

The duo of power and intelligence



BUILDING MATERIALS

- Concrete
- Solid brick
- Solid sand-lime brick
- Aerated concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Plasterboard
- Gypsum plasterboard and gypsum fibreboards
- Hollow blocks made from lightweight concrete
- Cavity floor slabs made from bricks and concrete or similar
- Natural stone
- Chipboard
- Solid panel made from gypsum
- Solid brick made from lightweight concrete

APPROVALS



ADVANTAGES

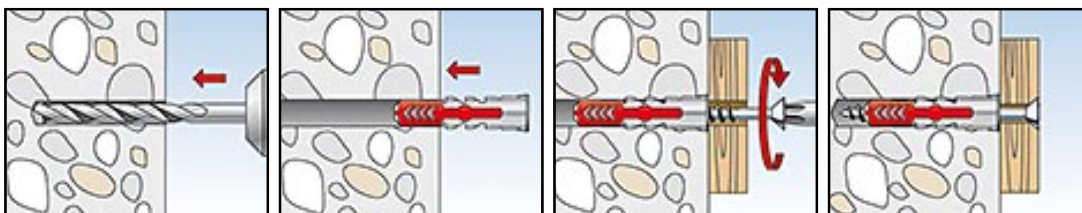
- Two component materials for top load values and intelligent functioning (expanding, folding, knotting) depending on the substrate.
- Great feedback (feel-good factor) of the plug. You can feel exactly when the plug is installed perfectly.
- The short plug length ensures fast fixing without deep drilling.
- The narrow plug rim prevents slipping into the drill hole.
- The serrated anti-rotation feature prevents rotation in the drill hole during installation.

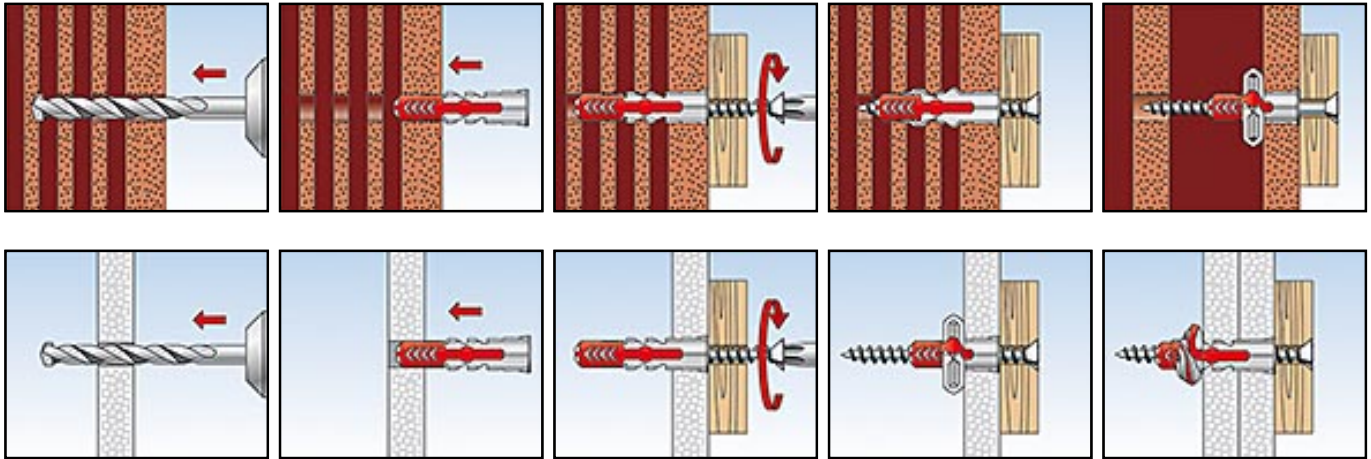
APPLICATIONS

- TV consoles
- Lighting
- Shelves
- Mirror cabinets
- Letter boxes
- Pictures
- Fixing blinds
- Curtain rails
- Wash basin fixings
- Plumbing and heating fixings
- Bath and toilet installations
- Wall cabinets
- Range hood

FUNCTIONING

- The DUOPOWER is suitable for pre-positioned and push-through installation.
- The duo of two different materials and its multiple functional abilities (expanding, folding, and knotting) extend the range of applications to additional materials with top loads.
- The required screw length is given by the plug length + fixture thickness + 1x the screw diameter.
- Suitable for wood and chipboard screws, as well as stud screws.
- In the case of fixing boards, the threadless part of the screw must not be longer than the fixture.





TECHNICAL DATA



DUOPOWER

Type	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Min. panel thickness d_p [mm]	Anchor length l [mm]	Sales unit [pcs]
DUOPOWER 5 x 25	555005	5	35	12,5	25	100
DUOPOWER 6 x 30	555006	6	40	12,5	30	100
DUOPOWER 8 x 40	555008	8	50	12,5	40	100
DUOPOWER 10 x 50	555010	10	70	12,5	50	50
DUOPOWER 5 x 25 S	555105	5	40	12,5	25	50
DUOPOWER 6 x 30 S	555106	6	45	12,5	30	50
DUOPOWER 8 x 40 S	555108	8	65	12,5	40	50
DUOPOWER 10 x 50 S	555110	10	75	12,5	50	25

LOADS

DUOPOWER

Highest recommended loads¹⁾ for a single anchor.

The given loads are valid for wood screws acc. DIN 571 with the specified diameters

Type			DUOPOWER 5 x 25	DUOPOWER 6 x 30	DUOPOWER 8 x 40	DUOPOWER 10 x 50
Screw diameter	∅ [mm]		4	5	6	8
Min. edge distance in concrete	c _{min} [mm]		30	35	50	65
Recommended loads in the respective base material F_{rec}²⁾						
Concrete	≥ C20/25	[kN]	0,30	0,80	0,90	2,00
Solid brick	≥ Mz 12	[kN]	0,25	0,40	0,45	1,00
Solid sand-lime brick	≥ KS 12	[kN]	0,42	0,80	0,90	1,85
Aerated concrete	≥ PB2, PP2 (G2)	[kN]	0,05	0,06	0,08	0,15
Aerated concrete	≥ PB4, PP4 (G4)	[kN]	0,20	0,30	0,30	0,45
Vertically perforated brick	≥ Hlz 12 (ρ ≥ 0.9 kg/dm ³)	[kN]	0,10	0,15	0,20	0,25
Perforated sand-lime brick	≥ KSL 12 (ρ ≥ 1.6 kg/dm ³)	[kN]	0,27	0,50	0,50	0,60
Plaster wall	ρ ≥ 0,9 kg/dm ³	[kN]	0,06	0,15	0,20	0,27
Gypsum fibreboard	12,5 mm	[kN]	0,17	0,30	0,30	0,35 ³⁾
Gypsum plasterboard	12,5 mm	[kN]	0,09	0,12	0,15	0,15 ³⁾
Gypsum plasterboard	2 x 12,5 mm	[kN]	0,10	0,12	0,17	0,23
Mattoni Forato Typ F8		[kN]	0,15	0,16	0,20	0,20
Tramezza Doppio UNI 19		[kN]	0,10	0,10	0,12	0,16

¹⁾ Includes the safety factor 7.

²⁾ Valid for tensile load, shear load and oblique load under any angle.

³⁾ Chipboard screw 6 mm.

LOADS

DUOPOWER

Highest recommended loads¹⁾ for a single anchor.

The given loads are valid for screws with the specified diameter.

Type			DUOPOWER 5 x 25	DUOPOWER 6 x 30	DUOPOWER 8 x 40	DUOPOWER 10 x 50
Screw diameter	∅ [mm]		4 ³⁾	4,5 ³⁾	5 ³⁾	7 ⁴⁾
Min. edge distance in concrete	c _{min} [mm]		30	35	50	65
Recommended loads in the respective base material F_{rec}²⁾						
Concrete	≥ C20/25	[kN]	0,25	0,50	0,71	1,70
Solid brick	≥ Mz 12	[kN]	0,15	0,20	0,25	0,70
Aerated concrete	≥ PB2, PP2 (G2)	[kN]	0,05	0,06	0,08	0,15
Vertically perforated brick	≥ Hlz 12 (ρ ≥ 0.9 kg/dm ³)	[kN]	0,10	0,15	0,20	0,43
Gypsum plasterboard	12,5 mm	[kN]	0,07	0,12	0,15	0,15

¹⁾ Includes the safety factor 7.

²⁾ Valid for tensile load, shear load and oblique load under any angle.

³⁾ Chipboard screw

⁴⁾ Wood screw