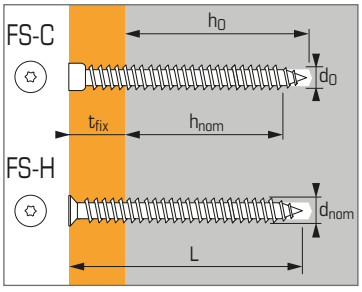
Special frame srew for concrete, solid masonries and aerated concrete



APPLICATION

- Fixing sub-frames
- Fixing doors and windows (wood, PVC, aluminium)
- Portals

MATERIAL

- **Screw:**

Zinc coated steel (5 µm mini.)
Duramax™1000: Salt spray 1000h (EN-9227)

- **Head type:**

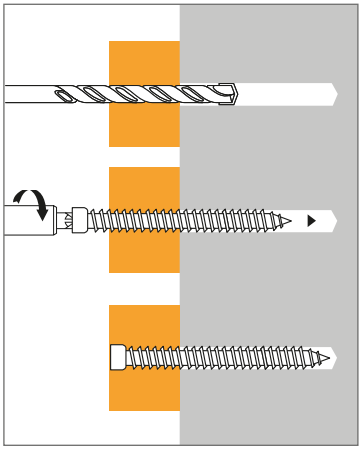
H : countersunk head : recommended for PVC & aluminium joinery

TORX 30

C: cylindar head : recommended for wood joinery

TORX 30

INSTALLATION



Nota:
In aerated concrete, possible setting without predrilling

Technical data

Head Type	Anchor size	Concrete h_{nom} = 30 mm		Solid masonries h_{nom} = 40 mm		Aerated concrete h_{nom} = 60 mm		Screw external diameter	Drilling diameter	Total screw length	Code	
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Zinc coated version	Duramax™ version
		h_0	t_{fix}	h_0	t_{fix}	h_0	t_{fix}	d_{nom}	d_0	L		
FS-H	6X42/2	40	12	50	2	70	n.a.	7,5	6	42	153079	-
	6X52/12		22		12		n.a.			52	153080	-
	6X62/22		32		22		2			62	153081	-
	6X72/32		42		32		12			72	153082	151427
	6X92/52		62		52		32			92	153083	151428
	6X112/72		82		72		52			112	153084	151429
	6X132/92		102		92		72			132	153085	151430
	6X152/112		122		112		92			152	153086	-
	6X182/142		152		142		122			182	153087	-
	6X212/172		182		172		152			212	153088	-
FS-C	6X42/2	40	12	50	2	70	n.a.	7,5	6	42	153089	-
	6X52/12		22		12		n.a.			52	153090	-
	6X62/22		32		22		2			62	153091	-
	6X72/32		42		32		12			72	153092	-
	6X92/52		62		52		32			92	153093	151432
	6X112/72		82		72		52			112	153094	151433
	6X132/92		102		92		72			132	153095	-
	6X152/112		122		112		92			152	153096	-
	6X182/142		152		142		122			182	153097	-
	6X212/172		182		172		152			212	153098	-

Important: to prevent the possible blocking of the screw, observe the recommended embedment depths given for each materials, especially in concrete.

Ultimate loads ($N_{Ru,m}$, $V_{Ru,m}$) in kN

TENSILE

Base material	Anchor size h_{nom}	Ø6 30	40	60
Concrete (C20/25)				
$N_{Ru,m}$		3,2	NA	NA
Clay bricks (fc = 15 MPa)				
$N_{Ru,m}$		NA	3,5	NA
Aerated concrete (Mvn = 500 kg/m³)				
$N_{Ru,m}$	c ≥ 100 mm	NA	NA	1,0
$N_{Ru,m}$	c ≥ 50 mm	NA	NA	0,7
$N_{Ru,m}$	c ≥ 30 mm	NA	NA	0,5

SHEAR

Base material	Anchor size h_{nom}	Ø6 30	40	60
Concrete (C20/25)				
$V_{Ru,m}$		11,2	NA	NA
Clay bricks (fc = 15 MPa)				
$V_{Ru,m}$		NA	3,5	NA
Aerated concrete (Mvn = 500 kg/m³)				
$V_{Ru,m}$	c ≥ 100 mm	NA	NA	2,0
$V_{Ru,m}$	c ≥ 50 mm	NA	NA	1,0
$V_{Ru,m}$	c ≥ 30 mm	NA	NA	0,5

Recommended loads (N_{rec}, V_{rec}) for one anchor without edge or spacing influence in kN

TENSILE

Base material	Anchor size h_{nom}	Ø6 30	40	60
Concrete (C20/25)				
N_{rec}		0,8	NA	NA
Clay bricks (fc = 15 MPa)				
N_{rec}		NA	0,7	NA
Aerated concrete (Mvn = 500 kg/m³)				
N_{rec}	c ≥ 100 mm	NA	NA	0,2
N_{rec}	c ≥ 50 mm	NA	NA	0,15
N_{rec}	c ≥ 30 mm	NA	NA	0,1

SHEAR

Base material	Anchor size h_{nom}	Ø6 30	40	60
Concrete (C20/25)				
V_{rec}		2,8	NA	NA
Clay bricks (fc = 15 MPa)				
V_{rec}		NA	0,7	NA
Aerated concrete (Mvn = 500 kg/m³)				
V_{rec}	c ≥ 100 mm	NA	NA	0,4
V_{rec}	c ≥ 50 mm	NA	NA	0,2
V_{rec}	c ≥ 30 mm	NA	NA	0,1