

gabotherm®

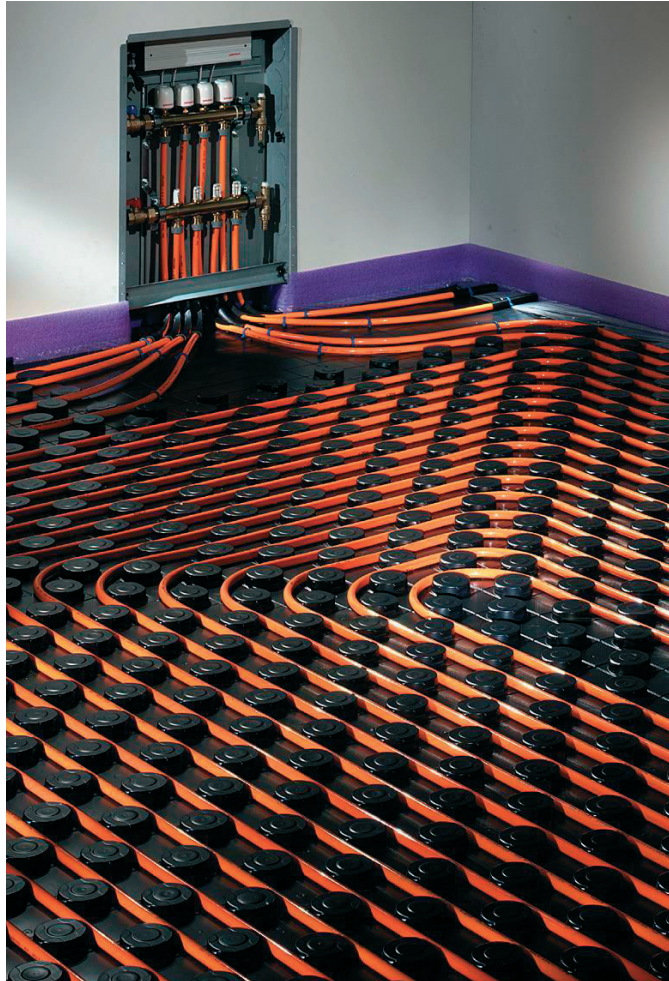
Floor Heating Systems



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gabo 1-2-3:

The gabo 1-2-3[®] system is a pipe positioning panel system with integrated heat and footfall sound insulation. The pipe positioning panel consists of polystyrene with a hard top made from a thermoformed EPS foil acting as a moisture barrier. This system panel (1.35 m x 0.75 m) can be cut to length using the cutter and because the knobs overlap, it can be laid without producing offcuts.



The gabo 1-2-3[®] system panel can accommodate **pipe dimensions 15, 16, 17 and 18** with a **spacing of 75, 150, 225 and 300 mm** laid in a spiral or as meanders.

The gabo 1-2-3[®] floor heating system is suitable as a wet system for floor constructions in connection with various different screeds. Various additional insulations and compensation panels are available for different areas of application (e.g. ceilings on soil).

The connection can be made using press, clamp or plug connections, depending on the pipe dimension.

gabotherm control components and manifolds with accessories are available for rounding off this system.

gt 70:

The gt 70 system is a high-temperature floor heating system. Its areas of application are especially in existing heating systems with a higher temperature level. These can be directly connected to the existing heating system in order to upgrade it to a floor heating system without reducing the flow temperature (up to max. 70°C).

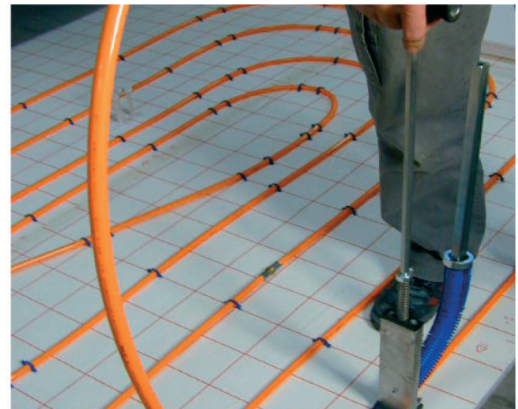
The system structure corresponds to the gabo 1-2-3 system with the exception of the pipe. In this case, an interior pipe 12 x 1.3 or 14 x 2.0 mm sheathed with a protective pipe made of PE with the dimension 21 mm is used. This protective pipe prevents the floor surface temperature from exceeding the specified limit even for higher flow temperatures.



gabo TAC:

This relatively cost-efficient floor heating system consists of a polystyrene system roll in different thicknesses for attaching gabotherm[®] pipes of dimension 15–18 mm.

These pipes are attached to the system roll using an installation device and stapler needles



The projecting foil of the system roll with 1 m width is connected using an adhesive tape. The laying spacing of 5–30 cm can be selected as desired, while adhering to the minimum bending radii.

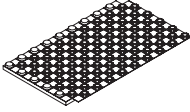
Floor Heating System Accessories:

All necessary system components such as edge insulation strips with foil, additional insulation made from polyurethane (against soil or exterior air), measuring point sets or screed additives are available for all of the above-named floor heating systems.

Pipe support bends for the entry point of the manifold, pipe adapters for the connection to the manifold or pipe couplings for pipe connections are available for making the connections of the floor heating system.

gabo 1-2-3[®] Pipe Positioning Panels

gabotherm[®] floor heating pipe positioning panels according to DIN 4109 and DIN EN 1264, with integrated heat and footfall sound insulation and moisture barrier, material: polystyrene SE including pipe fasteners for accommodating gabotherm[®] pipes, length: 1350 mm, width: 750 mm, laying spacing: 7.5 cm or multiples thereof;

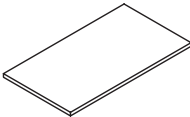


Pipe positioning panel	gabo 1-2-3 [®] 35-3	gabo 1-2-3 [®] 10
Max traffic loading	3.5 kN/m ²	75 kN/m ²
Height without knobs	35 mm	10 mm
Thermal resistance	Rλ = 0.80 m ² K/W	Rλ = 0.29 m ² K/W

Code	Type	Unit	Item ID
gabo 1-2-3 [®] Panel	35-3	5.06 m ²	00339
gabo 1-2-3 [®] Panel	10	12.15 m ²	00340

gabo 1-2-3[®] Compensation Element

for laying close to the edges or in front of the manifolds.
Material: polystyrene SE, length: 1000 mm, width: 500 mm



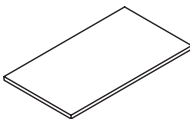
Compensation Element	gabo 1-2-3 [®] 35-3	gabo 1-2-3 [®] 10
Max traffic loading	5 kN/m ²	75 kN/m ²
Height without knobs	35 mm	10 mm
Thermal resistance	Rλ = 0.75 m ² K/W	Rλ = 0.29 m ² K/W

Code: Ausgleichselement

Code	Type	Unit	Item ID
Ausgleichselement	35-3	2.50 m ²	00341
	10	7.50 m ²	00342

Additional insulation

for gabo 1-2-3[®] consisting of rigid polyurethane foam with a diffusion resistant coat on both sides, with aluminium cladding, free from CFC, heat conduction class 025, building material class B2, according to DIN 4102, for thermal insulation against exterior air, soil or non-heated rooms.



Additional insulation	GTF-PUR Z 51	GTF-PUR Z 65 +3
Suitable for	gabo 1-2-3 [®] 35-3	gabo 1-2-3 [®] 10
Dimensions	1200 x 1200 mm	1225 x 1225 mm
Thickness	51 mm	68 mm
Thermal resistance	Rλ = 2.05 m ² K/W	Rλ = 2.6 m ² K/W

Code	Type	Unit	Item ID
GTF-PUR	Z 51	8.64 m ²	09742
	Z 65 + 3	6.25 m ²	04194

suitable gabotherm[®] pipes for gabo 1-2-3 system

	15 x 1.5	16 x 2.0	17 x 2.0	18 x 2.0
PB	x	x		x
Pe-Xc		x	x	x
PE-RT		x	x	x
MV		x		

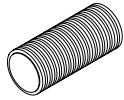
For available coil sizes and prices, see chapter Pipes.

gabo 1-2-3[®] Pipe Positioning Panel for Pipes 15 –d18 mm Diameter



gabotherm[®] Protective Pipe

corrugated protective pipe made from polyethylene, in areas where heat radiation is not desired or as protection when intersecting expansion joints, colour of protective pipe black;



Code	Type = do	for interior pipe	Unit	Art. Nr.
GT-SR	25	d 15 - d 18	20 m	04682

Pipe Elbow

made from impact resistant plastic, for 90° bending of gabotherm[®] pipes.



Code	Type = do	for pipe dimension	Unit	Art. Nr.
GT-RB	15/18	d 15 - d 18	1 piece	12001
	25	d 25	1 piece	11999

Press Coupling Adapter

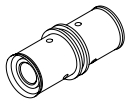
made from brass, with 3/4" flanged nut and euro-, for gabotherm[®] pipe for connection to the manifold.



Code	Type		Unit	Item ID
GT-PKA	15	nickel-plated	10 pieces	12704
	16	not nickel-plated	10 pieces	11989
GT-M-PKA	17	nickel-plated	10 pieces	00804
GT-PKA	18	not nickel-plated	10 pieces	01143

Press Coupling

made from brass, for connecting gabotherm[®] pipes.



Code	Type		Unit	Item ID
GT-PK	15/15		10 pieces	12711
	16/16		10 pieces	06284
	17/17		10 pieces	00652
	18/18		10 pieces	06285

Coupling Adapter

made from brass, with 3/4" euro-cone, consisting of main casting with O-ring, clamping ring and cap nut, for connecting gabotherm[®] pipes to radiator distribution stations.



Code	Type		Unit	Item ID
GT-KA	15 x 1.5	not nickel-plated	20 pieces	12656
	16 x 2	nickel-plated	20 pieces	07725
	17 x 2	nickel-plated	20 pieces	07729
	18 x 2	nickel-plated	20 pieces	07730

Spreader Clips

made from impact-resistant plastic. For diagonal laying of the gabotherm[®] pipe on the pipe positioning panel. In magazines of 30 pieces each.



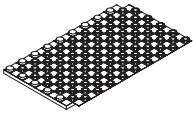
Code		Unit	Item ID
GTF-TAC Spreizclips		300 pieces	09723

For accessories, see chapter Accessories

For manifolds, distribution boxes and control systems, see chapter Manifolds

gabo 1-2-3® Pipe Positioning Panels

gabotherm® floor heating pipe positioning panel according to DIN 4109 and DIN EN 1264, with integrated thermal and footfall sound insulation and moisture barrier, material: polystyrene SE including pipe fasteners for accommodating gabotherm pipes.
Length: 1350 mm, width: 750 mm, laying spacing: 7.5 cm or multiples thereof;

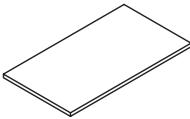


Pipe positioning panel	gabo 1-2-3® 35-3	gabo 1-2-3® 10
Max traffic loading	3.5 kN/m ²	75 kN/m ²
Height without knobs	35 mm	10 mm
Thermal resistance	R _λ = 0.80 m ² K/W	R _λ = 0.29 m ² K/W

Code	Type	Unit	Item ID
gabo 1-2-3® Platte	35-3	5.06 m ²	00339
gabo 1-2-3® Platte	10	12.15 m ²	00340

gabo 1-2-3® Compensation Element

for laying close to edges or in front of the manifolds.
Material: polystyrene SE
Length: 1000 mm, width: 500 mm



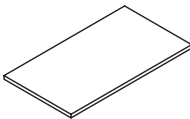
Compensation element	gabo 1-2-3® 35-3	gabo 1-2-3® 10
Max traffic loading	5 kN/m ²	75 kN/m ²
Height without knobs	35 mm	10 mm
Thermal resistance	R _λ = 0.75 m ² K/W	R _λ = 0.29 m ² K/W

Code: Ausgleichselement

Code	Type	Unit	Item ID
Ausgleichselement	35-3	2.50 m ²	00341
	10	7.50 m ²	00342

Additional Insulation

for gabo 1-2-3® consisting of rigid polyurethane foam with diffusion-resistant coat on both sides, with aluminium cladding, free from CFCs, heat conduction group 025, building material class B2, according to DIN 4102, for thermal insulation against exterior air, soil or non-heated rooms.



Additional insulation	GTF-PUR Z 51	GTF-PUR Z 65 +3
Suitable for	gabo 1-2-3® 35-3	gabo 1-2-3® 10
Dimensions	1200 x 1200 mm	1225 x 1225 mm
Thickness	51 mm	68 mm
Thermal resistance	R _λ = 2.05 m ² K/W	R _λ = 2.6 m ² K/W

Code	Type	Unit	Item ID
GTF-PUR	Z 51	8.64 m ²	09742
	Z 65 + 3	6.25 m ²	04194

suitable gabotherm® pipes in a protective pipe for gt-70 system



Pipes in protective pipe do = 21 mm

	12 x 1.3	14 x 2.0
PB	x	x
Pe-Xc		x
PE-RT		x

For available coil sizes and prices, see chapter Pipes.

Press Coupling Adapter

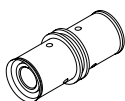
made from brass, with 3/4" euro-cone, consisting of main casting with O-ring, stainless steel press sheath and flanged nut, for connecting the pipe to the distribution station.



Code	Type		Unit	Item ID
GT-PKA	12 x 1.3	not nickel-plated	10 pieces	12734
GT-M-PKA	14 X 2	nickel-plated	10 pieces	00805

Press Coupling

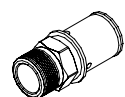
made from brass, for connecting gabotherm® pipes.



Code	Type		Unit	Item ID
GT-PK	12 x 1.3		10 pieces	12735
GT-M-PK	14 x 2		10 pieces	00579

Press Transition Coupling with External Screw Thread

for transitions from PB pipe to metal thread.



Code	Type		Unit	Item ID
GT-PUK	12 1/2 " external thread		10 pieces	00312
GT-M-PUK	14 1/2 " external thread		10 pieces	00806

Coupling Adapter

made from brass, with 3/4" euro-cone, consisting of main casting with O-ring, clamping ring and cap nut, for connecting gabotherm® pipes to the distribution station and to the radiator distribution station:



Code	Type		Unit	Item ID
GT-KA	12 x 1.3		20 pieces	12655
	14 x 2.0		20 pieces	07726

Spreader Clips

made from impact-resistant plastic. For diagonal laying of the gabotherm® pipe on the pipe positioning panel. In magazines of 30 pieces each.



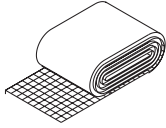
Code		Unit	Item ID
GTF-TAC Spreizclips		300 pieces	09723

For accessories, see chapter Accessories

For manifolds, distribution boxes and control systems, see chapter Manifolds

gabotherm® -TAC System Roll

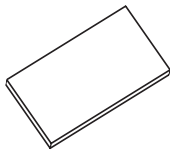
made from quality-controlled footfall sound insulation PST-SE TK according to DIN 18164, with laminated special coating acting as moisture barrier and printed grid pattern. One-sided overlap, in an oval roll and packed in a PE foil sack, length 10 m, width 1 m, integrated thermal and footfall sound insulation. Dyn. STG 15;



Code	Type	Heat cond. group	Unit	Item ID
GTF-TAC	25-2.	0.45	10 m ²	12681
	30-2	0.40	10 m ²	09722

Additional Insulation

made from rigid polyurethane foam diffusion-resistant on both sides (aluminium cladding). For thermal insulation against exterior air, soil and non-heated rooms. Size: 1,200 x 1,200 mm; height 51 mm;



Code	Type	Heat cond. group	Unit	Item ID
GTF-PUR	Z 51	0.25	8.64 m ²	09742

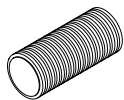
suitable gabotherm® pipes for TAC system

	15 x 1.5	16 x 2.0	17 x 2.0	18 x 2.0
PB	x	x		x
Pe-Xc		x	x	x
PE-RT		x	x	x
MV		x		

For available coil sizes and prices, see chapter Pipes.

gabotherm® Protective Pipe

corrugated protective pipe made from polyethylene. Colour black.



Code	Type = do	for interior pipe	Unit	Item ID
GT-SR	25	d 15 - d 18	20 m	04682

Press Coupling Adapter

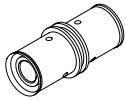
made from brass, with 3/4" flanged nut and euro-cone;



Code	Type		Unit	Item ID
GT-PKA	15	nickel-plated	10 pieces	12704
	16	not nickel-plated	10 pieces	11989
GT-M-PKA	17	nickel-plated	10 pieces	00804
GT-PKA	18	not nickel-plated	10 pieces	01143

Press Coupling

made from brass, for connecting gabotherm® pipes.



Code	Type	Unit	Item ID
GT-PK	15/15	10 pieces	12711
	16/16	10 pieces	06284
GT-M-PK	17/17	10 pieces	00652
	18/18	10 pieces	06285

Coupling Adapter

made from brass, with 3/4" euro-cone, consisting of main casting and O-ring, clamping ring and cap nut, for connecting gabotherm® pipes to the distribution station.



Code	Type	Unit	Item ID	
GT-KA	15 x 1.5	not nickel-plated	20 pieces	12656
	16 x 2	nickel-plated	20 pieces	07725
	17 x 2	nickel-plated	20 pieces	07729
	18 x 2	nickel-plated	20 pieces	07730

Spreader Clips

made from impact-resistant plastic. For fastening the gabotherm® pipe on the system roll.
In magazines of 30 pieces each.



Code	Unit	Item ID
GTF-TAC Spreader Clips	300 pieces	09723

Adhesive Tape

for connecting the gabotherm® TAC system roll; width: 50 mm; length: 66 m



Code	Unit	Item ID
GTF-TAC Adhesive Tape	6 pieces	09725

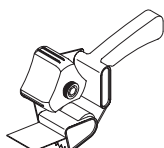
Installation Device

for setting the clips on the gabotherm® TAC system roll, with holder for spreader clips.



Code	Unit	Item ID
GTF-TAC Installation Device	1 piece	09724

Tape Roller

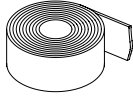


Code	Unit	Item ID
GTF-TAC Tape Roller	1 piece	09726

For manifolds, distribution boxes and control systems, see chapter Manifolds.

Edge Insulation Strip

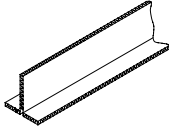
made from expanded polyethylene, approx. 8 mm thick, 150 mm high, with glued-on foil and tear-off slits, with self-adhesive tape on rear, for especially clean installations in corners, requirements of the DIN 18560 for room to move of 5 mm are fulfilled.



Code	Unit	Item ID
GTF-RDS	25 m	00193

Expansion Joint Strip

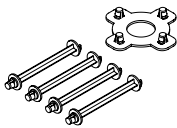
in doorways and for the secure separation of the screed surfaces; length 1 m;



Code	Unit	Item ID
GTF-DFS 100	25 m	09743

GTF Measuring Point Set

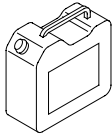
for marking the measuring point for the moisture test of the heating screed according to DIN 4725 T4, consisting of 4 spacers and a printed top plate.



Code	Unit	Item ID
GTF-Measuring Point Set	5 pieces	09729

gabolith Screed Additive

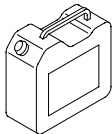
for plasticising the cement screed;
dosage: approx. 0.15 kg/m² for 45 mm pipe cover



Code	Unit	Item ID
GTF-EZ 5	5 kg	07151

gabolith H Special Screed Additive

gabolith H special screed additive for plasticising the cement screed, for the installation of thin-layered heating screeds;
dosage: approx. 1.0 kg/m² for 25 mm pipe cover;



Code	Unit	Item ID
GTF-EZ -H 10	10 kg	05808

Sound Insulation Concatenation Dowel

for fixating the gabo therm® TAC system roll on the unfinished concrete.



Code	Unit	Item ID
GTF-Kettendübel	50 pieces	09730