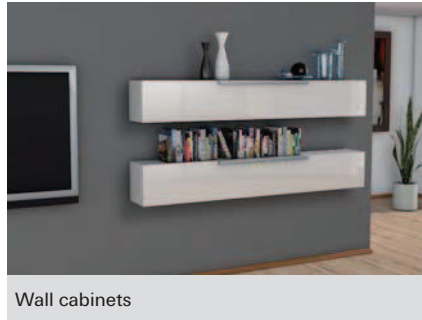


## The duo of power and intelligence



Wall cabinets



TV-brackets

General fixings 6

### 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

### CERTIFICATES



### ADVANTAGES

- Two component materials for top load values and intelligent functioning (expansion, folding, knotting), depending on building material - solid, perforated or panel material.
- Great feedback (feel-good-factor) of the plug. You can feel exactly when the plug is installed perfectly.
- The narrow plug rim prevents slipping into the drill hole.
- The serrated anti-rotation feature interlock in the building material and 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.

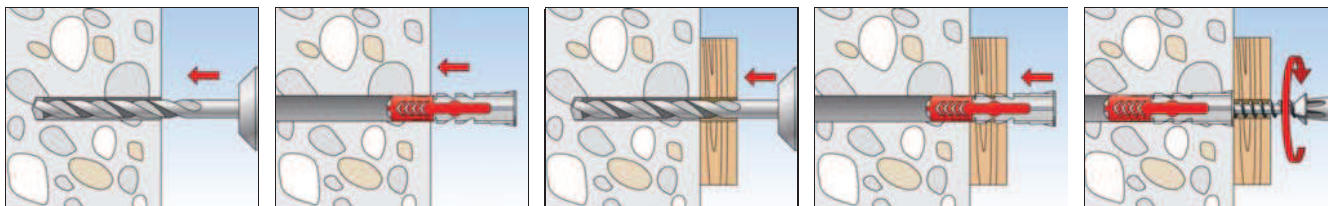
### APPLICATIONS

- 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

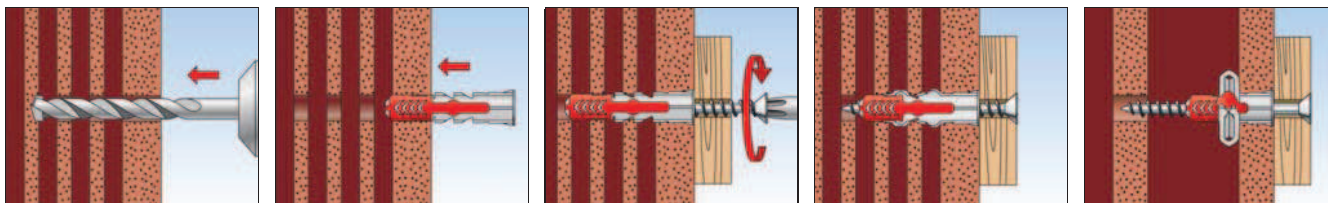
### FUNCTIONING

- The grey component made from high quality nylon automatically activates for the optimum product function (expansion, folding, knotting) for the best hold.
- The red expansion wings support the safe expansion and offer additional safety for the grey component.
- The smooth-running opening allows the simple positioning of the screw and the secure guiding and fixing in the screw channel.
- The required screw length is given by the plug length + fixture thickness + 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.

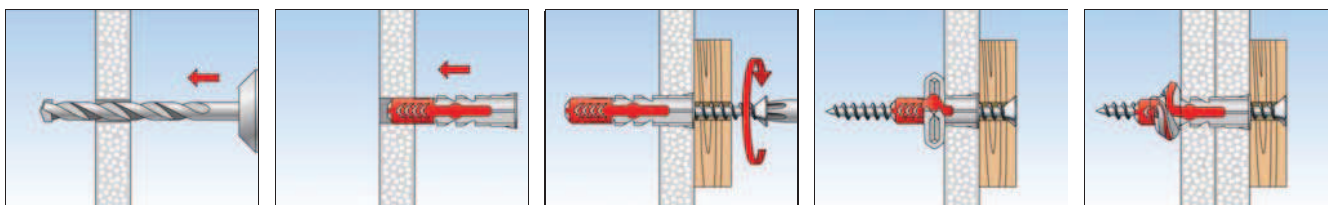
## INSTALLATION IN SOLID BUILDING MATERIALS



## INSTALLATION IN HOLLOW BUILDING MATERIALS



## INSTALLATION IN PANEL BUILDING MATERIALS



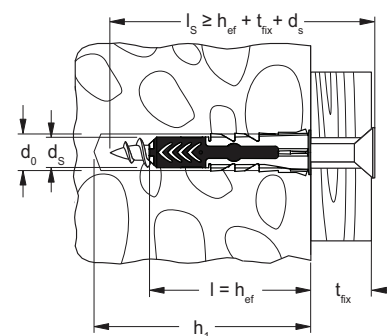
## TECHNICAL DATA



DUOPOWER



DUOPOWER with greater anchorage depth



Item	Art.-No. without screw	Art.-No. with screw	Drill hole diameter	Min. drill hole depth	Min. panel thickness	Min. bolt penetra- tion	Anchor length	Wood and chipboard screws	Drive	Max. fixture thickness	Sales unit
			d <sub>0</sub> [mm]	h <sub>1</sub> [mm]	d <sub>p</sub> [mm]	l <sub>E,min</sub> [mm]	l [mm]	d <sub>S</sub> / d <sub>S</sub> x l <sub>S</sub> [mm]			
<b>DUOPOWER 5 x 25</b>	<b>555005</b>	—	5	35	12,5	29	25	3 - 4	—	—	100
<b>DUOPOWER 6 x 30</b>	<b>555006</b>	—	6	40	12,5	35	30	4 - 5	—	—	100
<b>DUOPOWER 6 x 50</b>	<b>538240</b>	—	6	60	12,5	55	50	4 - 5	—	—	100
<b>DUOPOWER 8 x 40</b>	<b>555008</b>	—	8	50	12,5	46	40	4,5 - 6	—	—	100
<b>DUOPOWER 8 x 65</b>	<b>538241</b>	—	8	75	2 x 12,5	71	65	4,5 - 6	—	—	50
<b>DUOPOWER 10 x 50</b>	<b>555010</b>	—	10	70	12,5	58	50	6 - 8	—	—	50
<b>DUOPOWER 10 x 80</b>	<b>538242</b>	—	10	100	—	88	80	6 - 8	—	—	25
<b>DUOPOWER 12 x 60</b>	<b>538243</b>	—	12	80	—	70	60	8 - 10	—	—	25
<b>DUOPOWER 14 x 70</b>	<b>538244</b>	—	14	90	—	82	70	10 - 12	—	—	20
<b>DUOPOWER 5 x 25 S</b>	—	<b>555105</b>	5	40	12,5	29	25	4 x 35	PZ2	6	50
<b>DUOPOWER 6 x 30 S</b>	—	<b>555106</b>	6	45	12,5	35	30	4,5 x 40	PZ2	5	50
<b>DUOPOWER 6 x 50 S</b>	—	<b>538245</b>	6	75	12,5	55	50	4,5 x 70	PZ2	15	50
<b>DUOPOWER 8 x 40 S</b>	—	<b>555108</b>	8	65	12,5	45	40	5 x 60	PZ2	15	50
<b>DUOPOWER 8 x 65 S</b>	—	<b>538246</b>	8	85	2 x 12,5	70	65	5 x 80	PZ2	10	25
<b>DUOPOWER 10 x 50 S</b>	—	<b>555110</b>	10	74	12,5	57	50	7 x 69	SW 13 / TX 40	13	25
<b>DUOPOWER 10 x 80 S</b>	—	<b>538247</b>	10	112	—	87	80	7 x 107	SW 13	20	10

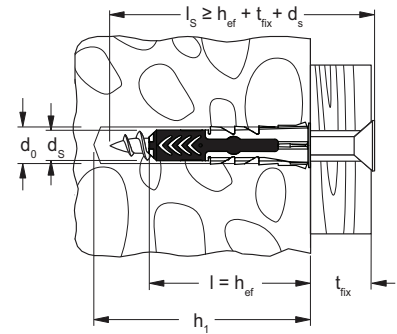
## TECHNICAL DATA



DUOPOWER



DUOPOWER with greater anchorage depth



General fixings 6

Item	Art.-No. without screw	Art.-No. with screw	Drill hole diameter	Min. drill hole depth	Min. panel thickness	Min. bolt penetration	Anchor length	Wood and chipboard screws	Drive	Max. fixture thickness	Sales unit
			d <sub>0</sub> [mm]	h <sub>1</sub> [mm]	d <sub>p</sub> [mm]	l <sub>E,min</sub> [mm]	l [mm]	d <sub>s</sub> / d <sub>s</sub> x l <sub>s</sub> [mm]	t <sub>fix</sub> [mm]	[pcs]	
<b>DUOPOWER 12 x 60 S</b>	—	<b>538248</b>	12	85	—	68	60	8 x 80	SW 13	12	10
<b>DUOPOWER 14 x 70 S</b>	—	<b>538249</b>	14	100	—	80	70	10 x 95	SW 17	15	8

## LOADS

### DUOPOWER

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

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

Type	Ø	[mm]	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 x 70
Wood screw diameter			4	5	5	6	6	8	8	10	12
Min. edge distance concrete	c <sub>min</sub>	[mm]	30	35	35	50	50	65	65	80	100
<b>Recommended loads in the respective base material F<sub>rec</sub><sup>2)</sup></b>											
Concrete	≥ C20/25	[kN]	0,40	0,95	1,65	1,10	2,30	2,15	4,20	3,30	5,30
Solid brick	≥ Mz 12	[kN]	0,30	0,50	0,55	0,62	0,69	1,20	1,45	1,30	1,35
Solid sand-lime brick	≥ KS 12	[kN]	0,50	1,00	1,60	1,25	2,25	2,20	3,85	2,80	4,50
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	0,35
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	1,45
Vertically perforated brick	≥ Hlz 12 (ρ ≥ 0,9 kg/dm <sup>3</sup> )	[kN]	0,13	0,15	0,17	0,25	0,40	0,25	0,40	0,35	0,40
Perforated sand-lime brick	≥ KSL 12 (ρ ≥ 1,6 kg/dm <sup>3</sup> )	[kN]	0,40	0,60	0,60	0,70	1,00	0,70	2,00	0,75	1,50
Gypsum block	(ρ ≥ 0,9 kg/dm <sup>3</sup> )	[kN]	0,10	0,18	0,37	0,25	0,50	0,35	0,65	0,50	0,50
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	0,35
Sepa Parpaing		[kN]	0,30	0,45	0,25 <sup>3)</sup>	0,45	0,45 <sup>3)</sup>	0,45	0,45 <sup>3)</sup>	0,60 <sup>3)</sup>	0,60 <sup>3)</sup>

<sup>1)</sup> Required safety factors are considered.

<sup>2)</sup> The load data are valid for tension, shear and combined tension and shear load.

<sup>3)</sup> Load determination on plastered wall.