

The logo features a dark blue silhouette of a gabled roof above the company name. The text is in a bold, sans-serif font.

**MASTERPLAST**  
**GROUP INTERNATIONAL**

[www.masterplastgroup.com](http://www.masterplastgroup.com)

**HEAT AND SOUND  
INSULATION MATERIALS**

# HEAT AND SOUND INSULATION MATERIALS

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ISOMASTER® EPS thermal- and sound insulation materials are made of expanded polystyrene, which are durable and has good thermal resistance, thanks to its special cell structure. The designation in the name of the product refers to the compressive strength of the material. Easy to work and form the material, that is applicable between (-)65°C – (+)85°C, but the installation of it is not recommended, where the temperature long-time exceeds (+)70°C. In places exposed to humidity, the application of these products is not offered, because the moisture degrades their thermal resistance. They contain flame-retardant additives and belong to Euroclass “E” (according to EN 13501-1), they are not dripping during combustion and are self-extinguishing after elimination of direct flame effect. The product is not environment depleting, but its mechanical protection after installation is necessary. ISOMASTER® EPS boards are available in boards (50×100 cm).



**Fields of application:** Non-loadable thermal insulation board, as non-passable insulation of loft spaces, among wooden battens under OSB sheet boarding, in expansions gaps of buildings.

**Marking:** blue line

**Compression strength (10%):** 30 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.04 W/mK

**Water vapour resistance factor ( $\mu$ ):** 20-40

**Designation:** EPS EN 13163-T1-L1-W1-S1-P4-DS(70)3-BS50-CS(10)30-DS(N)5



Width	Available	Code
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-03002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-03003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-03004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-03005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-03006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-03007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-03008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-03010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-03012000





**Fields of application:** thermal insulation under moderate load. In ventilated cold roof structures, with ventilated air gap behind assembled façade covering; with or without a ventilated air gap in double-layer masonry; on the lower plane of a slab with or without covering, among wooden battens under OSB sheet boarding.

**Marking:** 2×blue line

**Compression strength (10%):** 70 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.038 W/mK

**Water vapour resistance factor ( $\mu$ ):** 30-40

**Designation:** EPS EN 13163-T1-L1-W1-S1-P4-DS(70.-)3-BS115-CS(10)70-DS(N)5



With	Available	Code
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-07002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-07003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-07004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-07005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-07006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-07007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-07008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-07010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-07012000



**Fields of application:** Thermal insulation of external thermal insulation systems, covered with proper finishing coat (e.g. acrylic or silicone rendering).

**Marking:** red line

**Compression strength (10%):** 80 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.038 W / mK

**Water vapour resistance factor ( $\mu$ ):** 25-40

**Designation:** EPS EN 13163-T2-L2-W2-S2-P4-BS125-CS(10)80-DS(N)2-DS(70)1-TR150



With	Available	Code
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-08002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-08003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-08004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-08005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-08006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-08007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-08008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-08010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-08012000



Other thicknesses just for order!

# HEAT AND SOUND INSULATION MATERIALS

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**ISOMASTER** EPS 100  
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**Fields of application:** Load-bearing thermal insulating board of domestic floors or load-bearing floors with normal load and waterproof protection. It is also applicable as passable insulation of floors with OSB covering or concrete and in conventional flat roofs and in extensive green roofs.

**Marking:** yellow line

**Compression strength (10%):** 100 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.036 W/mK

**Water vapour resistance factor ( $\mu$ ):** 20-40

**Designation:** EPS EN 13163-T1-L1-W1-S1-P4-BS150-CS(10)100-DS(N)5-DLT(1)5



With	Available	Code
1 cm	0,25 m <sup>3</sup> /bale, 50 pcs/bale	0501-10001000
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-10002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-10003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-10004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-10005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-10006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-10007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-10008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-10010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-10012000



**ISOMASTER** EPS 150  
www.masterplastgroup.com

**Fields of application:** Load-bearing thermal insulating board of floors and slabs with higher load (max. 500kg/m<sup>2</sup>) and waterproof protection. It is also applicable in conventional flat roofs and in extensive or in intensive green roofs.

**Marking:** black line

**Compression strength (10%):** 150 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.035 W/mK

**Water vapour resistance factor ( $\mu$ ):** 40-45

**Designation:** EPS EN 13163-T1-L1-W1-S1-P4-BS200-CS(10)150-DS(N)5-DLT(2)5



With	Available	Code
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-15002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-15003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-15004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-15005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-15006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-15007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-15008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-15010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-15012000

\*Only for order





**Application:** Fields of application: Load-bearing thermal insulating board of floors and slabs with higher load (max. 750kg/m<sup>2</sup>) and waterproof protection. It is also applicable in conventional flat roofs and in extensive or in intensive green roofs.

**Marking:** 2×black line

**Compression strength (10%):** 200 kPa

**Declared thermal conductivity ( $\lambda_D$ ):** 0.033 W/mK

**Water vapour resistance factor ( $\mu$ ):** 40-45

**Designation:** EPS EN 13163-T1-L1-W1-S1-P4-BS250-CS(10)200-DS(N)5-DLT(2)5



With	Available	Code
2 cm	0,24 m <sup>3</sup> /bale, 24 pcs/bale	0501-20002000
3 cm	0,24 m <sup>3</sup> /bale, 16 pcs/bale	0501-20003000
4 cm	0,24 m <sup>3</sup> /bale, 12 pcs/bale	0501-20004000
5 cm	0,25 m <sup>3</sup> /bale, 10 pcs/bale	0501-20005000
6 cm	0,24 m <sup>3</sup> /bale, 8 pcs/bale	0501-20006000
7 cm	0,245 m <sup>3</sup> /bale, 7 pcs/bale	0501-20007000
8 cm	0,24 m <sup>3</sup> /bale, 6 pcs/bale	0501-20008000
10 cm	0,25 m <sup>3</sup> /bale, 5 pcs/bale	0501-20010000
12 cm	0,24 m <sup>3</sup> /bale, 4 pcs/bale	0501-20012000

\*Only for order



ISOMASTER® Impact-sound insulating board with low dynamic stiffness. The numbers in the designation of the products refer to the thickness of the boards in unloaded/loaded condition.

**Field of application:** As an impact sound insulation on intermediate ceiling in floated screed structure.

**Installation:** The load-bearing capacity of the boards has to be taken into consideration at planning. After laying of the boards, a separating PE foil layer is necessary, if it will be covered by concrete. The thickness of this rigid screed above should be at least half as big as the insulation. In order to avoid sound bridges, along the connecting walls and around floor penetrations (e.g. pipes), minimum 5 mm thick ISOFOAM® border strip has to be installed.

**Marking:** green line



	ISOMASTER® 23/20	ISOMASTER® 34/30	ISOMASTER® 45/40
Step-sound insulation improvement ( $\Delta L'_{nw}$ ) (according to ÖNORM B 8115-4, under 120 kg/m <sup>2</sup> floating layer, with hard floor-covering)	23 dB	25 dB	26 dB

**Standard marking:** EPS EN 13163-T3-L1-W1-S1-P4-DS(N)5-SD50-CP5 (ISOMASTER® -A 23/20)  
 EPS EN 13163-T3-L1-W1-S1-P4-DS(N)5-SD40-CP5 (ISOMASTER® -A 34/30)  
 EPS EN 13163-T3-L1-W1-S1-P4-DS(N)5-SD30-CP5 (ISOMASTER® -A 45/40)

Thickness	Available	Code
23/20 mm	0,23 m <sup>3</sup> /bale, 20 pcs/bale	0509-02320000
34/30 mm	0,238 m <sup>3</sup> /bale, 14 db/bale	0509-03430000
45/40 mm	0,225 m <sup>3</sup> /bale, 10 pcs/bale	0509-04540000



## XPS Thermal insulation

The XPS thermal insulation materials are closed-cell extruded polystyrene foam products, free of CFC, HCFC and HFC additives. Their surface is skin or embossed for the plastering, the edge profile can be flat or rebated. Typical properties are: good thermal resistance, high compressive strength, closed-cell structure and low water absorption. Due to these properties, it can be installed in structures exposed to moisture (at cellar walls or in inverted flat roofs, without waterproofing). Application of the product is not recommended, where the temperature long-time exceeds (+)75°C. It contains flame-retardant additives and belongs to Euroclass “E” (according to EN 13501-1). It resists normal acids, alkalis occurring in natural soils, it is not sensitive to bitumen, but organic solvents and thinners destroy it. The XPS plates are available in different thicknesses between 2 and 14 cm, with a board size of 60cm×125cm (0,75 m<sup>2</sup>/board).



## Styrodur<sup>®</sup> 2500 C

**Fields of application:** Load-bearing thermal insulating board of domestic floors or load-bearing floors with normal load. It is also applicable as passable insulation in conventional flat roofs and on parapet walls, in pitched roofs and in ceilings.

**Installation:** it is not applicable for plastering (because of its skin surface).

**Edge profile:**

flat

**Compression strength (10%):**

150-200 kPa

**Water vapour resistance factor (μ):**

150-50

**Declared thermal conductivity (λ<sub>D</sub>):**

below 30 mm            0.032 W/mK  
between 40-60 mm    0.034 W/mK



Thickness	Available	Code
2 cm	0,3 m <sup>3</sup> /bale, 20 pcs/bale	0510-25002000
3 cm	0,315 m <sup>3</sup> /bale, 14 pcs/bale	0510-25003000
4 cm	0,3 m <sup>3</sup> /bale, 10 pcs/bale	0510-25004000
5 cm	0,3 m <sup>3</sup> /bale, 8 pcs/bale	0510-25005000
6 cm	0,315 m <sup>3</sup> / bale, 7 pcs/bale	0510-25006000



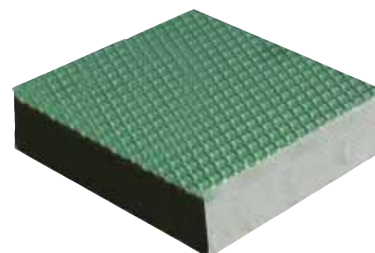


## Styrodur<sup>®</sup> 2800 C

**Fields of application:** for the thermal insulation of exterior base walls, internal walls, lost formworks, cold bridges, parapet walls, but it is also applicable in domestic and load-bearing floors. Due to its embossed surface, it ensures a good base for plaster works (e.g. base coat, cement plaster).

**Installation:** the boards can be fastened by adhesive or by anchors (above the level of the damp-proofing). Embedding of the glass fibre mesh into the plaster layer is necessary to avoid crackings.

<b>Edge profile:</b>	flat	
<b>Compression strength (10%):</b>	200-300 kPa	
<b>Water vapour resistance factor (<math>\mu</math>):</b>	200-80	
<b>Declared thermal conductivity (<math>\lambda_D</math>):</b>	below 30 mm	0.032 W/mK
	between 40–60 mm	0.034 W/mK
	above 60 mm:	0.038 W/mK



With	Available	Code
2 cm	0,3 m <sup>3</sup> /bale, 20 pcs/bale	0510-28002000
3 cm	0,315 m <sup>3</sup> /bale, 14 pcs/bale	0510-28003000
4 cm	0,3 m <sup>3</sup> /bale, 10 pcs/bale	0510-28004000
5 cm	0,3 m <sup>3</sup> /bale, 8 pcs/bale	0510-28005000
6 cm	0,315 m <sup>3</sup> /bale, 7 pcs/bale	0510-28006000
8 cm	0,3 m <sup>3</sup> /bale, 5 pcs/bale	0510-28008000
10 cm	0,3 m <sup>3</sup> /bale, 4 pcs/bale	0510-28010000
12 cm	0,36 m <sup>3</sup> /bale, 4 pcs/bale	0510-28012000



## Styrodur<sup>®</sup> 3035 CS

**Fields of application:** for the thermal insulation of load bearing floors or perimeter floor slabs, perimeter basement walls (until installation depth of 8 m) – in direct contact with the ground, as well as in inverted flat roofs, duo roofs, roof gardens, conventional flat roofs, parapet walls, etc.

**Installation:** Not applicable as a plaster base. The boards can be fastened by polyurethane-based adhesive or by anchors (above the level of the damp- or water proofing!). In flat roof structures it is applicable only in one layer! In green roofs, a separating layer (Terraplast Geotex or Tyvar PRO 125) is necessary between the XPS boards and the soil.

<b>Edge profile:</b>	up to 30 mm	flat
	above 30 mm	rebated
<b>Compression strength (10%):</b>	300 kPa	
<b>Water vapour resistance factor (<math>\mu</math>):</b>	150-50	
<b>Declared thermal conductivity (<math>\lambda_D</math>):</b>	below 30 mm	0.032 W/mK
	between 40-60 mm	0.034 W/mK
	above 60 mm:	0.048 W/mK



With	Available	Code
2 cm	0,3 m <sup>3</sup> /bale, 20 pcs/bale	0510-30002000
3 cm	0,015 m <sup>3</sup> /bale, 14 pcs/bale	0510-30003000
4 cm	0,3 m <sup>3</sup> /bale, 10 pcs/bale	0510-30004000
5 cm	0,3 m <sup>3</sup> /bale, 8 pcs/bale	0510-30005000
6 cm	0,315 m <sup>3</sup> /bale, 7 pcs/bale	0510-30006000
8 cm	0,3 m <sup>3</sup> /bale, 5 pcs/bale	0510-30008000
10 cm	0,3 m <sup>3</sup> /bale, 4 pcs/bale	0510-30010000

In the case of special orders, we can also supply Styrodur 4000 CS and 5000 CS!





## thermal insulating boards

The product is made of long-fibre woodwool, bonded with cement to form stable sheets that has outstanding sound absorption, durability, fire safety and impact resistance. Due to these favorable properties, it can be used as sound- and thermal insulation as well. In case of plastering, embedding of glass fiber mesh or spot-welded wire mesh in the plaster is necessary to avoid crackings. The material is capable to resist fire for a longer time, so it can be applied on facades of buildings. The product is also applicable as lost formwork, but it must be protected from moisture. It is available both as a homogeneous, single-layer product and as a multilayer product (with EPS or mineral wool core) with different thicknesses (25mm–100mm), the size of the boards is 50cm or 60cm×200cm (1.0 m<sup>2</sup> or 1.2 m<sup>2</sup>/board).



**Fields of application:** In built-in roofs, in single- or multilayer partitions, as lost formwork or as air-born sound insulation on walls and on ceilings.



Thickness:	25 mm	35 mm	50 mm
Plate weight:	11.5 kg	14.5 kg	19.5 kg
Compressive strength:	1.0 N/mm <sup>2</sup>	0.7 N/mm <sup>2</sup>	0.5 N/mm <sup>2</sup>
Thermal conductivity (λ):	0.074 W/mK	0.074 W/mK	0.074 W/mK
Thermal resistance (R):	0.338	0.473	0.676
Boards/pallet:	80	60	40
m <sup>2</sup> /palette:	80	60	40
Code:			
60×200 cm	0503-10025060	0503-10035060	0503-10050060
50×200 cm	0503-10025000	0503-10035000	0503-10050000



**Material:** EPS core with 5mm thick woodwool covering on one or both sides, which combines the properties of woodwool and EPS. Its thermal insulating property is better, than the homogeneous boards, but the sound absorbing ability and its fire resistance are more unfavourable. **Fields of application:** for the thermal insulation of ceilings, facades, balcony slabs, columns or as lost formwork.



Thickness:	25 mm	35 mm	50 mm	75 mm	100 mm
Plate weight:	8.2 kg	8.4 kg	8.6 kg	9.0 kg	9.4 kg
Compressive strength:	1.0 N/mm <sup>2</sup>	0.7 N/mm <sup>2</sup>	0.5 N/mm <sup>2</sup>	0.4 N/mm <sup>2</sup>	0.3 N/mm <sup>2</sup>
Thermal resistance (R):	0.531	0.794	1.189	1.847	2.504
Boards/pallet:	80	60	40	28	20
m <sup>2</sup> /palette:	96	72	48	33.6	24
Code:					
60×200 cm	0503-20025060	0503-20035060	0503-20050060	0503-20075060	0503-20100060
50×200 cm	0503-20025000	0503-20035000	0503-20050000	0503-20075000	0503-20100000





## WOODWOOL ROCK

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**Material:** mineral wool core with 5mm thick woodwool covering on both sides, which combines the favourable properties of woodwool and mineral wool. Its thermal insulating property is even better, than Woodwool EPS boards, in addition its sound absorbing ability, fire resistance are also favourable.

**Fields of application:** for the thermal insulation of ceilings, fa ades, balcony slabs, columns or as lost formwork.



Thickness:	50 mm	75 mm	100 mm
Plate weight:	12.0 kg	14.9 kg	18.0 kg
Compressive strength:	0.5 N/mm <sup>2</sup>	0.4 N/mm <sup>2</sup>	0.3 N/mm <sup>2</sup>
Thermal resistance (R):	1.279	1.993	2.707
Boards/pallet:	40	28	20
m <sup>2</sup> /palette:	40	28	20
Code:			
60×200 cm	0503-30050060	0503-30075060	0503-30100060
50×200 cm	0503-30050000	0503-30075000	0503-30100000



## WOODWOOL AC D Anchor with metal impact nail for woodwool

www.masterplastgroup.com

**Material:** polyamide dowel with metal impact nail

**Field of application:** For fastening heavy heat insulation boards (WOODWOOL, and WOODWOOL-EPS thicker than 35 mm) to wall or ceiling.

**Installation:** for boring needs a 10 mm drill bit. The necessary number of anchors for walls: 8 pieces/m<sup>2</sup>, for ceilings 10 pieces/m<sup>2</sup>. Fastening depth: in concrete and solid brick is minimum 40 mm, in hollow brick it is minimum 50 mm.



	Available	Code
WOODWOOL® AC D 90 mm	250 pcs/box	0503-50090250
WOODWOOL® AC D 120 mm	250 pcs/box	0503-50120250
WOODWOOL® AC D 140 mm	250 pcs/box	0503-50140250
WOODWOOL® AC D 160 mm (*only for order )	250 pcs/box	0503-50160250

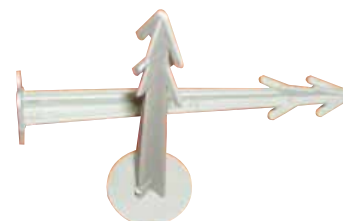


## WOODWOOL AC R Fastening mandrel

www.masterplastgroup.com

**Material:** hard plastic mandrel with an "arrow-like" sleeve design serving the proper fastening. The product is available in 4 different lengths in accordance with the thicknesses of the Woodwool insulation materials. Necessary depth of anchoring in concrete is minimum 5 cm.

**Field of application:** for fixing the insulating boards as lost formwork (Woodwool or XPS) in the fresh concrete. The necessary number of anchors for walls: 8 pieces/m<sup>2</sup>, for ceilings 10 pieces/m<sup>2</sup>.



	Available	Code
WOODWOOL® AC R 75 mm	500 pcs/box	0503-40075000
WOODWOOL® AC R 100 mm	500 pcs/box	0503-40100000
WOODWOOL® AC R 125 mm	500 pcs/box	0503-40125000
WOODWOOL® AC R 150 mm	500 pcs/box	0503-40150000



## NOBASIL MPN (M30)

**Material:** made of synthetic resin bonded mineral wool fibres, water-repellent insulation.

**Field of application:** non load-bearing and non-flammable thermal- and sound insulation of buildings (e.g.: among rafters, in partitions, above suspended ceilings, protected from permanent moisture).

**Designation:**

MW-EN 13162 -T5 - DS(TH) - WS - WL(P) - AF5

**Density:** 30 kg/m<sup>2</sup>

**Declared thermal conductivity ( $\lambda_D$ ):** 0.039 W/mK

**Reaction to fire:** A1

**Size of plate:** 600x1000 mm



Thickness	Available	Code
50 mm	7.2 m <sup>2</sup> /bale	0519-MPN05000
100 mm	3.6 m <sup>2</sup> /bale	0519-MPN10000
120 mm	3.0 m <sup>2</sup> /bale	0519-MPN12000



## thermal and sound insulating extruded Polyethylene foam

The ISOFOAM<sup>®</sup> product range consists of the softer, extruded polyethylene foam products (ISOFOAM<sup>®</sup>) and the extruded polystyrene products (ISOFOAM<sup>®</sup> XPS and XPS THERMO). Both are excellent floating layers, since compared to their thickness (2–10 mm), they have very good impact-sound insulating ability.



## IF 2 mm and IF 3 mm

**Material:** extruded polyethylene foam.

**Field of application:** As an impact sound insulation on intermediate ceiling, laid onto the concrete screed with a separating PE foam layer, under the laminated panels and wooden floors. It levels the unevenness of the base as well.



	Available	Code
ISOFOAM <sup>®</sup> IF 2 mm	In rolls, 1.1 m x 50 fm=55 m <sup>2</sup>	0505-02110050
ISOFOAM <sup>®</sup> IF 3 mm	In rolls, 1.1 m x 50 fm=55 m <sup>2</sup>	0505-03110050





## IF 5 mm and IF 10 mm

**Material:** extruded polyethylene foam.

**Field of application:** As an impact sound insulation on intermediate ceiling in floated screed structure. It levels the unevenness of the base. In order to avoid sound bridges, along the connecting walls and around floor penetrations (e.g. pipes), minimum 5 mm thick ISOFOAM® border strip has to be installed. The material is also applicable for covering concrete works in winter.



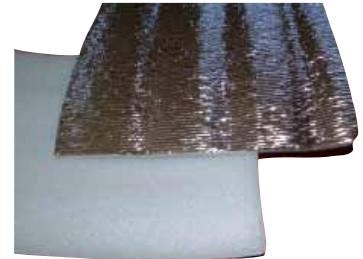
	Available	Code
ISOFOAM® IF 5 mm	In rolls, 1,1 m×50 fm=55 m <sup>2</sup>	0505-05110050
ISOFOAM® IF 10 mm	In rolls, 1 m×50 fm=50 m <sup>2</sup>	0505-10150050



## LF-ALU PET 3 mm and LF-ALU PET 5 mm

**Material:** extruded polyethylene foam with metalized Polyester lamination.

**Fields of application:** In all places where the thermal insulating and heat-reflective ability of this laminated product is advantageous. It is applicable behind radiators, or as a wall- and ceiling covering (e.g. in storehouses) with its laminated side inward to the heated space. ISOFOAM® LF-ALU PET 5 mm foam can be laid as a floating layer of floor heating with laminated side to the heated concrete screed. In order to avoid sound bridges, along the connecting walls and around floor penetrations (e.g. pipes), minimum 5 mm thick ISOFOAM® border strip has to be installed.



	Available	Code
ISOFOAM® LF-ALU PET 3 mm	In rolls, 1 m×50 fm=50 m <sup>2</sup>	0505-03100A50
ISOFOAM® LF-ALU PET 5 mm	In rolls, 1 m×50 fm=50 m <sup>2</sup>	0505-05100A50

Other dimensions on request



## CF border strip

**Material:** extruded polyethylene foam.

**Field of application:** In order to avoid sound bridges and the transmission of impact sound, to provide elastic jointing of the base and walls on intermediate ceilings in floated screed structure, along the connecting walls and around floor penetrations (e.g. pipes), minimum 5 mm thick ISOFOAM® border strip has to be installed. It is applicable for all types of floor insulation (EPS, XPS, glass wool). Available in rolls.



	Available	Code
ISOFOAM® CF Border strip 5 mm	In rolls, 5 mm×10 cm×50 fm	0504-05100050
ISOFOAM® CF Border strip 10 mm	In rolls, 10 mm×10 cm×50 fm	0504-10100050

Other dimensions available on request

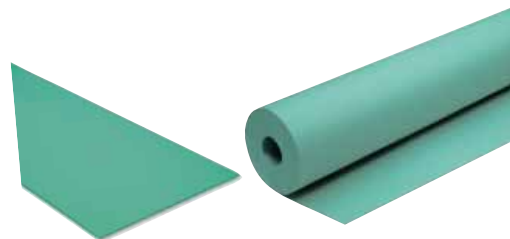




## XPS 2 mm and 4 mm

green extruded polystyrene foam

**Field of application:** The most up-to-date member of the ISOFOAM® product range. Its impact sound insulating ability is better ( $\Delta I_w$ : 20 dB) than the extruded polyethylene ISOFOAM®, so it is applicable in case of higher acoustic requirements under laminated panels and wooden floors. It levels the unevenness of the base and due to its high load-bearing capacity, it can be used e.g. in shops and in offices. Available in two thicknesses: 2 mm thick in rolls and 4 mm thick in sheets.



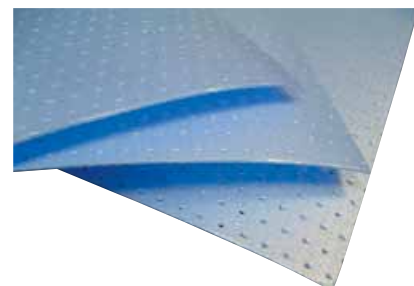
ISOFOAM® XPS	2 mm, in rolls	4 mm, in plates
Available	1.1×15 m (16.5 m <sup>2</sup> )	1.2×0.5 m/plate, 6 m <sup>2</sup> /bale
Code	0520-02110015	0520-04120005



## XPS THERMO 1,6 mm

**Material:** blue extruded polystyrene foam, perforated

**Field of application:** due to its small thickness and perforated design, Isofoam XPS Thermo is applicable between the heated concrete screed and the laminated panels or wooden floors. It levels the unevenness of the base, has high load-bearing capacity and impact-sound insulating ability.



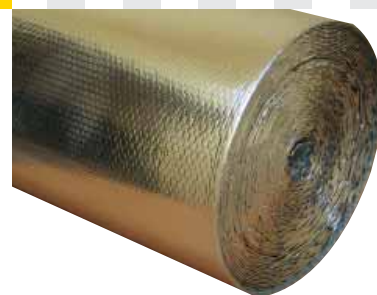
	Available	Code
ISOFOAM® XPS THERMO 1.6 mm	1.1 m × 15 m = 16.5 m <sup>2</sup>	0520-16110T15



## SOLFLEX underlay for floor heating

**Material:** Polyethylen air-bubble foil with a metalized layer.

**Field of application:** it can be laid as a floating layer of floor heating under the heated concrete screed with laminated side downwards.



	Available	Code
SOLFLEX underlay for floor heating	1.2 m × 41.67 m = 50 m <sup>2</sup> /roll	0506-10000050





## glass wool thermal and sound insulation

ISOVER products come mainly from recycled glass and sand which are natural raw materials, that give to the products the necessary qualities for buildings: as sand and glass naturally are incombustible, it is not necessary to be completed by additives and the product will not be degraded nor supported by micro organisms.

Due to a dense entanglement of materials with a low conduction and trapping a great amount of air, glasswool is an excellent thermal insulation. The thicker is the material, the better is its thermal resistance. It is reducing heat losses in winter and protecting against heat in summer

Thanks to its elasticity and structure, glasswool offers absorbing, spring and dissipating effects.

Noise control (acoustic absorption and insulation) is a natural field of excellence for glasswool.

Glasswool is incombustible by nature, its classification is Euroclasse A (according to EN 13501-1).

Glasswool is a soft touch product, easy to handle and to install; because it is light and elastic, a compressed glasswool roll allows many savings in handling, transport and warehouses. Moreover, the perfect fitting lead to a performing installation avoiding most of the unwanted thermal bridges.

Glasswool saves far more energy during its life time than for producing. Thank to elasticity and robustness, glasswool avoids wastes on sites. Compressed rolls or batts reduce packagings use.

Glasswool can be recycled for its own production.

Depending on the fields of application, there are soft, rolled types (felts) and harder types in boards. We can supply the complete range of both types of products (felts and boards) with different special types of laminations (kraft paper, glass veil, glass fibre-reinforced aluminium foil, etc.).



## ISOVER RIO TWIN

**Material:** Non-load bearing, soft, felt product without lamination. Available in rolls with 10 cm (or 12 cm) nominal thickness, that consist of two separable 5 cm (or 6 cm) thick felt layers. The MPS type is available to order by pallettes, with protective packaging.

**Field of application:** Non-loadable thermal insulation of e.g. non-passable loft spaces, in floors among wooden battens, under OSB sheet boarding or above suspended ceilings.

**Technical parameters:**

Declared thermal conductivity ( $\lambda_d$ ): 0.043 W/mK

Vapour-diffusion resistance number ( $\mu$ ): 1



ISOVER RIO	Roll length/width	m <sup>2</sup> /roll	m <sup>2</sup> /palette	Code
RIO TWIN 12/6 MPS	2×6500/1200 mm	2×7.8	374,4	0508-RT126MPS
RIO TWIN 10/5 MPS	2×7500/1200 mm	2×9	432	0508-RT105MPS

Other types and thicknesses are only available to order!

**MPS**



## ISOVER DOMO TWIN

**Material:** Non-load bearing, soft, felt product without lamination. Available in rolls with 10 cm (or 12 cm) nominal thickness, that consist of two separable 5 cm (or 6 cm) thick felt layers. The MPS type is available to order by palettes, with protective packaging.

**Field of application:** Non-loadable thermal insulation of e.g. non-passable loft spaces, in floors among wooden battens, under OSB sheet boarding or above suspended ceilings.

**Technical parameters:** Declared thermal conductivity ( $\lambda$ ): 0.040 W / mK  
Vapour-diffusion resistance ( $\mu$ ): 1



ISOVER DOMO	Roll length / width	m <sup>2</sup> /roll	m <sup>2</sup> /palette	Code
DOMO TWIN 12/6 MPS	2×6000/1200 mm	2×7.2	345.6	0508-DT126MPS
DOMO TWIN 10/5 MPS	2×7500/1200 mm	2×9	432	0508-DT105MPS

Other types and thicknesses are only available through order!

**MPS** 





## heat insulating, lightweight concrete additive

**Material:** EPS beads coated with cement and special surface-activated additive

**Application:**

- For the thermal insulation of non-passable surfaces of lofts (11–12 cm): P200
- For the thermal insulation of passable surfaces of lofts (12–14 cm): P250 + 1–2 cm of cement mortar finishing
- Filling-up material of slabs, for slope formation on deck roofs and under base concretes: P350
- Filling up material around sunk swimming pools: P250



**Installation:** Thermobeton can be mixed with a conventional concrete mixer for slightly plastic consistency. The freshly installed concrete has to be immediately covered with PE foil for 3–4 days, to avoid the too fast drying of the material, additional watering is not necessary. Applicable thickness: min. 5 cm – max. 40 cm, the necessary temperature is above (+)5°C. (For more information see the detailed application of the product).

**Mixing proportions:** for 1m<sup>3</sup> lightweight concrete:

- P200 (density 200 kg/m<sup>3</sup>): 1.05 m<sup>3</sup> Thermobeton+80 kg cement+70 litres of water
- P250 (density 250 kg/m<sup>3</sup>): 1.08 m<sup>3</sup> Thermobeton+120 kg cement+100 litres of water
- P350 (density 350 kg/m<sup>3</sup>): 1.12 m<sup>3</sup> Thermobeton+200 kg cement+140 litres of water

**Technical data:**

	P200	P250	P350
Density (kg/m <sup>3</sup> )	200	250	350
Compressive strength (kN/m <sup>2</sup> )	120	230	340
Thermal conductivity $\lambda_D$ (W/mK)	0,05	0,065	0,082

Available: 0.2 m<sup>2</sup>/bag

	Available	Code
THERMOBETON®	In 0,2 m <sup>3</sup> bags	0506-00000000



For further information and downloads,  
please visit to our website

[www.masterplastgroup.com](http://www.masterplastgroup.com)

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