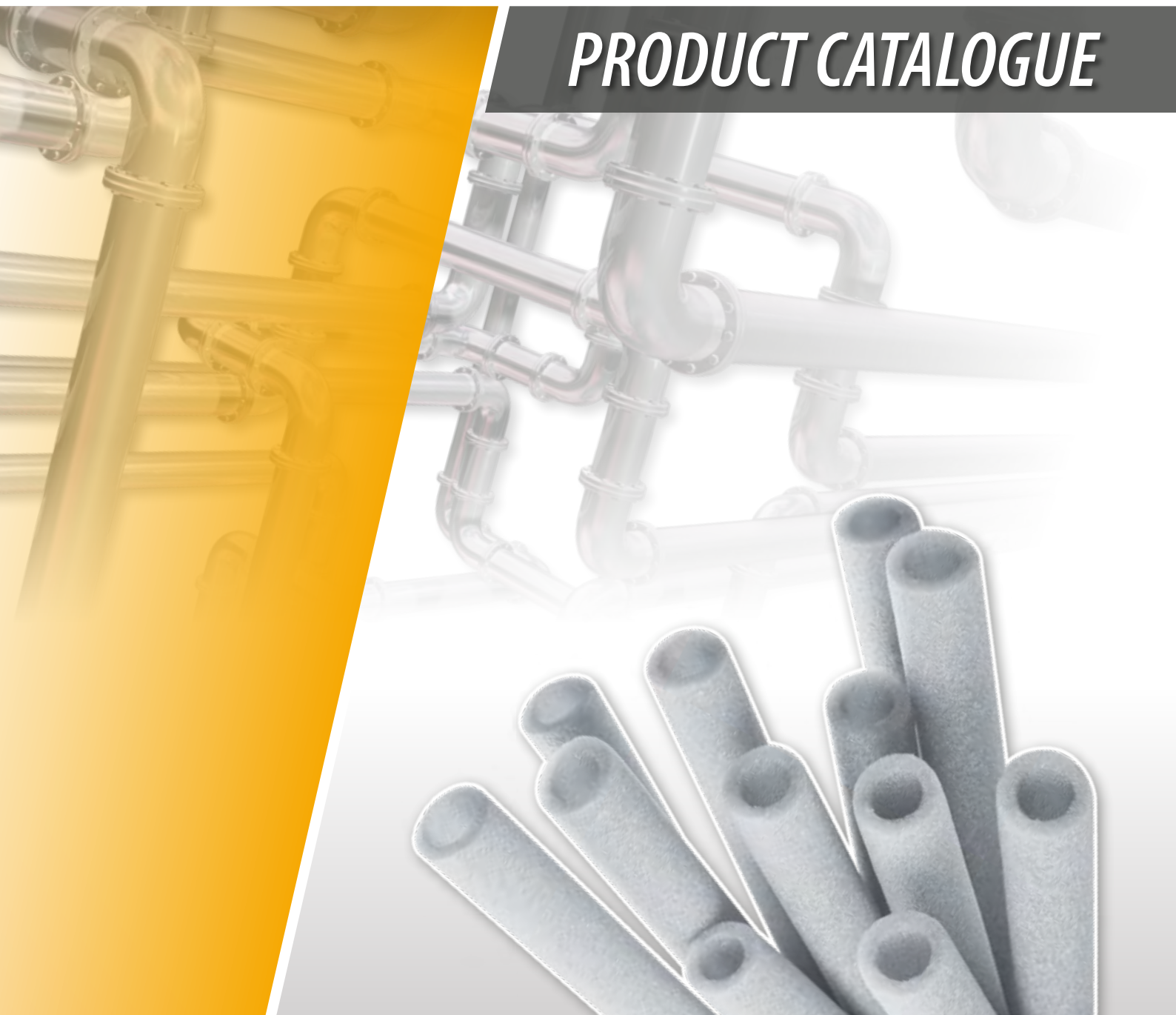




*THERMAL AND ACOUSTIC
POLYETHYLENE INSULATION*

PRODUCT CATALOGUE



TUBEX® – PROFESSIONAL INSULATION





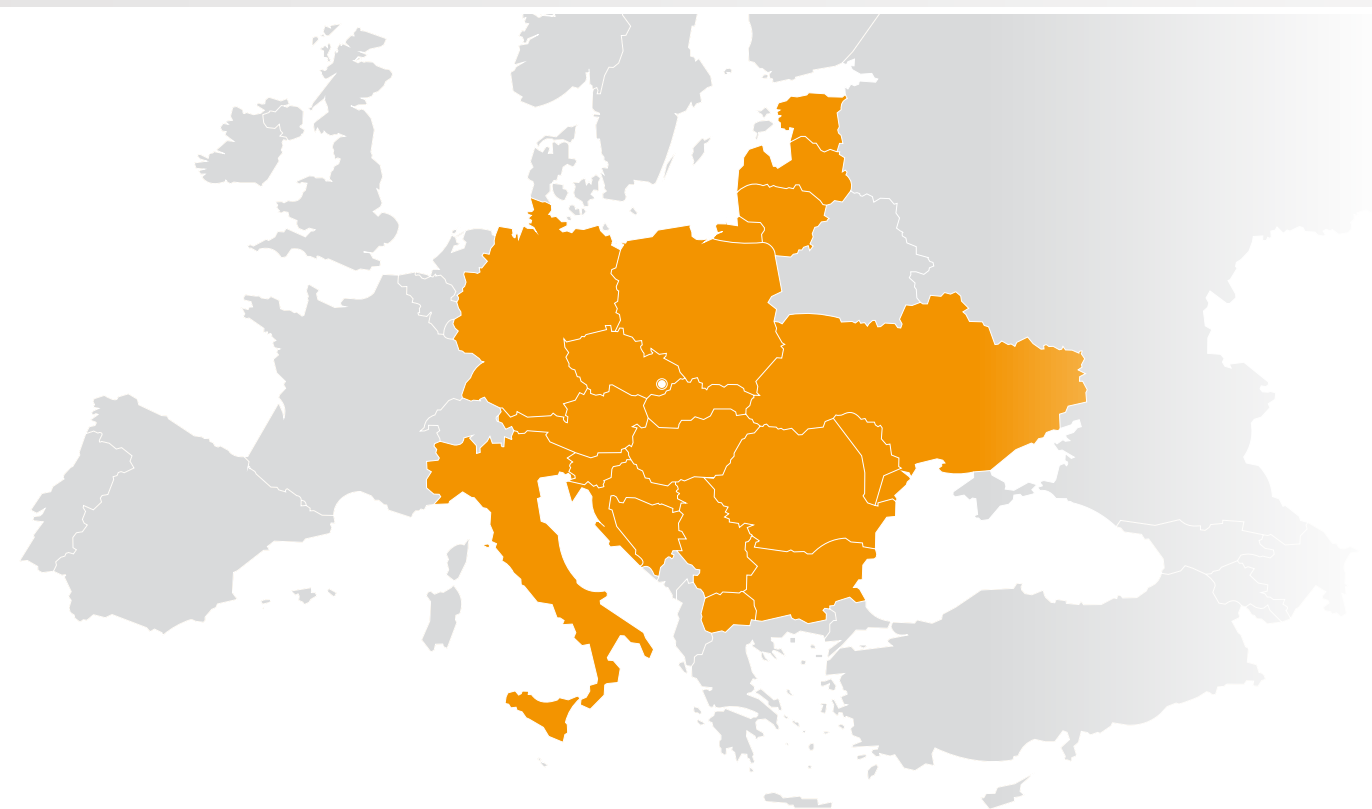
SPUR a.s. – producer of TUBEX® insulation

Export markets for TUBEX® insulation

-  family-owned plastic products **manufacturer with modern technology** founded in 1992
-  production of TUBEX® insulating materials **started in 1994**
-  **high product quality** ensured by long-term research and development, extensive experience, testing, production control and quality certifications
-  **emphasis on sustainability** thanks to eco-design of products, maximum use of recycled materials in production, purchase of electricity with certificates of origin and production of own green energy
-  own **industrial premises** in Zlín covering a total area of 85,000 m², including 34,000 m² of production space and 24,000 m² of storage space
-  more than 70 % of production is **exported abroad**

SPUR a.s. headquarters

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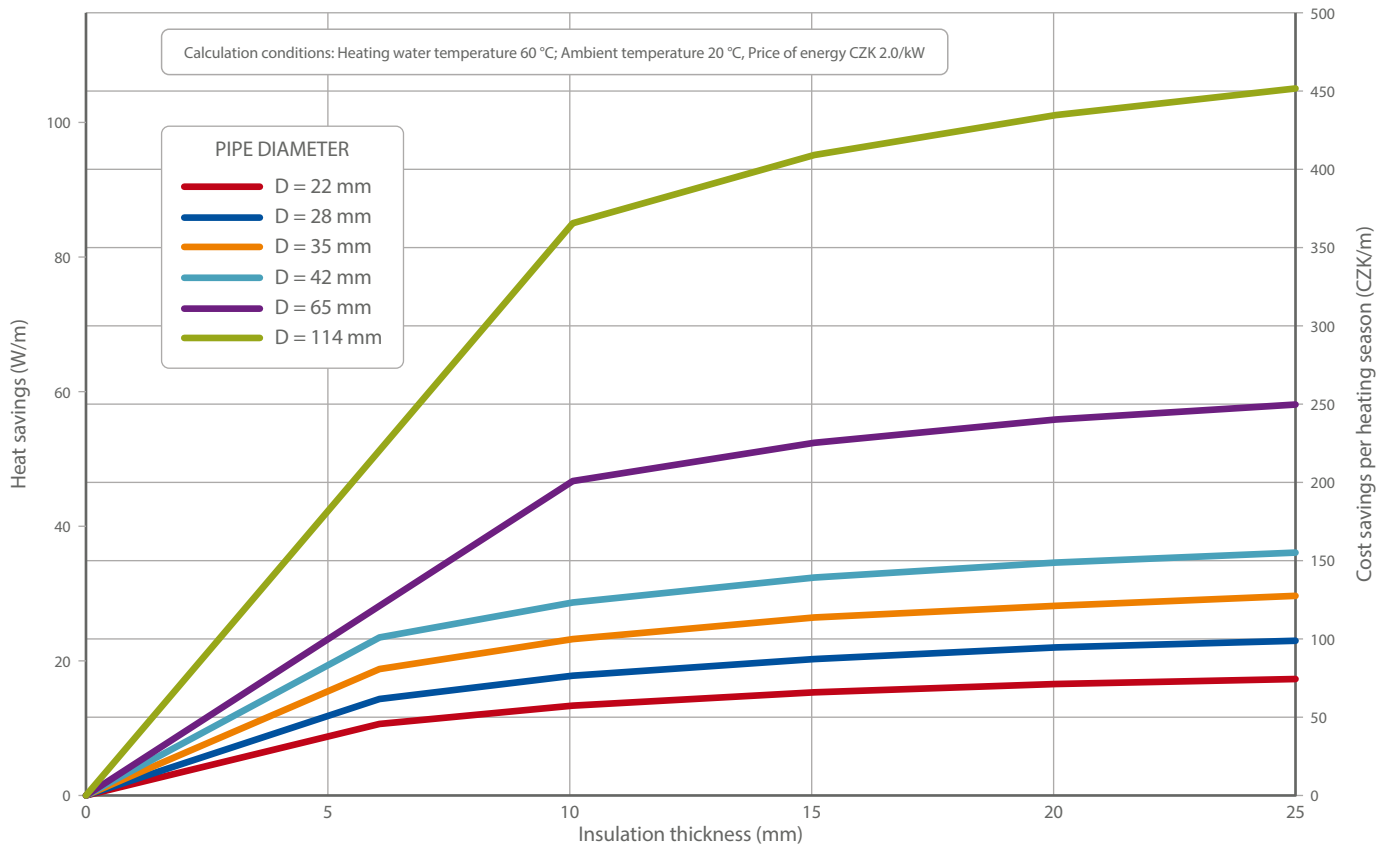
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	Piping for heating systems	Heating pipes in boiler rooms and heat exchanger stations	Hot and cold water pipes	Piping for underfloor heating	Piping for domestic hot/cold water services installed in walls and floors	Waste piping	HVAC piping	Large diameter piping	Insulation under flooring	Expansion joints	Cooling and air-conditioning piping	Underfloor heating systems
STANDARD	••	•	••	•	•	•						
EASY	••	•	••	•	•							
AL		•	•									
PROTEKT	••	•	••	••	••							
KVADRO	••		••	••	••							••
DISK	•		•	••	••							
SONIK						••						
FONO						••						
BANDS AND BOARDS	•	•				•	••	••	••			
XPS FLOORING UNDERLAY									••			•
FOL												••
EXPANSION										••		
MINERAL WOOL TUBING	••	••	•			•						
K-FLEX	••	••	••	•	••		••	••			••	

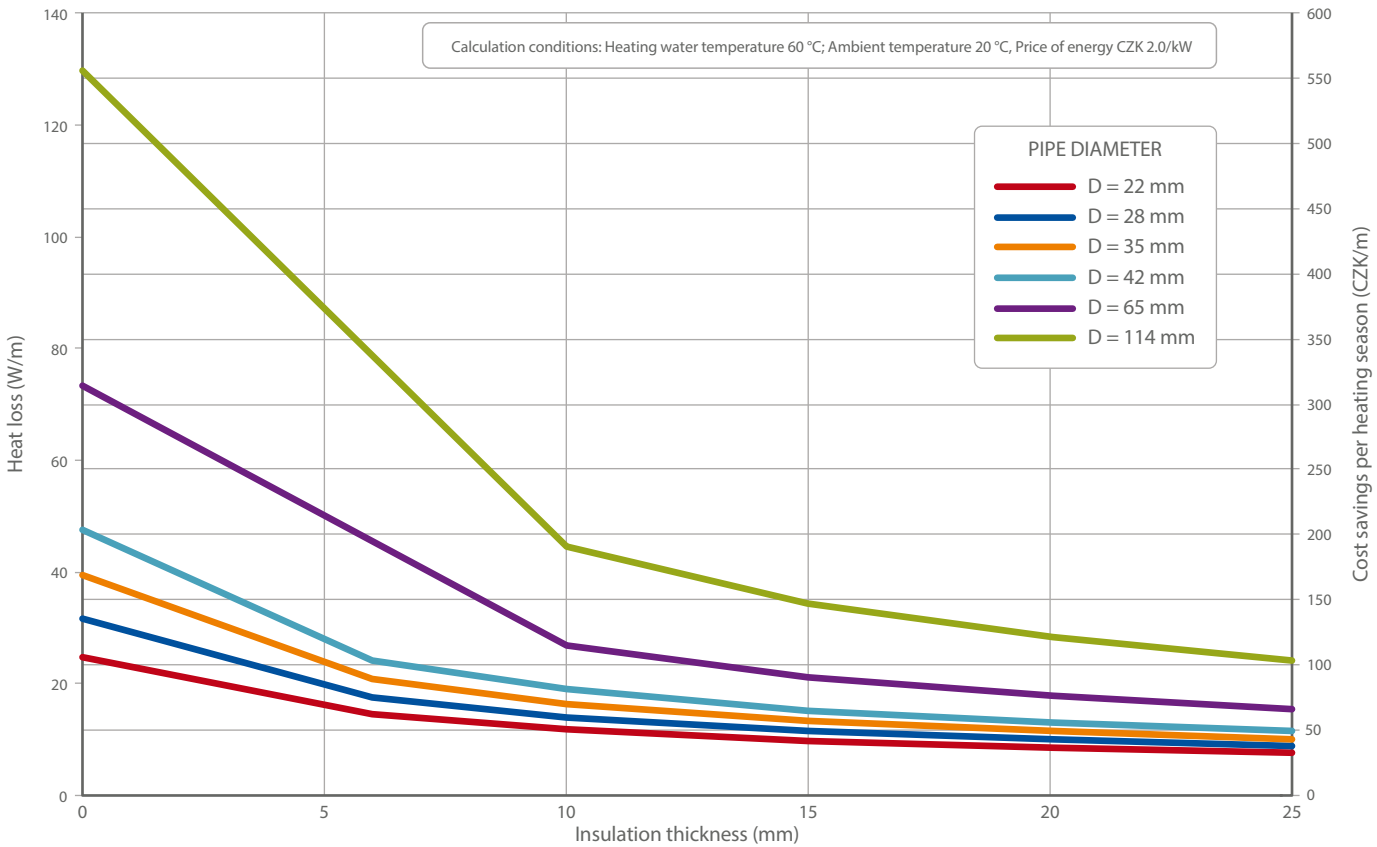
Cost savings

on heat loss of a 1-metre steel hot-water pipe insulated with TUBEX® STANDARD



Heat loss

of a 1-metre steel hot-water pipe insulated with TUBEX® STANDARD





Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
	Class B2	DIN 4102
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 2000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

We supply the presented assortment of insulation tubes with all auxiliary materials (plastic clips, special adhesives, self-adhesive tapes, assembling kits, etc.) necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. Our products are available wholesale directly from the SPUR a.s. production facility and through our distributors throughout the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® STANDARD

TUBEX® STANDARD tubes made of expanded polyethylene provide effective thermal insulation for hot and cold water pipes and other media in residential, industrial and agricultural buildings.

- High thermal-insulating efficiency
- Easy installation, removal and reuse
- Low weight, high flexibility and elasticity
- Simple insulation of pipe elbows
- Easy to cut with a knife without crumbling
- Moisture resistance
- Chemical resistance
- Protection of pipes against condensation and corrosion
- Sound absorption properties
- Good adhesion with suitable adhesives
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® STANDARD tubes are supplied with the length of 2 m, in a cardboard box with the size of 205 x 60 x 40 cm

Inner diameter (mm)	Quantity in box (m)					
	Wall thickness 6 mm	Wall thickness 10 mm	Wall thickness 15 mm	Wall thickness 20 mm	Wall thickness 25 mm	Wall thickness 30 mm
12	650	400	270	-	-	-
15	600	340	220	170	-	-
18	520	320	210	140	-	-
20	400	290	-	-	-	-
22	400	270	170	120	80	64
25	320	230	-	-	-	-
28	280	190	140	100	74	60
32	240	160	-	-	-	-
35	210	150	108	80	66	48
42	160	120	80	70	56	40
48	-	100	74	66	48	38
52	-	80	70	56	42	36
54	-	80	70	56	40	36
60	-	72	54	48	32	28
65	-	66	54	40	32	24
70	-	56	48	40	-	-
76	-	50	38	32	24	24
89	-	-	32	24	20	-
92	-	-	28	24	-	-
101	-	-	24	22	-	-
108	-	-	24	20	-	-
114	-	-	20	18	-	-
134	-	-	-	16	-	-



Technical parameter	Value	Standard
Volume weight	25 – 35 kg/m ³	
Dimensional stability	Max. 2 %	
Reaction to fire	E ₁	ČSN EN 13501-A1
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 2000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

Extruded polyethylene materials must be stored in a dry and covered environment and must not be exposed to direct sunlight.

The production of TUBEX® insulation is certified and meets the requirements of ČSN EN ISO 9001:2016.

TUBEX® EASY

TUBEX® EASY is a lightweight polyethylene insulation tube designed for quick and effective thermal insulation of existing hot and cold water pipes and other media in residential, industrial and agricultural buildings. The tubes are longitudinally slit, with a self-adhesive layer applied to both sides of the slit to ensure a secure and reliable joint.

Tubex tubes are used for thermal insulation of pipelines for hot or cold media, e.g. hot water up to +90 °C (up to +95 °C at times), cold water and cooling media up to -40 °C. They are suitable for insulation of steel, copper and plastic pipes (indoors).

- High thermal insulation efficiency
- Easy to install, dismantle and reuse
- Low weight, high flexibility and elasticity
- Increased mechanical resistance
- Easy to cut with a knife without crumbling
- Moisture resistance
- Chemical resistance
- Protection of pipes against condensation and corrosion
- Ability to dampen acoustic effects
- Good adhesion with suitable adhesives
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® EASY tubes are supplied with the length of 1 m, in a cardboard box with the size of 105 x 60 x 40 cm

Inner diameter (mm)	Quantity in box (m)	
	Wall thickness 15 mm	Wall thickness 20 mm
15	110	85
18	105	70
22	85	60
28	70	50
35	54	40
42	40	35
48	37	33
52	35	28
54	35	28
60	27	24



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
	Class B2	DIN 4102
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 2000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

We supply the presented assortment of insulation tubes with all auxiliary materials (plastic clips, special adhesives, self-adhesive tapes, assembling kits, etc.) necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. We provide wholesale in SPUR a.s. production plant or at our distributors all around the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® AL

TUBEX® AL provides effective thermal and acoustic insulation for water and heating pipes. The expanded polyethylene tube is covered with reinforced aluminium foil and features a longitudinal overlap with a self-adhesive layer for easy installation. The aluminium coating provides reliable protection against UV radiation and mechanical damage.

- High thermal-insulating efficiency
- Easy installation
- UV resistance
- Easy maintenance even in hygienically demanding environments
- Increased resistance to mechanical damage
- Low weight
- High chemical and biological resistance
- Increased resistance to water vapour diffusion
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® AL tubes are supplied with the length of 1 m, in a cardboard box with the size of 105 x 60 x 40 cm

Inner diameter (mm)	Quantity in box (m)				
	Wall thickness 10 mm	Wall thickness 15 mm	Wall thickness 20 mm	Wall thickness 25 mm	Wall thickness 30 mm
12	200	135	-	-	-
15	170	110	85	-	-
18	160	105	70	-	-
20	-	-	-	-	-
22	135	85	60	40	32
25	-	-	-	-	-
28	95	70	50	36	30
32	-	-	-	-	-
35	75	54	40	32	24
42	60	40	35	28	20
48	50	37	33	24	19
52	40	35	28	20	18
54	40	35	28	20	18
60	36	27	24	16	14
65	33	27	20	16	12
70	28	24	20	-	-
76	25	19	16	12	12
89	-	16	12	10	-
92	-	14	12	-	-
101	-	12	11	-	-
108	-	12	10	-	-
114	-	10	9	-	-
134	-	-	8	-	-



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
	Class B2	DIN 4102
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 3000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

We supply the presented assortment of insulation tubes with all auxiliary materials (plastic clips, special adhesives, self-adhesive tapes, assembling kits, etc.) necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. We provide wholesale in the SPUR a.s. production plant or at our distributors all around the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® PROTEKT

TUBEX® PROTEKT is a thermal insulation tube made of expanded polyethylene and covered with durable red or blue LDPE foil. It is particularly suitable for applications requiring increased mechanical resistance, such as installations in masonry and wall or floor penetrations. It is suitable for use in underfloor heating systems.

- Excellent thermal insulating properties
- Increased mechanical durability
- Enhanced vapour barrier resistance
- High moisture resistance
- Easy installation
- Colour coding for hot and cold water pipes
- Modern design
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® PROTEKT tubes are supplied with the length of 2 m, in a cardboard box with the size of 205 x 60 x 40 cm

Inner diameter (mm)	Quantity in box (m)	
	Wall thickness 6 mm	Wall thickness 10 mm
12	650	400
15	410	330
18	400	300
20	*	*
22	300	270
25	*	*
28	230	190
32	*	*
35	180	150
42	120	110
48	-	*
52	-	*
54	-	*
60	-	*

On customer's request, TUBEX® PROTEKT insulation can be produced in larger diameters or with a different colour of the protective foil (black, silver, white).

* on request



Technical parameter	Value	Standard
Reaction to fire	E _L	ČSN EN 13501-1
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 3000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

Extruded polyethylene materials must be stored in a dry and covered environment and must not be exposed to direct sunlight.

The production of TUBEX® insulation is certified and complies with the requirements of ČSN EN ISO 9001:2016.

TUBEX® KVADRO, KVADRO PLUS

TUBEX® KVADRO and KVADRO PLUS are special square-shaped insulation profiles with a circular opening, made of polyethylene foam and covered with durable LDPE foil. Their low weight and flexibility ensure easy installation on pipes.

The PE-coated insulation is designed for water pipes and other media operating at temperatures from –40 °C to +90 °C (temporarily up to +95 °C). Its square shape makes it particularly suitable for installations where space is limited while maintaining a high insulation thickness at points of greatest heat loss. The LDPE coating provides increased mechanical resistance. The products are suitable for insulating heating and hot-water pipes installed in floors and walls and are widely used in underfloor heating systems.

- Excellent thermal insulation properties
- Increased mechanical resistance
- Increased vapour-tightness
- High moisture resistance
- Easy to install
- Colour coding for hot and cold water pipes

ASSORTMENT OF DIMENSIONS – TUBEX KVADRO, KVADRO PLUS insulation is supplied in 2 m length

Product name	Wall thickness (mm)	Inner diameter (mm)	Quantity in box (m)
Kvadro 15 mm – 1/4"	9	15	*
Kvadro 18 mm – 3/8"	9	18	*
Kvadro 22 mm – 1/2"	9	22	*
Kvadro 28 mm – 3/4"	9	28	*
Kvadro Plus 15mm – 1/4"	27	15	*
Kvadro Plus 18mm – 3/8"	26	18	*
Kvadro Plus 22mm – 1/2"	26	22	*
Kvadro Plus 28mm – 3/4"	25	28	*

* on request



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
	Class B2	DIN 4102
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 3000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

We supply the presented assortment of insulation tubes with all auxiliary materials (plastic clips, special adhesives, self-adhesive tapes, assembling kits, etc.) necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. We provide wholesale in the SPUR a.s. production plant or at our distributors all around the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® DISK

TUBEX® DISK is a tubular seamless thermal insulation of expanded polyethylene with round cross-section, coated by PE foil and designed for hot and cold water pipes. It prevents the build-up of condensate on piping and subsequent moisture penetration into building structures. The coating of the tube protects the insulation against the aggressive environment in the walls and floors and against mechanical damage.

- High thermal-insulating efficiency
- Easy handling and installation
- Moisture resistance
- Chemical resistance
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® DISK tubes are supplied in rolls with the length of 10 m, in a cardboard box size of 56 x 44 x 44 cm

Inner diameter (mm)	Quantity in box (m)
	Wall thickness 4 mm
15 mm	20 rolls / 200 m
18 mm	15 rolls / 150 m
22 mm	13 rolls / 130 m
28 mm	10 rolls / 100 m
35 mm	9 rolls / 90 m
42 mm	7 rolls / 70 m

On customer's request, the TUBEX® DISK insulation can be produced in other diameters and thicknesses.



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
	Class B2	DIN 4102
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 2000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

We supply the presented assortment of insulation tubes with all auxiliary materials (plastic clips, special adhesives, self-adhesive tapes, assembling kits, etc.) necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. We provide wholesale in the SPUR a.s. production plant or at our distributors all around the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® SONIK

TUBEX® SONIK provides effective acoustic insulation for waste pipes, fittings and rainwater drainage pipes. It is made of expanded polyethylene with a fine microporous structure. The insulation significantly reduces noise from pipes and drains, improving acoustic comfort in residential and commercial buildings.

- Highly resistant insulation
- Easy installation and handling
- Prevents surface condensation on drains
- Protects drains against corrosion
- Prevents dampness in walls and floors
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® SONIK tubes are supplied in rolls of the corresponding length, in a cardboard box with the size of 50.5 x 50.5 x 105 cm

Inner diameter (mm)	Quantity in box (m)
	Wall thickness 5 mm / Roll length 15 m
40	11 rolls / 165 m
50	9 rolls / 135 m
63	7 rolls / 105 m
75	7 rolls / 105 m
80	7 rolls / 105 m
100	5 rolls / 75 m
110	5 rolls / 75 m
125	4 rolls / 60 m



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-A1
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 3000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

Extruded polyethylene materials must be stored in a dry and covered environment and must not be exposed to direct sunlight.

The production of TUBEX® insulation is certified and complies with the requirements of ČSN EN ISO 9001:2016.

TUBEX® FONO

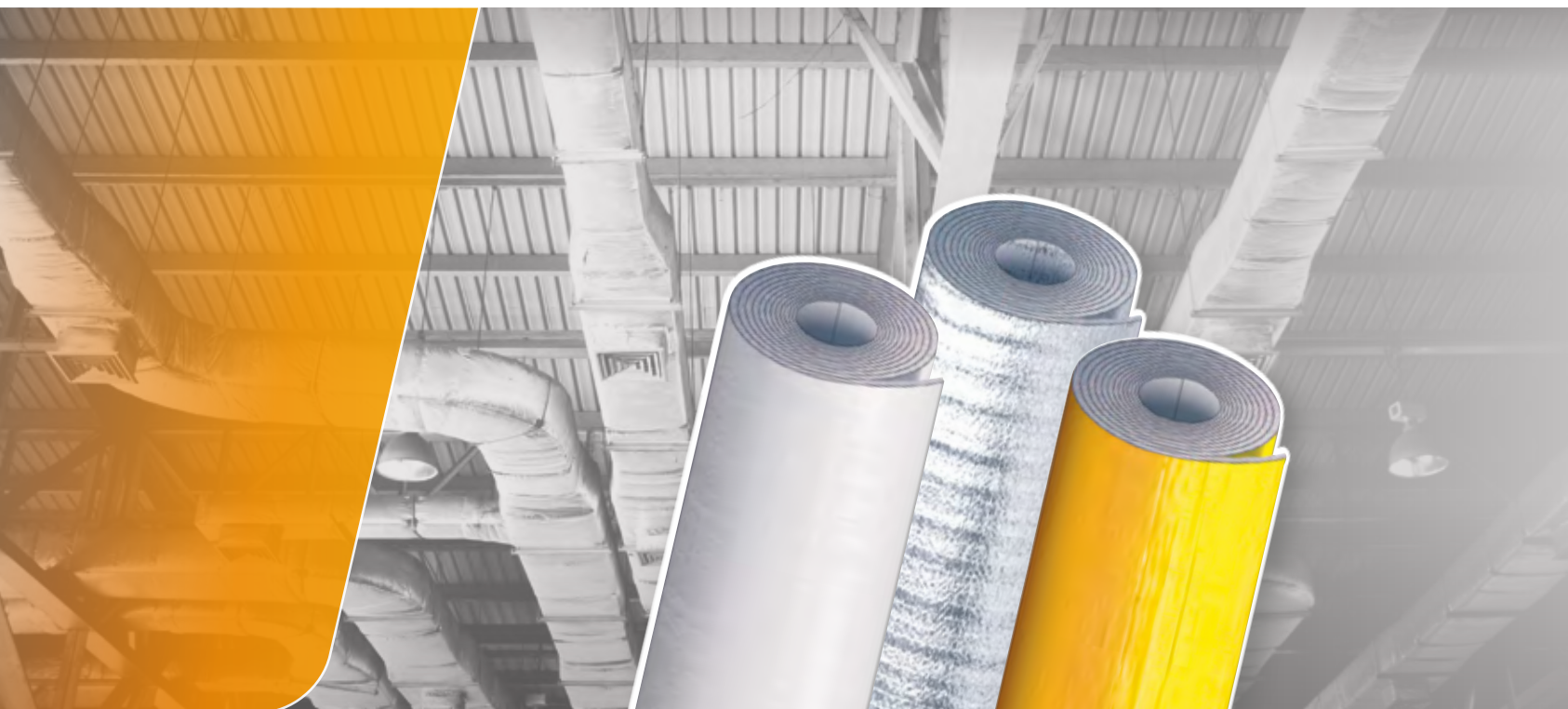
TUBEX® FONO is a lightweight polyethylene insulation with a protective PE coating, designed for acoustic insulation of waste pipes and internal rainwater drainage pipes. It combines increased mechanical resistance with flexibility and easy installation. The insulation has a smooth, uniform cut surface. FONO insulation is available in wall thicknesses of 5mm and 10mm in blue FONO. They are available in standard lengths of 15 m and 10 m.

- Highly durable insulation with increased resistance to mechanical stress
- Easy installation and handling
- Blue as standard; red available on request
- Prevents condensation on downpipes
- Excellent sound insulation
- Protects pipes against corrosion
- Prevents dampness in walls and floor coverings

ASSORTMENT OF DIMENSIONS – TUBEX FONO tubes are supplied in rolls of the appropriate length, in a carton of dimensions 50.5 x 50.5 x 105 cm

Inner diameter (mm)	Wall thickness 5 mm / Roll length 15 m	Wall thickness 10 mm / Roll length 10 m
40	11 rolls / 165 m	*
50	9 rolls / 135 m	*
63	7 rolls / 105 m	*
75	7 rolls / 105 m	*
80	7 rolls / 105 m	*
100	5 rolls / 75 m	*
110	5 rolls / 75 m	*
125	4 rolls / 60 m	*

* on request



Technical parameter	Value	Standard
Reaction to fire	Class E	ČSN EN 13501-1+A1:2010
Thermal conductivity	$\leq 0.04 \text{ W/(mK)}$	ČSN EN ISO 13787
Water vapour permeability	MU 2000	ČSN EN 13469
Release of harmful substances	does not contain	AHEM 3/2000
Deviation from the minimum thickness d_N	Class T6 -0/+1	ČSN EN 823
Long-term absorbability $WL(T)$ (kg/m ²)	Class WL(T)5 4.4 kg/m ²	ČSN EN 12087
Compression stress at 10% compression σ_{10}	CS (10)10 10.23 kPa	ČSN EN 826
Compressibility c (mm)	CP1 0.81 mm	ČSN EN 12 431

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® THERMAL INSULATING BANDS AND BOARDS

ASSORTMENT OF DIMENSIONS

Design (colour)

Thickness (mm)

Colour design as required by the customer

0.8 – 80

- High thermal-insulating efficiency
- Easy installation, removal and reuse
- Low weight, high flexibility and elasticity
- Easy to cut with a knife without crumbling
- Moisture resistance
- Chemical resistance
- Protection of fittings against condensation of water vapours and corrosion
- Sound absorption properties
- Good adhesion with suitable adhesives
- Safe for health and the environment



Thermal insulating sheet of expanded polyethylene - grey



Thermal insulating sheet of expanded polyethylene - white



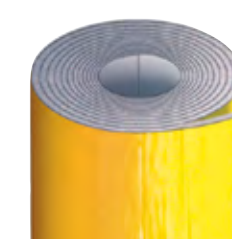
Thermal insulating sheet laminated with polyethylene terephthalate foil with aluminium film



Thermal insulating sheet laminated with aluminium foil



Thermal insulating sheet laminated with polyethylene foil



Thermal insulating sheet provided with self-adhesive tape with paper cover

Bands of standard design

- thermal insulation under flooring, laminate floors and parquet flooring
- its primary use is to compensate for minor floor unevenness
- acoustic and thermal insulation under concrete floors
- insulation of larger fittings, adapters and pipework systems of hot and cold water, air-conditioning and air-handling systems
- expansion strips and fills
- packaging material

Bands laminated with aluminium foil or polyethylenephtalate foil with aluminium film

- reflective foil for use behind heating radiators, under underfloor heating
- insulation of large tanks
- insulation of air-conditioning and air-handling equipment, including pipework systems
- sheet insulation of cooling technology
- insulation of larger fittings, adapters and piping systems
- self-adhesive foils for precise and quick gluing of larger surfaces

Bands laminated with polyethylene foil

- thermal insulation under flooring, laminate floors, parquet flooring, impermeable to water and water vapour
- to make uneven floor even



Technical parameter	2 mm	3 mm	5 mm	Standard
Length	1000	1000	1000	PN-EN 823-2013
Width	500	500	500	PN-EN 823-2013
Density	45 kg/m ³	28 kg/m ³	28 kg/m ³	PN-EN 1602-2013
Thermal resistance	0.06 m ² K/W	0.09 m ² K/W	0.16 m ² K/W	EN 12664
Water absorption after 28 days in water	≥ 2 %	≥ 2 %	≥ 2 %	PN-EN 12087:2000:A1:2006 method A
Short-term load	≤ 90 kPa	≥ 75 kPa (8 t/m ²)	≥ 57.9 kPa (8 t/m ²)	PN/EN ISO 826:2013, CEN/TS16354:2013
Long-term load	≥ 2 kPa	≥ 2 kPa	≥ 2 kPa	EN 1606
Dynamic load (walking)	100 000 cycles	100 000 cycles	100 000 cycles	EN 13793
Impact sound reduction	19 dB	18 dB	20 dB	EN ISO 10140

Application:

For installation under laminate or wood floors. Extruded polystyrene materials must be stored in a dry and covered environment and must not be exposed to direct sunlight.

The production of TUBEX® insulation is certified and meets the requirements of ČSN EN ISO 9001:2016.

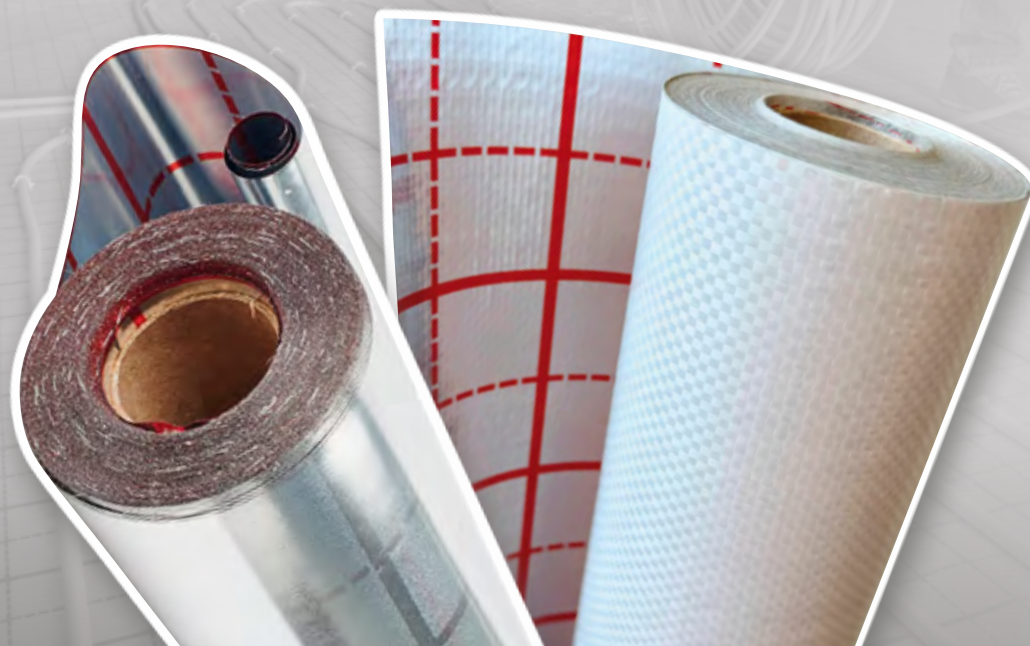
TUBEX® XPS FLOORING UNDERLAY

Extruded polystyrene (XPS) boards are used as an insulating underlay beneath laminate and wood flooring. They reduce noise, provide effective thermal insulation, compensate for minor unevenness in concrete or anhydrite subfloors and improve acoustic comfort in living spaces.

- Moisture resistance, thermal insulation
- Made of extruded XPS polystyrene
- Impact sound reduction: 16 – 20 dB
- Load resistance 3.5 t/m²
- Quick and easy installation

ASSORTMENT OF DIMENSIONS – XPS insulation pads are supplied in boards, in a carton of dimensions 50 x 60 x 100 cm

Board thickness	Length/width	Packing	Carton
2 mm	500 x 1000 mm	10 m ²	120 m ²
3 mm	500 x 1000 mm	5 m ²	80 m ²
5 mm	500 x 1000 mm	5 m ²	50 m ²



Technical parameter	Value FOL 100	Value FOL PP	Standard
Thickness (mm)	0,1 ± 0,02	0,1 ± 0,02	EN 13984:2013
Area weight (g/m²)	90 ± 10	100 ± 10	
Watertightness for water in liquid state (watertight at 2 KPa)	passes	passes	
Reaction to fire	E-d2	E-d2	
Tensile strength - longitudinal/transverse [N/50mm]	≥ 115 / 120	≥ 839 / 601	
Ductility (%) - longitudinal/transverse [%]	≥ 60 / 5	≥ 24 / 29	
Tear resistance - unreinforced webs and sheets - longitudinal/transverse [N]	≥ 50 / 55		

Application:

Suitable for installation under hot water and electric heating. Ideal for anhydrite or concrete floors

The production of TUBEX® insulation is certified and meets the requirements of ČSN EN ISO 9001:2016.

TUBEX® FOL

REFLECTIVE GRID FOIL FOR UNDERFLOOR HEATING

TUBEX® FOL 100 and TUBEX® FOL PP reflective foils feature a clearly marked grid for accurate positioning of heating pipes. They are suitable for use in floor heating systems with anhydrite and concrete screeds.

They increase the efficiency of underfloor heating by limiting heat loss towards the structure and reflecting heat back into the interior. They thus contribute to the even distribution of temperature in the floor and more efficient use of energy.

TUBEX FOL 100

Reflective aluminium foil with a grid

- Facilitates accurate and fast laying of heating pipes
- Reduces heat loss into the substrate
- Reflects heat back into the interior and increases heating efficiency
- Contributes to an even temperature distribution in the floor

ASSORTMENT OF DIMENSIONS

Dimensions	Type	Thickness	Weight	Roll
1 x 50 m	TUBEX FOL 100	0,1 mm	100 g/m²	50 m²
1 x 50 m	TUBEX FOL PP	0,1 mm	100 g/m²	50 m²

TUBEX FOL PP

Reflective aluminium foil with a grid and a protective PP layer

- Reinforced multi-layer construction for greater strength and durability
- Maintains its shape during installation without curling or tearing
- Resistant to moisture and mechanical stress during installation
- Facilitates accurate and quick installation of heating pipes
- Reduces heat loss and increases the efficiency of underfloor heating
- Promotes uniform heating of the entire floor area



Technical parameter	Value	Standard
Reaction to fire	Class E	ČSN EN 13501-1+A1:2010
Thermal conductivity (40 °C)	$\leq 0.04 \text{ W/(mK)}$	ČSN EN ISO 13787
Water vapour permeability	MU 2000	ČSN EN 13469
Releasing of harmful substances	does not contain	AHEM 3/2000
Deviation from the minimum thickness d_N	Class T6 -0/+1	ČSN EN 823
Long-term absorbability WL(T) (kg/m ²)	Class WL(T)5 4.4 kg/m ²	ČSN EN 12087
Compressive stress at 10% compression σ_{10}	CS (10)10 10.23 kPa	ČSN EN 826
Compressibility c (mm)	CP1 0.81 mm	ČSN EN 12 431

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® EXPANSION

TUBEX® expansion sheets are made of expanded polyethylene with enclosed cellular structure. They are used in construction to separate vertical building structures from concrete floor surfaces, accommodate dimensional changes in building materials and fill expansion joints. The material remains permanently flexible and easily absorbs dimensional changes in concrete floors.

- Fast and simple application with the use of the recommended adhesive or self-adhesive strip
- Acoustic insulation – the expansion sheet significantly reduces the transfer of impact noise from the floor onto the building structure
- Thermal insulation – prevents the formation of a thermal bridge between the floor and the external walls
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® EXPANSION is supplied in rolls with the length of 50 m, in a cardboard box with the size of 120 x 70 x 70 cm

Width (mm)	Thickness (mm)	Roll length (m)
80	5, 8, 10	50
100	5, 8, 10	50
120	5, 8, 10	50
150	5, 8, 10	50
180	5, 8, 10	50
200	5, 8, 10	50

We supply expansion sheets in several thicknesses and widths:

- in the form of tapes
- in the form of tapes with polyethylene foil
- with lengthwise perforations for easy tearing off of the overlapping part once the required height has been concreted
- with self-adhesive strip for easy attachment to the building structure



Technical parameter	Value	Standard
Reaction to fire	Class E _L	ČSN EN 13501-1
Thermal conductivity (40 °C)	≤ 0.040 W/(mK)	ČSN EN ISO 13787
Short-term absorbability	WS 01 (0.08 kg/m ²)	ČSN EN 13472
Water vapour permeability	MU 2000	ČSN EN 13469
Maximum operating temperature	ST (+)95	ČSN EN 14707

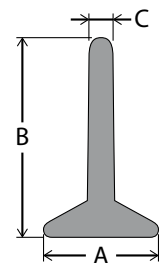
Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® EXPANSION T-PROFILE

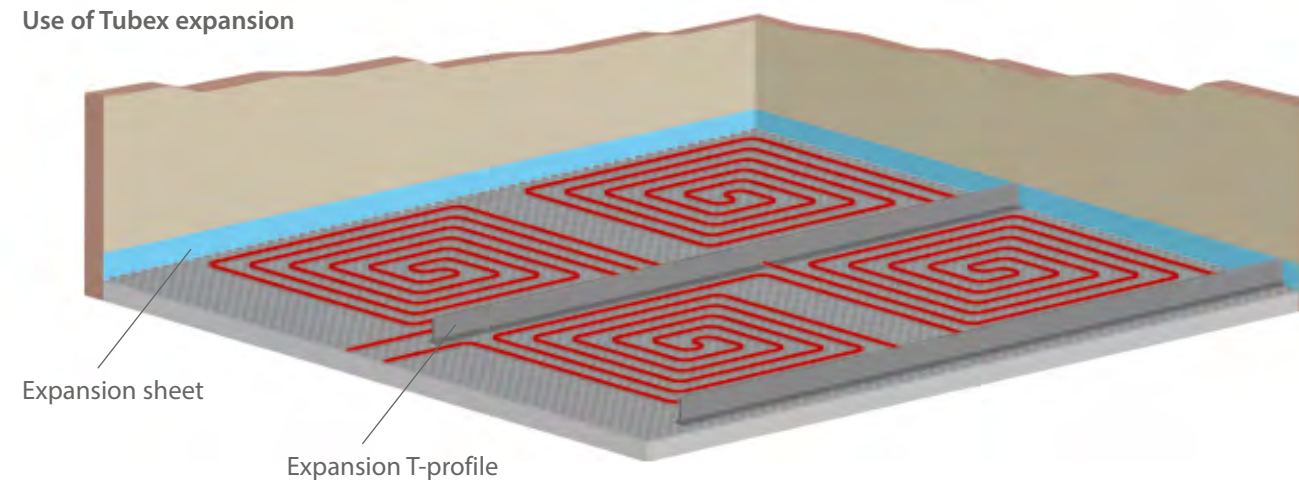
TUBEX® expansion T-profiles are made of closed-cell polyethylene foam. They are designed to separate individual expansion areas and create permanently flexible joints in concrete and anhydrite floors. The profiles help prevent floor damage in areas subject to higher mechanical loads. A self-adhesive layer on the underside ensures quick and easy installation. Full compatibility with TUBEX® perimeter expansion strips ensures proper expansion performance throughout the floor system.

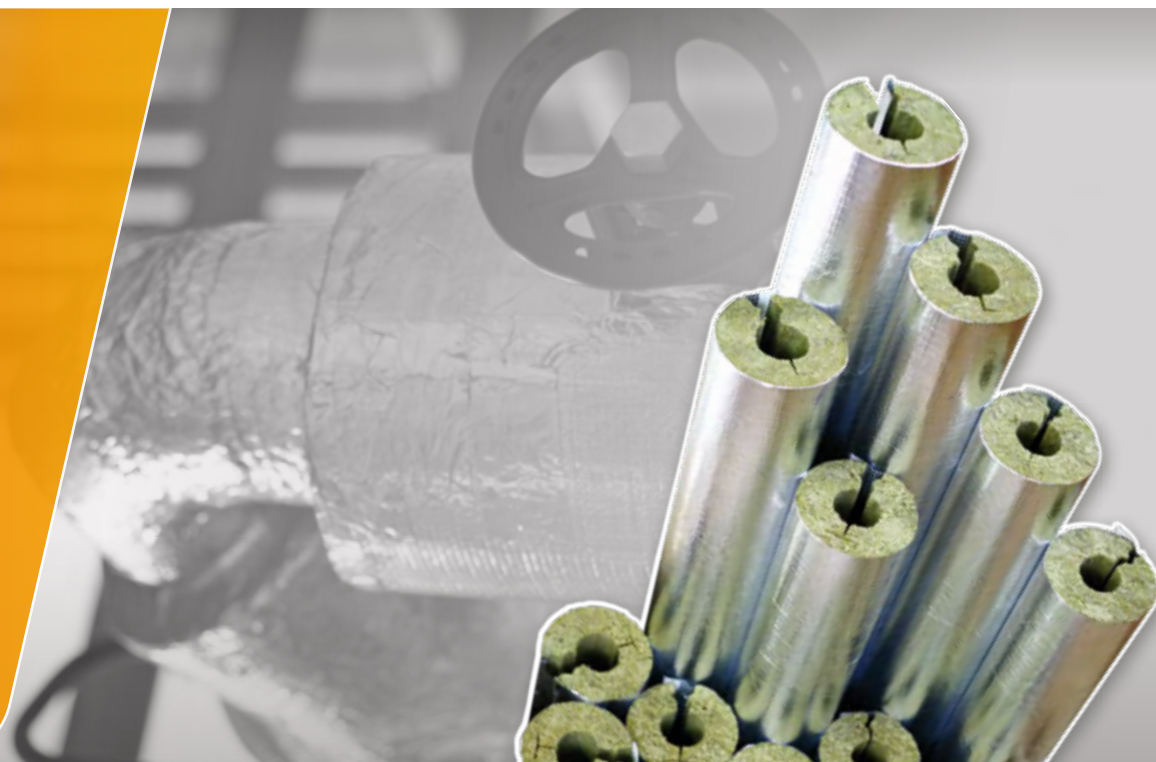
- Quick and easy installation thanks to the self-adhesive layer that ensures stability of the profile when pouring floors
- T-profile ensures permanently elastic joints in concrete or anhydrite floors
- Perfect separation of individual areas and structural openings between rooms
- Sound insulation – the expansion profile significantly reduces the transmission of noise from the floor to the structure
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – TUBEX® expansion T-profiles are supplied in 2 m lengths, in a carton with dimensions 205 x 60 x 40 cm

	Name Product	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Quantity per carton (m)
	T80	36–44	76–84	8–12	264
	T100	36–44	96–104	8–12	220

Use of Tubex expansion





Technical parameter	Symbol	Class/Value	Standard
Coefficient of thermal conductivity in relation to temperature	λ	0.040 at 50 °C W/m-K 0.047 at 100 °C W/m-K 0.056 at 150 °C W/m-K 0.068 at 200 °C W/m-K 0.083 at 250 °C W/m-K 0.100 at 300 °C W/m-K 0.120 at 350 °C W/m-K	EN 14303
Maximum operating temperature	ST(+)	600 °C	EN 14706
Thickness tolerance class	-	T8	EN 823
Class of reaction on fire	-	A2-s1, d0	EN 13501-1
Fibre melting point	T _f	≥1 000 °C	DIN 4102-17
Short-term absorbability	WS	≥1 kg/m ²	EN 1609
Equivalent diffuse thickness of foil on the surface of the centre	-	≥100 m	-
Maximum temperature on the surface of aluminium foil	-	100 °C	-

We supply the presented assortment of insulation tubes with all auxiliary materials necessary for making perfect thermal insulation of pipework systems of hot or cold water or other media. We provide wholesale in the SPUR a.s. production plant or at our distributors all around the Czech Republic and Slovakia.

Production of TUBEX® insulation is certified and in compliance with requirements of ČSN EN ISO 9001:2016.

TUBEX® MINERAL WOOL TUBING

Mineral wool tubing is designed for thermal and acoustic insulation of piping with circular cross-section with the temperature of transported medium of up to 600 °C and with the temperature on the surface of the aluminium foil up to 100 °C. The tubing must be protected against moisture. The surface Al foil reinforced with glass fibre reinforcement features an overlapping self-adhesive strip, which ensures fixing of the joint.

- High thermal-insulating efficiency
- Comfortable installation, easy cutting to shape
- Dimensional stability and secure fit on pipes
- Resistance to mould and rodents
- Easy maintenance
- Safe for health and the environment

ASSORTMENT OF DIMENSIONS – mineral wool tubing is supplied with the length of 1 m, in a cardboard box with the size of 50 x 51 x 100 cm

Inner diameter (mm)	Quantity in box (m)						
	Wall th. 25 mm	Wall th. 30 mm	Wall th. 40 mm	Wall th. 50 mm	Wall th. 60 mm	Wall th. 80 mm	Wall th. 100 mm
21	46	35	25	16	12	-	-
27	42	30	20	16	12	6	4
34	36	30	20	14	10	6	4
43	30	25	16	12	9	6	7
49	25	20	16	11	8	5	7
61	20	16	12	9	7	4	6
70	18	15	11	8	6	4	6
77	16	12	10	8	6	4	6
89	12	11	9	6	5	8	6
102	10	9	7	6	4	7	5
109	9	9	6	5	4	6	4
115	9	8	6	5	4	6	4
120	-	7	6	5	4	6	4
125	-	6	5	4	8	6	4
133	-	6	5	4	8	6	4
141	-	6	4	8	7	5	4
159	-	4	4	8	7	5	4
167	-	4	-	8	7	5	4

On customer's request, the mineral wool tubing can be produced in other diameters and thicknesses.



Technical parameters

Tube length	2 m
Wall thickness	from 6 mm to 32 mm
Inner diameter	from 6 mm to 160 mm
Use for temperature range	from -165 °C* to +110 °C
Coefficient of resistance against water vapour diffusion	$\mu > 7000$
Thermal conductivity λ	0.040 W/(m·K) at +40 °C
Flammability	ČSN 73 0862 – B not easily flammable

- Industrial installations: the product can be installed at temperatures up to -198 °C; in the case of applications at below -40 °C, please contact our technical department.

K-FLEX® ST elastomer tube

The insulation tubes K-FLEX® ST are suitable for the temperature range from -165 °C to +110 °C. They meet the demanding requirements for insulation materials used in industrial refrigeration, air conditioning, HVAC, sanitary systems and heating.

- Elastomer insulation with closed cell structure
- High resistance to water vapour diffusion
- High thermal-insulating efficiency
- Guaranteed elasticity and stability
- Easy installation and handling
- Resistant to mould and bacteria

ASSORTMENT OF DIMENSIONS – insulation K-flex® ST is supplied in tubes with the length of 2 m, in a cardboard box with the size of 210 x 39 x 33 cm

Inner diameter (mm)	Quantity in box (m)					
	Wall th. 6 mm	Wall th. 9 mm	Wall th. 13 mm	Wall th. 19 mm	Wall th. 25 mm	Wall th. 32 mm
6	496	352	-	-	-	-
8	432	300	-	-	-	-
10	364	266	172	98	-	-
12	316	234	162	88	-	40
15	266	192	136	78	-	36
18	220	166	118	72	50	32
22	180	136	98	64	42	32
25	-	108	80	64	-	-
28	130	98	78	48	40	24
35	100	76	58	36	24	22
42	90	60	48	32	22	16
45	-	56	44	32	-	-
48	-	50	40	24	18	14
54	-	46	34	24	16	12
57	-	46	34	22	-	-
60	-	46	32	22	12	10
64	-	46	30	18	12	10
70	-	40	26	18	12	8
76	-	40	26	18	10	8
80	-	36	24	14	-	8
89	-	36	24	14	8	8
102	-	22	16	14	6	6
108	-	22	16	12	6	6
114	-	22	16	12	6	6
125	-	22	12	10	6	4
133	-	16	12	8	4	4
140	-	16	12	8	4	4
160	-	16	12	8	4	4



Technical parameters

Width	1000 mm
Thickness	from 6 mm to 50 mm
Use for temperature range	from -165 °C* to +85 °C
Coefficient of resistance against water vapour diffusion	$\mu > 7000$
Thermal conductivity λ	0.040 W/(m·K) at +40 °C
Flammability	ČSN 73 0862 – B not easily flammable

- Industrial installations: the product can be installed at temperatures up to -198 °C; in the case of applications at below -40 °C, please contact our technical department.

K-FLEX® ST elastomeric sheet insulation

K-FLEX® ST - thermal insulating sheets of synthetic rubber are designed for refrigeration, air conditioning, heating and HVAC applications. They are suitable for insulating tanks, large-diameter pipes, air-handling ducts, etc. K-FLEX® ST sheet is made in the standard version or in the version with surface finish. All types can be provided with self-adhesive layer.

- Quick and easy installation over large surface areas
- Protection of piping against condensation of water vapours
- Resistant to mould and bacteria
- HCFC-, CFC- and asbestos-free

ASSORTMENT OF DIMENSIONS – sheet insulation K-flex® ST is supplied in rolls, 1 m wide, in a cardboard box with the size of 55 x 55 x 105 cm

Thickness (mm)	Quantity in a box (m²)
6	30
10	20
13	14
19	10
25	8
32	6
40	4
50	4

On customer's request, this insulation can be made with self-adhesive layer or with another surface finish.



Technical parameters

Use for temperature range λ	+150 °C
Thermal conductivity λ W/(m·K) EN ISO 8497 (DIN 52613) EN 12667 (DIN 52612)	0 °C = 0.040 +40 °C = 0.044
Corrosion risks	DIN 1988/7, pH neutral
Flammability	B2 DIN 4102 (D)
Ecological parameters	halogen-free, PVC-free, CFC-free, HCFC-free, asbestos-free

K-FLEX® SOLAR HT

K-FLEX® SOLAR HT is specially designed insulation for low-pressure piping with temperatures up to 150 °C. It is available in coils or tubes.

- Ideal for industrial and solar systems
- UV-resistant

Tube

Length	2 m
Wall thickness	13, 19, 25 and 32 mm
Inner diameter	from 10 mm to 89 mm

Rolls

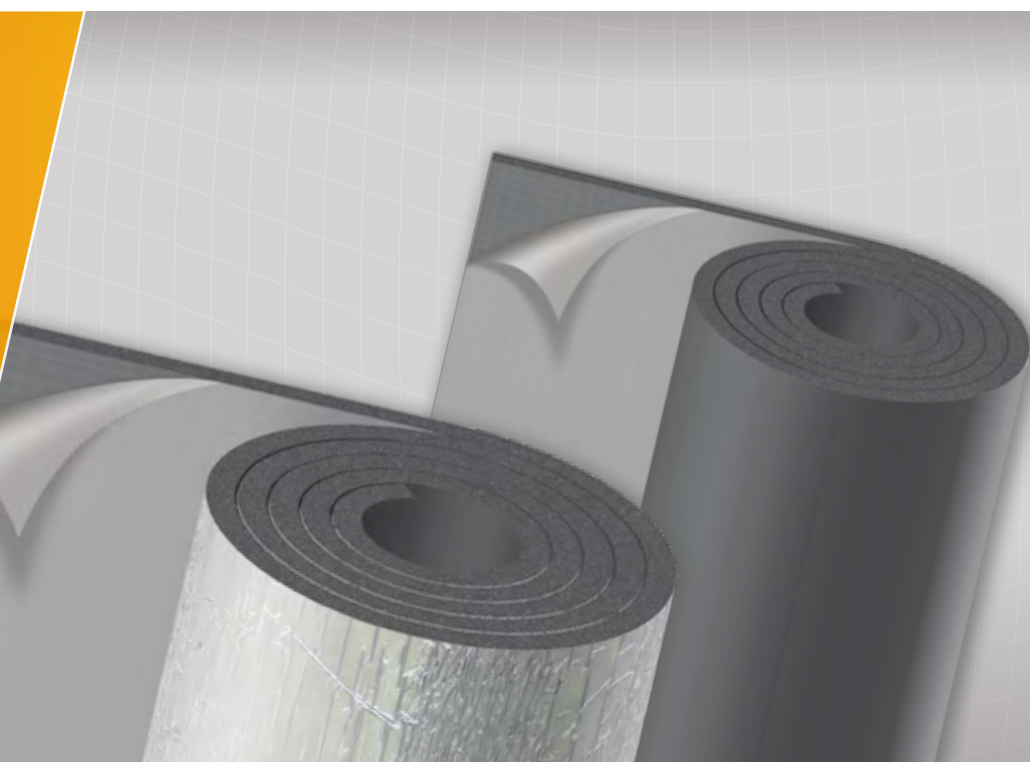
Length	25 m
Wall thickness	13 mm and 19 mm
For diameters	15 mm, 18 mm and 22 mm

ASSORTMENT OF DIMENSIONS – tubes K-FLEX® SOLAR HT are supplied with the length of 2 m, in a cardboard box size of 210 x 39 x 33 cm

Inner diameter (mm)	Quantity in box (m)			
	Wall thickness 13 mm	Wall thickness 19 mm	Wall thickness 25 mm	Wall thickness 32 mm
10	140	–	–	–
12	–	–	–	–
15	112	64	–	–
18	98	58	42	32
22	84	64	36	32
28	64	48	32	24
35	50	36	24	22
42	40	32	24	16
48	32	24	20	14
54	32	18	18	12
60	28	16	18	10
76	24	18	12	8
89	18	16	12	8

ASSORTMENT OF DIMENSIONS – K-FLEX® SOLAR HT coils are supplied in rolls, in a cardboard box with the size of 59 x 40 x 57 cm

Inner diameter (mm)	Quantity in box (m)	
	Wall thickness 13 mm	Wall thickness 19 mm
15	25	25
18	25	25
22	25	25



Technical parameters

Use for temperature range	up to +85 °C
Thermal conductivity λ according to EN 12667 (DIN 52612)	0.031 W/(m-K) at -20 °C 0.033 W/(m-K) at 0 °C 0.035 W/(m-K) at +20 °C
Thermal conductivity λ according to L10 EN 12667 (DIN 52612)	0.037 W/(m-K) at +40 °C
Flammability according to ČSN 73 0862	B - not easily flammable
Corrosion risks	DIN 1988/7, pH neutral
Coefficient of resistance against water vapour diffusion μ EN 12086 (DIN 52615)	$\mu \geq 7000$

K-FLEX® ST DUCT & KRAFT

K-FLEX® ST DUCT & KRAFT is an insulation material made of synthetic rubber, suitable for insulating components of air-conditioning and ventilating systems. The rubber sheet provides an alternative to conventional mineral wool insulation, offering easier installation and a longer service life for HVAC insulation systems. Unlike conventional fibre-based insulation materials, K-FLEX® ST DUCT & KRAFT has a closed-cell structure. Thanks to this design, it offers the advantage of a thinner insulation layer. It also allows piping components to be pre-insulated before installation.

- financial savings, reduction in the costs of air-handling system insulation
- complies with fire-safety requirements on air-handling ducts
- quick and simple installation without the need to use any expensive tools
 - self-adhesive version with an increased adhesion to metals
- installation without cutting through the material, thanks to the width of the insulating sheet of 150 cm
- fibres are not released from the material
- HCFC - CFC-free, formaldehyde-free

ASSORTMENT OF DIMENSIONS – K-FLEX® ST DUCT and KRAFT are supplied in rolls with the width of 1.5 m, packaged in polyethylene bags

Thickness (mm)	Quantity in a box (m²)
6	45
10	30
12	22,5
15	18
20	15



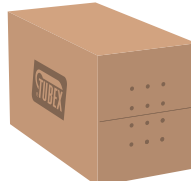
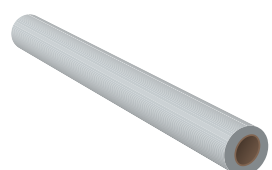
ST Duct self-adhesive sheet, grey

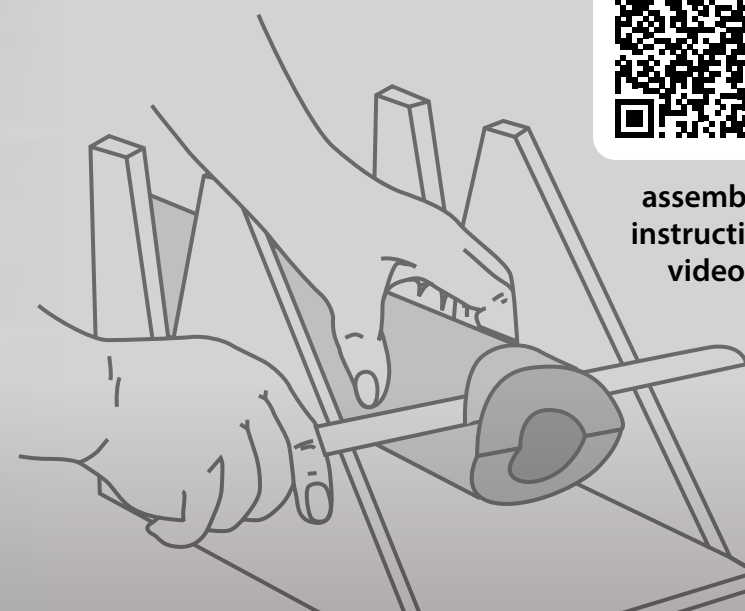


KRAFT self-adhesive sheet, grey
with the silver METAL foil
surface finish

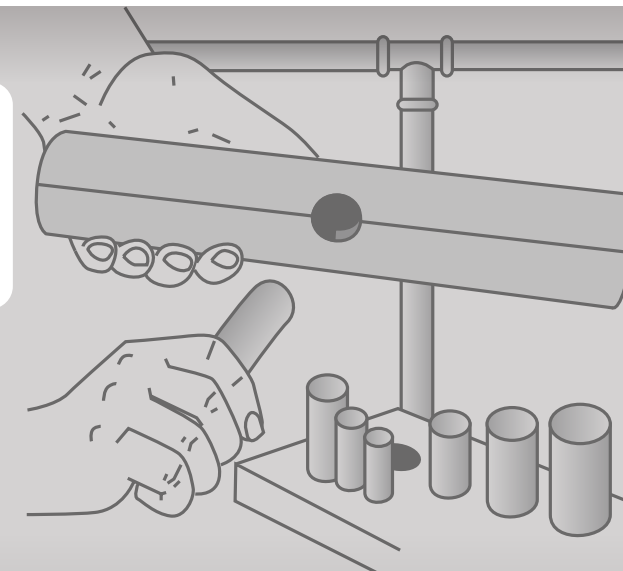


PACKAGING OF TUBEX®, K-FLEX® INSULATION

TUBEX® assortment	Standard, Protekt, Expansion T-profile	EASY, AL	KVADRO	Disk	Sonik, FONO	Mineral wool tubing	Expansion	XPS pads
Box dimensions (cm)	205 x 60 x 40	105 x 60 x 40	205 x 30 x 40	56 x 44 x 44	105 x 50,5 x 50,5	100 x 50 x 51	120 x 70 x 70	100 x 50 x 60
Box volume (m³)	0,500	0,252	0,246	0,108	0,268	0,255	0,588	0,300
Package								
TUBEX® assortment	K-FLEX® tube – ST, Solar	K-FLEX® Solar coil	K-FLEX® ST – sheets	FOL				
Box dimensions (cm)	210 x 39 x 33	59 x 40 x 57	105 x 55 x 55	105 x 9 x 9				
Box volume (m³)	0,264	0,135	0,318	0,009				
Package								



assembly
instruction
video



TUBEX® ACCESSORIES

We offer a complete range of accessories for professional installation of TUBEX® insulation on hot and cold water pipes and other piping systems.

For easy installation of the insulation, use original accessories.

Correct installation is essential for the effective and reliable performance of the entire insulation system.

Accessories	Packaging
Assembly kit	PP bag
Chloroprene adhesive	tube 130 ml, can 400 ml
Connecting clip	sack 100 pcs
Expanded self-adhesive tape 2 x 40 mm	roll 25 m
Expanded tape SONIK 3 x 40 mm	roll 25 m
Self-adhesive tape PVC 38 mm	roll 20 m
K-FLEX KNIFE	knife with 10 blades
K-FLEX adhesive	can 1 l
K-FLEX thinner	can 1 l
Aluminium tape 50 mm	roll 50 m
K-FLEX thermotape 3 x 50 mm	roll 15 m
Grid foil for underfloor heating	50 m x 1 m



*THERMAL AND ACOUSTIC
POLYETHYLENE INSULATION*



TUBEX® – PROFESSIONAL INSULATION

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