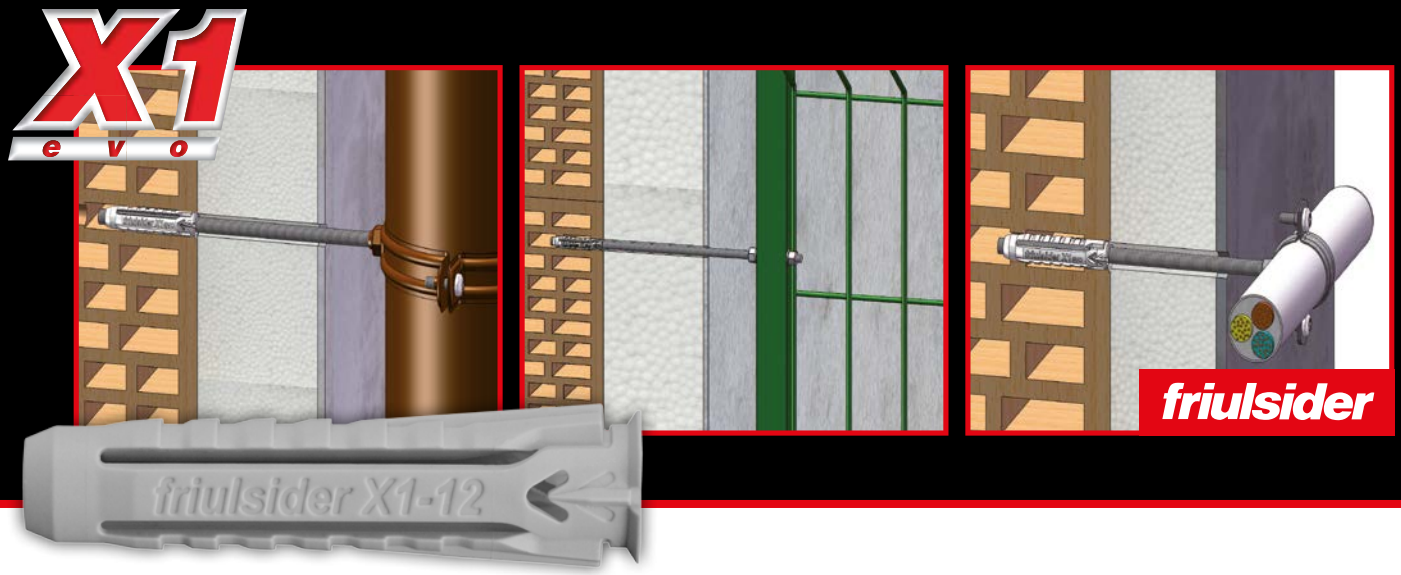
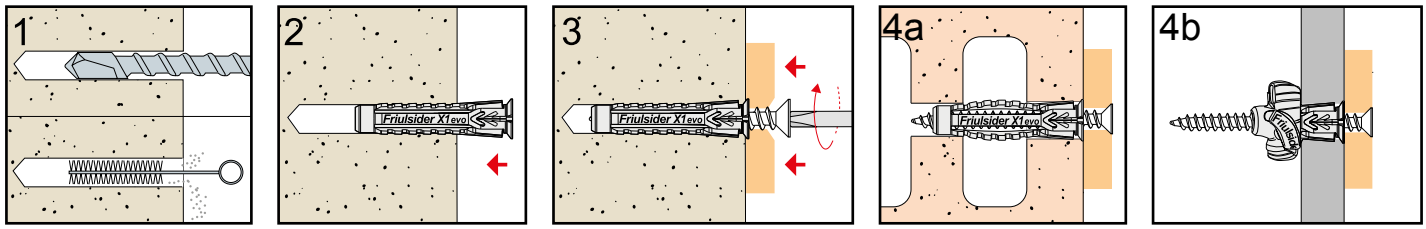
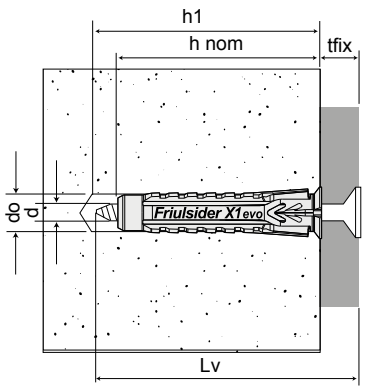


The Friulsider "Absolute plug" guarantees excellent pull-out resistance in every base material, from concrete to plasterboard and provides perfect expansion with all screws, even metric ones!

Part No.	Part No.	Part No.	Part No.	Description	mm	mm	mm	mm
FMX1P05025 (60070005025)	**FX1PC05025** (60071b05025)	-	**FX1PP05025** (60072b05025)	5 x 25mm	5	25	3.5 - 4	n/a
FMX1P06030 (60070006030)	**FX1PC06030** (60071b06030)	-	**FX1PP06030** (60072b06030)	6 x 30mm	6	30	4.5	M4
FMX1P08040 (60070008040)	**FX1PC08040** (60071b08040)	**FX1PH08040** (60073b08040)	**FX1PP08040** (60072b08040)	8 x 40mm	8	40	5 - 6	M5
FMX1P10050 (60070010050)	**FX1PC10050** (60071b10050)	**FX1PH10050** (60073b10050)	-	10 x 50mm	10	50	6	M6
FMX1P12060 (60070012060)	-	**FX1PH12060** (60073b12060)	-	12 x 60mm	12	60	8	M8
FMX1P14070 (60070014070)	-	**FX1PH14070** (60073b14070)	-	14 x 70mm	14	70	10	M10

INSTALLATION





Material Properties	
Plug	Nylon Pa6
CSK Head / Pan Head chipboard screws	Zinc Clear, Class 5.6
Hex wood screw	Zinc Clear, Class 5.6

Installation Temp.	+5 to +40 °C
Working Temp.	+5 to +40 °C (max 80 for short period)

d	=	screw diameter	L	=	anchor length
do	=	hole diameter	Lv	=	screw length
h1	=	minimum hole depth	tfix	=	fixture thickness
hnom	=	nominal embedment depth	Tinst	=	torque

RECOMMENDED(1) LOADS

Single anchor with large anchor spacing and edge distances

	h_1	h_{nom}	d_0	d	Concrete C20/C25		Solid brick		Hollow clay brick double UNI(2)		Plasterboard 12.5 mm		Aerated concrete		Edge distance	Spacing
	Min hole depth	Nominal emb. depth	Hole Dia.	Dia. of screw & Type	Tensile (kN)	Shear (kN)	Tensile (kN)	Shear (kN)	Tensile (kN)	Shear (kN)	Tensile (kN)	Shear (kN)	Tensile (kN)	Shear (kN)		
	mm	mm	mm	mm	N_{rec}	V_{rec}	N_{rec}	V_{rec}	N_{rec}	V_{rec}	N_{rec}	V_{rec}	N_{rec}	V_{rec}	mm	mm
Ø5x25	35	25	5	Chip. Ø3.0	0.1	0,15	0.13	0.15	0.11	0.15	0.04	0.07	0.05	0.08	45	40
				Chip. Ø3.5	0.14	0.25	0.16	0.2	0.14	0.16	0.04	0.07	0.06	0.1		
				Chip. Ø4.0	0.23	0.3	0.25	0.3	0.16	0.2	0.04	0.07	0.08	0.1		
				0.17	0.24	0.4	0.3	0.4	0.21	0.28	0.04	0.08	0.09	0.12		
Ø6x30	40	30	6	Chip. Ø4.0	0.09	0.18	0.11	0.18	0.09	0.13	0.05	0.07	0.05	0.08	55	55
				Chip. Ø4.5	0.18	0.25	0.22	0.25	0.18	0.25	0.05	0.07	0.06	0.1		
				Chip. Ø5.0	0.3	0.45	0.32	0.45	0.3	0.4	0.05	0.07	0.09	0.12		
				Wood. Ø4.0	0.2	0.25	0.22	0.25	0.19	0.2	0.05	0.07	0.08	0.1		
				Wood. Ø5.0	0.34	0.5	0.45	0.5	0.34	0.4	0.05	0.07	0.1	0.13		
				Metric. M4	0.18	0.25	0.22	0.25	0.18	0.2	0.05	0.06	0.09	0.12		
Ø8x40	50	40	8	Chip. Ø4.5	0.19	0.25	0.15	0.2	0.15	0.2	0.08	0.1	0.11	0.13	70	60
				Chip. Ø5.0	0.35	0.5	0.26	0.35	0.21	0.25	0.08	0.1	0.15	0.2		
				Chip. Ø6.0	0.52	0.75	0.56	0.75	0.42	0.5	0.08	0.1	0.19	0.22		
				Wood. Ø5.0	0.4	0.5	0.42	0.5	0.27	0.32	0.08	0.1	0.17	0.2		
				Wood. Ø6.0	0.6	0.8	0.7	0.9	0.5	0.6	0.08	0.1	0.19	0.23		
				Metric. M5	0.25	0.3	0.35	0.4	0.3	0.35	0.08	0.1	0.18	0.22		
Ø10x50	60	50	10	Chip. Ø6.0	0.5	0.7	0.6	0.8	0.3	0.4	0.1	0.12	0.25	0.3	90	75
				Chip. Ø8.0	1.18	1.1	1.25	1.1	0.6	0.6	0.1	0.12	0.3	0.35		
				Wood. Ø6.0	0.62	0.75	0.8	1	0.42	0.6	0.1	0.12	0.25	0.3		
				Wood. Ø7.0	1.24	1.1	1.25	1.1	0.65	0.75	0.1	0.12	0.3	0.35		
				Wood. Ø8.0	1.24	1.4	1.6	1.4	0.65	0.7	0.1	0.12	0.3	0.35		
				Metric. M6	0.55	0.65	0.7	0.8	0.42	0.5	0.1	0.1	0.28	0.32		
Ø12x60	70	60	12	Chip. Ø8.0	0.52	1.1	0.62	1.1	0.35	0.45	0.1	0.12	0.31	0.5	110	90
				Wood. Ø8.0	0.82	1.1	0.9	1.1	0.4	0.6	0.1	0.12	0.35	0.5		
				Wood. Ø10.0	1.48	2	1.6	2	0.59	0.7	0.1	0.12	0.43	0.5		
				Metric. M8	0.68	1.1	0.92	1.1	0.42	0.6	0.11	0.12	0.38	0.5		
Ø14x70	80	70	14	Wood. Ø10.0	0.9	1.4	0.8	1.4	0.50	0.7	0.11	0.13	0.32	0.5	130	110
				Wood. Ø12.0	2.4	3	2.5	3	0.75	1.4	0.11	0.13	0.44	0.6		
				Metric. M10	1.22	1.4	1.25	1.4	0.56	0.7	0.11	0.13	0.44	0.6		

1kN = 100 kgf

(1) The recommended loads derive from the mean ultimate loads and are inclusive of the total safety factor γ=6.

(2) Base material with render thickness around 10 - 15 mm.

The use of plastic anchors is not recommended for permanent suspended loading applications above 40 °C.

Friulsider reserves the right to make modifications without prior notice.

Avoid rotary percussion drilling when drilling into honeycomb brick and cell like clay brick.

***NOTE:** The torque has to be regulated according to the type of installation and base material. In the absence of CE markings, the recommended loads derive from tests carried out in the Friulsider laboratory in accordance with the appropriate standards. The load values are only valid if the installation has been carried out correctly. The design engineer is responsible for the designing and calculation of the fixing.*