DUOPOWER

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

2K TECHNOLOGY

FLUOR CHLOR BROM HALOGENFREE

DUOPOWER

The duo of power and intelligence

ADVANTAGES

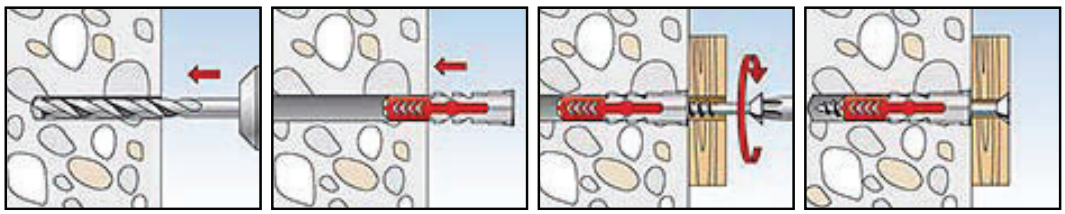
- Two component materials for top load values and intelligent functioning depending on the substrate.
- Great feedback (feel-good factor) of the plug. You can feel exactly when the plug is installed perfectly.
- The short plug length ensures fast fixing without deep drilling.
- The narrow plug rim prevents slipping into the drill hole.
- The serrated anti-rotation feature prevents rotation in the drill hole during installation.
- The greater anchorage depth of the DUOPOWER 6x50, 8x65 and 10x80 means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster.

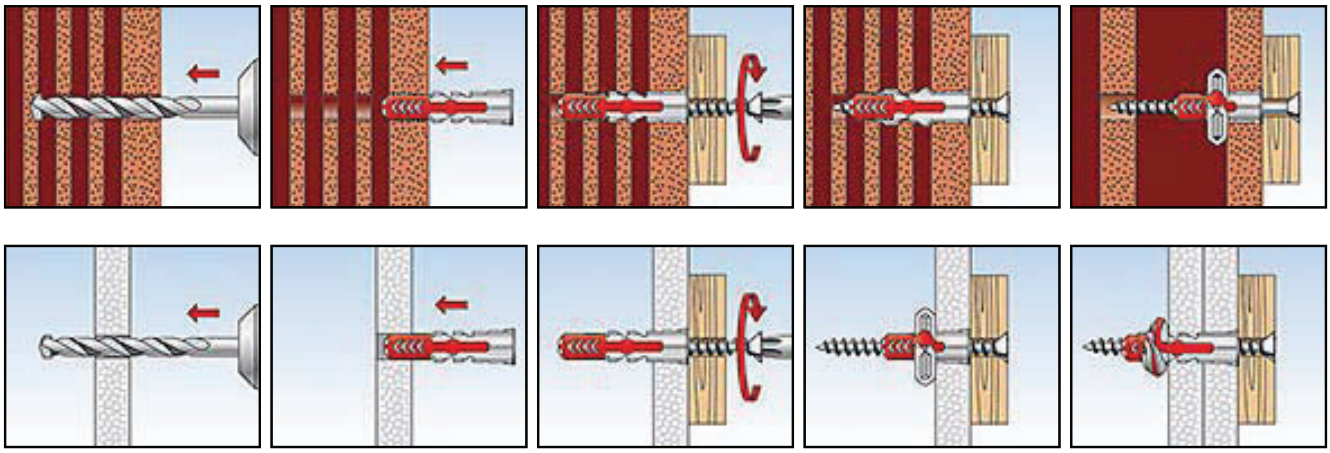
APPLICATIONS

- 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 multi - 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	60	12,5	50	50
DUOPOWER 6 x 50	**538240**	6	60	12,5	50	100
DUOPOWER 8 x 65	**538241**	8	75	2 x 12,5	65	50
DUOPOWER 10 x 80	**538242**	10	90		80	25
DUOPOWER 12 x 60	**538243**	12	70		60	25
DUOPOWER 14 x 70	**538244**	14	80		70	20

DUOPOWER

LOADS

DUOPOWER

Highest recommended loads[1] 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	Ø	[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 ($\gamma \geq 0.9$ kg/dm³)	[kN]	0,10	0,15	0,20	0,25
Perforated sand-lime brick	≥ KSL 12 ($\gamma \geq 1.6$ kg/dm³)	[kN]	0,27	0,50	0,50	0,60
Plaster wall	$\gamma \geq 0,9$ kg/dm³	[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
Mattone 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 loads[1] 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	Ø	[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 ($\gamma \geq 0.9$ kg/dm³)	[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