

Easy to install nylon toggle for high loads in all panel building materials

7 Cavity fixings



Kitchen hanging cabinets



Shelves

BUILDING MATERIALS

Suitable for:

- Gypsum plasterboard
- Gypsum fibreboard
- Wooden panels, such as OSB boards, chipboard, MDF sheets
- Steel plates
- Plastic boards
- Hollow blocks made from concrete

Also functioning in:

- Solid materials, such as concrete and wood

CERTIFICATES



ADVANTAGES

- Flexible screw mount allows for the use of screws and hooks with different thread shapes.
- Glass fibre-reinforced plastics and a metal skeleton insert (fischer DUOTEC 12) allow the toggle to handle heavy tensile and transverse loads in all panel building materials.
- Soft grey nylon contact surface distributes the load over the panel surface, thereby minimising weakening of the supporting building material.
- Standard drill hole diameters and short tilting element for easy installation in narrow cavities, including cavities with insulation.
- White flush sleeve with snap function allows the plug to be pre-installed quickly and securely in the drill hole.
- With scale on the grip strap (fischer DUOTEC 12) for determining the required screw length (scale value + 20 mm).

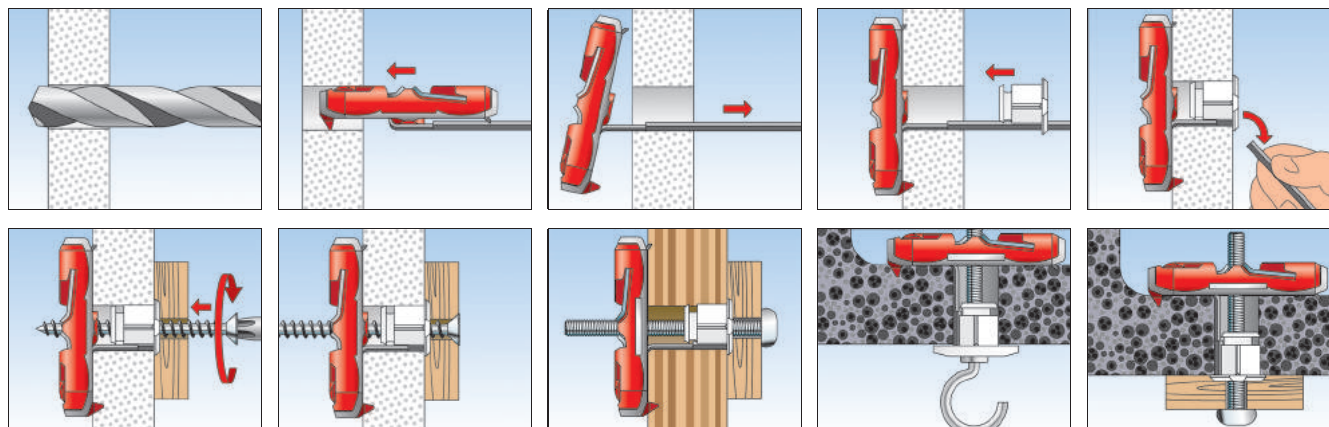
APPLICATIONS

- Kitchen hanging cabinets
- Living room cabinets
- Shelves
- Wardrobes
- Handrails
- Pictures
- Mirrors
- Lamps
- Heavy hanging baskets

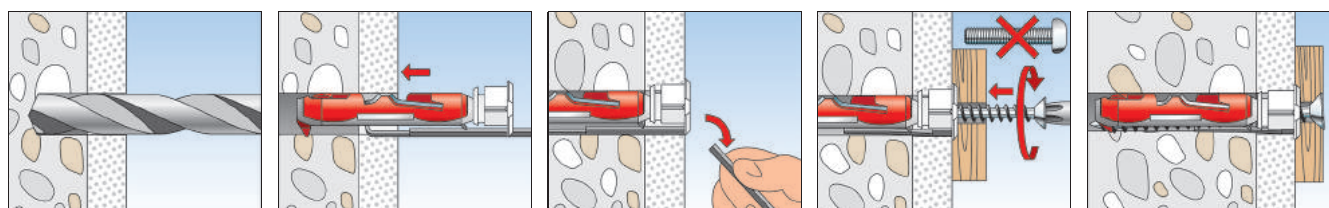
FUNCTIONING

- The fischer DUOTEC is designed for pre-positioned installation.
- Simple installation with a standard diameter 10 or 12 mm drill bit.
- The short toggle element makes it suitable for narrow and even with mineral wool insulated cavities. Note the length of the toggle element!
- Functions like an expansion plug in solid building materials such as concrete or wood. Note, not with metric screws!
- Flexible screw insert allows for the use of wood, chipboard and metric screws and hooks.

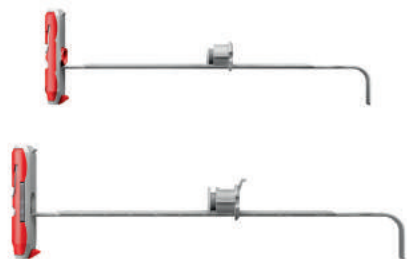
INSTALLATION IN PLASTERBOARD AND CAVITY FIXINGS



INSTALLATION HITTING IN SOLID MATERIALS

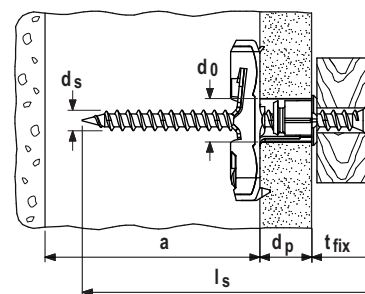


TECHNICAL DATA BOARD MATERIAL



Nylon toggle **fischer DUOTEC 10**

Nylon toggle **fischer DUOTEC 12**



Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. panel thickness d_p [mm]	Max. panel thickness d_p [mm]	Min. cavity depth a [mm]	Screw diameter d_s [mm]	Screw length l_s [mm]	Sales unit [pcs]
fischer DUOTEC 10	537258	10	12	55	40	4,5 - 5,0	$\geq d_p + t_{fix} + 20$	50
fischer DUOTEC 10 S	537259 ¹⁾	10	12	55	40	5,0	70	25
fischer DUOTEC 10 S PH	539025 ²⁾	10	12	55	40	5,0	70	25
fischer DUOTEC 12	542796	12	12	55	50	5,0 - 6,0 / M6	$\geq d_p + t_{fix} + 20$	10
fischer DUOTEC 12 S PH M	542797 ²⁾³⁾	12	12	55	50	M6	55	10
fischer DUOTEC 12 RH	542798 ⁴⁾	12	12	55	50	5,5	70	10

1) DUOTEC S - with chipboard screw countersunk head

2) DUOTEC S PH - with chipboard screw panhead

3) DUOTEC S PH - with machine screw panhead

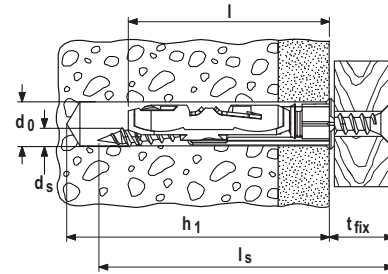
4) DUOTEC RH - with screw with round hook

TECHNICAL DATA HITTING IN SOLID MATERIALS



Nylon toggle **fischer DUOTEC 10**

Nylon toggle **fischer DUOTEC 12**



Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Screw diameter [mm]	Min. screw length l_s [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Sales unit [pcs]
fischer DUOTEC 10	537258	10	$l_s - t_{fix} + 10$	4,5 - 5,0	$t_{fix} + 55$	50	$l_s - 55$	50
fischer DUOTEC 10 S	537259 ¹⁾	10	65	5,0	70	50	15	25
fischer DUOTEC 10 S PH	539025 ²⁾	10	65	5,0	70	50	15	25
fischer DUOTEC 12	542796	12	$l_s - t_{fix} + 10$	5,0 - 6,0	$t_{fix} + 65$	60	$l_s - 65$	10
fischer DUOTEC 12 RH	542798 ³⁾	12	75	5,5	55	60	-	10

1) DUOTEC S - with chipboard screw countersunk head

2) DUOTEC S PH - with chipboard screw panhead

3) DUOTEC RH - with screw with round hook

LOADS

Nylon toggle fischer DUOTEC

Highest recommended loads ¹⁾⁴⁾ for a single anchor.

Type	DUOTEC 10				DUOTEC 12		
	Chipboard screw	Metrical screw	fischer Hook	Chipboard screw	Metrical screw	fischer Hook	
Screw diameter [mm]	4,5	5	5	5	6	5,5	
Recommended loads in the respective base material $F_{rec}^{2)}$ for a span in the construction $b = 625$ mm							
Gypsum plasterboard 9,5 mm [kN]	0,17	0,17	0,17	0,17	0,17	0,17	
Gypsum plasterboard 12,5 mm [kN]	0,20	0,20	0,20	0,20	0,20	0,20	
Gypsum plasterboard 2 x 12,5 mm [kN]	0,43	0,43	0,43	0,43	0,43	0,43	
Gypsum fibreboard 12,5 mm [kN]	0,51	0,51	0,51	0,51	0,51	0,50 ³⁾	
Chipboard 16 mm [kN]	0,71	0,71	0,71	0,75	0,80	0,50 ³⁾	
OSB board 18 mm [kN]	0,75	0,75	0,75	0,75	1,30	0,50 ³⁾	
Recommended loads in the respective base material $F_{rec}^{2)}$ for a span in the construction $b = 120$ mm							
Gypsum plasterboard 9,5 mm [kN]	0,20	0,20	0,20	0,20	0,20	0,20	
Gypsum plasterboard 12,5 mm [kN]	0,36	0,36	0,36	0,36	0,36	0,20	
Gypsum plasterboard 2 x 12,5 mm [kN]	0,59	0,59	0,59	0,70	0,80	0,50 ³⁾	
Gypsum fibreboard 12,5 mm [kN]	0,75	0,75	0,75	0,80	1,10	0,50 ³⁾	
Chipboard 16 mm [kN]	0,75	0,75	0,75	0,80	1,40	0,50 ³⁾	
OSB board 18 mm [kN]	0,75	0,75	0,75	0,80	1,50	0,50 ³⁾	
Recommended loads in solid building materials $F_{rec}^{2)}$							
Concrete $\geq C20/25$ [kN]	0,45	0,75	-	0,40	0,75	0,30	
Wood [kN]	0,30	0,75	-	0,20	0,65	0,30	
Recommended loads in the respective base material $F_{rec}^{2)}$							
Hollow block of lightweight aggregate concrete 'Sepa Parpaing' $f_b \geq 8$ N/mm ² [kN]	-	-	-	0,65	1,00	0,50 ³⁾	
Pre-stressed hollow-core concrete slabs [kN]	-	-	-	1,00	1,40	0,50 ³⁾	
Hollow block of lightweight aggregate concrete Hbl acc. EN 771-3 $f_b \geq 2$ N/mm ² [kN]	-	-	-	0,90	1,00	0,50 ³⁾	

¹⁾ Required safety factors are considered.

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

³⁾ Bending of the hook is decisive. Only for tension load.

⁴⁾ The recommended loads are reference values and depending to the building material and the workmanship. The values are only valid for the given screw diameter.

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