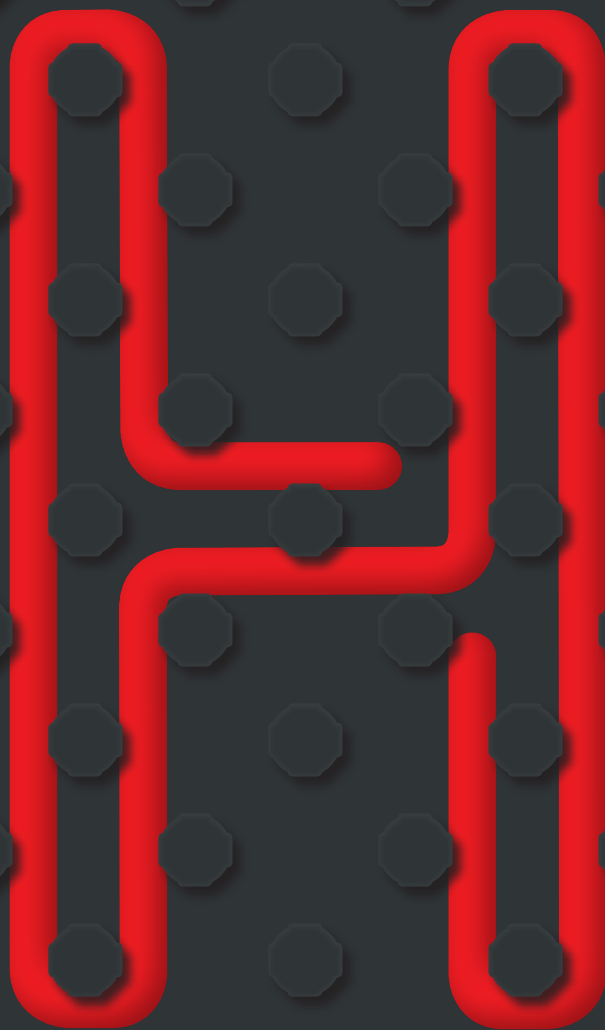




HIRSCH Porozell



Modular Boards
for underfloor heating

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Why choose HIRSCH modular boards.



We are Europe's **leading manufacturer** and OEM supplier for all kinds of castellated board technology.



Our 25 years of experience in modular board production have given us **unrivalled expertise**.



As a strategic partner, we provide **tailored solutions** to support our customers.



Our **Europe-wide production and logistics network** gives our customers a considerable advantage when it comes to opening up their markets and serving them on a daily basis.



Our top priority is to provide consistently **high-quality** products at competitive prices.



As a supplier we offer **outstanding support**, which is reflected in our very high **customer satisfaction**.



Where you
can find us.

PRODUCTION SITES HIRSCH POROZELL

- 
- 1 Glanegg, **Austria**
2 Rheda-Wiedenbrück, **Germany**
3 Grombach, **Germany**
4 Ebrach, **Germany**
5 Micheln, **Germany**
6 Abstatt, **Germany**
7 Bad Waldsee, **Germany**
8 Wrocław, **Poland**
9 Łódź, **Poland**
10 Sárvár, **Hungary**
11 Jászfényszaru, **Hungary**
12 Nyíregyháza, **Hungary**
13 Podolíneč, **Slovakia**
14 Podolíneč 2, **Slovakia**
15 Cluj, **Romania**
16 Timisoara, **Romania**
17 Bucharest, **Romania**
18 Sfântu Gheorghe, **Romania**
19 Beregovo, **Ukraine**
20 Cherkassy, **Ukraine**

QUALITY AND CERTIFICATION



What we stand for.

Our top priority is to provide high quality in all our products, processes and services at all times – that's what the HIRSCH Servo Group stands for. This can only happen if we consistently implement an effective and cost-efficient quality management system in accordance with the DIN EN ISO 9001:2015 standard. This ensures that HIRSCH Porozell products are subjected to stringent quality control checks prior to delivery.

It's not just the HIRSCH Servo Group's products that are making a sustainable contribution to environmental and climate protection. Sustainability is a key issue for the entire Group and across the entire value chain.

The contribution we have made towards handling limited resources responsibly has been certified in accordance with the ISO 14001 environment management system. We continuously strive to enhance the services provided by the HIRSCH Servo Group in line with this environmental standard in order to increase efficiency and encourage sustainable use of all resources.



Over 45 years' experience and innovation.

The HIRSCH Servo Group has been producing molding tools and machines for manufacturing molded EPS and EPP parts since 1972. The company's experience in product design and manufacturing technology, plus its expertise in a wide range of material properties, have made HIRSCH one of the world's leading machine and mold engineering specialists in the EPS and EPP industry.

Our biggest strength lies in providing innovative solutions that meet all our customers' requirements.



State-of-the-art production



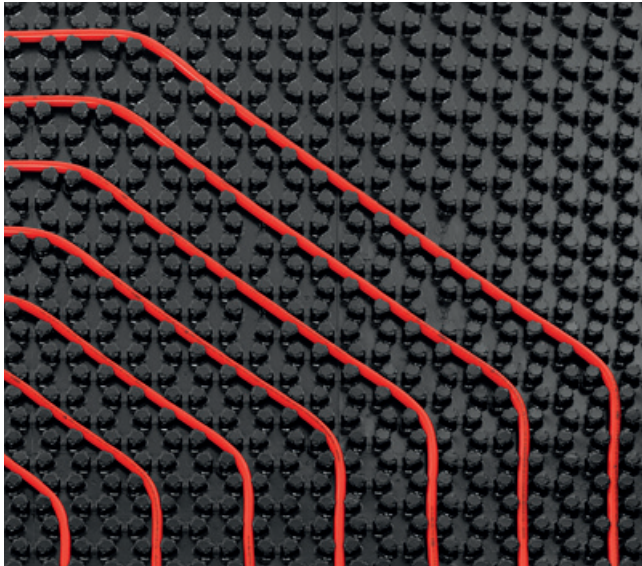
In-house mold shop

MACHINES AND MOLDS



Innovative, tried-and-trusted manufacturing solutions.

In addition to established HIRSCH technologies such as the Combitop deep-drawing process or the Kaschee process, HIRSCH offers a range of innovative manufacturing technologies with advantages including lower floor installation height, precise pipe routing, reduced screed requirements, quick one-person assembly and better adjustability.

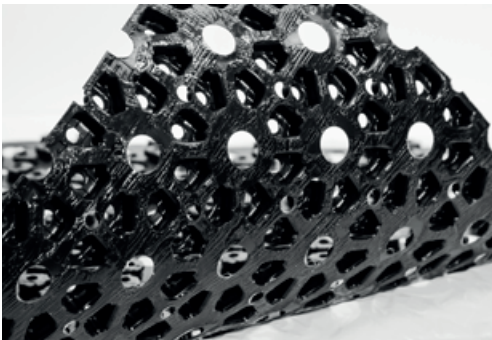




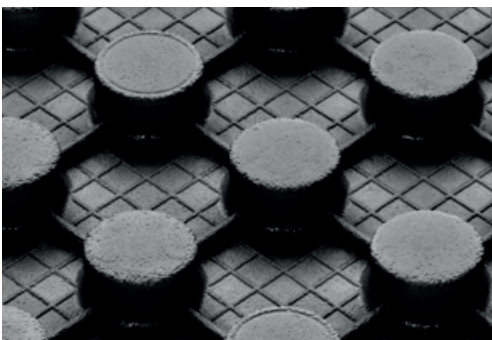
Full-surface, foil-laminated dry construction board for improved heating with the advantage of quick installation.



Castellated board featuring rigid polystyrene foam (EPS) with added graphite for improved thermal conductivity at low installation heights.



Self-adhesive thin film element with perforated castellated surface, specifically designed for extensions and renovations.



Castellated board, manufactured using the **skin-molding process**, to create a moisture barrier and provide thermal insulation.



COMBITOP

Laying grid:
3 cm | 5 cm | 6.5 cm

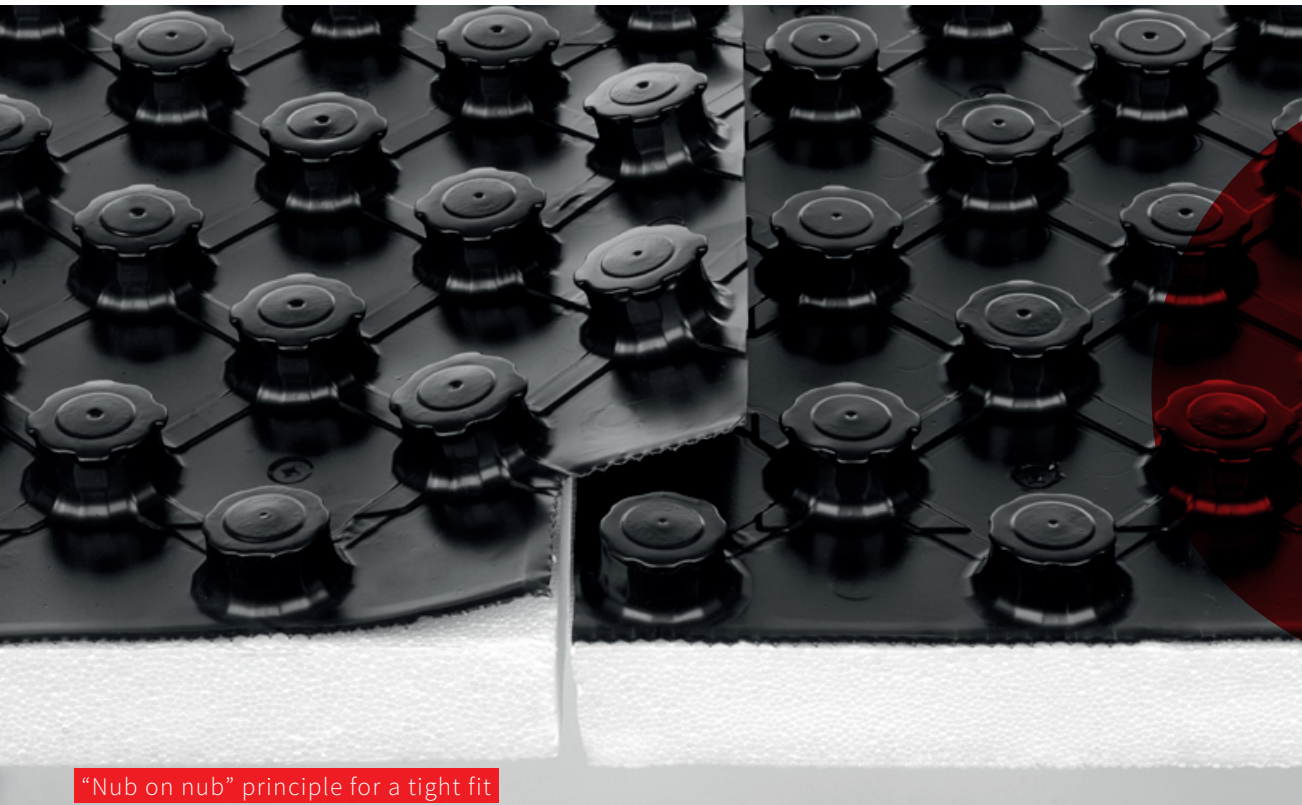
Combitop castellated floor board.



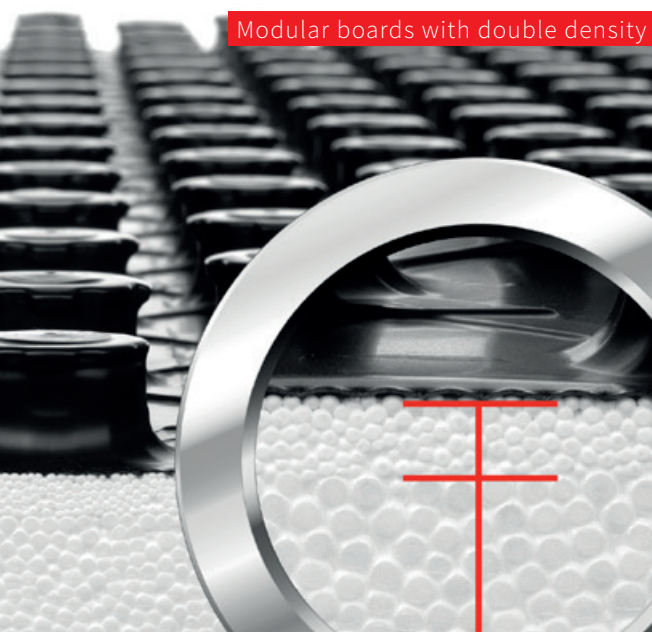
Ideal for floors with heat and impact sound insulation.

- Made using a **deep-drawing process**
- Waste-free laying thanks to the **“nub on nub” principle**
- The **secure, tight fit of the castellated floor boards** makes them suitable for liquid screed
- Double density guarantees **optimum impact resistance and ideal noise and sound insulation**
- The **nub shape ensures** the heating pipes are **held securely** in place
- A **special nub structure** allows various pipe dimensions (10 to 12 mm or 14 to 17 mm)
- Quick **one-person assembly**

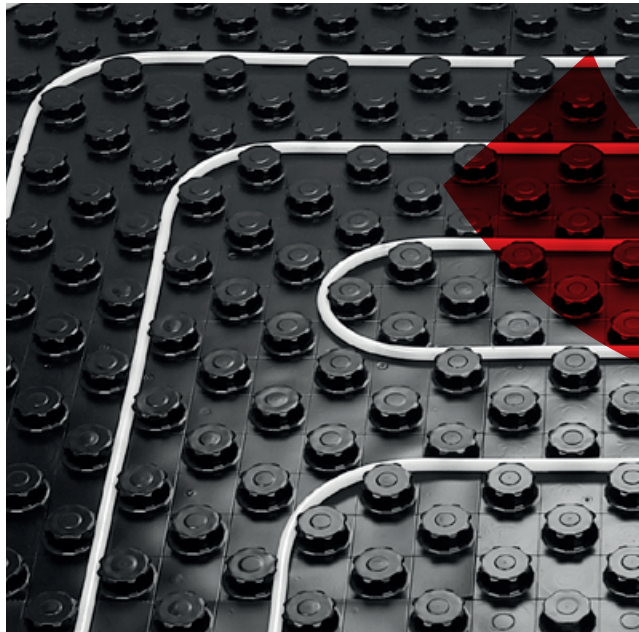
COMBITOP



“Nub on nub” principle for a tight fit



Modular boards with double density





KASCHEE

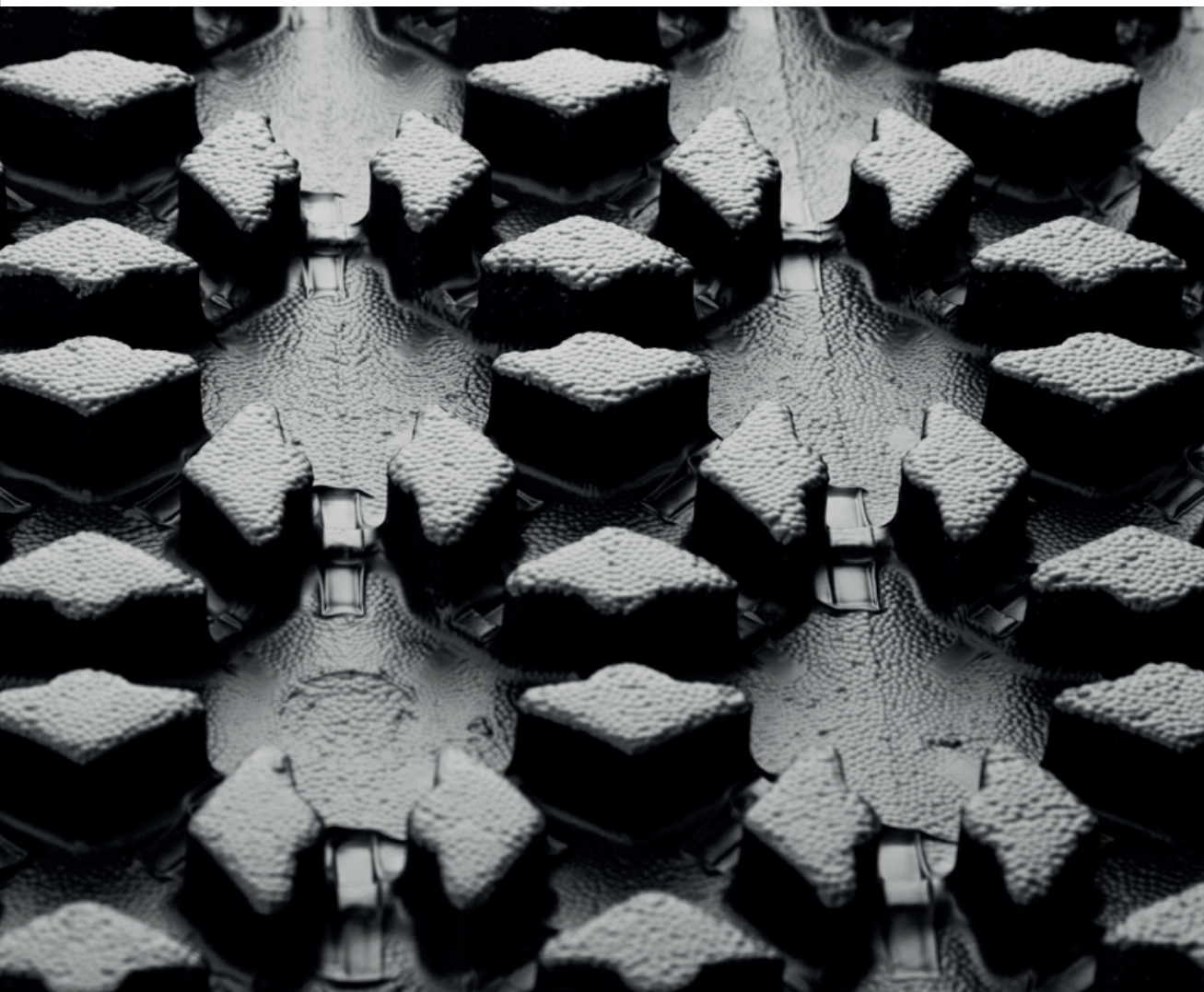
Laying grid:
5 cm | 7.5 cm | 10 cm

Kaschee castellated floor board.

Ideal for low installation heights and for floors
with heat and impact sound insulation.

- Film-laminated for **high surface strength**
- Clamping nubs for **simple, precise pipe laying**
- **Secure, sealed hook and lock seam connection** allows use of liquid screed
- Quick **one-person assembly**

KASCHEE



Hook and lock seam connection



SOLOTOP

Laying grid:
3 cm | 5 cm | 6.5 cm

Solotop castellated floor board.

Ideal for low installation heights,
e.g. when renovating older buildings.

- Waste-free laying thanks to the **“nub on nub” principle**
- **The secure, tight fit of the castellated floor boards** makes them suitable for liquid screed
- Laying on **heat and impact sound insulation**
- Quick **one-person assembly**



5 cm laying grid



6.5 cm laying grid

SOLOTOP





RENOVA

Pipe diameter:
14 mm | 16 mm

Renova dry construction board.

Ideal as surface heating at a low installation height
for a low-temperature system.

- **Extremely thin dry construction board** and heat conduction plate with omega profile
- **Simple pipe laying in a meandering pattern**
- **Omega profile** and grooves in the dry construction board **ensure the pipe sits securely**
- Water pipes are fed through polystyrene insulation elements clad in heat-conducting aluminium, **allowing heat to be conducted quickly and evenly into rooms**
- **Suitable for wooden floorboards and dry screed boards**



RENOVA





TACKER ROLL

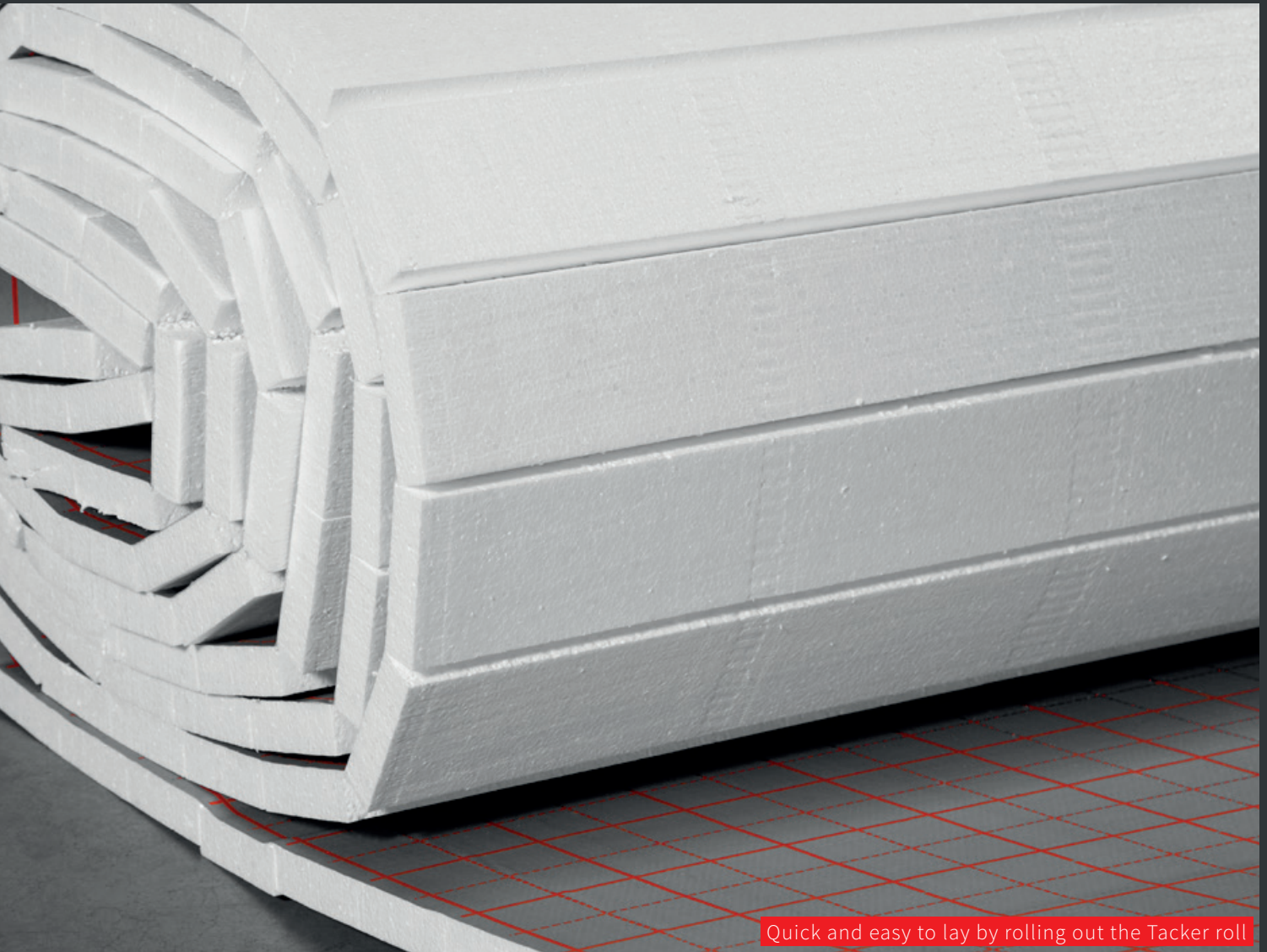
Laying grid:
5 cm

Tacker roll.

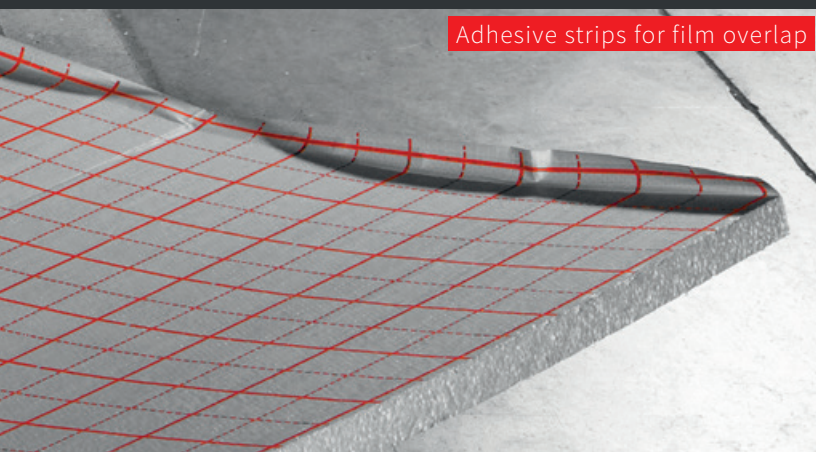
Ideal for cost-efficient installation over large areas.

- **Highly tear-resistant, aluminum-coated film** with 5 cm grids to make laying heating pipes easier
- **Free, flexible pipe laying**
- **Adhesive strips for film overlap**
- **Quick and easy to lay** by rolling out the Tacker roll and **fixing the pipe mounting with staples or racks**

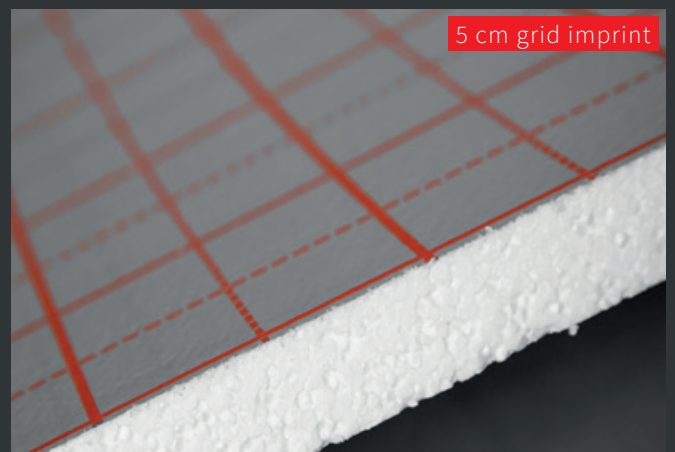
TACKER ROLL



Quick and easy to lay by rolling out the Tacker roll

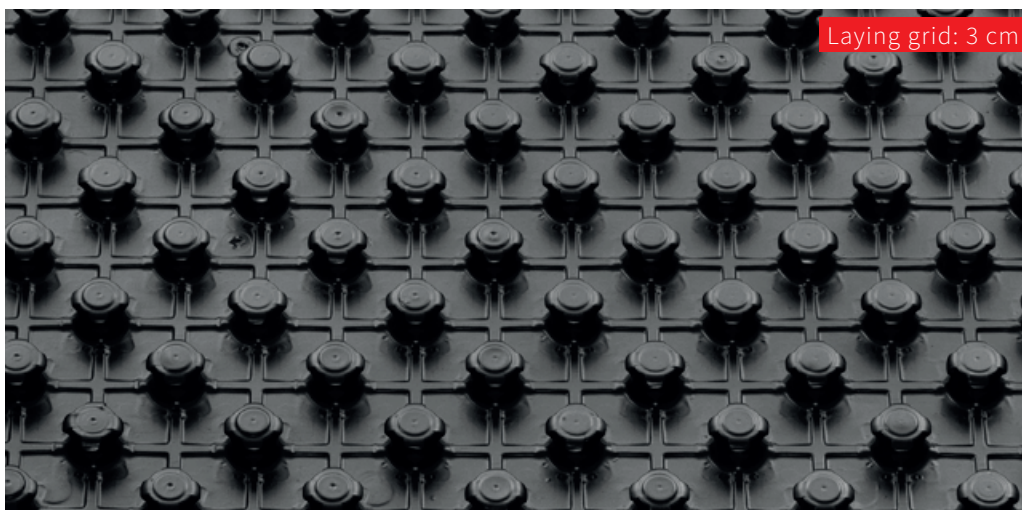
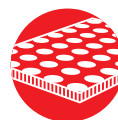


Adhesive strips for film overlap



5 cm grid imprint

Combitop

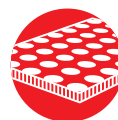


Properties	Combitop ND 11	Combitop 30-2
Board dimensions (length x width)	1,405 x 810 mm	1,405 x 810 mm
Effective board size	1,380 x 780 mm	1,380 x 780 mm
Effective board area	1.0764 m ²	1.0764 m ²
Laying grid (pipe spacing)	30 mm	30 mm
Nominal insulation thickness dL	11 mm	30 – 2 mm
Total thickness with pipe holder	25 mm	45 mm
Pipe diameter	10 – 12 mm	10 – 12 mm
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	28 dB
Stiffness group per EN 13163	–	SD 20
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.75 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	14 boards = 15.07 m ²	7 boards = 7.53 m ²
Box size (L x W x H)	1,510 x 275 x 830 mm	1,510 x 275 x 830 mm

Note: particularly suitable for narrow pipe diameters

Combitop

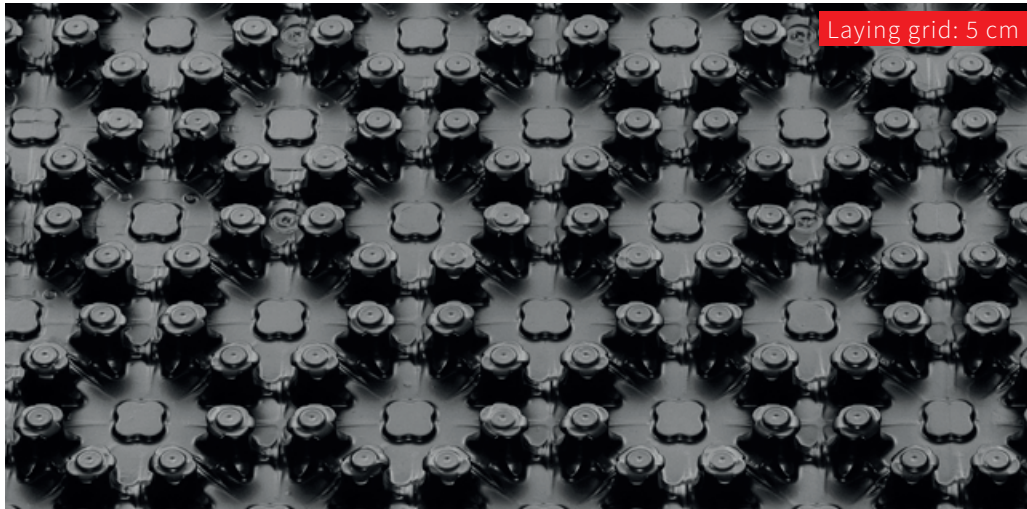
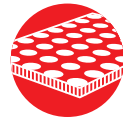
Star



Properties	Combitop ND 11	Combitop 30-2
Board dimensions (length x width)	1,450 x 850 mm	1,450 x 850 mm
Effective board size	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	50 mm	50 mm
Nominal insulation thickness dL	11 mm	30 – 2 mm
Total thickness with pipe holder	31 mm	51 mm
Pipe diameter	14 – 17 mm	14 – 17 mm
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	28 dB
Stiffness group per EN 13163	–	SD 20
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.75 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	13 boards = 14.56 m ²	8 boards = 8.96 m ²
Box size (L x W x H)	1,520 x 320 x 870 mm	1,520 x 320 x 870 mm

Combitop

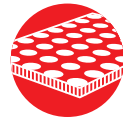
Diagonal



Properties	Combitop ND 11	Combitop 30-2
Board dimensions (length x width)	1,450 x 850 mm	1,450 x 850 mm
Effective board size	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	50 mm	50 mm
Nominal insulation thickness dL	11 mm	30 – 2 mm
Total thickness with pipe holder	31 mm	51 mm
Pipe diameter	14 – 16 mm	14 – 16 mm
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	28 dB
Stiffness group per EN 13163	–	SD 20
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.75 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	13 boards = 14.56 m ²	6 boards = 6.72 m ²
Box size (L x W x H)	1,510 x 280 x 860 mm	1,510 x 265 x 860 mm

Combitop

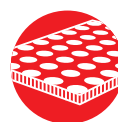
Diagonal-Tech



Properties	Combitop ND 11	Combitop 20-2	Combitop 30-2	Combitop 43-2
Board dimensions (length x width)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.12 m ²	1.12 m ²	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	50 mm	50 mm	50 mm	50 mm
Nominal insulation thickness dL	11 mm	20 – 2 mm	30 – 2 mm	43 – 2 mm
Total thickness with pipe holder	31 mm	41 mm	51 mm	64 mm
Pipe diameter	15 – 17 mm	15 – 17 mm	15 – 17 mm	15 – 17 mm
Compressive stress at 10 % compression	150 kPa	–	–	–
Type of application per DIN 4108-10	DEO	DESsg	DESsg	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000	PST-TK 5000	PST-TK 5000
Fire behaviour per EN 13501-1	E	E	E	E
Impact sound improvement	–	24 dB	28 dB	29 dB
Stiffness group per EN 13163	–	SD 40	SD 20	SD 15
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)	0.040 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.50 m ² K/W	0.75 m ² K/W	1.05 m ² K/W
Heat distortion temperature	80° C	80° C	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa	≥ 100 kPa	≥ 100 kPa
Standard film color	black	black	black	black
Quantity per box	10 boards = 11.2 m ²	8 boards = 8.96 m ²	6 boards = 6.72 m ²	5 boards = 5.6 m ²
Box size (L x W x H)	1,460 x 310 x 860 mm	1,460 x 310 x 860 mm	1,460 x 310 x 860 mm	1,460 x 310 x 860 mm

Combitop

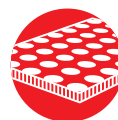
Square nubs



Properties	Combitop ND 11	Combitop 25-2	Combitop 35-2
Board dimensions (length x width)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.12 m ²	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	50 mm	50 mm	50 mm
Nominal insulation thickness dL	11 mm	25 – 2 mm	35 – 2 mm
Total thickness with pipe holder	31 mm	45 mm	55 mm
Pipe diameter	14 – 17 mm	14 – 17 mm	14 – 17 mm
Compressive stress at 10 % compression	150 kPa	–	–
Type of application per DIN 4108-10	DEO	DESsg	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000	PST-TK 5000
Fire behaviour per EN 13501-1	E	E	E
Impact sound improvement	–	26 dB	26 dB
Stiffness group per EN 13163	–	SD 30	SD 30
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.60 m ² K/W	0.85 m ² K/W
Heat distortion temperature	80° C	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa	≥ 100 kPa
Standard film color	black	black	black
Quantity per box	12 boards = 13.44 m ²	7 boards = 7.84 m ²	5 boards = 5.6 m ²
Box size (L x W x H)	1,510 x 280 x 860 mm	1,510 x 280 x 860 mm	1,510 x 280 x 860 mm

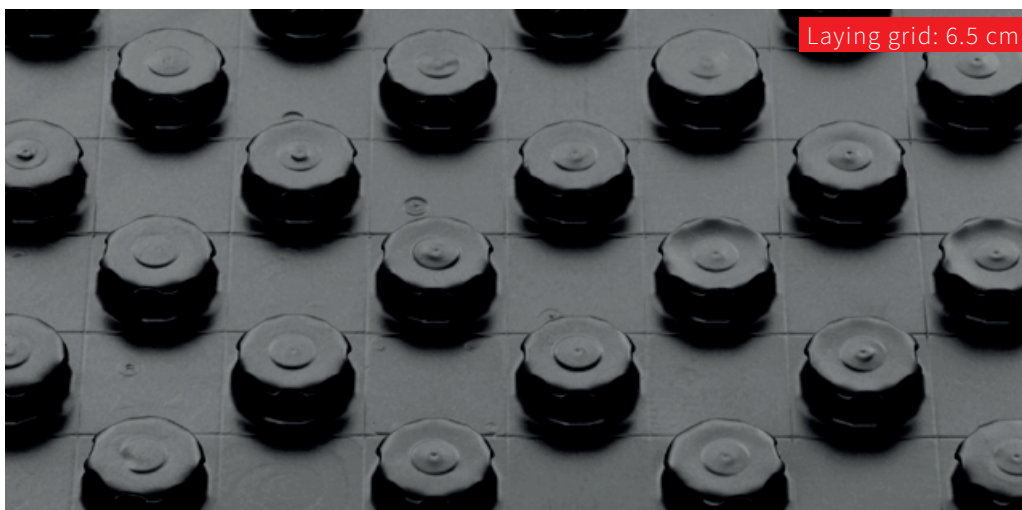
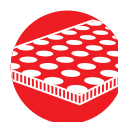
Combitop

Round nubs



Properties	Combitop ND 11	Combitop ND 25	Combitop 30-2	Combitop 43-2
Board dimensions (length x width)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.12 m ²	1.12 m ²	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	50 mm	50 mm	50 mm	50 mm
Nominal insulation thickness dL	11 mm	25 mm	30 – 2 mm	43 – 2 mm
Total thickness with pipe holder	31 mm	45 mm	51 mm	64 mm
Pipe diameter	14 – 17 mm	14 – 17 mm	14 – 17 mm	14 – 17 mm
Compressive stress at 10 % compression	150 kPa	150 kPa	–	–
Type of application per DIN 4108-10	DEO	DEO	DESsg	DESsg
Designation per EN 13163	EPS 150	EPS 150	PST-TK 5000	PST-TK 5000
Fire behaviour per EN 13501-1	E	E	E	E
Impact sound improvement	–	–	28 dB	29 dB
Stiffness group per EN 13163	–	–	SD 20	SD 15
Thermal conductivity (nominal value)	0.035 W/(mK)	0.035 W/(mK)	0.040 W/(mK)	0.040 W/(mK)
Thermal resistance	0.30 m ² K/W	0.70 m ² K/W	0.75 m ² K/W	1.05 m ² K/W
Heat distortion temperature	80° C	80° C	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 250 kPa	≥ 100 kPa	≥ 100 kPa
Standard film color	black	black	black	black
Quantity per box	13 boards = 14.56 m ²	8 boards = 8.96 m ²	6 boards = 6.72 m ²	5 boards = 5.6 m ²
Box size (L x W x H)	1,510 x 280 x 860 mm	1,510 x 280 x 860 mm	1,510 x 265 x 860 mm	1,510 x 280 x 860 mm

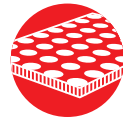
Combitop



Properties	Combitop ND 10	Combitop ND 20	Combitop 30-2
Board dimensions (length x width)	1,365 x 845 mm	1,365 x 845 mm	1,365 x 845 mm
Effective board size	1,300 x 780 mm	1,300 x 780 mm	1,300 x 780 mm
Effective board area	1.014 m ²	1.014 m ²	1.014 m ²
Laying grid (pipe spacing)	65 mm	65 mm	65 mm
Nominal insulation thickness d _L	10 mm	20 mm	30 mm
Total thickness with pipe holder	32 mm	42 mm	52 mm
Pipe diameter	14 – 16 mm	14 – 16 mm	14 – 16 mm
Compressive stress at 10 % compression	150 kPa	150 kPa	–
Type of application per DIN 4108-10	DEO	DEO	DESsg
Designation per EN 13163	EPS 150	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E	E
Impact sound improvement	–	–	28 dB
Stiffness group per EN 13163	–	–	SD 20
Thermal conductivity (nominal value)	0.035 W/(mK)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.25 m ² K/W	0.55 m ² K/W	0.75 m ² K/W
Heat distortion temperature	80° C	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black	black
Quantity per box	12 boards = 12.17 m ²	8 boards = 8.12 m ²	6 boards = 6.084 m ²
Box size (L x W x H)	1,430 x 260 x 845 mm	1,430 x 260 x 845 mm	1,430 x 260 x 845 mm

Combitop

Accessoires



Compensating element

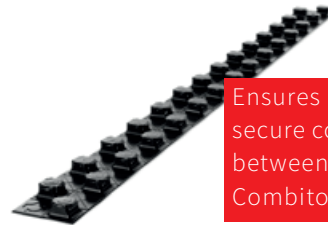
Dimensions	1,400 x 200 mm	
Laying grid (pipe spacing)	50 mm	
Board type	Square nub	Round nub
Film thickness	0.60 mm	
Quantity	14 / box	14 / box



Deep-drawn part without EPS insulation, ideal for doorways

Connector

Dimensions	1,400 x 100 mm	
Laying grid (pipe spacing)	50 mm	
Board type	Square nub	Round nub
Film thickness	0.60 mm	
Quantity	26 / box	28 / box



Ensures a perfect, secure connection between cut Combitop boards

Pipe mounts

Delivered as	10 strips of 4, perforated	
Laying grid (pipe spacing)	50 mm	
Board type	Square nub	Round nub
Film thickness	0.60 mm	
Quantity	40 / box	40 / box



Enables pipes to be laid at 45 degrees

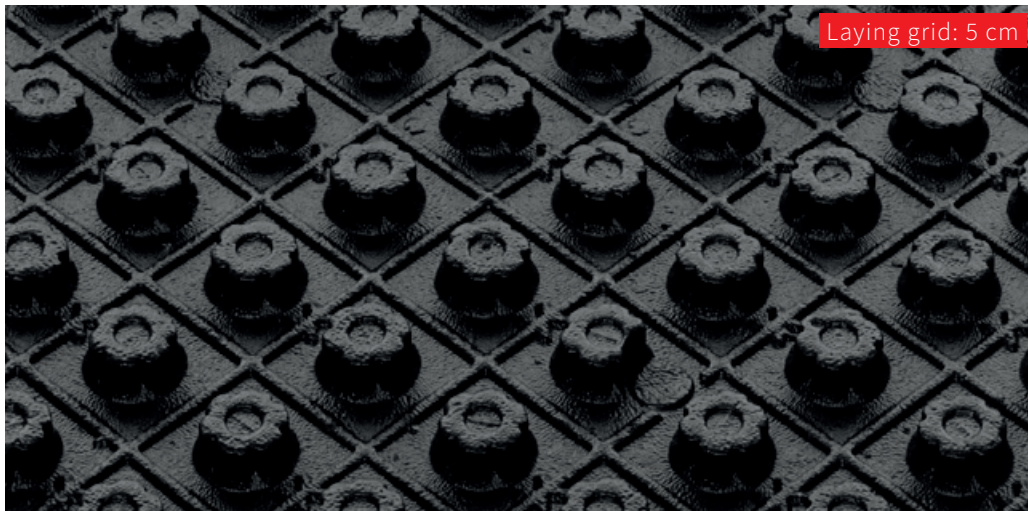
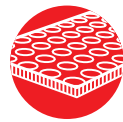
Insulation strips

	ND 11	ND 30-2
Board dimensions / effective area (mm)	1,400 x 150 mm	
Effective area of each deep-drawn part	0.21 mm	
Nominal insulation	10 mm	30 mm
Quantity	20 / box	10 / box



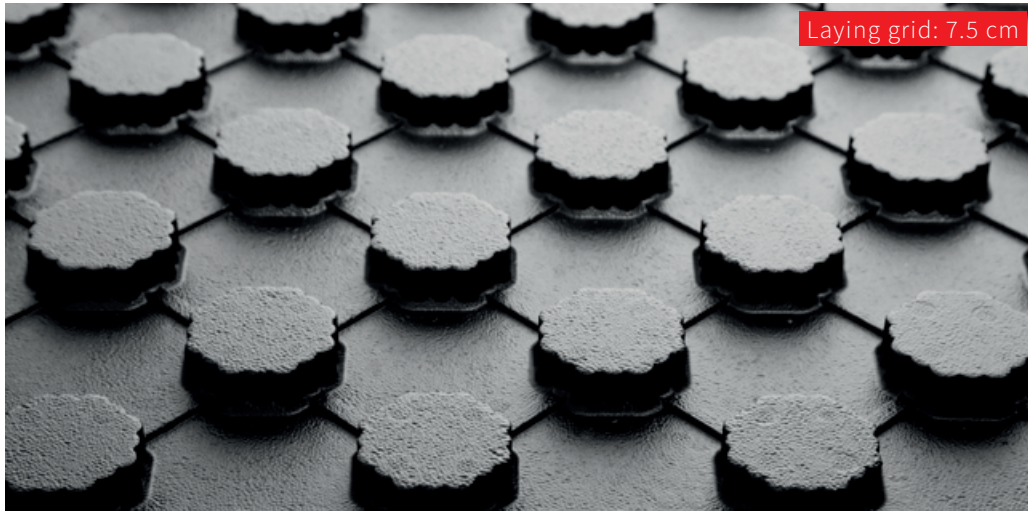
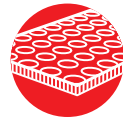
EPS insulation without deep-drawn part, ideal for doorways

Kaschee



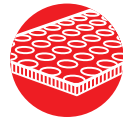
Properties	Kaschee ND 15	Kaschee 35-2
Board dimensions (length x width)	1,030 x 530 mm	1,030 x 530 mm
Effective board size	1,000 x 500 mm	1,000 x 500 mm
Effective board area	0.50 m ²	0.50 m ²
Laying grid (pipe spacing)	50 mm	50 mm
Nominal insulation thickness dL	15 mm	35 mm
Total thickness with pipe holder	37 mm	57 mm
Pipe diameter	16 – 18 mm	16 – 18 mm
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.40 m ² K/W	0.85 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	16 boards = 8 m ²	12 boards = 6 m ²
Box size (L x W x H)	1,040 x 540 x 650 mm	1,040 x 540 x 650 mm

Kaschee



Properties	Kaschee ND 20	Kaschee 35-2
Board dimensions (length x width)	1,230 x 630 mm	1,230 x 630 mm
Effective board size	1,200 x 600 mm	1,200 x 600 mm
Effective board area	0.72 m ²	0.72 m ²
Laying grid (pipe spacing)	75 mm	75 mm
Nominal insulation thickness dL	20 mm	35 mm
Total thickness with pipe holder	40 mm	57 mm
Pipe diameter	16 – 18 mm	16 – 18 mm
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.55 m ² K/W	0.85 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	13 boards = 9.36 m ²	10 boards = 7.20 m ²
Box size (L x W x H)	1,240 x 640 x 570 mm	1,240 x 640 x 570 mm

Kaschee



Properties	Kaschee ND 15	Kaschee 35-2
Board dimensions (length x width)	1,030 x 530 mm	1,030 x 530 mm
Effective board size	1,000 x 500 mm	1,000 x 500 mm
Effective board area	0.5 m ²	0.5 m ²
Laying grid (pipe spacing)	100 mm	100 mm
Nominal insulation thickness dL	15 mm	35 – 2 mm
Total thickness with pipe holder	37 mm	57 mm
Pipe diameter	16 – 18 mm (20 mm)	16 – 18 mm (20 mm)
Compressive stress at 10 % compression	150 kPa	–
Type of application per DIN 4108-10	DEO	DESsg
Designation per EN 13163	EPS 150	PST-TK 5000
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity (nominal value)	0.035 W/(mK)	0.040 W/(mK)
Thermal resistance	0.40 m ² K/W	0.85 m ² K/W
Heat distortion temperature	80° C	80° C
Max. load	45 kPa (4,500 kg/m ²)	5 kPa (500 kg/m ²)
Flexural strength	≥ 250 kPa	≥ 100 kPa
Standard film color	black	black
Quantity per box	16 boards = 8 m ²	12 boards = 6 m ²
Box size (L x W x H)	1,040 x 540 x 650 mm	1,040 x 540 x 650 mm

Solotop



Properties	3 cm	Star 5 cm	Diagonal 5 cm	Diagonal-Tech 5 cm
Board size (length x width)	1,405 x 810 mm	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	1,380 x 780 mm	1,400 x 800 mm	1,400 x 800 mm	1,400 x 800 mm
Effective board area	1.0764 m ²	1.12 m ²	1.12 m ²	1.12 m ²
Laying grid (pipe spacing)	30 mm	50 mm	50 mm	50 mm
Overall nub height	15 mm	20 mm	20 mm	20 mm
Pipe diameter	10 – 12 mm	14 – 17 mm	14 – 16 mm	14 – 17 mm
Polystyrene film thickness	1 mm (1,000 µ)	1 mm (1,000 µ)	1 mm (1,000 µ)	1 mm (1,000 µ)
Weight per board	approx. 1,200 g	approx. 1,280 g	approx. 1,280 g	approx. 1,280 g
Standardfilm color	black	black	black	black
Max. load	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)
Quantity per palette	130 boards = 139.93 m ²	130 boards = 145.6 m ²	130 boards = 145.6 m ²	130 boards = 145.6 m ²
Quantity per box	20 boards = 21.53 m ²	12 boards = 13.44 m ²	12 boards = 13.44 m ²	10 boards = 11.20 m ²

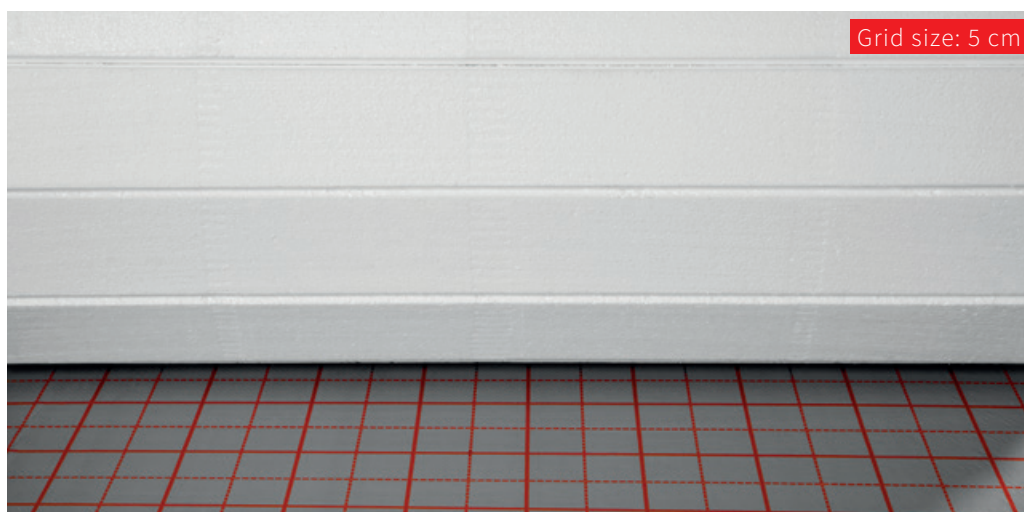
Properties	Square 5 cm	Round 5 cm	6.5 cm
Board size (length x width)	1,450 x 850 mm	1,450 x 850 mm	1,365 x 845 mm
Effective board size (L x W)	1,400 x 800 mm	1,400 x 800 mm	1,300 x 780 mm
Effective board area	1.12 m ²	1.12 m ²	1.014 m ²
Laying grid (pipe spacing)	50 mm	50 mm	65 mm
Overall nub height	20 mm	20 mm	20 mm
Pipe diameter	14 – 17 mm	14 – 17 mm	14 – 16 mm
Polystyrene film thickness	1 mm (1,000 µ)	1 mm (1,000 µ)	1 mm (1,000 µ)
Weight per board	approx. 1,280 g	approx. 1,280 g	approx. 1,190 g
Standardfilm color	black	black	black
Max. load	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)	5 kPa (500 kg/m ²)
Quantity per palette	130 boards = 145.6 m ²	130 boards = 145.6 m ²	130 boards = 131.8 m ²
Quantity per box	12 boards = 13.44 m ²	12 boards = 13.44 m ²	12 boards = 12.17 m ²

Renova



Properties	Ø 14 mm	Ø 16 mm
Board dimensions (length x width)	1,000 x 500 mm	1,000 x 500 mm
Effective board size (length x width)	1,000 x 500 mm	1,000 x 500 mm
Effective board area	0.5 m ²	0.5 m ²
Laying grid (pipe spacing)	71.43 mm	83.33 mm
Nominal insulation thickness dL	25 mm	25 mm
Insulation thickness without pipe holder	10 mm	8 mm
Total thickness with pipe holder	25 mm	25 mm
Pipe diameter	14 mm in conjunction with heat conduction plates	16 mm in conjunction with heat conduction plates
Compressive stress at 10 % compression	150 kPa	150 kPa
Type of application per DIN 4108-10	DEO	DEO
Designation per EN 13163	EPS 150	EPS 150
Fire behaviour per EN 13501-1	E	E
Density	> 30 kg/m ³	> 30 kg/m ³
Thermal conductivity (nominal value)	0.035 W/(mK)	0.035 W/(mK)
Thermal resistance	0.60 m ² K/W	0.60 m ² K/W
Heat distortion temperature	80° C	80° C
Max. live load	45 kPa (4,500 kg/m ²)	45 kPa (4,500 kg/m ²)
Quantity per box	20 boards = 10 m ²	20 boards = 10 m ²
Box size (L x W x H)	1,010 x 510 x 505 mm	1,010 x 510 x 505 mm

Tacker roll



Properties	EPS 70			EPS 100		
Roll size (length x width)	1,000 x 10,000 mm			1,000 x 10,000 mm		
Effective roll size (length x width)	1,000 x 10,000 mm			1,000 x 10,000 mm		
Effective area	10 m ²			10 m ²		
Grid (individual squares on film)	50 mm			50 mm		
Nominal insulation thickness dLdL	25 mm	30 mm	35 mm	25 mm	30 mm	35 mm
Compressive stress at 10 % compression	70 kPa			100 kPa		
Type of application per DIN 4108-10	DEO			DEO		
Designation per EN 13163	EPS 70			EPS 100		
Fire behaviour per EN 13501-1	E			E		
Thermal conductivity (nominal value)	0.039 W/(mK)			0.035 W/(mK)		
Thermal resistance	0.60 m ² K/W	0.75 m ² K/W	0.85 m ² K/W	0.70 m ² K/W	0.85 m ² K/W	1.00 m ² K/W
Heat distortion temperature	80° C			80° C		
Max. live load	21 kPa (2,100 kg/m ²)			30 kPa (3,000 kg/m ²)		
Flexural strength	≥ 115 kPa			≥ 150 kPa		
Quantity per bag	1 roll = 10 m ²			1 roll = 10 m ²		

Note: other thicknesses and strengths on request

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