

# DuoSeal

The sealing plug for wet areas

6



Fixings on tiled surfaces



Accessories in wet areas

## Applications

Tiled surfaces in wet areas, like:

- Bathrooms, showers and toilets
- Kitchen
- Garage
- Laundry room
- Swimming pool
- Steam bath
- Sports facilities

Suitable for:

- Bathroom accessories
- Fittings
- Shower cubicles
- Mirrors
- Light shelves
- Trays
- Kitchen accessories

## 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 splash water and temporarily accumulating water.
- The watertightness is confirmed in accordance with ETAG 022 and DIN 18534 up to the water exposure class W3-I. In any case, please take note of the general

national regulations on the use of plugs in wet areas.

- It's 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



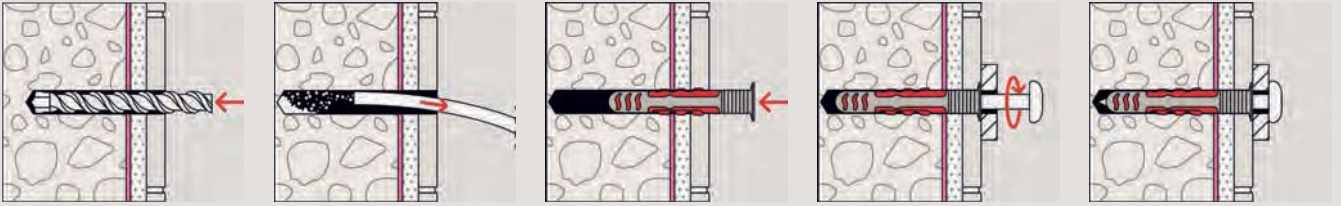
## Building materials

- Concrete
- Solid brick
- Solid sand-lime brick
- Aerated concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Gypsum plasterboard
- Gypsum fibreboard
- Plasterboard

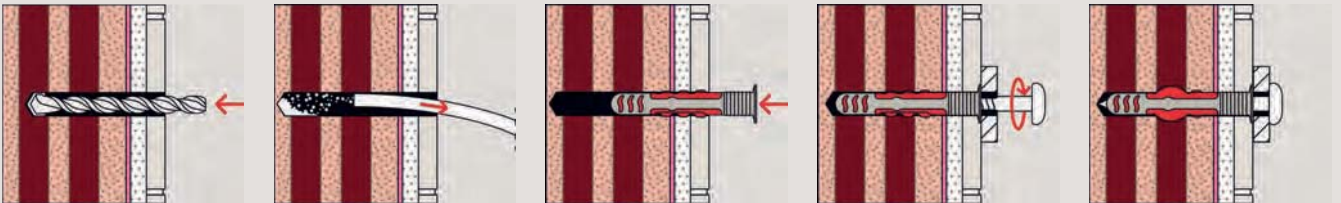
## Functioning

- The DuoSeal is only suitable for application on tiles and can only be mounted as pre-position installation.
- 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 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.

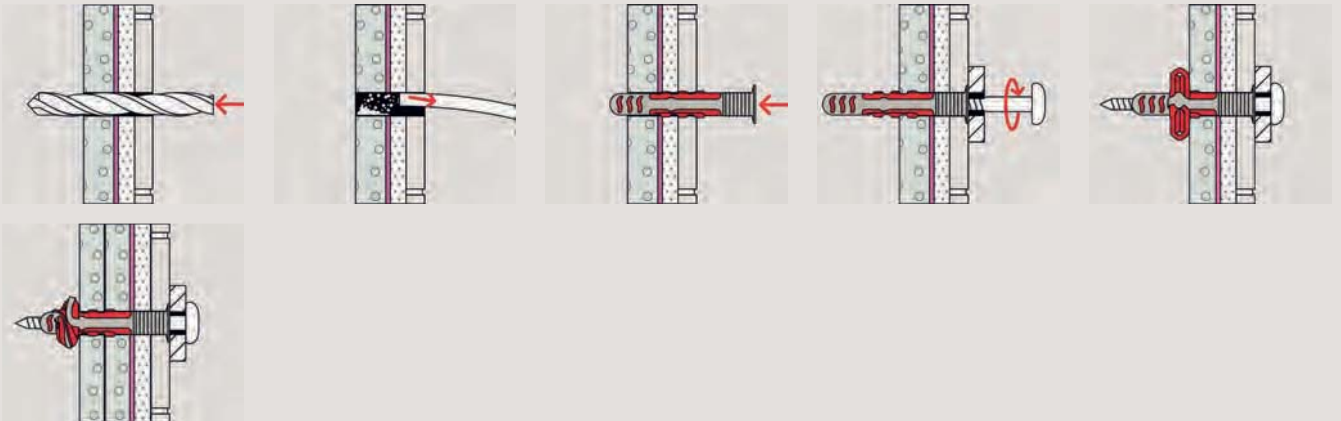
Installation in solid building materials

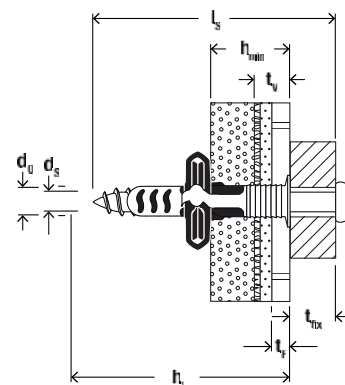


Installation in masonry



Installation in panel building materials





## Technical data

### DuoSeal

6



DuoSeal 6

DuoSeal 8

Item	Item No.	Drill diameter $d_0$ [mm]	Drill hole diameter tolerance [mm]	Min. drill hole depth $h_1$ [mm]	Max. fixture thickness $t_{fix}$ [mm]	Min. building material thickness $h_{min}$ [mm]	Screw $d_s \times l_s$ [mm]	Drive	Sealing depth $t_v$ [mm]	Tile thickness $t_f$ [mm]	Sales unit [pcs]
DuoSeal 6 x 38 S A2	557727	6	6,0 - 6,40	65 - $t_{fix}$	12	22	4,5 x 60	TX20	5 - 14	5 - 10	50
DuoSeal 8 x 48 S A2	557728	8	8,0 - 8,45	75 - $t_{fix}$	16	25	6 x 70	TX30	5 - 14	5 - 10	25

## Loads

### DuoSeal

Recommended loads<sup>1)</sup> for a single anchor.

Type		DuoSeal 6	DuoSeal 8
Screw diameter	[mm]	4.5	6.0
Recommended loads in the respective base material $F_{rec}$ <sup>2) 3)</sup>			
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	$\geq ACC 2$	[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 <sup>4)</sup>
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

<sup>1)</sup> 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.

<sup>2)</sup> Valid for tensile load, shear load and oblique load under any angle.

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

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