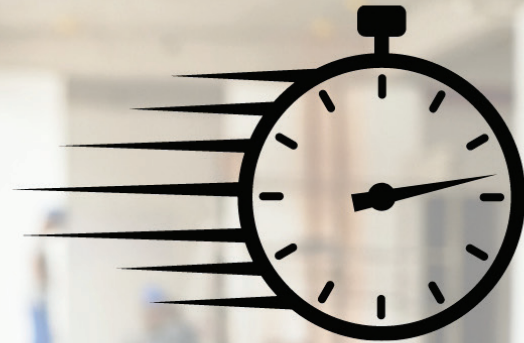
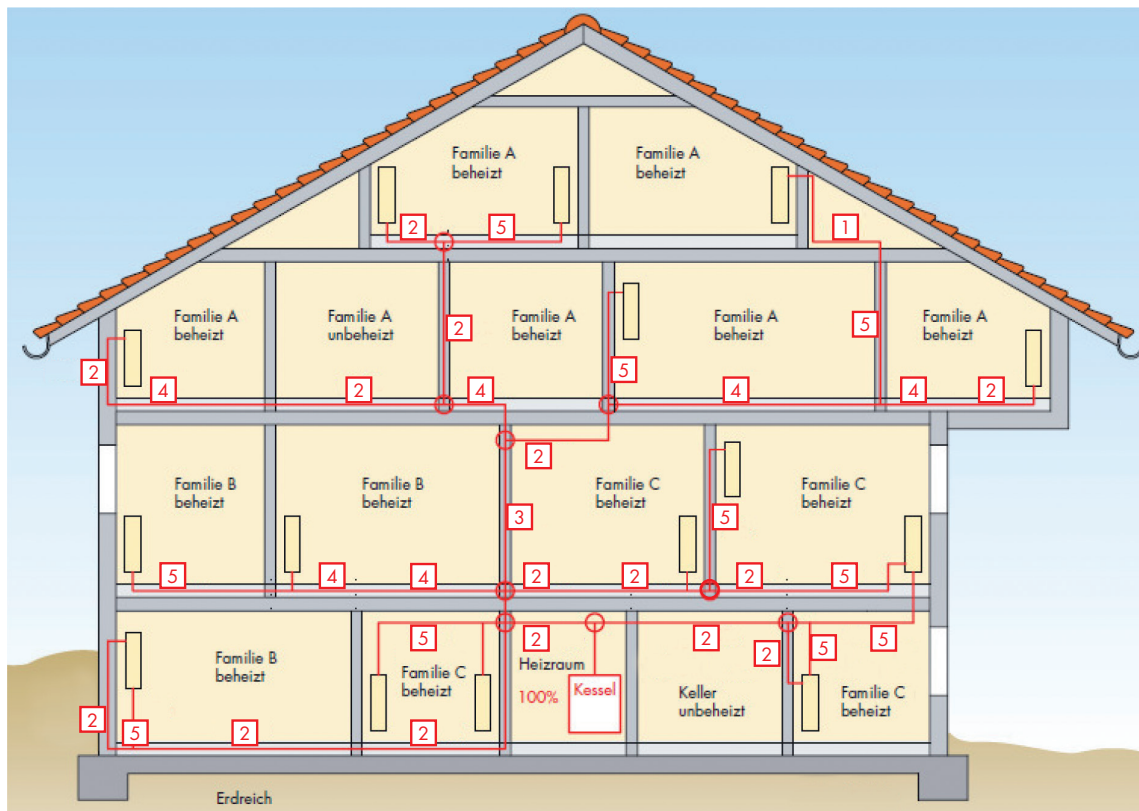


INSULATION - BUILDING SITE SUPPORT

Insulation according to DIN 1988-200 and Building Energy Act (GEG)



INSULATION FOR HEATING CONNECTION ACCORDING TO GEG



Pre-insulated and easy-handling:

- Fast as well as time and cost saving installation
- GEG conform insulation
- Different types of pipes and dimensions

Translations:

Family A, B, C heated
 Family A, B, C unheated
 Heizraum = boiler room
 Keller = cellar
 Erdreich = soil

- 1 = concentric 200 %
- 2 = concentric 100 % or in floor structure square 100%
- 3 = concentric 50 %
- 4 = concentric 9 mm, or in floor structure square 7 mm
- 5 = no requirements
- = 50 %

INSULATION FOR HEATING CONNECTION ACCORDING TO GEG

Perfect insulation for heating pipes

■ Insulation requirements for heat distribution and cooling distribution piping as well as fittings are laid down in the Building Energy Act (GEG)

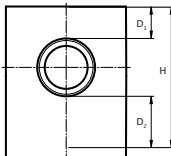
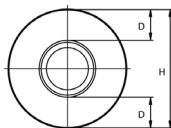
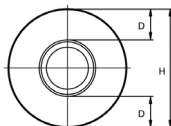
■ The pipe insulation regulations of the building energy act apply to heating and cooling installations, but not to solar installations. According to building energy act Annex 8, heat distribution and hot water piping and fittings must be insulated at 100 % (lines aa to dd).

■ Pipes in crossover areas, at pipe connection points or in wall and ceiling openings, as well as heating pipes in components between heated rooms of different users, need to be insulated with 50 % insulation (line ee + ff).

■ For cooling distribution and cold water pipes as well as fittings of ventilation and air-conditioning systems, the minimum insulation thickness is 6 mm, based on a thermal conductivity of 0.035 W/mK or 7 mm for 0.040W/mK.

■ No requirements for minimum insulation thickness are imposed on pipelines of central heating systems, which are located in heated rooms or in building components between heated rooms of the same user and whose heat output can be influenced by exposed isolating equipment. (e.g. thermostatic valves in heating systems)

■ For reasons of corrosion protection and prevention of cracking and flowing noise, insulation is recommended, even if the GEG does not specify any requirements for the respective pipeline.

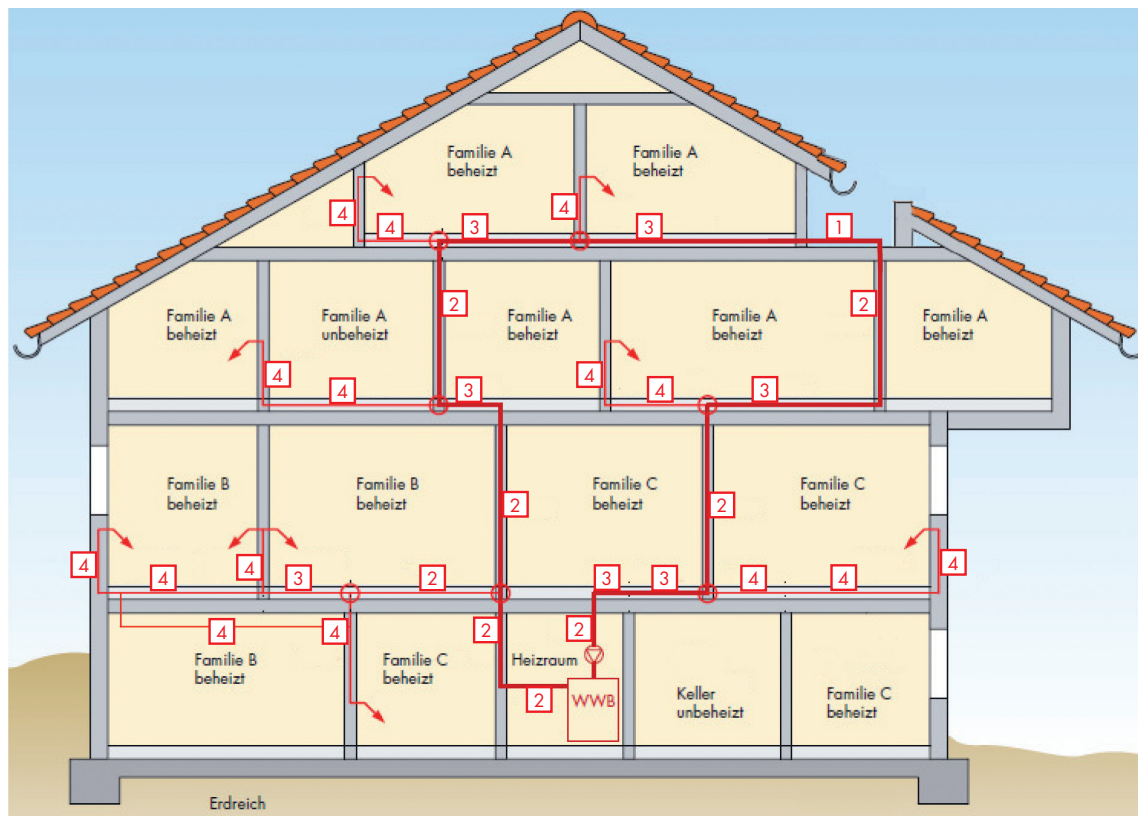


| Description | H mm | D mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|---------------------------------|---------|---------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, concentric 5 mm | 29 | 5 | 12 | 0,170 | 878 528 105 | 50 | 5 |
| Stabil-pipe 20, concentric 5 mm | 32 | 5 | 15 | 0,240 | 878 528 205 | 50 | 5 |
| Stabil-pipe 25, concentric 5 mm | 37 | 5 | 20 | 0,340 | 878 528 305 | 50 | 5 |
| Stabil-pipe 16, concentric 9 mm | 37 | 9 | 12 | 0,170 | 878 528 109 | 50 | 4 |
| Stabil-pipe 20, concentric 9 mm | 40 | 9 | 15 | 0,250 | 878 528 209 | 50 | 4 |
| Stabil-pipe 25, concentric 9 mm | 45 | 9 | 20 | 0,356 | 878 528 309 | 50 | 4 |

| Description | H mm | D mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|---------------------------------|---------|---------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, concentric 50% | 43 | 13 | 12 | 0,146 | 878 528 113 | 50 | 3 |
| Stabil-pipe 20, concentric 50% | 46 | 13 | 15 | 0,250 | 878 528 213 | 50 | 3 |
| Stabil-pipe 25, concentric 50% | 51 | 13 | 20 | 0,376 | 878 528 313 | 50 | 3 |
| Stabil-pipe 16, concentric 100% | 69 | 26 | 12 | 0,268 | 878 528 126 | 25 | 2 |
| Stabil-pipe 20, concentric 100% | 72 | 26 | 15 | 0,362 | 878 528 226 | 25 | 2 |
| Stabil-pipe 25, concentric 100% | 77 | 26 | 20 | 0,462 | 878 528 326 | 25 | 2 |

| Description | H mm | D ₁ mm | D ₂ mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|-----------------------------|---------|----------------------|----------------------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, square 7 mm | 34 | 7 | 7 | 12 | 0,173 | 878 528 151 | 50 | 4 |
| Stabil-pipe 20, square 7 mm | 38 | 7 | 7 | 15 | 0,241 | 878 528 251 | 50 | 4 |
| Stabil-pipe 25, square 7 mm | 44 | 7 | 7 | 20 | 0,347 | 878 528 351 | 50 | 4 |
| Stabil-pipe 16, square 100% | 55 | 9 | 27 | 12 | 0,229 | 878 528 101 | 25 | 2 |
| Stabil-Rohr 20, square 100% | 59 | 9 | 27 | 15 | 0,309 | 878 528 201 | 25 | 2 |
| Stabil-Rohr 25, square 100% | 65 | 9 | 26 | 20 | 0,446 | 878 528 301 | 25 | 2 |

INSULATION FOR DRINKING WATER HOT & COLD (DIN 1988-200)



Pre-insulated and practical installation, GEG conform

- Fast as well as time and cost saving installation
- DIN conform insulation
- Different types of pipes and dimensions

Translations:

Family A, B, C heated
 Family A, B, C unheated
 Heizraum = boiler room
 Keller = cellar
 Erdreich = soil

- 1** = concentric 200 %
- 2** = concentric 100 %
- 3** = square 100 % when embedded in floor insulation
- 4** = no requirements if water content < 3 l (protection of the pipe is required for flush-mounted installation)
- = 50 %

INSULATION FOR DRINKING WATER HOT & COLD (DIN 1988-200)

Perfect insulation for drinking water hot & cold

■ The insulation specifications for drinking water pipes (cold and hot) are specified in DIN 1988-200, tables 8 and 9.

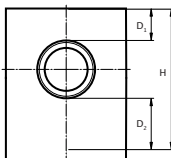
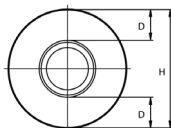
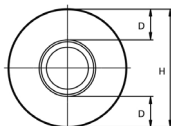
■ Cold drinking water pipes must be protected against condensation (concentric 9 mm) and against increased ambient temperatures. (concentric 50 % at ambient temperature ≤ 25 °C).

■ At ambient temperatures ≥ 25 °C, the insulation must be installed as for hot water pipes. (Table 9, installation situation 1 to 5). Table 8 specifies the minimum insulation thickness with a thermal conductivity of 0.040 W/mK.

■ Hot drinking water pipes, that are either included in the circulation system or equipped with a heating tape, must be insulated in accordance with Table 9 to limit heat dissipation.

■ Warm drinking water pipes that are neither included in the circulation circuit nor equipped with a heating tape, are not subject to any insulation requirement against heat emission. (e.g. floor or individual supply pipelines with a water content of ≤ 3 l).

■ Pipelines with contact to the building structure (e.g. under plaster, in screed constructions or within pre-wall technics) must at least be provided with a coating. (e.g. pipe-in-pipe or concentric 5 mm).



| Description | H mm | D mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|---------------------------------|---------|---------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, concentric 5 mm | 29 | 5 | 12 | 0,170 | 878 528 105 | 50 | 4 |
| Stabil-pipe 20, concentric 5 mm | 32 | 5 | 15 | 0,240 | 878 528 205 | 50 | 4 |
| Stabil-pipe 25, concentric 5 mm | 37 | 5 | 20 | 0,340 | 878 528 305 | 50 | 4 |
| Stabil-pipe 16, concentric 9 mm | 37 | 9 | 12 | 0,170 | 878 528 109 | 50 | A |
| Stabil-pipe 20, concentric 9 mm | 40 | 9 | 15 | 0,250 | 878 528 209 | 50 | A |
| Stabil-pipe 25, concentric 9 mm | 45 | 9 | 20 | 0,356 | 878 528 309 | 50 | A |

| Description | H mm | D mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|---------------------------------|---------|---------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, concentric 50% | 43 | 13 | 12 | 0,146 | 878 528 113 | 50 | B |
| Stabil-pipe 20, concentric 50% | 46 | 13 | 15 | 0,250 | 878 528 213 | 50 | B |
| Stabil-pipe 25, concentric 50% | 51 | 13 | 20 | 0,376 | 878 528 313 | 50 | B |
| Stabil-pipe 16, concentric 100% | 69 | 26 | 12 | 0,268 | 878 528 126 | 25 | 2 |
| Stabil-pipe 20, concentric 100% | 72 | 26 | 15 | 0,362 | 878 528 226 | 25 | 2 |
| Stabil-pipe 25, concentric 100% | 77 | 26 | 20 | 0,462 | 878 528 326 | 25 | 2 |

| Description | H mm | D ₁ mm | D ₂ mm | DN | Weight kg/m | Art.-No. | Unit | App. class |
|-----------------------------|---------|----------------------|----------------------|----|----------------|-------------|------|---------------|
| Stabil-pipe 16, square 7 mm | 34 | 7 | 7 | 12 | 0,173 | 878 528 151 | 50 | - |
| Stabil-pipe 20, square 7 mm | 38 | 7 | 7 | 15 | 0,241 | 878 528 251 | 50 | - |
| Stabil-pipe 25, square 7 mm | 44 | 7 | 7 | 20 | 0,347 | 878 528 351 | 50 | - |
| Stabil-pipe 16, square 100% | 55 | 9 | 27 | 12 | 0,229 | 878 528 101 | 25 | 3 |
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INSULATION - BUILDING SITE SUPPORT

Insulation acc. to DIN 1988-200 and GEG

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