

FIX NYLON EXPANSION PLUG WITH COLLAR

Easy-to-install nylon plug with collar giving exceptional performance in solid base materials



Product information

Features and benefits

- Flange ensures flush fit to surface.
- Anti-rotation fins prevent spinning during tightening of the screw.
- Engineered grip feature for extra holding power.
- Two-way expansion mechanism provides a strong anchorage in solid base materials.
- Small edge distances achievable.

Applications

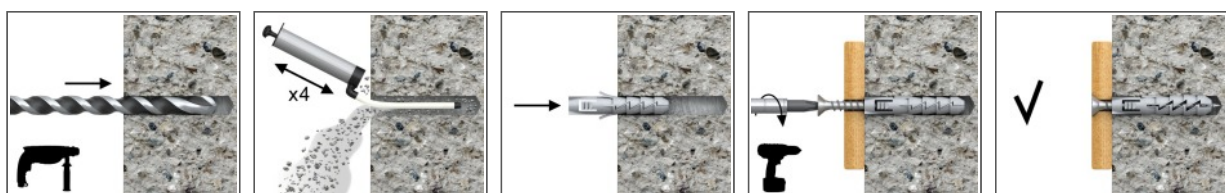
- Pictures
- Lighting
- Skirting / Dado railing
- Shelves
- Trunking
- Cable trays
- Electrical fittings
- Letterboxes

Base materials

Approved for use in:

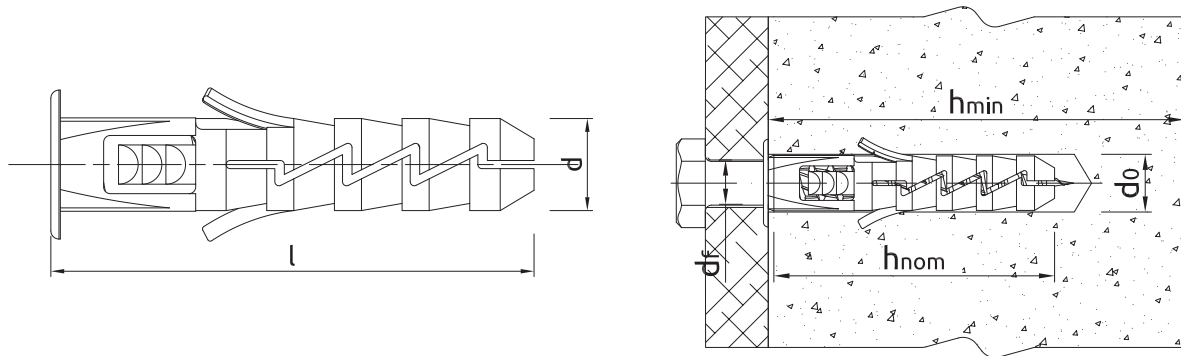
- Concrete
- Solid Brick
- Solid Sand-lime Brick
- Aerated Concrete Block

Installation guide



1. Drill a hole of required diameter.
2. Insert FIX plug into hole and tap home.
3. Insert screw of required diameter into plug through fixture and tighten.

Product information



Product dimensions

Installation data

Size	Product Code	Plug		Screw	Fixture
		Diameter	Length	Diameter	Hole diameter
		d	l	D	d _f
[mm]					
Ø6	R-FIX-NF-06	6	30	3,5 - 4,0	4,0 - 5,0
Ø8	R-FIX-NF-08	8	40	4,5 - 5,0	5,0 - 6,0
Ø10	R-FIX-NF-10	10	50	5,0 - 6,0	6,0 - 7,0
Ø12	R-FIX-NF-12	12	60	6,0 - 8,0	7,0 - 9,0
Ø14	R-FIX-NF-14-070	14	70	10,0	11,0

Installation data

Installation data

Size			Ø6	Ø8	Ø10	Ø12	Ø14
Fixing diameter	d	[mm]	6	8	10	12	14
Hole diameter in substrate	d ₀	[mm]	6	8	10	12	14
Min. hole depth in substrate	h ₀	[mm]	40	50	60	70	80
Min. installation depth	h _{nom}	[mm]	30	40	50	60	70
Min. substrate thickness	h _{min}	[mm]	60	70	80	90	100
Min. spacing (countersunk head)	s _{min}	[mm]	30	40	30	30	-
Min. spacing (HEX head)	s _{min}	[mm]	-	-	50	60	70
Min. edge distance (countersunk head)	c _{min}	[mm]	30	40	40	40	-
Min. edge distance (HEX head)	c _{min}	[mm]	-	-	50	60	70

Basic performance data

Performance data for single fixing without influence of edge distance and spacing

Substrate		Concrete C20/25 - C50/60	Solid clay brick min 20MPa (eg Mz20/2.0)	Sand-lime solid brick	Aerated concrete 600 Mark V
MEAN ULTIMATE LOAD F_{Ru,m}					
Ø6, Embedment depth 30mm	[kN]	0.24	1.11	0.65	0.76
Ø8, Embedment depth 40mm	[kN]	1.02	2.92	1.65	1.17
Ø10, Embedment depth 50mm	[kN]	0.78	1.86	1.62	1.64
Ø12, Embedment depth 60mm	[kN]	1.82	5.80	4.06	2.99
Ø14, Embedment depth 70mm	[kN]	2.29	3.73	2.37	1.80
CHARACTERISTIC LOAD F_{Rk}					
Ø6, Embedment depth 30mm	[kN]	0.15	0.40	0.30	0.40
Ø8, Embedment depth 40mm	[kN]	0.50	2.00	1.20	0.75
Ø10, Embedment depth 50mm	[kN]	0.40	0.90	0.60	0.90
Ø12, Embedment depth 60mm	[kN]	1.20	4.00	3.00	2.00
Ø14, Embedment depth 70mm	[kN]	1.20	2.50	1.20	1.15

Basic performance data

Substrate		Concrete C20/25 - C50/60	Solid clay brick min 20MPa (eg Mz20/2.0)	Sand-lime solid brick	Aerated concrete 600 Mark V
DESIGN LOAD F_{Rd}					
Ø6, Embedment depth 30mm	[kN]	0.08	0.16	0.12	0.20
Ø8, Embedment depth 40mm	[kN]	0.27	0.80	0.48	0.37
Ø10, Embedment depth 50mm	[kN]	0.22	0.36	0.24	0.45
Ø12, Embedment depth 60mm	[kN]	0.66	1.60	1.20	1.00
Ø14, Embedment depth 70mm	[kN]	0.66	1.00	0.48	0.57
RECOMMENDED LOAD F_{rec}					
Ø6, Embedment depth 30mm	[kN]	0.06	0.11	0.09	0.14
Ø8, Embedment depth 40mm	[kN]	0.19	0.57	0.34	0.26
Ø10, Embedment depth 50mm	[kN]	0.16	0.26	0.17	0.32
Ø12, Embedment depth 60mm	[kN]	0.47	1.14	0.86	0.71
Ø14, Embedment depth 70mm	[kN]	0.47	0.71	0.34	0.41

Product commercial data

Product Code	Plug	Quantity [pcs]			Weight [kg]			Bar Codes
	Diameter [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
R-FIX-NF-06	6	100	3200	76800	0.10	3.4	110.6	5906675168524
R-FIX-NF-08	8	100	2400	57600	0.19	4.7	141.6	5906675168548
R-FIX-NF-10	10	100	1200	28800	0.31	3.7	119.3	5906675168562
R-FIX-NF-12	12	50	600	14400	0.28	3.4	110.6	5906675134314
R-FIX-NF-14-070	14	25	400	9600	0.18	2.9	99.1	5906675134321