

Catalogue Products



Insulation Boards

IZOROL-L	E
IZOROL-L pack duo	6
IZOROL-PP pack duo	6
IZOROL-PP.	

Insulation Foil

IZOROL	11
IZOFOLIX	

Underfloor Heating

Accessories......13

Expanded Polystyrene Boards "Kotar"

KOTAR	EPS	Fasada	.17
KOTAR	EPS	80 Podłoga	.18
KOTAR	EPS	100 Dach/Podłoga	19
KOTAR	EPS	200 Dach/Podłoga/Parking	20
KOTAR	EPS	Τ 40	.21
		T 45	

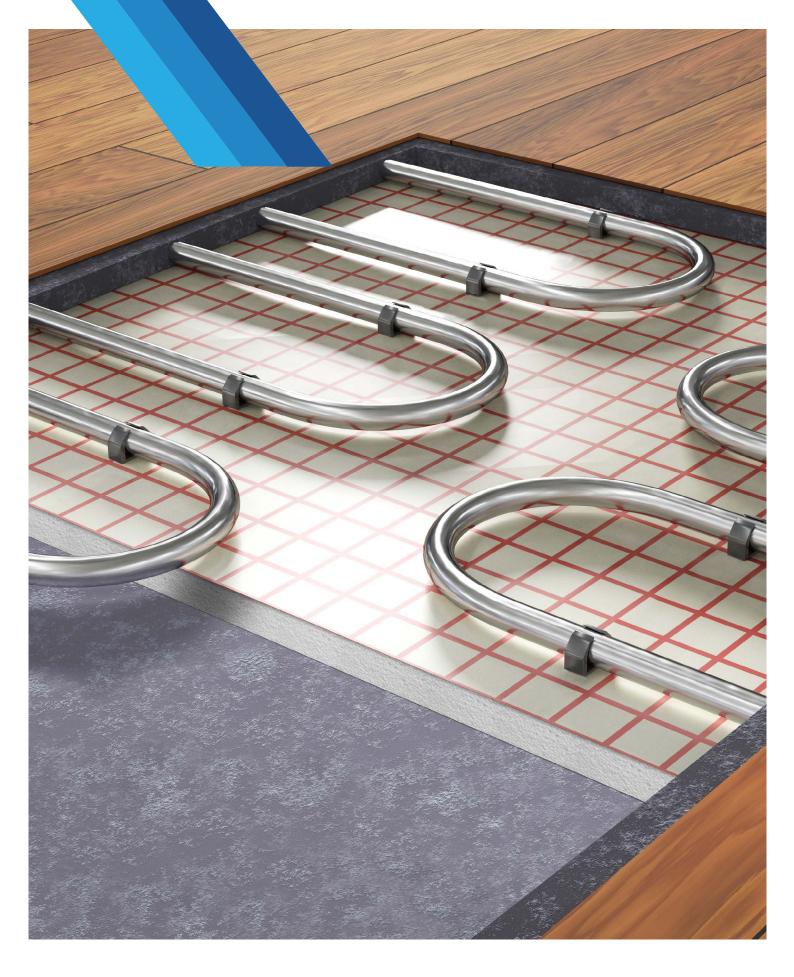


System Boards

KR50 1G	24
KR75 1G	
KR50/L 1G	26
KR75/L 1G	27
KR/N 1G	28
KR/N 2G EPS T 040	
NPS	



The manufacturer shall not be responsible for errors contained in this catalog. The folder is for illustrative purposes only and does not constitute an offer within the meaning of the Civil Code



Insulation Boards

IZOROL-L	5
IZOROL-L pack duo	6
IZOROL-PP pack duo	
IZOROL-PP	7

INSULATION BOARDS

The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

- The boards are made of bands of expanded polystyrene covered on one sided with multilayered 0,13 mm thick laminate with aluminium film inside - the IZOROL foil,
- To facilitate mounting heating pipes the top surface has imprint of straight, dotted and dashed lines,
- Standard dimensions: length 500cm, width 100cm, thickness 25mm, 30mm or 50mm.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3) L(2)	- 1% ; + is not limited ± 2mm
Width	mm	W(2) W(3)	± 2mm ± 0,6% or ± 3 mm
Thickness	mm	T(2) T(1) T(0)	± 2 mm ± 1 mm −0; +10% or 2mm for dL< 35mm −0; +15% or 3mm for dL≥ 35mm
Squareness	mm/m	S(5) S(2)	± 5 mm/1000 mm ± 2 mm/1000 mm
Flatness	mm	P(10) P(5)	± 10 mm ± 5 mm
Bending strength	kPa	BS 50 BS150 BS250	≥ 50 ≥ 150 ≥ 250
Compression stress levels at 10% relative deformation	kPa	CS(10)100 CS(10)200	≥ 100 ≥ 200
Dimensional stability in normal constant laboratory conditions	%	DS(N)5	± 0,5
Dimensional stability in set temperature conditions (70° C, 48h)	%	DS(70,-)2	max 2
Deformation in set compression load and temperature: Load: 20 kPa, temperature: 80 ± 1°, time: 48 ± 1h Load: 40 kPa, temperature: 70 ± 1°, time: 168 ± 1h	%	DLT(1)5 DLT(2)5	≤ 5 ≤ 5
Compressibility	mm	CP2 CP3	<2 <3
Dynamic stiffness	mMN/m³m	SD 15,20,25,30	<15 <20 <25 <30
Declared thermal conductivity EPS 100, EPS 200, EPS T 040, EPS T 045	W/mK		0,038, 0,034, 0,040, 0,045
Fire reaction		E	

IZOROL-L BOARDS ARE MADE THE FOLLOWING BOARDS IN ACCORDANCE WITH EN 13163

IZOROL-L EPS 100 insulation boards EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-BS150-CS(10)100-DS(N)5-DS(70,-)2-DLT(1)5 IZOROL-L EPS 200 insulation boards EPS-EN 13163 T(1)-L(2)-W(2)-S(2)-P(5)-BS250-CS(10)200-DS(N)5-DS(70,-)2-DLT(2)5 IZOROL-L EPS T 040 insulation boards EPS-EN 13163 T(0)-L(3)-W(3)-S(5)-P(10)-BS50-DS(N)5-SD(25-30)-CP2 IZOROL-L EPS T 045 insulation boards EPS-EN 13163 T(0)-L(3)-W(3)-S(5)-P(10)-BS50-DS(N)5-SD(15-20)-CP3

TECHNICAL SPECIFICATION

5

IZOROL-L PACK

- Izorol-L pack insulation boards were developed with view to facilitate transport and storage of the boards, as well as to improve their visual properties,
- They are made of

stripes of EPS of various thickness thanks to which after assembly the board takes the shape of a cuboid,

The boards are wrapped with PE

foil to protect them against mechanical damage during transport and storage.

Dimensions: 10m x 1m x 20 - 35mm

This package procedure is available for all types of

expanded polystyrene (EPS 100, EPS 200, EPS T 040, EPS T 045), with thickness ranging 20 – 35mm

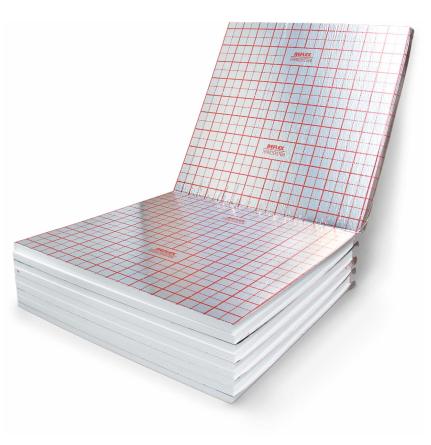
The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

IZOROL-L DUO

The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

- IZOROL-L duo insulation boards are made of two uncut expanded polystyrene boards size 100cm x 100cm. The multipack contains 5 pieces each 2m²,
- The boards are wrapped with PE foil to
- protect them against mechanical damage during transport and storage,
- This package procedure is available for all

types of expanded polystyrene (EPS 100, EPS 200, EPS T 040, EPS T 045) for each available thickness of boards.



INSULATION BOARDS

The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

> The main advantage of Izorol-PP boards is their top endurance of the surface (fabric) to tearing. It is of great importance in case of singlelayer pipes requiring harder anchoring in insulation.

- The boards are made of bands of expanded polystyrene covered on one sided with polypropylene fabric coated with polypropylene,
- To facilitate mounting heating pipes the top surface
 - has imprint of straight, dotted and dashed lines,
- Standard dimensions: length 500cm, width 100cm, thickness 25mm, 30mm or 50mm.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3) L(2)	- 1% ; + is not limited ± 2mm
Width	mm	W(2) W(3)	± 2mm ± 0,6% or ± 3 mm
Thickness	mm	T(2) T(1) T(0)	± 2 mm ± 1 mm −0; +10% or 2mm for dL< 35mm −0; +15% or 3mm for dL≥ 35mm
Squareness	mm/m	S(5) S(2)	± 5 mm/1000 mm ± 2 mm/1000 mm
Flatness	mm	P(10) P(5)	± 10 mm ± 5 mm
Bending strength	kPa	BS 50 BS150 BS250	≥ 50 ≥ 150 ≥ 250
Compression stress levels at 10% relative deformation	kPa	CS(10)100 CS(10)200	≥ 100 ≥ 200
Dimensional stability in normal constant laboratory conditions	%	DS(N)5	± 0,5
Dimensional stability in set temperature conditions (70° C, 48h)	%	DS(70,-)2	max 2
Deformation in set compression load and temperature: Load: 20 kPa, temperature: 80 ± 1°, time: 48 ± 1h Load: 40 kPa, temperature: 70 ± 1°, time: 168 ± 1h	%	DLT(1)5 DLT(2)5	≤ 5 ≤ 5
Compressibility	mm	CP2 CP3	≤2 ≤3
Dynamic stiffness	mMN/m³m	SD 15,20,25,30	≤15 ≤20 ≤25 ≤30
Declared thermal conductivity: EPS 100, EPS 200, EPS T 040, EPS T 045	W/mK		0,038, 0,034, 0,040, 0,045
Fire reaction		E	

IZOROL-PP BOARDS ARE MADE THE FOLLOWING BOARDS IN ACCORDANCE WITH EN 13163

IZOROL-PP EPS 100 insulation boards EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-BS150-CS(10)100-DS(N)5-DS(70,-)2-DLT(1)5 IZOROL-PP EPS 200 insulation boards EPS-EN 13163 T(1)-L(2)-W(2)-S(2)-P(5)-BS250-CS(10)200-DS(N)5-DS(70,-)2-DLT(2)5 IZOROL-PP EPS T 040 insulation boards EPS-EN 13163 T(0)-L(3)-W(3)-S(5)-P(10)-BS50-DS(N)5-SD(25-30)-CP2 IZOROL-PP EPS T 045 insulation boards EPS-EN 13163 T(0)-L(3)-W(3)-S(5)-P(10)-BS50-DS(N)5-SD(15-20)-CP3

TECHNICAL SPECIFICATION

7

IZOROL-PP PACK

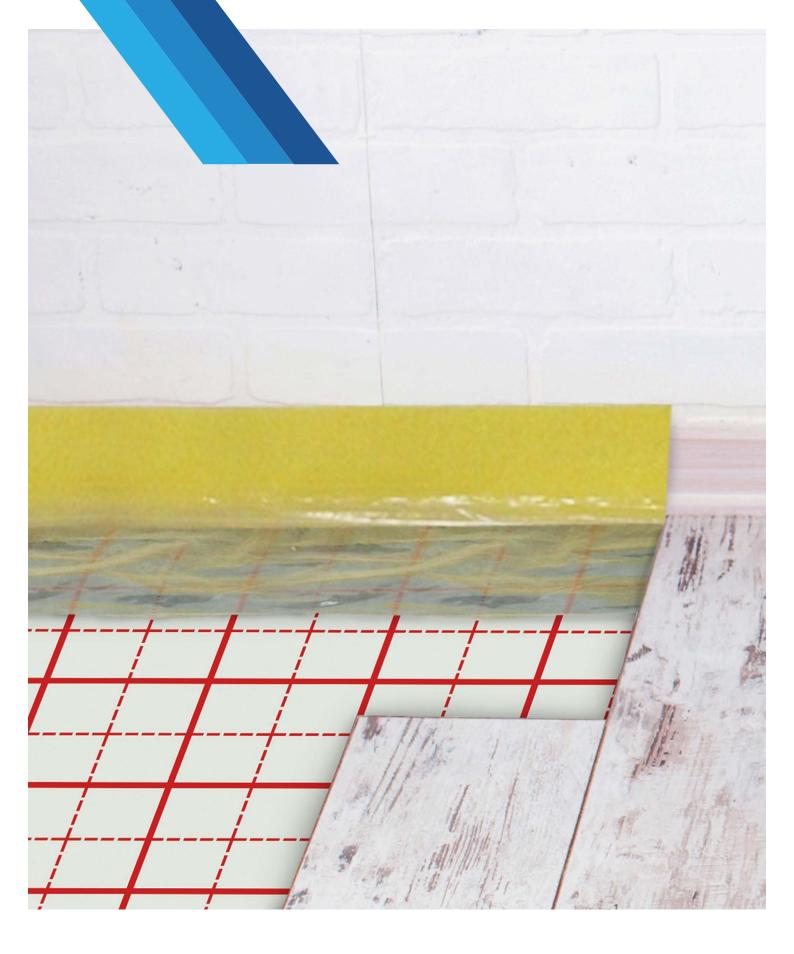
- Izorol-PP pack insulation boards were developed with view to facilitate transport and storage of the boards, as well as to improve their visual properties,
- They are made of stripes of EPS of various thickness thanks to which after assembly the board takes the shape of a cuboid,
- The boards are wrapped with PE foil to protect them against mechanical damage during transport and storage,
- Dimensions: 10m x 1m x 20 35mm,
- This package procedure is available for all types of expanded polystyrene (EPS 100, EPS 200, EPS T 040, EPS T 045), with thickness ranging 20 – 35mm.

The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

IZOROL-PP DUO

The boards are used as thermal, acoustic and damp insulation in water floor heating systems in residential buildings as well as public utilities.

- IZOROL-PP duo insulation boards are made of two uncut expanded polystyrene boards size 100cm x 100cm. The multipack contains 5 pieces each 2m²,
- The boards are wrapped with PE foil to protect them against mechanical damage during transport and storage,
- This package procedure is available for all types of expanded polystyrene (EPS 100, EPS 200, EPS T 040, EPS T 045) for each available thickness of boards.



Edge Strips

EDGE STRIPS KOTAR

The edge strips separates floating floors from the wall working as a movement joint



- The edge strips is made of foamed polyethylene of thickness of app. 25 kg/m³,
- The width of applied tape depends on the thickness of the floor layers and should be selected in such a way that its top edge would protrude after laying the backing of the floor,
- Once the backing grows solid, the excess of the tape must be cut off with a knife,
- Dimensions: thickness 8mm, width 13 16cm, length 25 or 50 running meters.

EDGE STRIPS KOTAR with overlaps and notches

- In addition to the parameters of the notched version, it comes along with a PE foil overlap of 20 cm width used for covering joints of vertical insulation (edge tape) and horizontal insulation (eg. IZOROL boards),
- The multipack contains: 150 running meter (6 rolls of 25 rm) or 250 running meters (5 rolls of 50 rm).





EDGE STRIPS KOTAR self-adhesive

- The edge strips is available both with overlap and notches and only with notches,
- On the inside a strip of adhesive of 3 cm width has been applied, covered with silicon-coated paper layer,
- The adhesive is to facilitate application of the edge tape in floating floors construction.

EDGE STRIPS KOTAR notched

- The edge strips is made of foamed polyethylene LDPE of minimum thickness of app. 25 kg/m3, thickness 8 mm, width 15 cm and length 25 or 50 running meters,
- There are 5 notches every centimetre of the top edge which helps tear the excess of the tape off the floor,
- The multipack contains:
 150 running meter (6 rolls of 25 rm) or 250 running meters (5 rolls of 50 rm).





Insulation Foils

IZOROL	11
IZOFOLIX	12

- Floor heating Izorol foil is a laminate of polyethylene foil and metalized polypropylene foil of total thickness of 0,13mm,
- On the top side there is an imprint of straight continuous lines forming squares of 10 cm width and dashed lines forming squares of 5 cm width facilitating appropriate distribution of heating pipes,
- Foil width 105 cm ± 2%,
- Thickness 0,13mm ± 10%,
- The foil is supplied in a band of 50 running meters length.



The foil protects EPS boards against the moisture contained inside the concrete as well as against the concrete mass itself during screed formation. What is more, the foil makes it easier to anchor the assembly clips while mounting the floor heating pipes.

TECHNICAL SPECIFICATION

Surface mass $- 128 \text{ g/m}^2 \pm 5\%$

Tensile strength:

- Maximum tensile strength:
 - along ≥ 20 MPA
 - across ≥ 30 MPA
- Extension at maximum tension:
 - along ≥ 65%
 - across ≥ 15%

ASSEMBLY

- The foil has to be placed with printed side upwards,
- The print facilitates pipe distribution,
- Avoid wrinkling while unfolding the roll of foil,
- The edges between foil layers must be connected with adhesive tape of 50 mm width.

INSULATION FOIL

The foil protects EPS boards against the moisture contained inside the concrete as well as against the concrete mass itself during screed formation. What is more, the foil makes it easier to anchor the assembly clips while mounting the floor heating pipes.

- Floor heating Izofolix foil is a laminate of polyethylene foil and metalized polypropylene foil of total thickness of 0,105mm,
- On the top side there is an imprint of straight continuous lines forming squares of 10 cm width and dashed lines forming squares of 5 cm width facilitating appropriate distribution of heating pipes,
- Foil width 102 cm ± 2%,
- Thickness 0,105mm ± 10%,
- The foil is supplied in a band of 50 running meters length.

ASSEMBLY

- The foil has to be placed with printed side upwards,
- The print facilitates pipe distribution,
- Avoid wrinkling while unfolding the roll of foil,
- The edges between foil layers must be connected with adhesive tape of 50 mm width.

TECHNICAL SPECIFICATION

Surface mass – $100 \text{ g/m}^2 \pm 5\%$

Tensile strength:

- maximum tensile strength
 - along ≥ 25 MPA
 - across ≥ 35 MPA
- Extension at maximum tension:
 - along ≥ 70%
 - across ≥ 15%

Underfloor Heating Accessories





TUBE CLAMPS

SIZE (mm)	COLOUR	PACKAGING
45	black, red or blue	100 pcs 200 pcs or 500 pcs

TUBE CLAMPS

SIZE (mm)	COLOUR	PACKAGING
45	black, red or blue	10 x 50 pcs (500pcs)
38	blue	6 x 50 pcs (300pcs)
60	black (welded)	10 x 50 pcs (500pcs)



SIZE (mm)	COLOUR	PACKAGING
8 x 77	black or white	100 pcs
10 x 100	black or white	100 pcs





DOUBLE PLUG CLAMP

SIZE (mm)	COLOUR	PACKAGING
8 x 77	black or white	100 pcs
10 x 100	black or white	100 pcs



FAST MONTAGE CLIPS

SIZE (mm)	COLOUR	PACKAGING
37	red	100 pcs



PIPE CLAMP FOR CU PIPE

WITH WALL PLUG AND SCREW

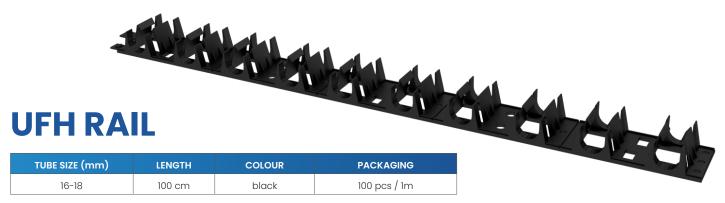
SIZE (mm)	COLOUR	PACKAGING
18	white	50 pcs
22	white	50 pcs
28	white	50 pcs



DUOBLE PIPE CLAMP FOR CU PIPE

WITH WALL PLUG AND SCREW

SIZE (mm)	COLOUR	PACKAGING
18	white	50 pcs
22	white	50 pcs
28	white	50 pcs



The rail is also available in a self-adhesive version



CLIP TO RAIL

SIZE (mm)	COLOUR	PACKAGING
45	red	100 pcs



COLOUR	PACKAGING
silver	1 pcs





FOR UNDERFLOOR HEATING BOARDS

SI	ZE (mm)	COLOUR	PACKAGING
48r	nm x 60m	white	1 pcs



GUIDING ARCH

SIZE (mm)	COLOUR	PACKAGING
14-18mm	grey	100 pcs

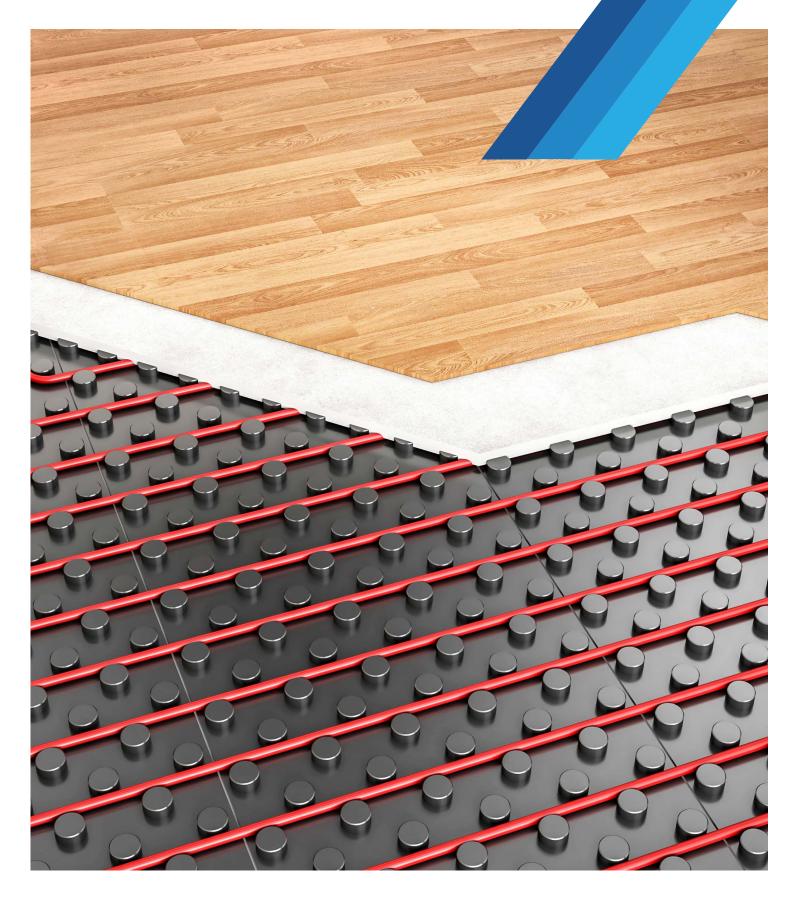
T-80 EXPANSION BEAD MOVEMENT JOINT PROFILE

PROFILE T-80 IS MEANT TO FILL MOVEMENT JOINT SLOTS IN VAST CONCRETE FLOORS

HEIGH	WIDTH	LENGTH
80mm	30mm	2000mm



Also available in a self-adhesive version.



KR 50 1G	24
KR 75 1G	
KR 50/L 1G	26
KR 75/L 1G	27
KR/N 1G	
KR/N 2G EPS T 040	29
NPS	

System Boards

SYSTEM BOARDS

The boards are made of EPS styrofoam according to EN 13163,

- The boards are available in the following dimensions:
 1200 mm x 600 mm x 22 or 30 mm,
- Height of the outlets: 20,50 mm.

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3)	± 0,6% or ± 3 mm ¹
Width	mm	W(3)	± 0,6% or ± 3 mm ¹
Thickness	mm	T(2)	± 2 mm
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength: EPS 150 EPS 200	kPa	BS200 BS250	≥ 200 ≥ 250
Compression stress levels at 10% relative deformation: EPS 150 EPS 200	kPa	CS(10)150 CS(10)200	≥ 150 ≥ 200
Dimensional stability at specified temperature (70° C, 48h)	%	DS(70,-)1	max 1%
Deformation at specified compression stress and temperature (stress: 40kPa, temperature 70 ± 1°C,time: 168 ± 1h)	%	DLT(2)5	≤ 5
Declared thermal conductivity: EPS 150 EPS 200	W/mK		0,033 0,035
Fire reaction		E	
Board dimensions	mm		1200 x 600
Board dimensions incl. overlaps	mm		1220 x 620
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		50
Multiple unit package: = 22mm = 30mm	pcs		12 10

¹ The value of highest numerical tolerance

TECHNICAL SPECIFICATION

KR50 SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 **KR50 1G EPS 150 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS200-CS(10)150-DS(70,-)1-DLT(2)5 **KR50 1G EPS 200 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS250-CS(10)200-DS(70,-)1-DLT(2)5



The boards are made of EPS styrofoam according to EN 13163,

- The boards are available in the following dimensions:
 1200 mm x 600 mm x 22 or 30 mm,
 - Height of the outlets: 20,50 mm.

TECHNICAL

SPECIFICATION

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3)	± 0,6% or ± 3 mm'
Width	mm	W(3)	± 0,6% or ± 3 mm'
Thickness	mm	T(2)	± 2 mm
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength: ■ EPS 150 ■ EPS 200	kPa	BS200 BS250	≥ 200 ≥ 250
Compression stress levels at 10% relative deformation: EPS 150 EPS 200	kPa	CS(10)150 CS(10)200	≥ 150 ≥ 200
Dimensional stability at specified temperature (70° C, 48h)	%	DS(70,-)1	max 1%
Deformation at specified compression stress and temperature (stress: 40kPa, temperature 70 ± 1°C,time: 168 ± 1h)	%	DLT(2)5	≤ 5
Declared thermal conductivity: EPS 150 EPS 200	W/mK		0,033 0,035
Fire reaction		E	
Board dimensions	mm		1200 x 600
Board dimensions incl. overlaps	mm		1220 x 620
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		75
Multiple unit package: 22mm 30mm	pcs		12 10

¹ The value of highest numerical tolerance

KR75 SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 KR75 1G EPS 150 system boards EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS200-CS(10)150-DS(70,-)1-DLT(2)5 KR75 1G EPS 200 system boards EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS250-CS(10)200-DS(70,-)1-DLT(2)5

SYSTEM BOARDS

- The boards are made of EPS styrofoam according to EN 13163, covered on one side with thermally formed PS polystyrene foil,
- The boards are available in the following dimensions
 1200 mm x 600 mm x 22 or 30 mm,
- Height of the outlets: 20,50 mm.

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3)	± 0,6% or ± 3 mm ¹
Width	mm	W(3)	± 0,6% or ± 3 mm ¹
Thickness	mm	T(2)	± 2 mm
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength: EPS 150 EPS 200	kPa	BS200 BS250	≥ 200 ≥ 250
Compression stress levels at 10% relative deformation: EPS 150 EPS 200	kPa	CS(10)150 CS(10)200	≥ 150 ≥ 200
Dimensional stability at specified temperature (70° C, 48h)	%	DS(70,-)1	max 1%
Deformation at specified compression stress and temperature (stress: 40kPa, temperature 70 ± 1°C,time: 168 ± 1h)	%	DLT(2)5	s 5
Declared thermal conductivity: EPS 150 EPS 200	W/mK		0,033 0,035
Fire reaction		F	
Board dimensions	mm		1200 x 600
Board dimensions incl. overlaps	mm		1220 x 620
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		50
Foil thickness	mm		0,20
Multiple unit package: = 22mm = 30mm	pcs		12 10

' The value of highest numerical tolerance

TECHNICAL

SPECIFICATION

KR50/L SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 **KR50/L 1G EPS 150 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS200-CS(10)150-DS(70,-)1-DLT(2)5 **KR50/L 1G EPS 200 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS250-CS(10)200-DS(70,-)1-DLT(2)5



The boards are made of EPS styrofoam according to EN 13163, covered on one side with thermally formed PS polystyrene foil,

The boards are available in the following dimensions:
 1200 mm x 600 mm x 22 or 30 mm,

 Height of the outlets: 20,50 mm.

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3)	± 0,6% or ± 3 mm'
Width	mm	W(3)	± 0,6% or ± 3 mm'
Thickness	mm	T(2)	± 2 mm
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength: EPS 150 EPS 200	kPa	BS200 BS250	≥ 200 ≥ 250
Compression stress levels at 10% relative deformation: EPS 150 EPS 200	kPa	CS(10)150 CS(10)200	≥ 150 ≥ 200
Dimensional stability at specified temperature (70° C, 48h)	%	DS(70,-)1	max 1%
Deformation at specified compression stress and temperature (stress: 40kPa, temperature 70 ± 1°C,time: 168 ± 1h)	%	DLT(2)5	≤ 5
Declared thermal conductivity: EPS 150 EPS 200	W/mK		0,033 0,035
Fire reaction		F	
Board dimensions	mm		1200 x 600
Board dimensions incl. overlaps	mm		1220 x 620
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		75
Foil thickness	mm		0,20
Multiple unit package: 22mm 30mm	pcs		12 10

¹ The value of highest numerical tolerance

KR75/L SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 **KR75/L 1G EPS 150 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS200-CS(10)150-DS(70,-)1-DLT(2)5 **KR75/L 1G EPS 200 system boards** EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS250-CS(10)200-DS(70,-)1-DLT(2)5

TECHNICAL SPECIFICATION

SYSTEM BOARDS KR/N 1G

- The boards are made of EPS styrofoam according to EN 13163, covered on one side with thermally formed polystyrene foil,
- The boards are available in the following dimensions: 1400 mm x 800 mm x 11 or 30 mm,
- Height of the outlets: 22 mm.

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Length	mm	L(3)	± 0,6% or ± 3 mm ¹
Width	mm	W(3)	± 0,6% or ± 3 mm'
Thickness	mm	T(2)	± 2 mm
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength: EPS 150 EPS 200	kPa	BS200 BS250	≥ 200 ≥ 250
Compression stress levels at 10% relative deformation: EPS 150 EPS 200	kPa	CS(10)150 CS(10)200	≥ 150 ≥ 200
Dimensional stability at specified temperature (70° C, 48h)	%	DS(70,-)1	max 1%
Deformation at specified compression stress and temperature (stress: 40kPa, temperature 70 ± 1°C,time: 168 ± 1h)	%	DLT(2)5	≤ 5
Declared thermal conductivity EPS 150 EPS 200	W/mK		0,035 0,033
Fire reaction		F	
Board dimensions	mm		1400 x 800
Board dimensions incl. overlaps	mm		1450 x 850
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		50
Foil thickness	mm		0,60
Multiple unit package: Ilmm 30mm	pcs		14 10

' The value of highest numerical tolerance

TECHNICAL

SPECIFICATION

KR/N SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 KR/N 1G EPS 150 system boards EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS200-CS(10)150-DS(70,-)1-DLT(2)5 KR/N 1G EPS 200 system boards

EPS-EN 13163 T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS250-CS(10)200-DS(70,-)1-DLT(2)5

SYSTEM BOARDS KR/N 2G EPS T 040

 The boards are made of EPS styrofoam according to EN 13163, covered on one side with thermally formed polystyrene foil,

> The boards are available in the following dimensions: 1400 mm x 800 mm x 30 mm,

> > Height of the outlets: 22 mm.

The boards are used as a thermal insulation for floor heating systems in residential buildings and public utilities.

PROPERTY	UNIT	CLASS	REQUIREMENTS
Długość	mm	L(3)	± 0,6% or ± 3 mm'
Width	mm	W(3)	± 0,6% or ± 3 mm'
Thickness	mm	T(2)	(-0mm; +10% or 2mm)
Squareness	mm/m	S(5)	± 5 mm/1000 mm
Flatness	mm	P(10)	± 10 mm
Dimension stability in normal constant laboratory conditions	%	DS(N)2	± 0,2
Bending strength	kPa	BS100	≥ 100
Dynamic stiffness	MN/m³	SD30	≥ 30
Compressibility	mm	CP2	≤ 2 mm
Declared thermal conductivity	W/mK		0,040
Fire reaction		F	
Board dimensions	mm		1400 x 800
Board dimensions incl. overlaps	mm		1450 x 850
Foil thickness	mm		0,60
Acceptable dimensions of heating pipes	mm		14 - 18
Pipe's bend	mm		50
Multiple unit package	pcs		10

' The value of highest numerical tolerance

KR/N 2G SYSTEM BOARDS ARE MADE OF EXPANDED POLYSTYRENE IN ACCORDANCE WITH EN 13163 **KR/N 2G EPS T 040 system boards** EPS-EN 13163 T(0)-L(3)-W(3)-S(5)-P(10)-DS(N)2-BS100-SD30-CP2

TECHNICAL SPECIFICATION

BOARDS

- The boards are made of polystyrene foil without EPS styrofoam insulation,
- The boards are available in the following dimensions:
 1400 mm x 800 mm x 1 mm
- Height of the outlets: 22 mm
- Multiple unit package: 14 pcs

PROPERTY	UNIT	REQUIREMENTS
Lenght	mm	1400
Width	mm	800
Lenght with an overlap	mm	1450
Lenght with an overlap	mm	850
Thickness	mm	1
Height of the outlet	mm	22
Acceptable dimensions of heating pipes	mm	14-18
Pipe's bend	mm	50

Supplements for KR boards



EXPANSION STRIP

N-PS

DIMENSIONS	MULTIPLE UNIT PACKAGE
1450mm x 200mm x 0,60mm	20 pcs



N-PS

DIMENSIONS	MULTIPLE UNIT PACKAGE
1450mm x 100mm x 0,60mm	24 pcs

EXPANSION STRIP

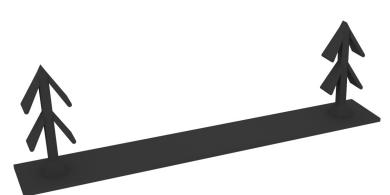
 DIMENSIONS
 MULTIPLE UNIT PACKAGE

 1000mm x 200mm x 30mm
 30 pcs



DIAGONAL 45° N-PS

DIMENSIONS	MULTIPLE UNIT PACKAGE
140mm x 70mm x 0,60mm	40 pcs



CLIP TYPE MT

FLOOR CLIP



DIMENSIONS	MULTIPLE UNIT PACKAGE
28mm x 90mm x 14mm	100 pcs

	0	
1	n	
-		

KOTAR sp. z o. o.

Kosciuszki street 33 56-100 Wolow e-mail: kotar@kotar.pl phone +48/71 389 23 16 +48/71 389 44 94 fax +48/71 389 44 94 ex. 21



www.**kotar**.pl