HIRSCH Porozell

MODULAR BOARDS FOR UNDERFLOOR HEATING

Product range

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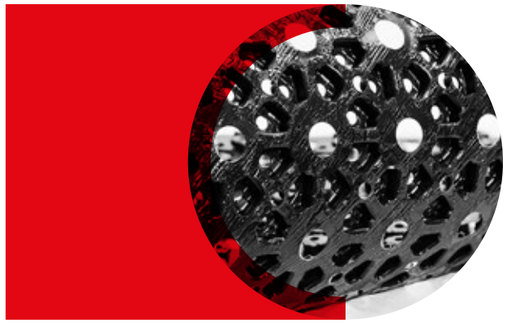
HIRSCH SERVO GROUP

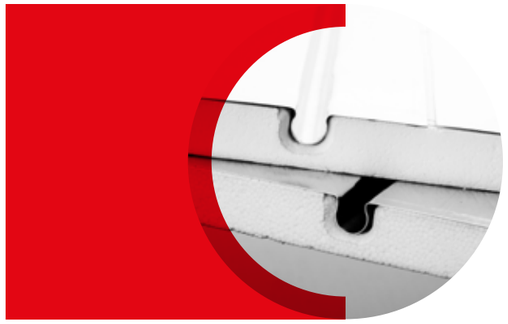
INNOVATIVE MANUFACTURING TECHNOLOGIES

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.

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.



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

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

CERTIFIED PROCESSES & SUSTAINABLE PRODUCTS

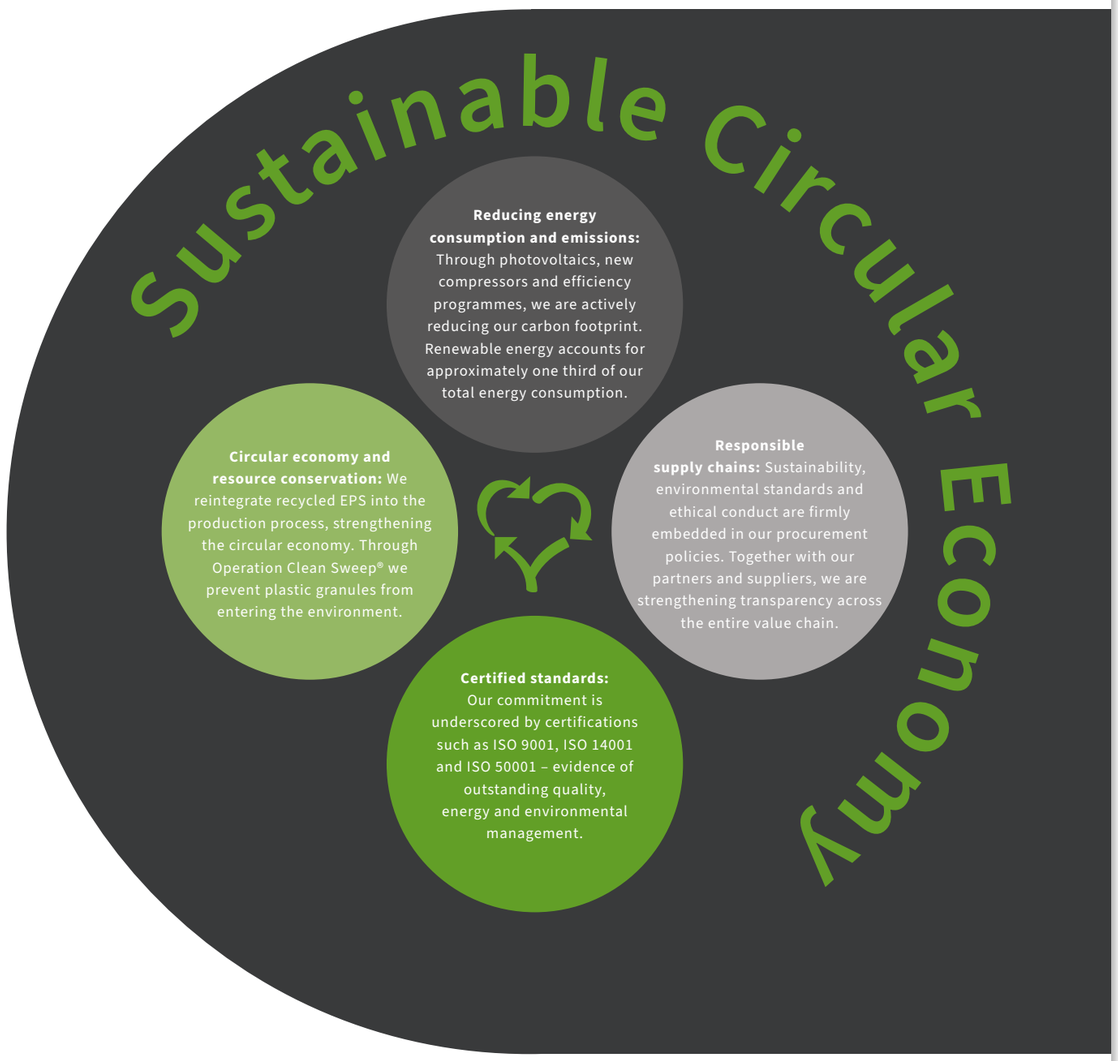
Our top priority is to provide consistently high quality in all our products, processes and services at all times – that is what the HIRSCH Servo Group stands for. A key prerequisite for this is the continuous implementation of an effective and cost-efficient quality management system in accordance with DIN EN ISO 9001:2015. This ensures that HIRSCH Porozell products are subjected to stringent quality control checks prior to delivery.

It is not just the HIRSCH Servo Group's products that make a sustainable contribution to environmental and climate protection. Sustainability across the entire value chain is a core concern of the whole Group.

The Group's commitment to the responsible use of limited resources has been certified under the ISO 14001 environmental management system and the ISO 50001 energy management system. These standards are used to continuously improve the performance of the HIRSCH Servo Group, with the aim of increasing efficiency and promoting the careful use of all resources.

QUALITY, SUSTAINABILITY AND CERTIFICATION

Learn more about our closed-loop cycle



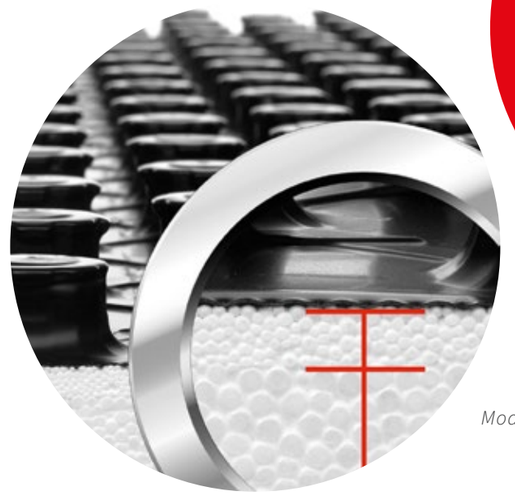
Laying grid:
5 cm | 6.5 cm

COMBITOP

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**
- Suitable for liquid screed thanks to **the secure, tight fit of the castellated floor boards**
- 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**

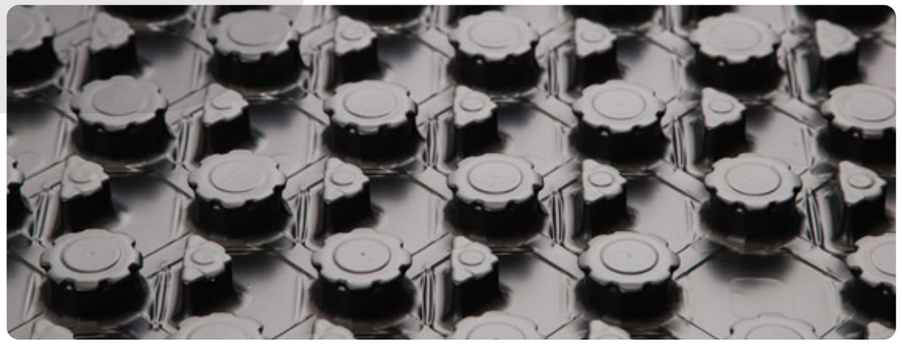
“Nub on nub“ principle for a tight fit



Modular board with double density

COMBITOP STAR

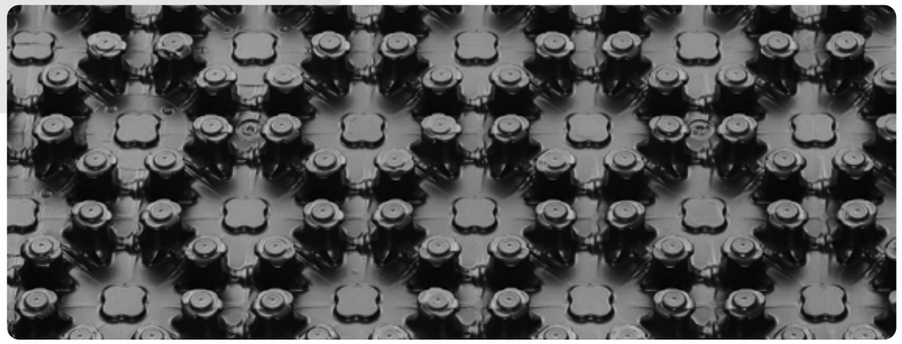
Laying grid:
5 cm



	Combitop ND 11	Combitop 30 - 2
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	28 dB
Stiffness group per EN 13163	–	SD 20
Thermal conductivity declared value λ D	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 colour	black	black
Quantity per box	13 pieces = 14.56 m^2	8 pieces = 8.96 m^2

COMBITOP DIAGONAL

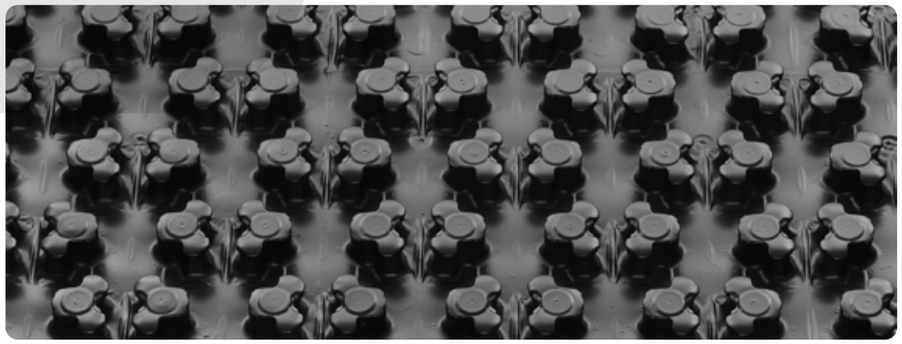
Laying grid:
5 cm



	Combitop ND 11	Combitop 30-2
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	28 dB
Stiffness group per EN 13163	–	SD 20
Thermal conductivity declared value λ D	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 colour	black	black
Quantity per box	13 pieces = 14.56 m^2	6 pieces = 6.72 m^2

COMBITOP DIAGONAL-TECH

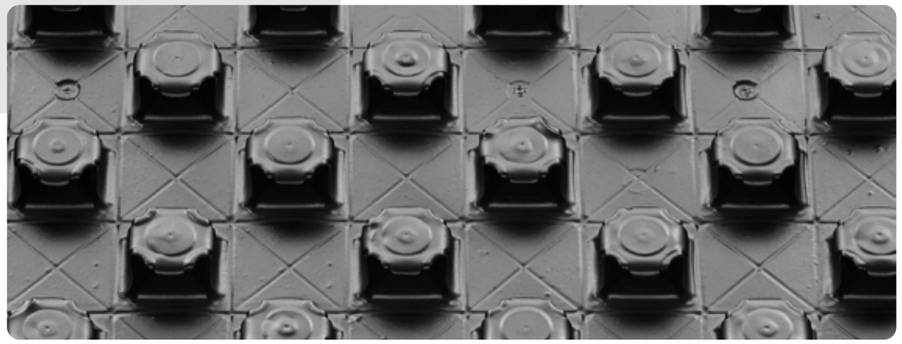
Laying grid:
5 cm



	Combitop ND 11	Combitop 20-2	Combitop 30-2	Combitop 43-2
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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	14 – 17 mm	14 – 17 mm	14 – 17 mm	14 – 17 mm
Compressive stress at 10% compression	150 kPa	–	–	–
Type of application per DIN 4108-10	DEOdh	DESsg	DESsg	DESsg
Designation per EN 13163	EPS 150	EPS-T	EPS-T	EPS-T
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 declared value λ D	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 colour	black	black	black	black
Quantity per box	10 pieces = 11.2 m^2	8 pieces = 8.96 m^2	6 pieces = 6.72 m^2	5 pieces = 5.6 m^2

COMBITOP SQUARE

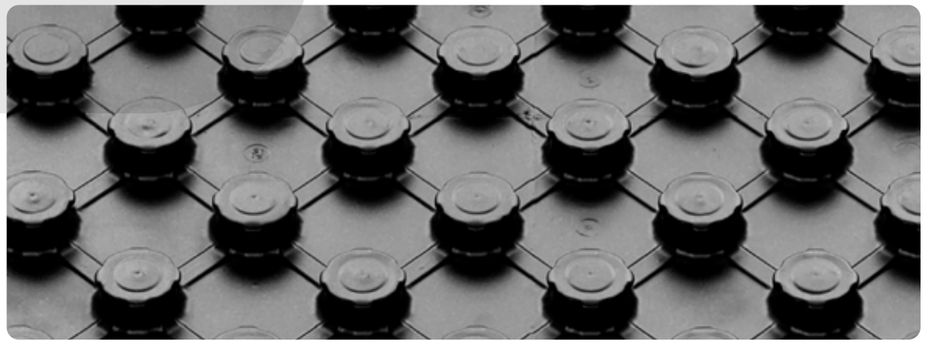
Laying grid:
5 cm



	Combitop ND 11	Combitop 25-2	Combitop 35-2
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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	DEOdh	DESsg	DESsg
Designation per EN 13163	EPS 150	EPS-T	EPS-T
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 declared value λ D	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 colour	black	black	black
Quantity per box	12 pieces = 13.44 m^2	7 pieces = 7.84 m^2	5 pieces = 5.6 m^2

COMBITOP ROUND

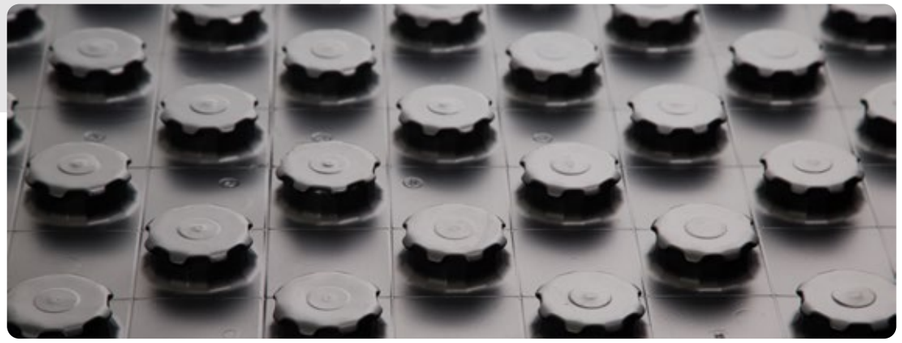
Laying grid:
5 cm



	Combitop ND 11	Combitop ND 25	Combitop 30-2	Combitop 43-2
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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	DEOdh	DEOdh	DESsg	DESsg
Designation per EN 13163	EPS 150	EPS 150	EPS-T	EPS-T
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 declared value λ D	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 colour	black	black	black	black
Quantity per box	13 pieces = 14.56 m^2	8 pieces = 8.96 m^2	6 pieces = 6.72 m^2	5 pieces = 5.6 m^2

COMBITOP BUBBLE

Laying grid:
6.5 cm



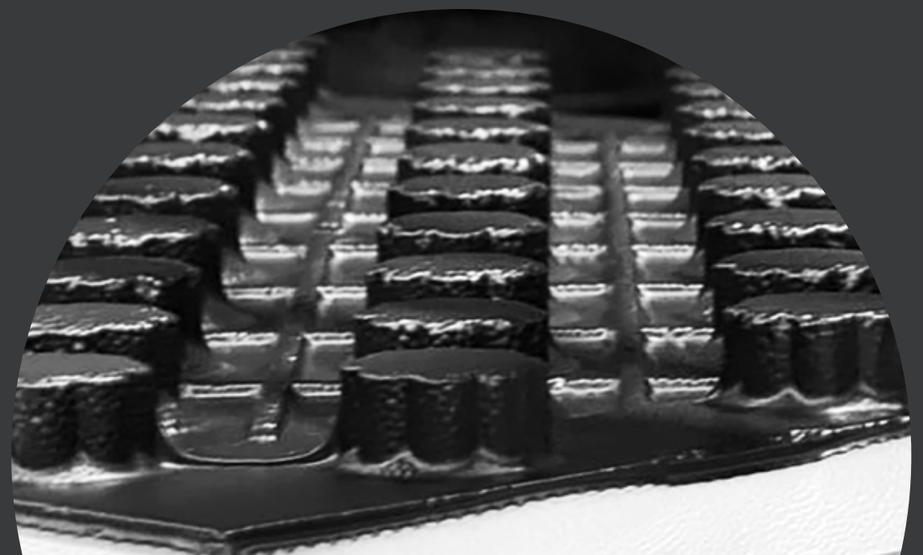
	Combitop ND 10	Combitop ND 20	Combitop 30-2
Board dimensions (L x W)	1,365 x 845 mm	1,365 x 845 mm	1,365 x 845 mm
Effective board size (L x W)	1,300 x 780 mm	1,300 x 780 mm	1,300 x 780 mm
Effective board area	1.014 m^2	1.014 m^2	1.014 m^2
Laying grid (pipe spacing)	65 mm	65 mm	65 mm
Nominal insulation thickness dL	10 mm	20 mm	30 mm
Total thickness with pipe holder	32 mm	42 mm	52 mm
Pipe diameter	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	DEOdh	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E	E
Impact sound improvement	–	–	28 dB
Stiffness group per EN 13163	–	–	SD 20
Thermal conductivity declared value λ D	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 colour	black	black	black
Quantity per box	12 pieces = 12.17 m^2	8 pieces = 8.12 m^2	6 pieces = 6.084 m^2

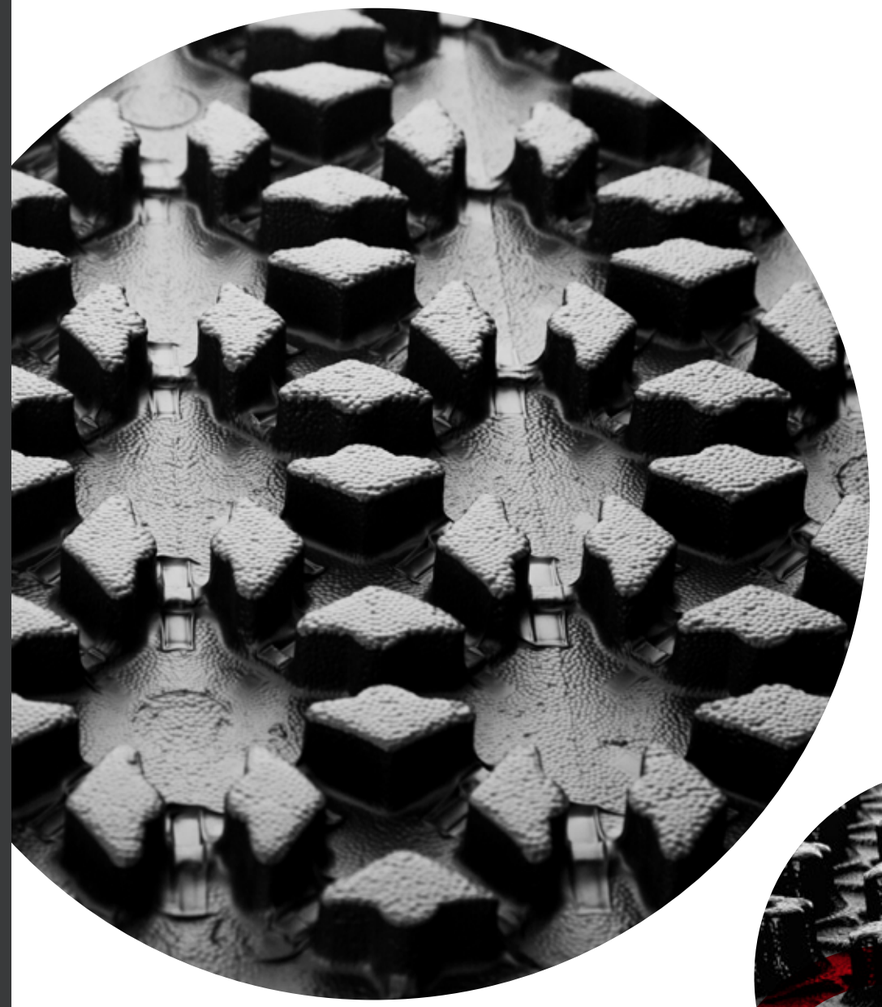
Laying grid:
5 cm | 7.5 cm | 10 cm

KASCHEE

Ideal for floors with heat and impact sound insulation

- High-quality **EPS castellated board refined with a thin plastic film**
- The plastic film is applied to the EPS board in a single step using the specialised **skin-molding process**
- Simple and quick pipe laying thanks to the integrated nub structure
- Ideal for pipe diameters of **16 to 18 mm**
- Special **hook and lock seam connection** allows use with liquid screed
- Effective board area: **0.5 m² or 0.72 m²**

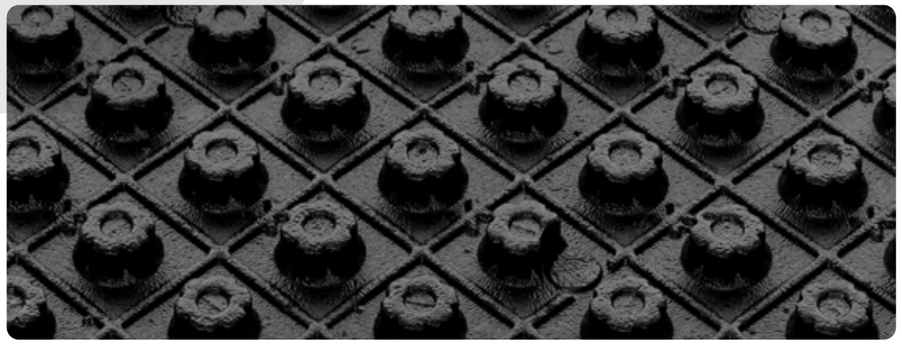




Hook and lock seam connection

KASCHEE 10-5 OCTAGON

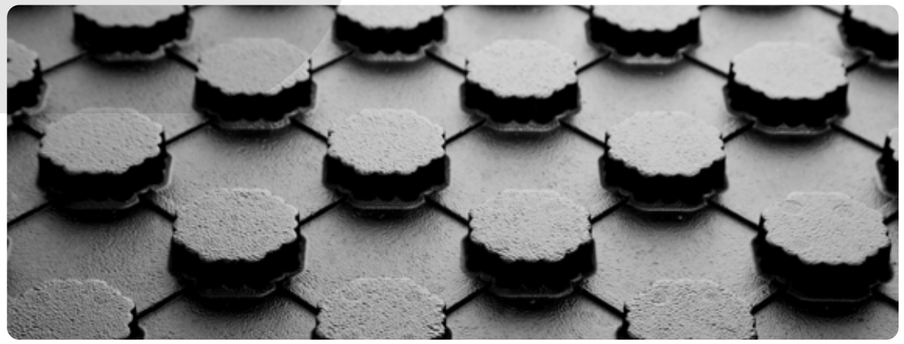
Laying grid:
5 cm



	Kaschee ND 15	Kaschee 35-2
Board dimensions (L x W)	1,030 x 530 mm	1,030 x 530 mm
Effective board size (L x W)	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	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity declared value λ D	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 colour	black	black
Quantity per box	16 pieces = 8 m^2	12 pieces = 6 m^2

KASCHEE 12-6 OCTAGON

Laying grid:
7.5 cm



	Kaschee ND 20	Kaschee 35-2
Board dimensions (L x W)	1,230 x 630 mm	1,230 x 630 mm
Effective board size (L x W)	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	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity declared value λ D	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 colour	black	black
Quantity per box	13 pieces = 9.36 m^2	10 pieces = 7.20 m^2

Laying grid:
10 cm

	Kaschee ND 15	Kaschee 35-2
Board dimensions (L x W)	1,030 x 530 mm	1,030 x 530 mm
Effective board size (L x W)	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	DEOdh	DESsg
Designation per EN 13163	EPS 150	EPS-T
Fire behaviour per EN 13501-1	E	E
Impact sound improvement	–	26 dB
Stiffness group per EN 13163	–	SD 30
Thermal conductivity declared value λ D	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 colour	black	black
Quantity per box	16 pieces = 8 m^2	12 pieces = 6 m^2

Laying grid:
5 cm | 6.5 cm

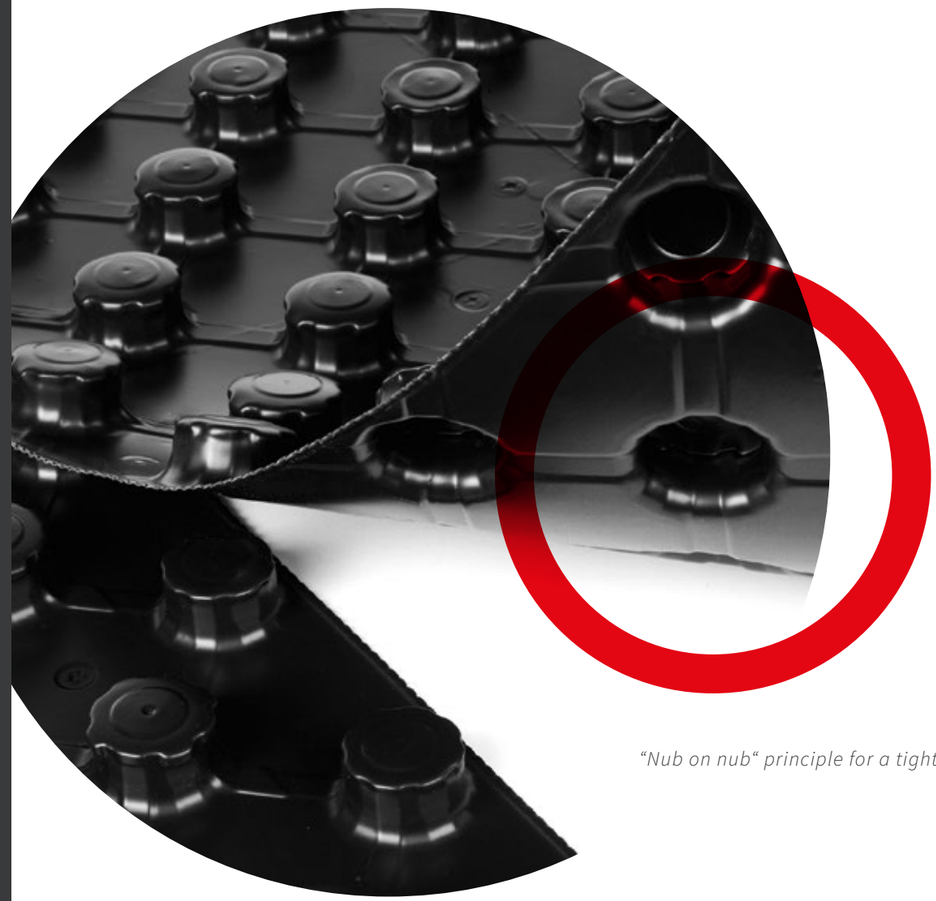
SOLOTOP

Ideal for use in combination with high-performance insulation materials

- Waste-free laying thanks to the **“nub on nub“ principle**
- Suitable for all screed types thanks to the secure and **tight fit of the castellated floor boards**
- **Laying on heat and impact sound insulation**
- Quick **one-person assembly**

5 cm
laying grid

6.5 cm
laying grid



“Nub on nub“ principle for a tight fit

SOLOTOP

Laying grid:
5 cm | 6.5 cm

	Star 5 cm	Diagonal 5 cm	Diagonal-Tech 5 cm
Board dimensions (L x W)	1,450 x 850 mm	1,450 x 850 mm	1,450 x 850 mm
Effective board size (L x W)	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
Overall nub height	20 mm	20 mm	20 mm
Pipe diameter	14 – 17 mm	14 – 17 mm	14 – 17 mm
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. 1,280 g
Standard film colour	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 pallet	130 pieces = 145.6 m^2	130 pieces = 145.6 m^2	130 pieces = 145.6 m^2
Quantity per box	12 pieces = 13.44 m^2	12 pieces = 13.44 m^2	10 pieces = 11.20 m^2

SOLOTOP

SOLOTOP

Laying grid:
5 cm | 6.5 cm

	Square 5 cm	Round 5 cm	Bubble 6.5 cm
Board dimensions (L x W)	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 – 17 mm
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
Standard film colour	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 pallet	130 pieces = 145.6 m^2	130 pieces = 145.6 m^2	130 pieces = 131.8 m^2
Quantity per box	12 pieces = 13.44 m^2	12 pieces = 13.44 m^2	12 pieces = 12.17 m^2

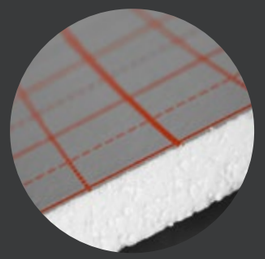
Grid size:
5 cm

TACKER ROLL

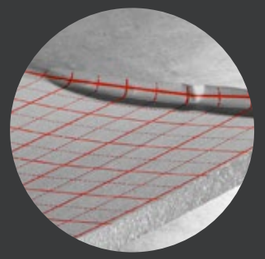
Quick and easy installation by rolling out the tacker roll

Tacker rolls for fast installation and secure pipe fixing

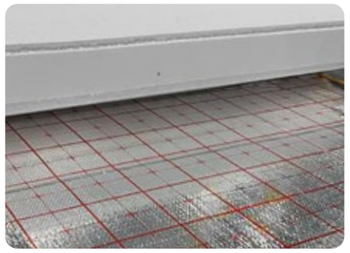
- **Highly tear-resistant, aluminium-coated woven film** with 5 cm grid print to assist heating pipe installation
- **Free, flexible pipe laying**
- **Adhesive strips for film overlap**
- **Quick and easy installation** by rolling out the tacker roll
- **Pipe fixing secured with staples or racks**



5 cm grid print



Adhesive strips for film overlap



	PET/ALU T650	PET/ALU T1000
Roll size (W x L)	1,000 x 10,000 mm	1,000 x 10,000 mm
Effective roll size (W x L)	1,000 x 10,000 mm	1,000 x 10,000 mm
Effective roll area	10 m^2	10 m^2
Laying grid (grid print on film)	50 mm	50 mm
Nominal insulation thickness dL	30-3	30-2
Flexural strength BS	≥ 50 MPa	≥ 50 MPa
Dynamic stiffness SD	≤ 20 MN/m^3	≤ 30 MN/m^3
Type of application per DIN 4108-10	DESsg	DESsg
Designation per EN 13163	EPS-T	EPS-T
Fire behaviour EN 13501-1	E	E
Thermal conductivity declared value λ D	0.040 W/mK	0.038 W/mK
Heat distortion temperature	85° C	85° C
Max. load	6.5 kPa (650 kg/m^2)	10 kPa (1,000 kg/m^2)
Impact sound improvement	ca. 26 dB	ca. 28 dB
Quantity per bag	1 roll = 10 m^2	1 roll = 10 m^2

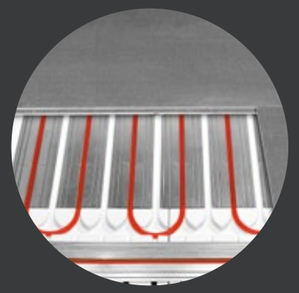
Pipe diameter:
14 mm | 16 mm

RENOVA

Dry construction elements for renovation, refurbishment and low installation heights

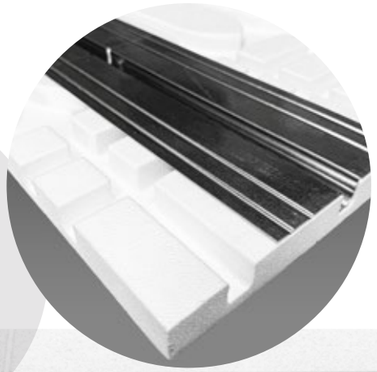
- **Extremely thin dry construction board** and heat conduction plate with omega profile
- **Simple pipe laying in a meandering pattern**
- **Secure pipe seating ensured by the omega profile** and recesses in the dry construction board
- Water pipes are fed through polystyrene insulation elements clad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

Floor installation with wooden floorboards



Floor installation with dry screed boards

Pipe sits securely



Heat conduction plate connection

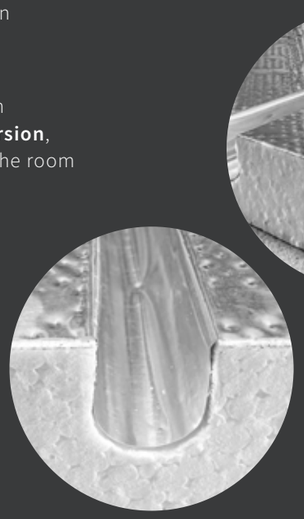
	Ø 14 mm	Ø 16 mm
Board dimensions (L x W)	1,000 x 500 mm	1,000 x 500 mm
Effective board size (L x W)	1,000 x 500 mm	1,000 x 500 mm
Effective board area	0.5 m^2	0.5 m^2
Laying grid (pipe spacing)	71.43 mm	83.33 mm
Nominal insulation thickness dL	25 mm	25 mm
Insulation thickness without pipe holder	10 mm	8 mm
Total thickness with pipe holder	25 mm	25 mm
Pipe diameter	14 mm *in conjunction with heat-conducting plates*	16 mm *in conjunction with heat-conducting plates*
Compressive stress at 10% compression	150 kPa	150 kPa
Type of application per DIN 4108-10	DEOdh	DEOdh
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 declared value λ D	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. load	45 kPa (4,500 kg/m^2)	45 kPa (4,500 kg/m^2)
Quantity per box	20 pieces = 10 m^2	20 pieces = 10 m^2

Pipe diameter:
16 mm

RENOPLAN

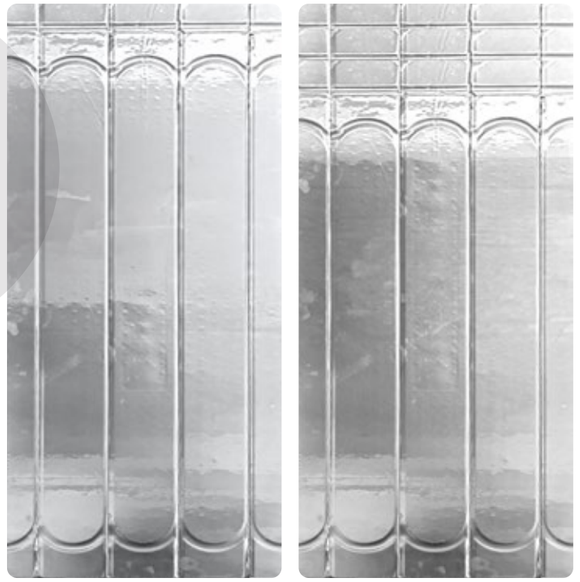
Aluminium-laminated dry construction elements, ideal for renovation, refurbishment and low installation heights

- **Extremely thin dry construction board, aluminium-laminated**
- **Simple pipe laying** in a meandering pattern
- Suitable for wooden floorboards and dry screed boards
- Pipe routing through polystyrene insulation elements; in the **aluminium-laminated version**, heat is conducted quickly and evenly into the room



Precise aluminium lamination

Available with either one or three crossbars.



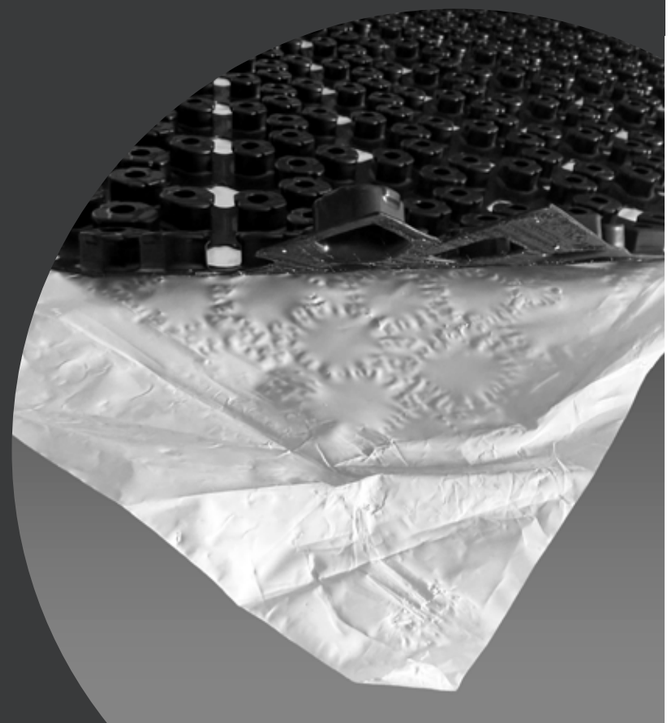
Board dimensions (L x W)	1,200 x 600 mm
Effective board size (L x W)	1,200 x 600 mm
Effective board area	0.72 m^2
Laying grid (pipe spacing)	150 mm
Nominal insulation thickness dL	20/25 mm
Pipe diameter	16 mm
Compressive stress at 10% compression	150 kPa
Type of application per DIN 4108-10	DEOdh
Designation per EN 13163	EPS 150
Fire behaviour per EN 13501-1	E
Density	> 30 kg/m^3
Quantity per pallet	240 pieces = 172.8 m^2
Quantity per box	12 = 8.64 m^2

Pipe diameter:
10 - 12 mm

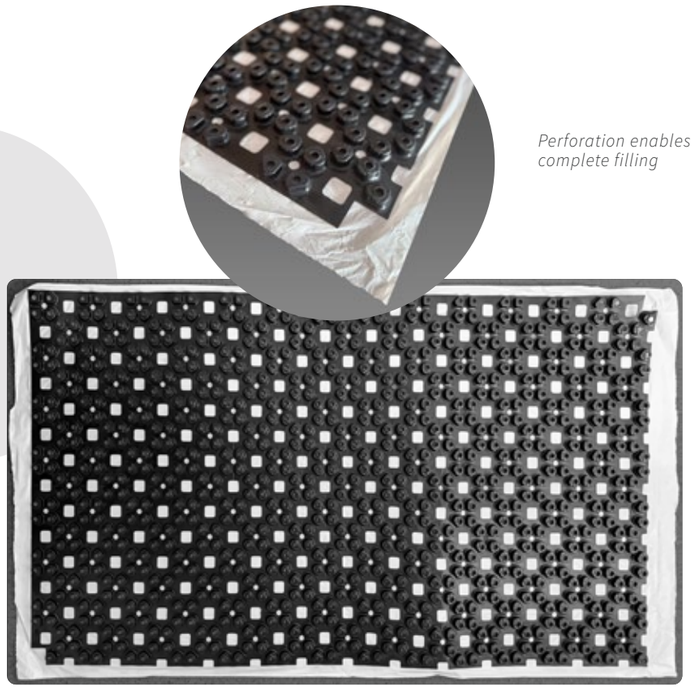
RENO SLIM

Ideal for renovations and the retrofitting of underfloor heating at minimal installation height

- Perforated castellated board with self-adhesive backing for **secure fixing** to a clean substrate
- Perforation enables **complete filling of the nubs** with special grouting compounds
- Ensures **stable and efficient integration of the underfloor heating** into renovation floor structures



Self-adhesive backing for secure fixing



Perforation enables complete filling

Board dimensions (L x W)	1,464 x 800 mm
Effective board size (L x W)	1,430 x 770 mm
Effective board area	1.1 m^2
Laying grid (pipe spacing)	98 mm
Overall nub height	14 mm
Pipe diameter	10 – 12 mm
Film thickness	1 mm (1,000 µ)
Weight	approx. 1,300 g
Standard film colour	black
Max. load	5 kPa (500 kg/m^2)
Quantity per pallet	160 pieces = 143.14 m^2
Quantity per box	10 pieces = 11 m^2

ACCESSORIES

Complementary system components for a **functional and standards-compliant floor construction.** Our accessories support clean execution, secure connections and transitions, and contribute to the **long-term performance** of the entire heating system.

Compensating element

Deep-drawn part without EPS insulation, ideal for doorways

Dimensions	1,400 x 200 mm
Laying grid (pipe spacing)	50 mm
Board type	round nub
Film thickness	0.60 mm
Quantity	14 pcs. / Box

Connector

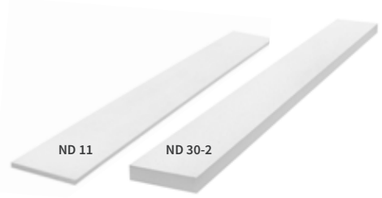
Ensures a perfect, secure connection between cut Combitop boards

Dimensions	1,400 x 100 mm
Laying grid (pipe spacing)	50 mm
Board type	round nub
Film thickness	0.60 mm
Quantity	26 pcs. / Box

Insulation strips

EPS insulation without deep-drawn part, ideal for doorways

	ND 11	ND 30-2
Board dimensions / effective area (mm)	1,400 x 150 mm	
Effective area of each deep-drawn part	0.21 m²	
Nominal insulation thickness	10 mm	30 mm
Quantity	20 pcs. / Box	10 pcs. / Box



Self-adhesive perimeter insulation strip

Provides quick and clean separation between screed and wall, prevents stress cracks and sound bridges and allows the necessary expansion due to temperature and moisture fluctuations.

8 mm thick	150 mm wide
25 or 50 m roll length	

HIRSCH Porozell

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