat loss.
- ü ISOPIPE TC Slit & Seal reduces significantly application and installation time and costs.
- ü Its appearance is **attractive** and it has an **professional finish**.

Installation:



Clamp insulation over pipe

Peal inner release film

Bring firmly together



Peal release film from overlapping tape and bring over slit

Bring The tape into desired position

ISOPIPE TC Slit and Slit & Seal (Regular)



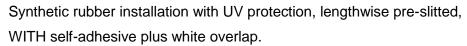
Synthetic rubber installation, lengthwise pre-slitted, WITH or WITHOUT self-adhesive plus black overlap.

EXTERNAL	PIPE DIAN	IETER				(NESS &				
Fe		Cu I		nm	131	nm	19r	nm		mm
Inch	mm	Inch	Φ	8" m	Ф	2" m	Φ	4" m	Φ	" m
1/4"	Ф 15		√	140	√	100	√	50		
3/8"	Ф 18		√	130	√	90	√	50	V	40
1/2"	Ф 22	7/8"	√	100	√	70	√	44	√	30
3/4"	Ф 28	1 1/8"	√	80	√	60	√	40	√	26
1"	Ф 35	1 3/8"			√	44	√	30	√	24
1 1/4"	Ф 42	1 5/8"			√	36	√	28	√	22
1 1/2"	Ф 48	1 7/8"			√	30	√	22	√	18
	Ф 54	2 1/8"			√	26	√	20	√	16
2"	Ф 60	2 3/8"			√	24	√	16	√	12
	Ф 64	2 1/2"			√	22	√	16	√	12
2 1/2"	Ф 76	3"			√	20	√	14	√	10
3"	Ф 89	3 9/16"			√	16	√	12	V	8
Thickr	ness Tolerance)	± 1,5 mm ± 2,0 mm							



- \S Standard length 2 meters (± 1.5 %). Up to 5% of total carton content may be in 1 meter length.
- § Standard carton size is 210x41x27 cm.

ISOPIPE TC Slit & Seal (UV)





EXTERNAL	EXTERNAL PIPE DIAMETER				THICK	(NESS 8	& DIME	NSION		
					(OF INSU	ILATION	١		
Fe	C	u	9n	nm	131	nm	19r	nm	251	nm
Inch	mm	Inch	3/8"		1/	2"	3/	4"	1	"
inch	mm	men	Φ	m	Φ	m	Φ	m	Φ	m
1/4"	Ф 15		√	140	√	100	√	50	√	40
3/8"	Ф 18		√	130	√	90	√	50	√	40
1/2"	Ф 22	7/8"	√	100	√	70	√	44	√	30
	Ф 25	1"	√	80	*	60	*	40	*	26
3/4"	Ф 28	1 1/8"	√	80	√	60	√	40	√	26
1"	Ф 35	1 3/8"			√	44	√	30	√	24
1 1/4"	Ф 42	1 5/8"	√ 36 √ 28 √				22			
Thickne	± 1,5 mm ± 2,0 mm					-				



- § Standard length 2 meters (± 1.5 %). Up to 5% of total carton content may be in 1 meter length.
- § Standard carton size is 210x41x27 cm.
- § Dimensions marked with an * should be consulted for price and availability

iv. ISOPIPE TC System



Pre-slanted cut elastomeric sheets for large bore pipes.

ISOPIPE TO UV PLUS SYSTEM

The ISOSYSTEM sheet insulation system offers an efficient method of insulating. The clue about it is, that it is **already pre-cut** to the dimensions of the pipe.



- ü Available **up to Φ 1200**!! For bigger diameters, please contact us.
- U ISOPIPE TC SYSTEM can also be offered with SLIT & SEAL tapes (two self-adhesive and one overlap tape)

Applications:

- ü All heating and cooling piping requiring thermal insulation.
- ü Large diameter pipe insulating, where conventional products are unavailable.

Added Benefits:

- ü Large time saving due to measured pre-cut sheets. No need to calculate, measure or cut sheets.
- ü Eliminates wastage and scrap, common in the use of single-sized sheets or rolls.
- Ü Better perfect-fit application due to engineered angle-cut endings. This assures parallel to the pipe bonding, less "unleash" stress and larger adhesive surface area.
- ü Innovative, attractive and professional appearance.
- ü Easy to handle, transport and store due to the 1 meter packaged and easy to carry carton.

Installation:



Place required number of sheets flat on top of each other, align edges and apply an even layer of glue on both angled cut sides



Place one end of ISOSYSTEM on the pipe, hold down and bring insulation around the pipe



Align angle-cut edges and bring together, pressing firmly



Drag palms slowly along joint, aligning and applying pressure

Apply black adhesive tape along joint to give an attractive finish.

ISOPIPE TC System (Regular, UV PLUS, HD)

		THICKNESS & DIMENSION OF INSULATION				
OutD	InD	13mm 19mm 25mm 32mm 40mm			40mm	
Guib		1/2"	3/4"	1"	1 1/4"	1 9/16"
mm	Inch	Ф	Ф	Φ	Φ	Φ
Ф 80					√	√
Ф 89	3"	√	√	√	√	√
Ф 101		√	√	√	√	√
Ф 108		√	√	√	√	V
Ф 114	4"	√	√	√	√	V
Ф 127		√	√	√	√	√
Ф 133		√	√	√	√	√
Ф 139	5"	√	√	√	√	V
Ф 152		√	√	√	√	V
Ф 156		√	√	√	√	√
Ф 160		√	√	√	√	V
Ф 168	6"	√	√	√	√	V
Ф 203		√	√	√	√	√
Ф 219	8"	√	√	√	√	√
Ф 254		√	√	√	√	√
Ф 273	10"	√	√	√	√	√
Ф 305		√	√	√	√	√
Ф 323	12"	V	√	V	√	V
Ф 356	14"	√	√	√	√	V
Ф 406	16"	V	√	V	√	V
Ф 457	18"	√	V	V	√	V
Ф 508	20"	V	√	V	√	V
Thickness Tolerance		± 1,5 mm	± 1,5 mm	± 2,0 mm	± 2,0 mm	± 2,0 mm









- § Standard length 1 meter (± 1.5 %)
- § Standard carton size is 104x51x62 cm

ISOPIPE TC System (UV PLUS)

- ü Protection Thickness: aprx. 125µm
- ü Layers: PET (Polyester) transparent film Aluminium foil PE (Polyethylene)

ISOPIPE TC System (HD)

- ü Protection Thickness: aprx. 230µm
- ü Layers: Transparent film Aluminium glossy PVC FR (Flame Retardant)

v. ISOPIPE TC Sheets

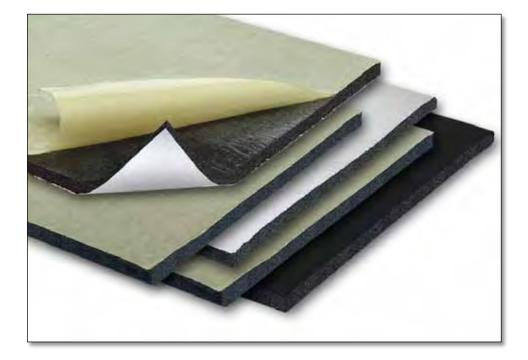


Synthetic rubber installation in form of sheets.

At a construction site or installation area, technicians often need to work and install insulation along roofs or hard to get and small areas.

ISOPIPE TC Sheets are manufactured to withstand the stress during any installation and operation and at the same time offer enough elasticity to allow the material to be "molded" and formed by the technician into the desired shape of the insulated object.

All sheets are delivered pre-cut at the standard size of 2x1 m.



Applications:

ü All heating and cooling piping requiring thermal insulation.

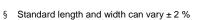
Added Benefits:

- ü **Easy to handle, transport and store** due to the 1 meter package and easy to carry carton.
- ü Available with the option of self-adhesive AND/OR aluminium protection foil.

ISOPIPE TC Sheets (Regular)

Synthetic rubber installation in form of sheets.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



[§] Standard carton size is 206x106x11 cm



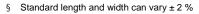


ISOPIPE TC Sheets (Regular) with self adhesive

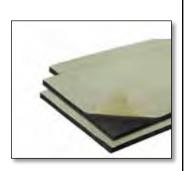
Synthetic rubber installation in form of sheets WITH self adhesive.

- ü No need of glue to stick it on the surface, no waste of time.
- ü Strong adhesive strength and easy to peel off silicon paper.
- ü Ideal for long ducts and in-accesible areas.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



[§] Standard carton size is 206x106x11 cm



ISOPIPE TC Sheets (UV PLUS)



Synthetic rubber installation in form of sheets WITH UV PLUS protection.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



ISOPIPE TC Sheets (UV PLUS) with self adhesive

Synthetic rubber installation in form of sheets WITH UV PLUS protection and with self adhesive.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



ü Protection Thickness: aprx. 125µm

ü Layers: PET (Polyester) transparent film - Aluminium foil PE (Polyethylene)

 $[\]S$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

 $[\]$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

ISOPIPE TC Sheets (HD)

Synthetic rubber installation in form of sheets WITH HD protection.



THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



ISOPIPE TC Sheets (HD) with self adhesive

Synthetic rubber installation in form of sheets WITH HD protection and self adhesive.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	2 x 1	30
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6
36 - 1-7/16"	± 2,0 mm	2 x 1	5
40 - 1-9/16"	± 2,0 mm	2 x 1	4



ü Protection Thickness: aprx. 230µm

ü Layers: Transparent film - Aluminium glossy - PVC FR (Flame Retardant)

 $[\]S$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

 $[\]$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

vi. ISOPIPE TC Rolls



Synthetic rubber installation in form of rolls.

At a construction site or installation area, technicians often need to work and install insulation along roofs or hard to get and small areas.

ISOPIPE TC ROLLS are manufactured to withstand the stress during any installation and operation and at the same time offer enough elasticity to allow the material to be "molded" and formed by the technician into the desired shape of the insulated object.



Applications:

- ü All heating and cooling piping requiring thermal insulation.
- ü Large objects like ducts, large bore pipes, boilers

Added Benefits:

- ü Easy to be shaped and formed around large objects.
- ü Excellent flexibility.

ISOPIPE Rolls Bag

Insulation rolls are delivered in bags. Reduction of required storage and transport space by nearly 50%. Furthermore, due to the decrease of size, they are easier to handle during work.

Each ISOPIPE Roll is being shrink-wrapped before it is put into bag, to ensure that the product remains sturdy during transportation.



ISOPIPE TC Rolls (Regular)



Synthetic rubber installation in form of rolls.

ü Can be applied easy and quick on the surface needed.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS / PACKAGING							
mm - inch	mm	m²	m²	m²	m²				
6 - 1/4"	± 1,0mm	30 x 1 = 30	30 x 1,20 = 36	30 x 1,25 = 37,5	30 x 1,50 = 45				
10 - 3/8"	± 1,5 mm	20 x 1 = 20	20 x 1,20 = 24	20 x 1,25 = 25	20 x 1,50 = 30				
13 - 1/2"	± 1,5 mm	14 x 1 = 14	14 x 1,20 = 16,80	14 x 1,25 = 17,50	14 x 1,50 = 21				
19 - 3/4"	± 1,5 mm	10 x 1 = 10	10 x 1,20 = 12	10 x 1,25 = 12,50	10 x 1,50 = 15				
25 - 1"	± 2,0 mm	8 x 1 = 8	8 x 1,20 = 9,60	8 x 1,25 = 10	8 x 1,50 = 12				
32 - 1 1/4"	± 2,0 mm	6 x 1 = 6	6 x 1,20 = 7,20	6 x 1,25 = 7,50	6 x 1,50 = 9				
36 - 1-7/16"	± 2,0 mm	5 x 1 = 5	5 x 1,20 = 6	5 x 1,25 = 6,25	5 x 1,50 = 7,50				
40 - 1-9/16"	± 2,0 mm	4 x 1 = 4	4 x 1,20 = 4,80	4 x 1,25 = 5	4 x 1,50 = 6				



ISOPIPE TC Rolls (Regular) with self adhesive

Synthetic rubber installation in form of rolls WITH self adhesive.

- ü Can be applied easy and quick on the surface needed.
- ü No need of gluing. Ideal for long ducts and in-accessible areas.
- ü Strong adhesive strength and easy to peel off silicon paper.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING		
mm - inch	mm	m	m²		
6 - 1/4"	± 1,0mm	30 x 1	30		
10 - 3/8"	± 1,5 mm	20 x 1	20		
13 - 1/2"	± 1,5 mm	14 x 1	14		
19 - 3/4"	± 1,5 mm	10 x 1	10		
25 - 1"	± 2,0 mm	8 x 1	8		
32 - 1 1/4"	± 2,0 mm	6 x 1	6		
36 - 1-7/16"	± 2,0 mm	5 x 1	5		
40 - 1-9/16"	± 2,0 mm	4 x 1	4		



 $[\]S$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

 $[\]S$ Standard length and width can vary $\pm 2 \%$

[§] Standard carton size is 206x106x11 cm

ISOPIPE TC Rolls (UV PLUS)



Synthetic rubber installation in form of rolls WITH UV PLUS protection.

- ü Maximum vapor barrier, protection and longevity of the product.
- ü Remain flexible, economical, attractive and UV resistant.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING		
mm - inch	mm	m	m²		
6 - 1/4"	± 1,0mm	30 x 1	30		
10 - 3/8"	± 1,5 mm	20 x 1	20		
13 - 1/2"	± 1,5 mm	14 x 1	14		
19 - 3/4"	± 1,5 mm	10 x 1	10		
25 - 1"	± 2,0 mm	8 x 1	8		
32 - 1 1/4"	± 2,0 mm	6 x 1	6		
36 - 1-7/16"	± 2,0 mm	5 x 1	5		
40 - 1-9/16"	± 2,0 mm	4 x 1	4		



- \S Standard length & width can vary ± 2 %
- § Standard bag size is 206x106x11 cm
 - ü Protection Thickness: aprx. 125µm
 - ü Layers: PET (Polyester) transparent film Aluminium foil PE (Polyethylene)

ISOPIPE TC Rolls (HD)

Synthetic rubber installation in form of rolls WITH HD protection.

- ü Maximum vapor barrier, protection and longevity of the product.
- ü Remain flexible, economical, attractive and UV resistant.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
6 - 1/4"	± 1,0mm	30 x 1	30
10 - 3/8"	± 1,5 mm	20 x 1	20
13 - 1/2"	± 1,5 mm	14 x 1	14
19 - 3/4"	± 1,5 mm	10 x 1	10
25 - 1"	± 2,0 mm	8 x 1	8
32 - 1 1/4"	± 2,0 mm	6 x 1	6
36 - 1-7/16"	± 2,0 mm	5 x 1	5
40 - 1-9/16"	± 2,0 mm	4 x 1	4



- § Standard length & width can vary ± 2 %
- § Standard bag size is 206x106x11 cm
 - ü Protection Thickness: aprx. 230µm
 - ü Layers: Transparent film Aluminium glossy PVC FR (Flame Retardant)





2. ISOPIPE HT





The new generation of high performance insulation!

ISOPIPE HT is the environmental solution for higher temperatures. Apart from a very good outdoor aging resistance it excels in applications where environmental issues (toxicity) are critical. The outstanding performance of the ISOPIPE HT material is guaranteed through continuing supervision and factory tests.



Density

ISOPIPE HT insulation is produced to give a density 70-85 kgr/m³.



Proper Fit

ISOPIPE HT ensures no gaps between insulation and pipe because of the proper and secure fitting. This is especially important in applications like air conditioning, refrigeration or cooling, where condensation on the surface of the pipe is prevented.



Operating Temperatures

Brief temperature spikes will not result in failure. ISOPIPE HT is sustainable in situations of extreme temperatures of **up to 175°C** [-40°C to +150°C (175°C)]



Flexibility

ISOPIPE HT remains flexible even at temperatures as high as 150°C and temporarily up to 175°C. It is also flexible at low temperatures. This allows for easy and fast application, effective insulation and at the same time provides excellent tear resistance.



Zero Ozone - Depleting Potential

ISOPIPE HT does not release any CFC's into the atmosphere in the event of fire.

Permeability

ISOPIPE HT's inherent structure & material offers a very high resistance to water vapor transmission. This ensures the long term performance & effectiveness of the insulation.

ü **μ > 4000**

Thermal Conductivity

As air (closed cells) & elastomeric material are poor conductors of heat, ISOPIPE HT significantly reduces the transfer of heat through its insulation.

 \ddot{u} $\lambda = 0.045W/mK$ at 40°C

Fire Rating

ISOPIPE HT has a very good fire behavior. It will not drip flaming particles. It provides safe insulation; an ideal choice for residential & public buildings.



Applicable in situations of:



0







Airbing Conditioning

Refrigeration

Solar

Available in forms of:









98

System S

Sheets

Rolls

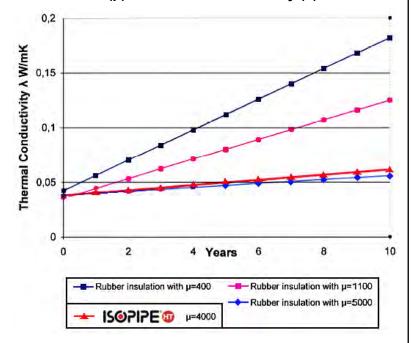
The influence of water vapor diffusion resistance index (μ) on thermal conductivity (λ)

Values:

Ambient Temperature: 36°C

Line Temperature: 0°C Relative Humidity: 60%

Insulation Thickness: 19mm



Л	MECHANICAL	AND THERMAL PROPERT	TIES of ISOPIPE HT
Property	Symbol	Technical Data	Measuring Method
Thermal Conductivity	λ	0°C - 0,040W/mK	EN 12667
		40°C - 0,045W/mK	EN ISO 8497
Permeability	μ	μ≥ 4000	EN 13469
resistance to water vapor transmission			EN 12086
Density	р	70 – 85 Kgr/m ³	prEN 13470
			EN 1602
UV Resistance		Very Good	ISO 4892-2
Fire Rating		E - s3, d0	EN 13823
			EN ISO 11945-2
Noise Reduction		up to 30dB	DIN 4109
CFC, HFC, HCFC		Free	
PVC		Free	
Odor		Neutral	

The written figures on these pages are these that have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special usage.

Certifications

We do not only meet but exceed technical & performance specifications set by the insulation & fire safety standards. All our certificates, awards and documents of conformity to independent global institutes are available as a single book for your convenience and reference.



b. Types of Protections

i. UV

Patented product (1004469) of 3i. Our specially developed polymer membrane cladding offers enhanced UV protection, vapor barrier and abrasive cover.

UV PROPERTIES

Permeability: Increased steam diffusion resistance (µ) more than 80%.

UV Protection: May not exhibit aesthetic surface defects for several years after prolonged

exposure to UV radiation.

Flexibility: Continuous long term performance.

Temp. Resistance: -30°C to +58°C

Lifespan (est.): 3-5 years

Added Benefits:

ü Aesthetically pleasing.

ü White color helps to detect mold faster.

ü Oil and grease resistant.

ü No need to tape, paint or cover and easily cleaned with a standard cloth.

ü Elastomeric body well protected against scratches and abrasions.

ü High weather resistant.

Applications:









Pipe

System

Sheets

Rolls



ii. UV PLUS

Closed cell elastomeric insulation dressed with an aluminium outer cover composed of three layers polyester, aluminium and polyethylene which provides resistance both to ultraviolet rays and atmospheric agents.

UV PLUS PROPERTIES

Thickness: $125 \mu m$ Weight: $135 gr/m^2$

Temp. Resistance: -30°C to +85°C

Lifespan (est.): +10 years

Permeability: Increased steam diffusion resistance (μ) more than 100%.

Flexibility: Continuous long term performance.

Added Benefits:

ü High UV protection with reflective properties.

ü Reduces risk of under insulation corrosion

ü Chemical and oil resistant.

ü Fast and easy installation, without requiring special equipment.

ü Aesthetically pleasing through its smooth and shiny appearance.

ü No need to tape, paint or cover. Easy to clean and maintain.

ü Can be cleaned with a standard cloth.

Applications:







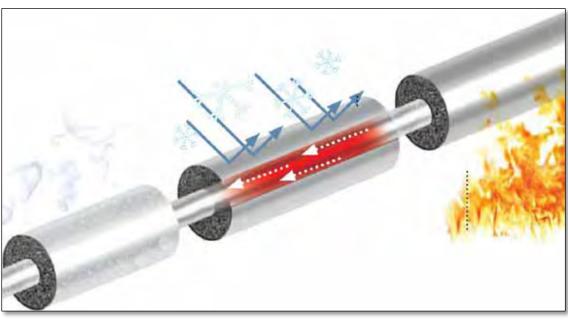


Pipes

S

Sheets

Rolls



iii. H D (HEAVY DUTY)

Superior aluminium covered insulation offering protection against mechanical damage, leakages and pipe corrosion. The coating consists of a double layer of aluminium, special UV protection and PVC backing. By using Heavy Duty protection, 50% of installation costs are saved as the insulation comes with the aluminium covering in a unified piece.

HD PROPERTIES

Thickness: $230 \mu m$ Weight: 340 gr/m^2

Temp. Resistance: -25°C to + 75°C

Lifespan (est.): +15 years

Permeability: Increased steam diffusion resistance (µ) more than **10 times**.

Cover Puncture: Very high puncture and wear resistance.

 \emptyset 0,8mm = 23N, \emptyset 2,0mm = 87N

Oxygen Index: 35% (Oxygen level in the air is nearly 20%) > Fire will not spread through

Added Benefits:

ü Excellent long term UV protection with extra reflective properties.

ü Reduces risk of under insulation corrosion.

ü Chemical, Oil, weather and wear resistant.

ü It is fire retardant and has two moisture barriers.

ü Aesthetically pleasing through its smooth and shiny appearance

ü Easy to clean and maintain. It can be cleaned with a standard cloth.

Applications:





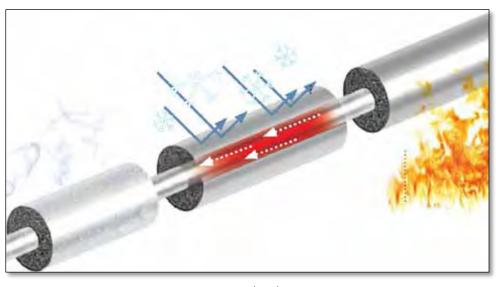




Pipe

Shee

Rolls









c. Product Range, Availability

i. Pipes (Regular)





EXTERNA	L PIPE DI	AMETER		INTERNAL DIAMETER		THI	CKNES	S & DI	MENSI	ON O	F INSU	JLATI	ON	
Fe	0	u	PP		9r	nm	13mm 19mm			25n	nm	301	mm	
					3/	/8"	1/2"		" 3/4		1'		1 1/4"	
Inch	mm	Inch		min - max	φ	m	φ	m	φ	m	Φ	m	φ	m
	Ф6	1/4"		6,5 – 7,5										
	Ф8	5/16"		8,5,0 - 9,5										
	Ф 10	3/8"		10,5 - 11,5	√	190	√	130	√	70				
	Ф 12			12,5 – 13,5	√	180	√	120	√	70				
	Ф 13	1/2"		13,5 - 14,5	*		*							
	Ф 14			14,5 - 15,5	*		*							
1/4"	Ф 15			15,5 - 16,5	√	140	√	100	V	50	√	40	V	30
	Ф 16	5/8"	Ф 16	16,5 - 17,5	*		*							
3/8"	Ф 18			18,5 - 19,5	√	130	√	90	√	50	*	40	*	30
	Ф 19	3/4"		19,5 - 20,5	*		*							
(16X1) WICU TALOS			Ф 20	20,5 - 21,5	*		*							
1/2"	Ф 22	7/8"		22,5 - 23,5	V	100	V	70	√	44	√	30	√	24
	Ф 25	1"	Ф 25	25,5 - 26,5	*		*		*	40				
3/4"	Ф 28	1 1/8"		28,8 - 29,5	V	80	V	60	V	40	√	26	√	24
	Ф 32	1 1/4"	Ф32	32,5 - 33,5	*		*						√	
1"	Ф 35	1 3/8"		35,5 - 36,5	√	70	V	44	√	30	√	24	√	18
	Ф 38	1 1/2"		38,5 - 39,5	*		*		*					
1 1/4"	Ф 42	1 5/8"	Ф 40	42,5 - 43,5	√	60	√	36	√	28	V	22	√	16
	Ф 45	1 3/4"		45,5- 46,5	*		*							
1 1/2"	Ф 48	1 7/8"		48,5 - 49,5	√	40	√	30	√	22	√	18	*	14
	Ф 54	2 1/8"	Ф 50	54,5 - 55,5	√	36	V	26	√	20	√	16	√	12
	Ф 57	2 1/4"		57,5 - 58,5	*		*							
2"	Ф 60	2 3/8"		60,5 - 61,5	V	36	√	24	V	16	√	12	*	10
	Ф 64	2 1/2"	Ф 63	64,5 - 65,5	√	32	V	22	V	16	*	12	*	10
	Ф 67	2 5/8"		67,5 - 69,5	*		*		*					
	Ф 70	2 3/4"		70,5 - 72,5	*		*		√	14			*	
2 1/2"	Ф 76	3"	Ф 75	76,5 - 78,5	√	24	√	20	√	14	V	10	*	10
	Ф 80	3 1/8"		80,5 - 82,5	*		*		*		*		V	
3"	Ф 89	3 9/16"	Ф 90	89,5 - 91,5	√	20	√	16	√	12	V	8	*	8
	Ф 101	4"		102,5 - 104,5	*	16	*		V	8	*	8	*	
3 1/2"	Ф 108	4 1/4"	Ф 110	109,5 - 111,5	*	16	*	16	*	8	*	6	*	
4"	Ф 114	4 9/16"		115,5 - 117,5	√	12	√	16	√	8	V	6	*	6
5"	Ф 139	5 1/2"		140,5 - 142,5	*		V		√		√	4	*	4
	Thic	kness Tolera	ance	ı	± 1.5	5 mm	± 1.5	mm	± 2,0	mm	± 2,0	mm	± 2.0) mm

 $[\]$ Dimensions marked with a $\$ should be consulted for price and availability

ISOPIPE HT Pipes (UV)



Synthetic rubber installation with UV protection.

EX	EXTERNAL PIPE DIAMETER				THICKNESS & DIMENSION OF INSULATION							
Fe	c	u	PP		9mm		13mm		19mm			
Inch	mm	Inch				3/8"		1/2"	;	3/4"		
mon				min - max	Φ	m	Φ	m	Φ	m		
	Ф6	1/4"		7,0 - 8,0	*	270	*	156	*	84		
	Ф 10	3/8"		11,0 - 12,0	√	190	√	130	√	70		
	Ф 12			13,0 - 14,0	√	180	√	120	√	70		
1/4"	Ф 15			16,0 - 17,0	√	140	√	100	√	50		
3/8"	Ф 18			19,0 - 20,0	√	130	√	90	√	50		
1/2"	Ф 22	7/8"		23,0 - 24,0	*	100	*	70	*	44		
	Ф 25	1"	Ф 25	26,0 - 27,0	√	80	√	60				
3/4"	Ф 28	1 1/8"		29,0 - 30,0	√	80	√	60	√	40		
1"	Ф 35	1 3/8"		36,0 - 37,0	√	70	√	44	√	30		
1 1/4"	Ф 42	1 5/8"	Ф 40	43,0 - 44,0			√	36	√	28		
	TI	nickness Tolera	nce		± ′	1,5 mm	±	1,5 mm	± 2,0 mm			

[§] Dimensions marked with a * should be consulted for price and availability

ISOPIPE HT Pipes (UV PLUS)



Synthetic rubber installation with UV PLUS protection.

EXTERNAL	L PIPE DIAM	IETER			THIC	KNESS 8	k DIMENS	SION OF	INSULA	TION		
Fe	Cu		Cu 9mm 3/8"			13mm 1/2"		19mm 3/4"		25mm 1"		mm 1/4"
Inch	mm	Inch	Φ	m	Φ	m	Φ	m	Φ	m	Φ	m
	Ф6	1/4"	√	270								
	Ф 10	3/8"	√	190	1	130	√	70				
	Ф 12		√	180	√	120	√	70				
1/4"	Ф 15		√	140	1	100	√	50	V	40	V	30
3/8"	Ф 18		V	130	√	90	V	50	V	40	V	30
1/2"	Ф 22	7/8"	√	100	1	70	V	44	V	30	V	24
3/4"	Ф 28	1 1/8"	√	80	√	60	√	40	√	26	V	24
1"	Ф 35	1 3/8"	√	70	√	44	V	30	V	24	V	18
1 1/4"	Ф 42	1 5/8"	√	60	√	36	V	28	V	22	V	16
1 1/2"	Ф 48	1 7/8"	√	40	√	30	√	22	V	18	*	14
	Ф 54	2 1/8"	V	36	√	26	V	20	V	16	V	12
2"	Ф 60	2 3/8"	√	36	1	24	√	16	V	12	*	10
	Ф 64	2 1/2"	√	32	1	22	√	16	V	12	*	10
2 1/2"	Ф 76	3"	√	24	√	20	√	14	√	10	*	10
3"	Ф 89	3 9/16"	√	20	1	16	V	12	1	8	*	8
	Ф 101	4"	√	16	1	16	V	8	*	8		
3 1/2"	Ф 108	4 1/4"	√	16	√	16	*	8	*	6		
4"	Ф 114	4 9/16"	√	12	1	16	1	8	V	6		
5"	Ф 139	5 1/2"	√		1	8	√	6	V			
Thickr	ness Tolerance		± 1,	5 mm	± 1,5	5 mm	± 2,0) mm	± 2,0	mm	± 2,	0 mm

ISOPIPE HT Pipes (HD)



Synthetic rubber installation with HD protection.

EXTERNAL	EXTERNAL PIPE DIAMETER INTERNAL DIAMETER					THICKNESS & DIMENSION OF INSULATION								
Fe	С		PP	DIAMETER	9m 3/a		13n			mm '4"		mm "		mm /4"
Inch	mm	Inch		min - max	φ	m	Φ	m	Φ	m	φ	m	φ	m
	Ф 10	3/8"		11,0 - 12,0	V	190	V	130	√	70				
	Ф 12			13,0 - 14,0	V	180	V	120	√	70				
1/4"	Ф 15			16,0 - 17,0	V	140	V	100	√	50	√		V	
	Ф 16	5/8"	Ф 16	17,0 - 18,0	*		*							
3/8"	Ф 18			19,0 - 20,0	V	130	√	90	V	50	*	40	*	30
(16X1) WICU TALOS			Ф 20	21,0 - 22,0	*		*							
1/2"	Ф 22	7/8"		23,0 - 24,0	V	100	V	70	V	44	√	30	√	24
	Ф 25	1"	Ф 25	26,0 - 27,0	*		*		*				*	
3/4"	Ф 28	1 1/8"		29,0 - 30,0	V	80	V	60	V	40	√	26	V	24
	Ф 32	1 1/4"	Ф32	33,0 - 34,0	*		*							
1"	Ф 35	1 3/8"		36,0 - 37,0	V	70	V	44	V	30	V	24	V	18
	Ф 38	1 1/2"		39,0 - 40,0	*		*		*					
1 1/4"	Ф 42	1 5/8"	Ф 40	43,0 - 44,0	√	60	V	36	V	28	√	22	V	16
	Ф 45	1 3/4"		46,0- 47,0	*		*							
1 1/2"	Ф 48	1 7/8"		49,0 - 50,0	V	40	V	30	V	22	√	18	*	14
	Ф 54	2 1/8"	Ф 50	55,0 - 56,0	V	36	V	26	√	20	V	16	V	12
	Ф 57	2 1/4"		58,0 - 59,0	*		*							
2"	Ф 60	2 3/8"		61,0 - 62,0	V	36	V	24	V	16	√	12	*	10
	Ф 64	2 1/2"	Ф 63	65,0 - 66,0	V		V		V	16	*		*	
	Ф 67	2 5/8"		68,0 - 70,0	*		*		*					
	Ф 70	2 3/4"		71,0 - 73,0									*	
2 1/2"	Ф 76	3"	Ф 75	77,0 - 79,0	\checkmark	24	V	20	V	14	√	10	*	10
	Ф 80	3 1/8"		81,0 - 83,0	*		*		*		*		V	
3"	Ф 89	3 9/16"	Ф 90	90,0 - 92,0	√	20	V	16	V	12	√	8	*	8
	Ф 101	4"		103,0 - 105,0	*	16	*	16	V	8	*		*	
3 1/2"	Ф 108	4 1/4"	Ф 110	110,0 - 112,0	*	16	*	16	*		*	6	*	
4"	Ф 114	4 9/16"		116,0 - 118,0	√	12	V	16	V	8	√	6	*	
	Ф 125	5"		128,0 - 130,0	√	12	V		√					
5"	Ф 139	5 1/2"		141,0 - 143,0	√		V		√	6				
	Thickness	Tolerance			± 1,5	mm	± 1,5	mm	± 1,5	5 mm	± 1,5	mm	± 1,5	5 mm

- \$ Standard length for ISOPIPE HT and ISOPIPE HT UV is 2 m (± 1.5 %)
- \$ Standard length for ISOPIPE HT UV PLUS and ISOPIPE HT HD is 95 cm (± 1.5 %)
- \S Dimensions marked with a * should be consulted for price and availability
- ü Protection Thickness: aprx. 230 µm
- ü Layers: Transparent film Aluminium glossy PVC FR (Flame Retardant)

ii. ISOPIPE HT System (Regular, UV PLUS, HD)

Pre-slanted cut elastomeric sheets for large bore pipes.

		THICKNESS & DIMENSION OF INSULATION								
OD	OD	13mm	19mm	25mm	32mm	40mm				
		1/2"	3/4"	1"	1 1/4"	1 9/16"				
mm	Inch	Φ	Φ	Ф	Φ	Φ				
Ф 89	3"	√	√	√	√	V				
Ф 101		√	√	√	√	√				
Ф 108		√	√	√	√	√				
Ф 114	4"	√	√	√	√	√				
Ф 127		√	√	√	√	√				
Ф 133		√	√	√	√	√				
Ф 139	5"	√	√	√	√	√				
Ф 152		√	√	√	√	√				
Ф 156		√	√	√	√	√				
Ф 160		√	√	√	√	√				
Ф 168	6"	√	√	√	√	√				
Ф 203		√	√	√	√	√				
Ф 219	8"	√	√	√	√	√				
Ф 254		√	√	√	√	√				
Ф 273	10"	√	√	√	√	√				
Ф 305		√	√	√	√	√				
Ф 323	12"	√	√	√	√	√				
Ф 356	14"	√	√	√	√	√				
Ф 406	16"	√	√	√	√	√				
Ф 457	18"	√	√	V	√	√				
Ф 508	20"	√	√	√	√	√				
Thickness	Tolerance	± 1,5mm	± 1,5 mm	± 2,0 mm	± 2,0 mm	± 2,0 mm				



- \S Standard length 1 meter (± 1.5 %)
- § Standard carton size is 104x51x62 cm
- § ISOPIPE HT SYSTEM can also be offered with SLIT & SEAL tapes, including two self-adhesive and one overlap tape.

ISOPIPE HT System (UV PLUS)

- ü Protection Thickness: aprx. 125µm
- ü Layers: PET (Polyester) transparent film Aluminium foil PE (Polyethylene)

ISOPIPE HT System (HD)

- ü Protection Thickness: aprx. 230µm
- ü Layers: Transparent film Aluminium glossy PVC FR (Flame Retardant)

iii. ISOPIPE HT Sheets (Regular, UV PLUS, HD)



Synthetic rubber installation in form of sheets.

At a construction site technicians often need to work and install insulation along roofs or hard to get and small areas. ISOPIPE HT Sheets are manufactured to withstand the stress during any installation and operation. They still offer elasticity to allow the material to be formed by the technician into the desired shape. All sheets are delivered **pre-cut** at the **standard size of 2x1 m**.

Added Benefits:

- ü **Easy to handle, transport and store** due to the 1 meter package and easy to carry carton.
- ü Available with the option of self-adhesive AND/OR aluminium protection foil.

ISOPIPE HT Sheets (Regular)

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6



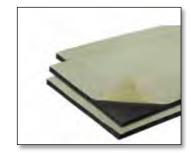
- § Standard length and width can vary ± 2 %
- § Standard carton size is 206x106x11 cm

ISOPIPE HT Sheets (Regular) with self adhesive

Synthetic rubber installation in form of sheets WITH self adhesive.

- ü No need of glue to stick it on the surface, no waste of time.
- ü Strong adhesive strength and easy to peel off silicon paper.
- ü Ideal for long ducts and in-accessible areas.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING		
mm - inch	mm	m	m²		
10 - 3/8"	± 1,5 mm	2 x 1	20		
13 - 1/2"	± 1,5 mm	2 x 1	14		
19 - 3/4"	± 1,5 mm	2 x 1	10		
25 - 1"	± 2,0 mm	2 x 1	8		
32 - 1 1/4"	± 2,0 mm	2 x 1	6		



- \S Standard length and width can vary ± 2 %
- § Standard carton size is 206x106x11 cm

ISOPIPE HT Sheets (UV PLUS)



Synthetic rubber installation in form of sheets WITH UV PLUS protection.

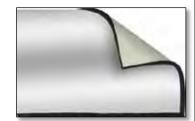
THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6



ISOPIPE HT Sheets (UV PLUS) with self adhesive

Synthetic rubber installation in form of sheets WITH UV PLUS protection and with self adhesive.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6



ü Protection Thickness: aprx. 125µm

ü Layers: PET (Polyester) transparent film - Aluminium foil PE (Polyethylene)

 $[\]$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

[§] Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

ISOPIPE HT Sheets (HD)

Synthetic rubber installation in form of sheets WITH HD protection.



THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6



ISOPIPE HT Sheets (HD) with self adhesive

Synthetic rubber installation in form of sheets WITH HD protection and self adhesive.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	2 x 1	20
13 - 1/2"	± 1,5 mm	2 x 1	14
19 - 3/4"	± 1,5 mm	2 x 1	10
25 - 1"	± 2,0 mm	2 x 1	8
32 - 1 1/4"	± 2,0 mm	2 x 1	6



ü Protection Thickness: aprx. 230µm

ü Layers: Transparent film - Aluminium glossy - PVC FR (Flame Retardant)

 $[\]S$ Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

[§] Standard length and width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

iv. ISOPIPE HT Rolls



Synthetic rubber installation in form of rolls.

At a construction site, technicians often need to work and install insulation along roofs or hard to get and small areas. Our ROLLS are manufactured to withstand the stress during installation and at the same time offer enough elasticity to allow the material to be formed by the technician.

ISOPIPE HT Rolls (Regular)

Synthetic rubber installation in form of rolls.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS			
mm - inch	mm	m	m	m	m
10 - 3/8"	± 1,5 mm	20 x 1 = 20	20 x 1,20 = 24	20 x 1,25 = 25	20 x 1,50 = 30
13 - 1/2"	± 1,5 mm	14 x 1 = 14	14 x 1,20 = 16,80	14 x 1,25 = 17,50	14 x 1,50 = 21
19 - 3/4"	± 1,5 mm	10 x 1 = 10	10 x 1,20 = 12	10 x 1,25 = 12,50	10 x 1,50 = 15
25 - 1"	± 2,0 mm	8 x 1 = 8	8 x 1,20 = 9,60	8 x 1,25 = 10	8 x 1,50 = 12
32 - 1 1/4"	± 2,0 mm	6 x 1 = 6	6 x 1,20 = 7,20	6 x 1,25 = 7,50	6 x 1,50 = 9



ISOPIPE HT Rolls (Regular) with self adhesive

Synthetic rubber installation in form of rolls WITH self adhesive.

- ü Can be applied easy and quick on the surface needed.
- ü No need of gluing. Ideal for long ducts and in-accessible areas.
- ü Strong adhesive strength and easy to peel off silicon paper

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	20 x 1	20
13 - 1/2"	± 1,5 mm	14 x 1	14
19 - 3/4"	± 1,5 mm	10 x 1	10
25 - 1"	± 2,0 mm	8 x 1	8
32 - 1 1/4"	± 2,0 mm	6 x 1	6



[§] Standard length & width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

[§] Standard length & width can vary ± 2 %

[§] Standard carton size is 206x106x11 cm

ISOPIPE HT Rolls (UV PLUS)



Synthetic rubber installation in form of rolls WITH UV PLUS protection.

- ü Maximum vapor barrier, protection and longevity of the product due to the aluminium cover.
- ü Remain flexible, economical, attractive and UV resistant.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	20 x 1	20
13 - 1/2"	± 1,5 mm	14 x 1	14
19 - 3/4"	± 1,5 mm	10 x 1	10
25 - 1"	± 2,0 mm	8 x 1	8
32 - 1 1/4"	± 2,0 mm	6 x 1	6



- § Standard length & width can vary ± 2 %
- § Standard carton size is 206x106x11 cm
 - ü Protection Thickness: aprx. 125µm
 - ü Layers: PET (Polyester) transparent film Aluminium foil PE (Polyethylene)

ISOPIPE HT Rolls (HD)

Synthetic rubber installation in form of rolls WITH HD protection.

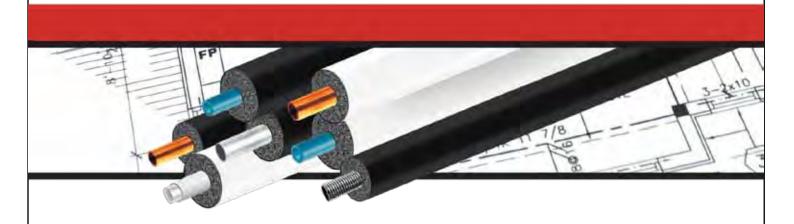
- ü Maximum vapor barrier, protection and longevity of the product due to the aluminium cover.
- ü Remain flexible, economical, attractive and UV resistant.

THICKNESS	THICKNESS TOLERANCE	DIMENSIONS	PACKAGING
mm - inch	mm	m	m²
10 - 3/8"	± 1,5 mm	20 x 1	20
13 - 1/2"	± 1,5 mm	14 x 1	14
19 - 3/4"	± 1,5 mm	10 x 1	10
25 - 1"	± 2,0 mm	8 x 1	8
32 - 1 1/4"	± 2,0 mm	6 x 1	6



- § Standard length & width can vary ± 2 %
- § Standard carton size is 206x106x11 cm
 - ü Protection Thickness: aprx. 230µm
 - ü Layers: Transparent film Aluminium glossy PVC FR (Flame Retardant)

ISOTUBE®



3. ISOTUBE

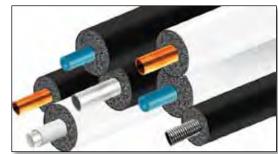


Saving time. Saving money. The complete solution for professionals.

Continuing on the path of innovation, 3i designed ISOTUBE.

The absolute, effective and reliable pre-insulated pipe system.

ISOTUBE combines our own vertically produced superior insulation with our expertise in pre-insulating pipes in order to offer a high value, convenient service. The method is based on the **push-in principle** as opposed to the cut-in principle to ensure a perfect fit.



ISOTUBE is both lightweight and flexible and can be installed easily and extreme quickly in commercial and residential applications without worrying about covers or obstacles.

Added Benefits:

- ü Lightweight, robust and flexible.ISOTUBE is easy to transport and install.
- ü ISOTUBE meets standards for sustainable construction.
- Ü ISOTUBE is marked at meter intervals enabling you to cut and use the exact amount of material needed.
- Ü ISOTUBE helps saving time of every professional providing the most rapid laying.

ISOTUBE makes life easier!

- ü NO Measuring.
- ü NO Cutting.
- ü NO Joining.
- ü NO Gluing.





Perfect Fit

ISOTUBE is perfectly fitted around the pipe preventing even the slightest loss of energy.

3i provides the following pipes with the ISOTUBE pre-insulated solution:

ü ISOPIPE TC or ISOPIPE HT without protection:6mm, 9mm, 13mm and 19mm



ISOTUBE TC / HT with PEX-AL-PEX Pipes (Φ12 - Φ20)



ISOTUBE TC / HT with POLYETHYLENE Pipes (Φ12 - Φ22)



ISOTUBE TC / HT with COPPER Pipes (6mm - 22mm, 1/4" 3/4")



ISOTUBE TC / HT with INOX Pipes (Φ6 - Φ20) U ISOPIPE TC or ISOPIPE HT with UV protection6mm, 9mm, 13mm and 19mm



ISOTUBE TC / HT UV with PEX-AL-PEX Pipes (Φ12 - Φ20)



ISOTUBE TC / HT UV with POLYETHYLENE Pipes (Φ12 - Φ22)



ISOTUBE TC / HT UV with COPPER Pipes (6mm - 22mm, 1/4" 3/4")



ISOTUBE TC / HT UV with INOX Pipes (Φ6 - Φ20)

- ü ISOTUBE is manufactured in a standard length of 50 m.
 - ü Shorter lengths are available upon request.
- ü Pipes of YOUR CHOICE, can also be used!

ISOSOUND®



4. ISOSOUND



The new effective way of absorbing sound!

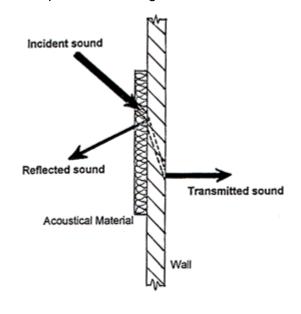
ISOSOUND is a brand new high performance acoustic insulation, designed for demanding applications. The structure, formulation and composition of the material can offer a very high acoustic energy absorption in a given thickness when compared with traditional sound insulation materials.

This allows great variability in designing the space consumption and the sound absorption.



Understanding Sound & Noise

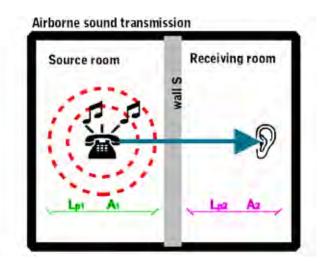
Environmental noise (traffic, airplanes, industry, construction, trains etc.) is produced by man's activity. This noise is often called as unwanted sound. We experience it in our homes, at work, during travel, even during our relax time. Everybody is seeking for a more quieter environment, because too much or unwanted noise is causing stress, irritation, interference and at the same time decreases life quality. Sound can be transferred from one part of a building to another.



There are various types of sound transmissions:

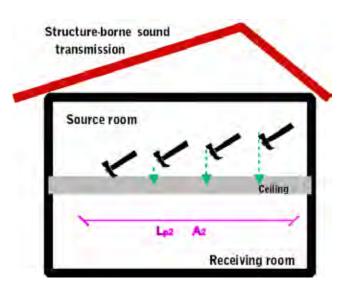
Airborne transmission

A noise source in one room sends air pressure waves which induce vibration to one side of a wall setting it moving such that the other face of the wall vibrates in an adjacent room. Structural isolation therefore becomes an important consideration in the acoustic design of buildings. The most important acoustic control method is adding mass into the structure, which will reduce airborne sound transmission better than a light one.



Structure-borne transmission

A noise source (e.g. footsteps) in one room results from an impact of an object onto a separating surface (e.g. floor) and transmits the sound to another room. Acoustic control measures usually include attempts to isolate the source of the impact, or cushioning it, like carpets for example.



Flanking transmission

The resultant vibrations from a noise source are

transmitted to other rooms by elements of structure within the building. For example, in a steel framed building, once the frame itself is set into motion the effective transmission can be pronounced.

Cell Structure

ISOSOUND's open cell structure with its complex pore geometry allows the effective absorption of airborne and structure-borne sound.

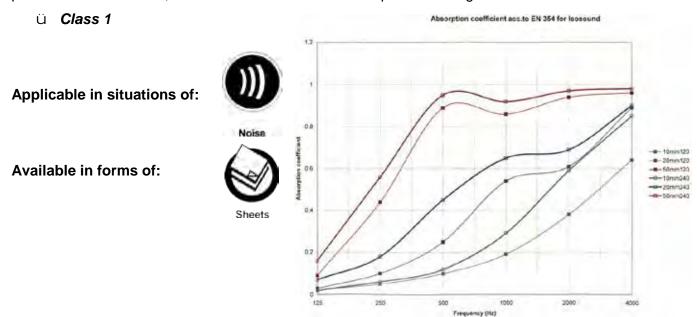


Density

ISOSOUND insulation is produced to give a structure of **150 kgr/m³ or 250 kgr/m³**. This offers valuable sound transmission loss properties.

Fire Rating

ISOSOUND has a very good fire behavior. It will not drip flaming particles nor will it spread flames. It provides safe insulation; an ideal choice for residential & public buildings.



MECHANICAL AND THERMAL PROPERTIES of ISOSOUND						
Property	Symbol	Technic	Measuring Method			
		for 150 kgr/m ³	for 250 kgr/m ³	EN 12667		
		10°C - 0,039W/mK	10°C - 0,042W/mK	EN ISO 8497		
Thermal Conductivity	λ	20°C - 0,038W/mK	20°C - 0,041W/mK			
		30°C - 0,040W/mK	30°C - 0,043W/mK			
		40°C - 0,042W/mK	40°C - 0,048W/mK			
Density	n	150 kgr/m³		orEN 12470 EN 1602		
Delisity	р	250 kg	gr/m³	prEN 13470, EN 1602		
Elogation at Strength	Pa	40% 55%		EN ISO 1798		
Temperature Resistance	°C	-40°C to +85°C				
Fire Rating		Low Flam	e Spread	EN ISO 4589-2		
		Class 1		BS 476 p.6 & p.7, DIN 4102 B2		
Noise Reduction		up to 55dB		DIN 4109		
CFC, HFC, HCFC		Free				
Odor		Neutral				

The written figures are these that have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special usage.

Certifications

We do not only meet but exceed technical & performance specifications set by the insulation & fire safety standards. All our certificates, awards and documents of conformity to independent global institutes are available as a single book for your convenience and reference.



Additional technical data and product range of ISOSOUND upon request!

ISOPIPE® Accessories



5. ISOTAPE, ISOCOVER, ISOGLUE, ISOFINISH ELBOWS, TEE



ISOTAPE – Self adhesive fastening tape

- ü Should not be used as the sole joining.
- ü Do not apply tight or compress the insulation, as compression may compromise the effectiveness of the insulation itself.
- ü Is applied over the glued ends/joints 36 hours after application, when the glue is totally dry and solvent completely evaporated.
- ü Available as Aluminium, UV (White or Black), UV Plus or HD.

4	
1	

DESCRIPTION	LENGTH	WIDTH	PACKING
	m	mm	Pcs/Crtn
Aluminium tape	40 m	30 mm	50
Aluminium tape	40 m	50 mm	50
UV White Polymer	33 m	50 mm	80
UV Black Polymer	33 m	50 mm	80
UV Plus Pet-Al-Pe	10 m	50 mm	70
UV Plus Pet-Al-Pe	25 m	50 mm	40
UV Plus Pet-Al-Pe	30 m	50 mm	40
UV Plus Pet-Al-Pe	50 m	50 mm	35
Heavy Duty Pet-Al-PVC	25 m	50 mm	35





ISOTAPE – Self adhesive insulation tape

- ü Highly effective and strong adhesive tape is used for insulating difficult areas or gaps between insulation.
- ü Should not be used as the sole joining.
- ü Do not apply tight as it may compromise the effectiveness of the insulation itself.
- ü Is applied over the glued ends or joints 36 hours after application, when the glue is totally dry and solvent completely evaporated.

DESCRIPTION	LENGTH	WIDTH	THICKNESS	PACKING
	m	mm	mm	Pcs/Crtn
TC Insulation S/A tape	10 m	50 mm	3 mm	36
TC Insulation S/A tape	15 m	50 mm	3 mm	12
TC Insulation S/A tape	30 m	50 mm	3 mm	10



ISOCOVER – Self adhesive

- ü Highly effective and strong adhesive cover in1 meter length.
- Ü Ideal for confined or restricted working areas and for already installed pipe systems, where insulation cannot be threaded and must be clamped around the existing pipes.
- ü Available as UV Plus or HD.

DESCRIPTION	LENGTH	WIDTH
	m	m
UV Plus Pet-Al-Pe	10 m	1 m
UV Plus Pet-Al-Pe	25 m	1 m
Heavy Duty Pet-Al-PVC	10 m	1 m
Heavy Duty Pet-Al-PVC	25 m	1 m

ISOGLUE – Black or Neutral

- ü Fully compatible glue for joining ISOPIPE insulation.
- ü Achieving strong and homogenous rubber bonding.

DESCRIPTION	PACKING Pcs/Crtn
Isoglue 250 ml with Brush	24
Isoglue 500 ml	24
Isoglue 1000 ml	12
Isoglue 5 It	4

ISOCLUE 255 ISOCLUE 255 ISOCLUE 255 ISOCLUE 255

ISOFINISH – White protective paint

- ü This polyurethane based paint offers protection against UV rays.
- ü Gives an aesthetic coating over the insulation.

DESCRIPTION	PACKING Pcs/Crtn
Isofinish 1 kg	12
Isofinish 5 ka	4







ELBOWS 90°





PIPE OYT DIAMETER	INSULATION THICKNESS							
Ø mm	9 mm	13 mm	15 mm	20 mm	25 mm	30 mm	32,5 mm	40 mm
12		$\sqrt{}$	√	√*				
15		$\sqrt{}$						
18	√	$\sqrt{}$	√	√ *	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
22	√	$\sqrt{}$	√	√ *	√ *	V		√ *
28		√	√	√	√	√		V
35		√	√	√	√	√		√ *
42			√*	√*	√	V		V
48			√	√	√	√		√ *
54			√	√		V		
60			√	√	√	√		√ *
64				√		V		
70				√	√	V		V
76			√	√	√	√	\checkmark	√ *
89				√	√	V	\checkmark	√ *
102				√	√	V		V
108				$\sqrt{}$	\checkmark	V		$\sqrt{}$
133					√	V		$\sqrt{}$
140					√	√		V
159					√	√		1
168					√	√		1
194						√		V
219					√	√		V

 $^{\ \ \ \}$ Dimensions marked with a * are also available as 45°

TEE



DIMENSIONS
axbxa
Ø mm
52 x 52 x 52
57 x 52 x 57
57 x 57 x 57
61 x 52 x 61
61 x 57 x 61
61 x 61 x 61
67 x 52 x 67
67 x 57 x 67
67 x 61 x 67
67 x 67 x 67
73 x 52 x 73
73 x 57 x 73
73 x 61 x 73
73 x 67 x 73
73 x 73 x 73
82 x 52 x 82
82 x 57 x 82
82 x 61 x 82
82 x 67 x 82
82 x 73 x 82
82 x 82 x 82
88 x 82 x 88
88 x 57 x 88
88 x 61 x 88
88 x 67 x 88
88 x 73 x 88
88 x 82 x 88
88 x 88 x 88

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Certifications

International certificates of quality and test reports

III - Certifications

1. Complete List of ISOPIPE Certifications

COUNTRY	REGULATION
(EU)	High Quality Award
(BE)	ISO 9001:2008 Certificate
(GR)	Invention Pattern
(DE)	DIN 1988 T7
(LV)	Quality Certificate
(RU)	Certificate Of Compliance
(RU)	Sanitary Certificate
(ES)	ISOPIPE UV 30x35, Weather Certificate
(ES)	ISOPIPE UV Plus 30x42, Weather Certificate
, ,	
(BE)	EC TYPE 96/98 (WHEELMARK) - Quality System
, ,	, , , , ,
(GR)	Thermal Conductivity "λ" UV
` '	Thermal Conductivity "λ" TC
` '	Thermal Conductivity "λ"
	Thermal Conductivity "λ"
	Thermal Conductivity "λ", Fire Rating Steam Diffusion
. ,	, .
(LV)	Permeability Index (µ)
, ,	, , , ,
(UK)	BS class 0
` '	BS 476 part 7
	BS 476 part 6
	ISOPIPE Sheet, DIN 4102 - B1
` '	ISOPIPE SBI Pipe, DIN 4102 - B1
` '	ISOPIPE SBI Sheets, DIN 4102-B1
(DE)	ISOPIPE Sheets, Class M1 NF
(DE)	IMO. RES. MSC 61 (67), FTP Code, Annex 1, Part 5
(DE)	ISOPIPE TC, DIN 4102 - B2
(DE)	ISOPIPE HT, EN 14707:2005
(DE)	ISOPIPE UV, DIN 4102 - B2
(FR)	ISOPIPE TC (Pipes, Coil, SBI, Tech), Class M1 NF
(FR)	ISOPIPE TC, Class M1 NF
1	Class 1 UNI 845 (1987)
(IT)	Class 1 UNI 8457-9174 (1987)
(IT)	Class 1 UNI 9176 (1998)
(FI)	Through Wall Withstand Fire, 30-120 min
(SWE)	Through Wall Withstand Fire, 30-120 min & SBI
1	EN ISO 11925-2 & EN 13823
(LV)	Fire Rating
(RU)	Fire Certificate
	(EU) (BE) (GR) (DE) (LV) (RU) (RU) (RU) (ES) (ES) (BE) (GR) (GR) (GR) (GR) (RO) (RO) (LV) (UK) (UK) (UK) (DE) (DE) (DE) (DE) (DE) (DE) (FR) (FR) (FR) (IT) (IT) (SWE) (NL)

 $[\]S$ Should you need any specific certificate or our complete book, please contact us.











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Page 1 of 1



Useful Information

Safety Data Sheets
Packaging Measurements
Label Instructions
Calculation Software



IV - Useful Information

1. Safety Data Sheets

a. ISOPIPE, ISOSHEET, ISOROLL

SAFETY DATA SHEET, according to European Directive 2001/58/EC

1. Product and company Identification

Product identification: ISOPIPE/ISOROLLS/ISOSHEETS

Description: Flexible thermal insulation material

Manufacturer: 3i S.A.

Plant: 68 Km Nat. Rd. Athens-Lamia, 341 00 Ritsona – Halkida, T: +30 22620 89800, F: +30 22620 72006 **Head office**: Nafpliou & Daskalogiani, 144 52 Metamorfosi Attikis, T: +30 210 2844555, F: +30 210 2819210

E-mail: info@isopipe.gr, www.isopipe.gr

2. Composition / Information on ingredients

Expanded, cross linked, synthetic rubber in several sizes and forms.

3. Hazards identification

The product is not hazardous to health or environment according to EC criteria

4. First aids measures

Inhalation: Ingredients are bound to rubber and no inhalation problems occur.

Ingestion: Product is not intended to be ingested or eaten. In case of swallowing do not

induce vomiting. Consult physician if patient not well.

Contact with Skin: Not established
Contact with eyes: Not established

5. **Fire-fighting measures -** Product are not flammable and will not support fire.

Flash point N/A

Extinguishing media: Foam, CO₂, water

Exposure hazards: Material is stable under normal conditions. In the event of a prolonged fire, as with

all organic materials, smoke containing carbon monoxide, dioxide and water

evolved together with small quantities of other gases.

Special equipment: Firefighters should wear protective clothing, eye protection and self contained

breathing apparatus.

6. Accidental release measures

Personal precautions:

Environmental precautions:

None

Methods for cleaning up: Sweep up or whatever convenient

Disposal: Normal industrial waste

7. Handling and storage

Handling: None under normal processing

Storage: Keep the product dry and away from sunlight

8. Exposure control-Personal protection

Not applicable

9. Physical and chemical properties

General information: Closed cell elastomeric tube or sheet

Color: Black
Odor: Neutral

PH value:

Boiling point/boiling range:

Melting point/melting range:

Inapplicable

Melting point/melting range:

Inapplicable

Inapplicable

Oxidizing properties:

Not applicable

Explosive properties:

Not applicable

Density:

65-70 kgr/m³

Water solubility/flat solubility: Practically not soluble

Partition coefficient N-octanol/water: Not applicable

Content of solvents: 0 %

10. Stability and reactivity

Conditions to avoid: Temperature above to 150°C Materials to avoid: No known materials to avoid

Hazardous decomposition products: Carbon monoxide, dioxide, sulphonated hydrocarbons, acid chlorhydric, antimony

halides

11. Toxicological information

Inhalation: See under heading 4 – First Aid Measures
Eye contact: See under heading 4 – First Aid Measures

Skin contact: Not harmful

12. Ecological information

Product degrades slowly in the presence of sunlight. Does not contain CFC or evolve gasses which will damage the ozone layer, or contribute to ground level ozone pollution

13. Disposal considerations

Product may be disposed off as normal industrial waste or under local regulations. Empty carton boxes should be taken for local recycling, recovery or waste disposal.

14. Transport information

Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

No labeling is required in accordance with the EEC directive.

16. Other information

Recommended uses and restrictions: Product is manufactured upon inquiry for end use as thermal insulation for

specified applications.

This information herein is presented in good faith and believed to be accurate. It is based on raw material technical data, current knowledge and experience. The purpose of this Safety Data Sheet is to describe the product in terms of its safety requirements and no warranty, expressed or implied is given. The above details do not imply any guarantee concerning composition, properties or performance.

b. ISOGLUE

SAFETY DATA SHEET, according to European Directive 2001/58/EC

1. Product and company Identification

Product identification: ISOGLUE 255

Description: Solvent Based Adhesive

Manufacturer: 3i S.A.

Plant: 68 Km Nat. Rd. Athens-Lamia, 341 00 Ritsona – Halkida, T: +30 22620 89800, F: +30 22620 72006 **Head office**: Nafpliou & Daskalogiani, 144 52 Metamorfosi Attikis, T: +30 210 2844555, F: +30 210 2819210

E-mail: info@isopipe.gr, www.isopipe.gr

2. Composition / Information on ingredients

Chemical name CAS No.
Hexane 110-54-3
Acetone 67-64-1
Ethyl acetone 107-87-9
Polychloroprene 9010-98-4

3. Hazards identification

Harmful by inhalation. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

4. First aids measures

Inhalation: If vapor is inhaled in high concentrations, move affected individual to fresh air and

keep him warm, let him rest. If there is difficulty in breathing, call a doctor

Ingestion: Product is not intended to be ingested or eaten. If it is ingested, severe irritation of

the gastrointestinal tract may occur and should be treated symptomatically. In case

of swallowing do not induce vomiting. Consult a doctor immediately.

Contact with Skin: Remove contaminated clothes immediately and wash skin with a cleanser and

plenty of warm water. Consult a doctor in the event of skin irritation.

Contact with eyes: Flush eyes for at least 10 minutes while holding eye lids open. Contact a doctor.

5. Fire-fighting measures

Product is flammable and contains flammable solvents. It should be used only in well ventilated areas away from heat, sparks, naked flames and other ignition sources.

Flash point 35-45 °C

Extinguishing media: Foam, CO₂, Water

Exposure hazards: Material is stable under normal conditions. In the event of a prolonged fire,

formation of carbon monoxide, dioxide, hydrocarbons, chlorine and small

quantities of other gases is possible.

Special protective equipment: Firefighters must wear protective clothing, full face protection and self contained

breathing apparatus. Inhalation of combustion products should be avoided.

6. Accidental release measures

Personal precautions: Wear full-protective clothing and respiratory protection as required maintaining

exposures during clean-up below the applicable exposure limits.

Environmental precautions: Do not discharge spillage into drains.

Methods for cleaning up: Cover remainders with wet absorbent (e.g. sand etc). After aprox. one waste

container and do not seal. Keep damp in safe ventilated area for several days.

7. Handling and storage

Handling: Avoid contact with skin and eyes. Do not smoke, eat and drink at the work place.

The working place must be ventilated.

Storage: Keep the product dry and away from sunlight. Avoid prolonged heating above 50°

C. Store the product in tight closed containers in a well ventilated area and in

accordance with national regulations. Keep out of reach of children.

8. Exposure control-Personal protection

Skin protection: Light gloves & eye glasses recommended.

Respiratory protection: If there is no adequate ventilation of the working place, wear respiratory equipment

approved for organic vapors.

9. Physical and chemical properties

Physical form : Sticky dense fluid.

Color: Black

Odor: Solvent like smell

Boiling point/boiling range: 65 °C

Melting point/melting range: n/a
Flashpoint: 35-45°C

Water solubility/flat solubility: Practically not soluble (0.1%)

10. Stability and reactivity

Conditions to avoid: Temperature above 50°C

Materials to avoid: No know materials to avoid

Hazardous decomposition: Carbon monoxide, dioxide, hydrocarbons, chlorine.

11. Toxicological information

Inhalation: Over exposure may cause irritating effects on nose throat and respiratory tract.

Eye contact: Over exposure may cause irritating effects on eyes.

Skin contact: Prolonged or repeated contact may result in irritation effects.

12. Ecological information

Do not allow product to escape into waters, wastewater or soil.

13. Disposal considerations

Product may be disposed off as chemical waste. Dispose of waste according to local state and provincial regulations.

14. Transport information

Product is flammable. Store (as a class 3.3 material) in a cool place away from any source of ignition or hot surface. Keep container tightly sealed when not in use. Transport as a Class 3.3 material, Packaging Group III

15. Regulatory information, Symbol





Hazard designation Flammable Xn-Xi Harmful / Irritant

R-Phrases: R-10 – Flammable, R-20/22 - Harmful by inhalation and if swallowed

R-36/37/38 - Irritating to eyes, respiratory system and skin

S-Phrases: S-23 - Do not breath gas/fumes/vapour/spray, S-36/37 - Wear suitable protective clothing and gloves

S-47 - In case of accident or if you feel unwell, seek medical advice.

16. Other information

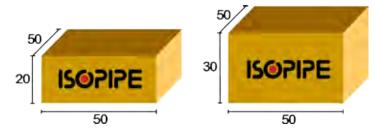
This information herein is presented in good faith and believed to be accurate. It is based on raw material technical data, current knowledge and experience. The purpose of this Safety Data Sheet is to describe the product in terms of its safety requirements and no warranty, expressed or implied is given. The above details do not imply any guarantee concerning composition, properties or performance.

2. Packing Measurements

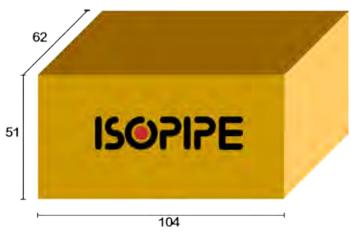
ISOPIPE PIPES carton size: 210 x 41x27 cm



ISOPIPE COIL carton size #1: 50 x 50 x 20 cm ISOPIPE COIL carton size #2: 50 x 50 x 30 cm



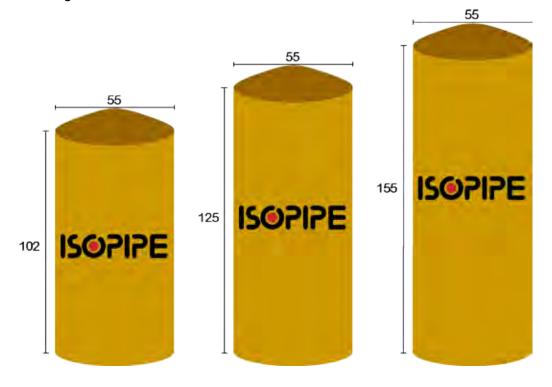
ISOPIPE SYSTEM carton size: 104 x 51 x 62 cm



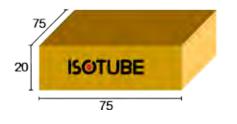
ISOPIPE SHEETS carton size: 206 x 11 x 106 cm

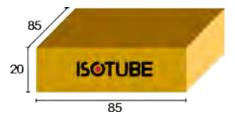


ISOPIPE ROLLS bag size: 102 x Φ55 cm



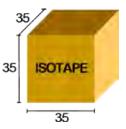
ISOTUBE carton size #1: 75 x 20 x 75 cm ISOTUBE carton size #2: 85 x 20 x 85 cm



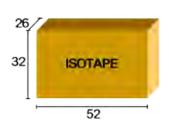


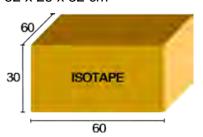
ISOTAPE Fastening Tape carton size:

35 x 35 x 35 cm

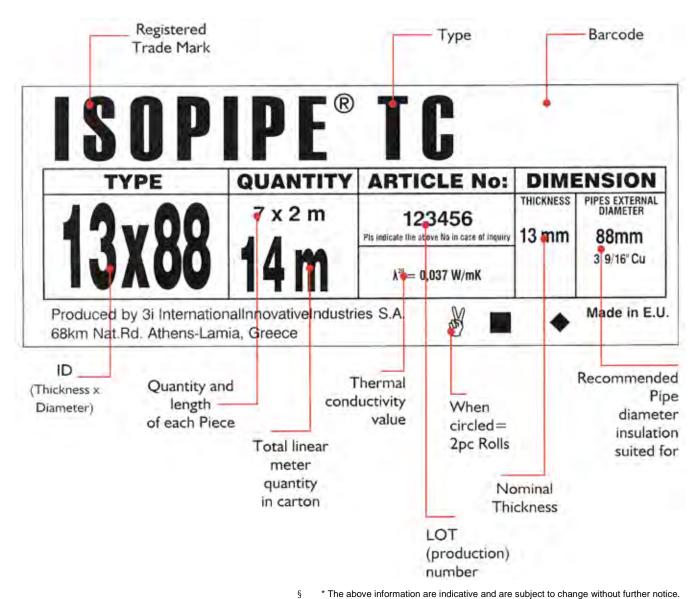


ISOTAPE Insulation Tape, 10mm carton size #1: $60 \times 60 \times 30 \text{ cm}$ ISOTAPE Insulation Tape, 15mm carton size #2: $52 \times 26 \times 32 \text{ cm}$









3 The above information are indicative and are subject to change without further house.

All our product labels are differentiated through different background colors for recognition purposes!

ISOPIPE TC (Regular) products

all ISOPIPE TC/HT products with UV

all ISOPIPE TC/HT products with UV PLUS

all ISOPIPE TC/HT products with HD

all ISOPIPE TC Slit, all ISOPIPE products with S/A

ISOPIPE TC Coil, ISOPIPE HT

4. ISOPIPE Calculation Software

Various screenshots of our calculation program.

Available on CD-ROM or through www.isopipe.gr.

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Indoor

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Calculation of:

- ü Surface Temperature
- ü Heat Loss

3 (SOPP) :: Calculation Program

File Options Show thart Help

Emerament

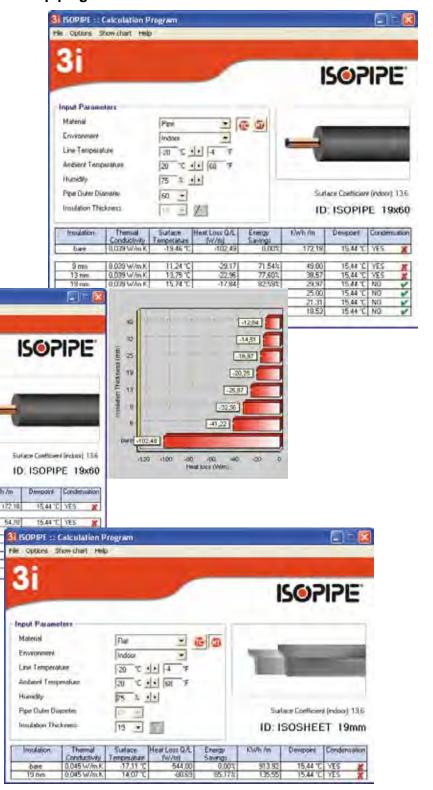
Line Temperature

Ambient Femperature

Page Cluber Diagnostes

Insulation Thickness

- ü Energy Savings
- ü Condensation Risk





www.isopipe.eu

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