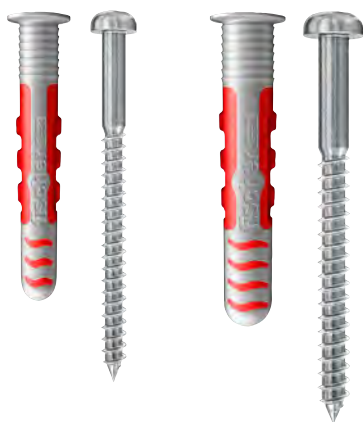


DuoSeal

The sealing plug for wet areas.



Fixings on tiled surfaces



Accessories in wet areas

Applications

In tiled non-permanent wet areas like:

- Bathrooms
- Kitchens
- Spas
- Swimming pools
- Sports facilities

Suitable for:

- Accessories
- Faucets
- Shower panels
- Mirrors

Advantages

- The DuoSeal completely seals drill holes in tiles without additional sealing compound and thus prevents structural damage caused by moisture in the building material.
- The DuoSeal is ideally suited for tiled surfaces which are exposed to very frequent splashing water and temporarily accumulated water.
- The universal plug can be installed gently on tiles with very little effort.

- Its red component ensures a secure hold in all building materials. Thus, the DuoSeal achieves the same load values as conventional nylon plugs.
- The stainless steel screw included in the set is ideally suited for installation in wet areas and avoids rusting.
- The soft plastic rim closes the drill hole completely and flexibly adapts to the shape of the attachment part.

Certificates / Features



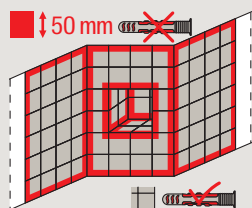
Building materials

- Concrete
- Solid brick
- Solid sand-lime brick
- Light concrete (solid brick)
- Light concrete (hollow brick)
- Vertically perforated brick
- Perforated sand-lime brick
- Aerated concrete
- Gypsum plasterboard
- Gypsum fibreboard
- Chipboard
- Gypsum block

Functioning

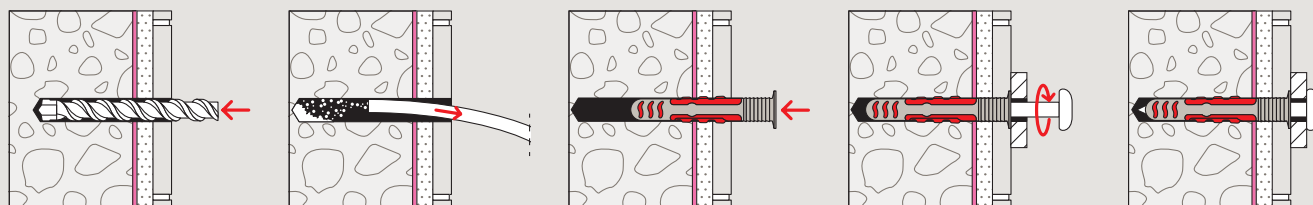
- The DuoSeal is only suitable for application on tiles and can only be mounted as pre-position installation. A suitable diamond or tile drill should be used for drilling the hole.
- The DuoSeal can be installed gently on tiles with just a few hammer blows. The rim of the shaft prevents the plug from being set too deep and additionally seals the drill hole.
- The red component made of high-quality nylon automatically activates the optimum function principle (spreading, folding, knotting) depending on the building material for best hold.
- The soft grey component is pressed against the drill hole wall by screwing in the screw and seals the drill hole completely.
- The grooves in the plug shaft compensate for unevenness in the hole, so that the sealing function is guaranteed even if the drill hole is not perfect.

Installation of the DuoSeal with a minimum distance of 50 mm to all free edges

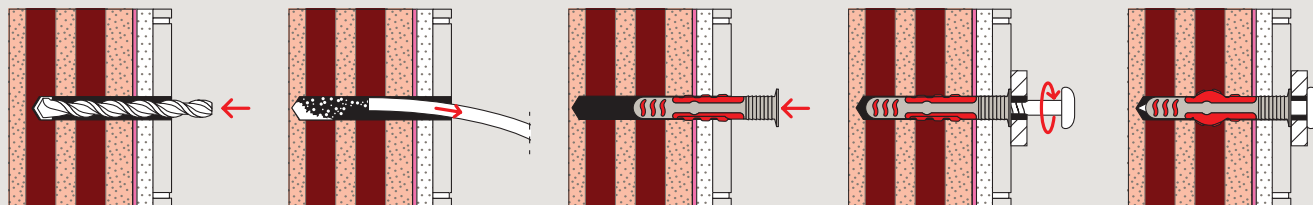


Installation in solid building materials

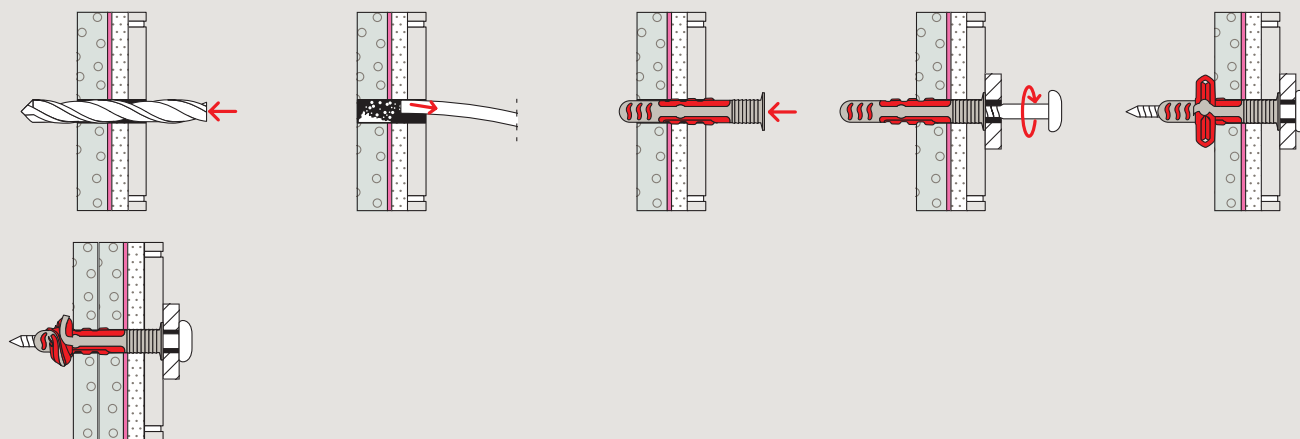
6

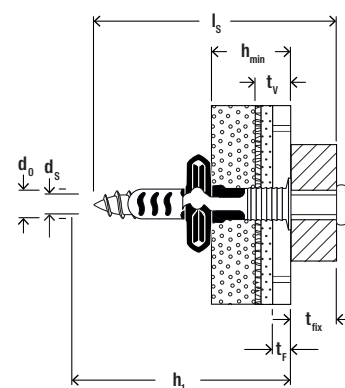


Installation in hollow building materials



Installation in panel building materials





Technical data

DuoSeal



DuoSeal 6 S

DuoSeal 8 S

Item	Item no.	Drill diameter d_0 [mm]	Drill hole diameter tolerance [mm]	Max. fixture thickness t_{fix} [mm]	Min. building material thickness h_{min} [mm]	Screw dimension $d_s \times l_s$ [mm]	Drive	Sealing depth t_v [mm]	Tile thickness t_f [mm]	Sales unit [pcs]
DuoSeal 6 x 38 S PH TX A2	557727	6	6 - 6.4	12	22	4.5 x 60	TX20	5 - 14	5 - 10	50
DuoSeal 8 x 48 S PH TX A2	557728	8	8 - 8.45	16	25	6.0 x 70	TX30	5 - 14	5 - 10	25

Loads

DuoSeal

Recommended loads¹⁾ for a single anchor.

Type		DuoSeal 6	DuoSeal 8
Screw diameter	[mm]	4.5	6.0
Recommended loads in the respective base material F_{rec} ^{2) 3)}			
Concrete	$\geq C20/25$	[kN] 0.40	0.60
Solid brick	$\geq Mz 12$	[kN] 0.20	0.30
Solid sand-lime brick	$\geq KS 12$	[kN] 0.30	0.40
Aerated concrete	$\geq AAC 2$	[kN] 0.10	0.10
Vertically perforated brick	$\geq HLz 12$	[kN] 0.20	0.30
Perforated sand-lime brick	$\geq KSL 12$	[kN] 0.30	0.40
Gypsum plasterboard impregnated (green)	12.5 mm	[kN] 0.10	0.10 ⁴⁾
Gypsum plasterboard impregnated (green)	2 x 12.5 mm	[kN] 0.15	0.15
Gypsum plasterboard hard and impregnated (e. g. Knauf Diamant board or Rigipis Die Harte)	12.5 mm	[kN] 0.15	0.15
Gypsum plasterboard hard and impregnated (e. g. Knauf Diamant board or Rigipis Die Harte)	2 x 12.5 mm	[kN] 0.20	0.20
Gypsum fibreboard	12.5 mm	[kN] 0.20	0.20
Gypsum block	$\rho \geq 0.85 \text{ kg/dm}^3$	[kN] 0.10	0.10

¹⁾ Required safety factor is considered.

Load values are valid for using the supplied screws and under consideration of the total tile thickness: tile + tile glue + sealing compound.

²⁾ Valid for tensile load, shear load and oblique load under any angle. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

³⁾ Values apply to tile thickness 5 - 10 mm and total tile thickness 9.5 - 14.5 mm.

⁴⁾ Value applies to tile thickness 8 - 10 mm and total tile thickness 12.5 - 14.5 mm.