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

2K TECHNOLOGY

ADVANTAGES

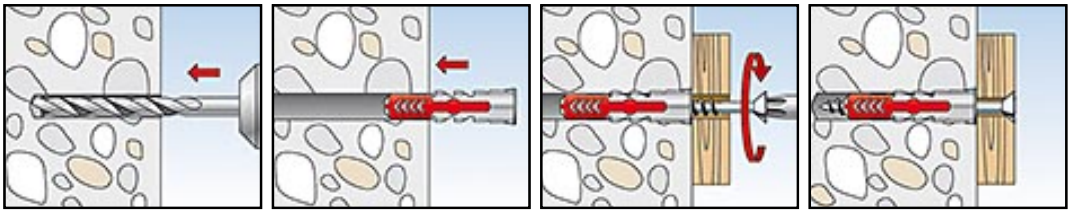
- Two component materials for top load values and intelligent functioning depending on the substrate.
- Great feedback (feel-good factor) of the plug. You can feel exactly when the plug is installed perfectly.
- The short plug length ensures fast fixing without deep drilling.
- The narrow plug rim prevents 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 6 x 50, 8 x 65 and 10 x 80 means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster.

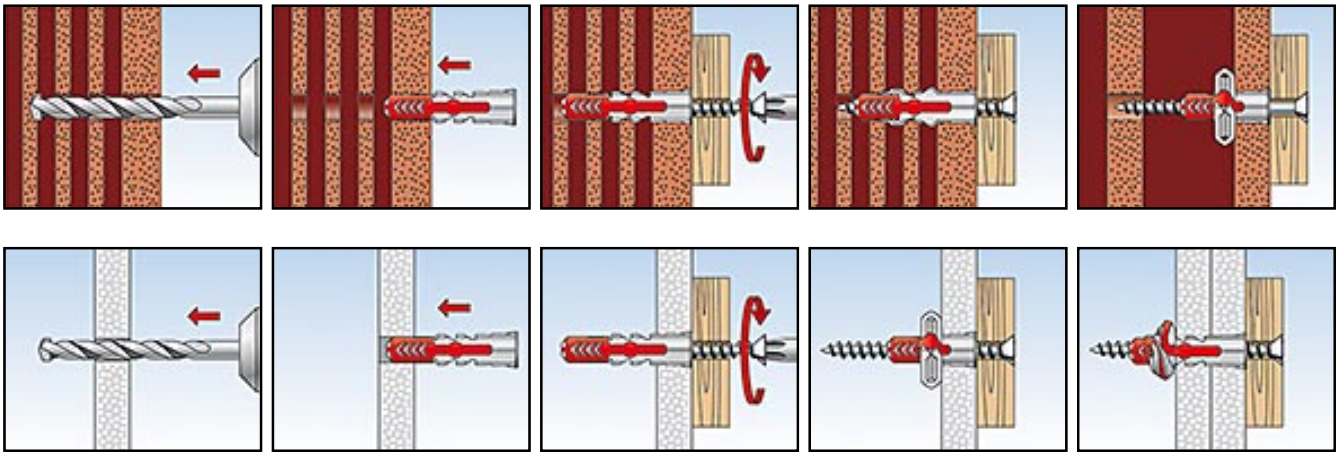
APPLICATIONS

- 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

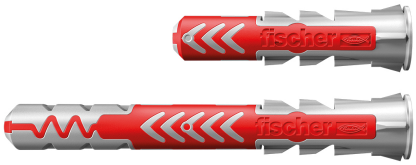
FUNCTIONING

- The DUOPOWER is suitable for pre-positioned and push-through installation.
- The duo of two different materials and its 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

Article name	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	74	12,5	50	25
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	100		80	25
DUOPOWER 12 x 60	**538243**	12	80		60	25
DUOPOWER 14 x 70	**538244**	14	90		70	20
DUOPOWER 6 x 50 S	**538245**	6	75	12,5	50	50
DUOPOWER 8 x 65 S	**538246**	8	85	2 x 12,5	65	25
DUOPOWER 10 x 80 S	**538247**	10	112		80	10
DUOPOWER 12 x 60 S	**538248**	12	85		60	10
DUOPOWER 14 x 70 S	**538249**	14	100		70	8

LOADS

DUOPOWER

Highest recommended loads[1] for a single anchor.
The given loads are valid for wood screws with the specified diameter.

Type			DUOPOWER								
			5 x 25	6 x 30	6 x 50	8 x 40	8 x 65	10 x 50	10 x 80	12 x 60	14
Wood screw diameter	Ø	[mm]	4	5	5	6	6	8	8	10	
Min. edge distance concrete	c_{min}	[mm]	30	35	35	50	50	65	65	80	
Recommended loads in the respective base material F_{rec}[2]											
Concrete	≥ C20/25	[kN]	0,40	0,95	1,65	1,10	2,30	2,15	4,20	3,30	5
Solid brick	≥ Mz 12	[kN]	0,30	0,50	0,55	0,62	0,69	1,20	1,45	1,30	1
Solid sand-lime brick	≥ KS 12	[kN]	0,50	1,00	1,60	1,25	2,25	2,20	3,85	2,80	4
Aerated concrete	≥ PB 2, PP 2 (G 2)	[kN]	0,05	0,10	0,15	0,10	0,16	0,20	0,30	0,24	0
Aerated concrete	≥ PB 4, PP 4 (G 4)	[kN]	0,25	0,38	0,55	0,42	0,60	0,60	1,10	1,00	1
Vertically perforated brick	≥ Hlz 12 (ρ ≥ 0,9 kg/dm³)	[kN]	0,13	0,15	0,17	0,25	0,40	0,25	0,40	0,35	0
Perforated sand-lime brick	≥ KSL 12 (ρ ≥ 1,6 kg/dm³)	[kN]	0,40	0,60	0,60	0,70	1,00	0,70	2,00	0,75	1
Gypsum block	(ρ ≥ 0,9 kg/dm³)	[kN]	0,10	0,18	0,37	0,25	0,50	0,35	0,65	0,50	0
Gypsum fibreboard	12,5 mm	[kN]	0,24	0,33	0,35	0,35	-	0,50	-	-	
Gypsum plasterboard	12,5 mm	[kN]	0,12	0,15	0,15	0,15	-	0,15	-	-	
Gypsum plasterboard	2 x 12,5 mm	[kN]	0,13	0,15	0,24	0,20	0,32	0,30	-	-	
Mattone Forato Typ F8		[kN]	0,30	0,30	-	0,25	-	0,25	-	-	
Tramezza Doppio UNI 19		[kN]	0,15	0,15	0,23	0,15	0,30	0,20	0,52	0,35	0
Sepa Parpaing		[kN]	0,30	0,45	0,25[3]	0,45	0,45[3]	0,45	0,45[3]	0,60[3]	0

[1] Required safety factors are considered.

[2] The load data are valid for tension, shear and combined tension and shear load.

[3] Load determination on plastered wall.