



concrete



natural
stone



solid brick

products group



FSS
with flat-head



FSC
with cylinder-head

Suitable for

- concrete
- natural stone
- solid brick

To fix

- door frames
- window frames

product information

Characteristics

- special threaded steel screws Torx recess for window frames
- quick, easy, economical
- efficient work
- no additional plugs are required for screw installation
- the continuous thread prevents the window frame from being pulled against the substrate
- stress-free and long-lasting fixing of frame
- the special thread reduces the amount of force required for screwing in the screws
- cylinder-head screws are recommended for recessed installation in wooden profiles
- flat-head screws are recommended for installation in plastic and aluminium profiles

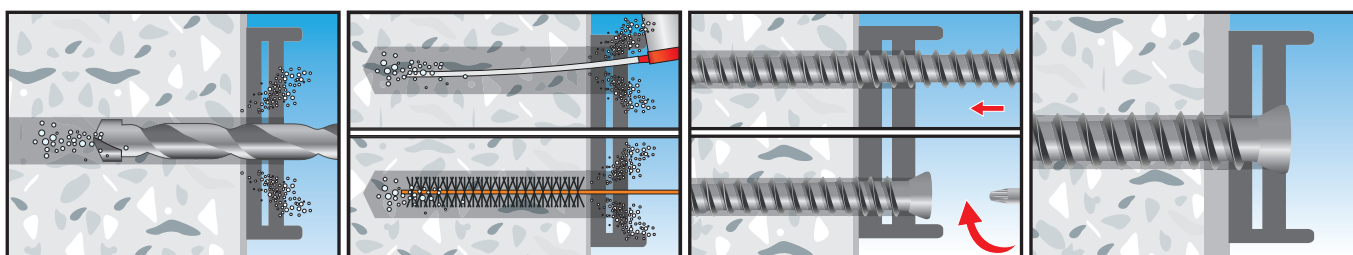
Installation

- through setting anchor

Suggestion for use

- always consider an appropriate safety factor
- check load bearing capacity values
- respect the installation data
- clean the hole before the installation

installation sequence



Examples of applications





concrete

natural
stone

solid brick

Vorpa FSS-FSC

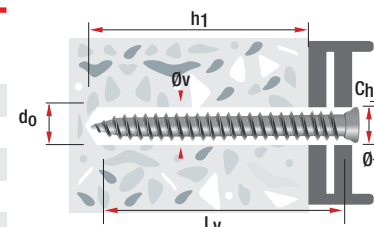
Through steel screw for windows frame

product code and technical data



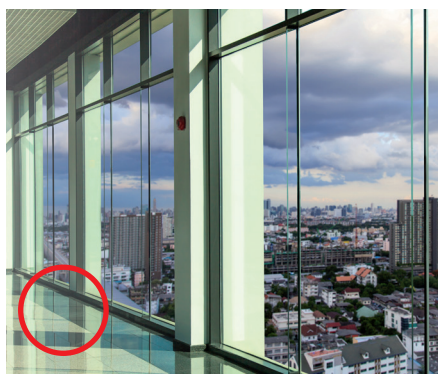
FSS
with flat-head

T30 Code	Description	d_0 mm	h_1 mm	$\emptyset_v \times L_v$ mm	$\emptyset_t$ mm	Ch mm
2410	FSS 7,5x42	6	55	7,5x42	10,8-11,8	T30
2408	FSS 7,5x52	6	65	7,5x52	10,8-11,8	T30
2428	FSS 7,5x62	6	75	7,5x62	10,8-11,8	T30
2411	FSS 7,5x72	6	85	7,5x72	10,8-11,8	T30
2412	FSS 7,5x82	6	95	7,5x82	10,8-11,8	T30
2413	FSS 7,5x92	6	105	7,5x92	10,8-11,8	T30
2414	FSS 7,5x102	6	115	7,5x102	10,8-11,8	T30
2415	FSS 7,5x112	6	125	7,5x112	10,8-11,8	T30
2416	FSS 7,5x122	6	135	7,5x122	10,8-11,8	T30
2417	FSS 7,5x132	6	145	7,5x132	10,8-11,8	T30
2430	FSS 7,5x142	6	155	7,5x142	10,8-11,8	T30
2418	FSS 7,5x152	6	165	7,5x152	10,8-11,8	T30
2419	FSS 7,5x182	6	195	7,5x182	10,8-11,8	T30
2420	FSS 7,5x212	6	225	7,5x212	10,8-11,8	T30
2427	FSS 7,5x252	6	265	7,5x252	10,8-11,8	T30
2429	FSS 7,5x302	6	315	7,5x302	10,8-11,8	T30



- h_1 = Min. hole depth
 L_v = Screw length
 $\emptyset_v$ = Screw diameter
 d_0 = Hole diameter
 $\emptyset_t$ = Head screw diameter
 ch = Spanner

Examples of applications



universal and frame fixings

Vorpa FSS-FSC

Through steel screw for windows frame



concrete



natural stone



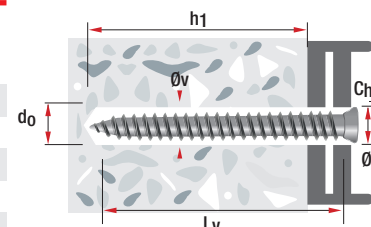
solid brick

product code and technical data



FSC
with cylinder-head

T15 Code	T25 Code	T30 Code	Description	d ₀ mm	h ₁ mm	Ø _v x L _v mm	Ø _t T25 mm	Ø _t T30 mm
2432			FSC 5x52	4	62	5x52		
2457			FSC 5x62	4	72	5x62		
2433			FSC 5x72	4	82	5x72		
2471			FSC 5x82	4	92	5x82		
2434			FSC 5x92	4	102	5x92		
2435			FSC 5x102	4	112	5x102		
2472			FSC 5x112	4	122	5x112		
	2460	32460	FSC 7,5x42	6	55	7,5x42	7,50-7,70	8,0-8,5
	2458	32458	FSC 7,5x52	6	65	7,5x52	7,50-7,70	8,0-8,5
	2459	32459	FSC 7,5x62	6	75	7,5x62	7,50-7,70	8,0-8,5
	2461	32461	FSC 7,5x72	6	85	7,5x72	7,50-7,70	8,0-8,5
	2462	32462	FSC 7,5x82	6	95	7,5x82	7,50-7,70	8,0-8,5
	2463	32463	FSC 7,5x92	6	105	7,5x92	7,50-7,70	8,0-8,5
	2464	32464	FSC 7,5x102	6	115	7,5x102	7,50-7,70	8,0-8,5
	2465	32465	FSC 7,5x112	6	125	7,5x112	7,50-7,70	8,0-8,5
	2466	32466	FSC 7,5x122	6	135	7,5x122	7,50-7,70	8,0-8,5
	2467	32467	FSC 7,5x132	6	145	7,5x132	7,50-7,70	8,0-8,5
		32473	FSC 7,5x142	6	155	7,5x142		8,0-8,5
	2468	32468	FSC 7,5x152	6	165	7,5x152	7,50-7,70	8,0-8,5
	2469	32469	FSC 7,5x182	6	195	7,5x182	7,50-7,70	8,0-8,5
	2470	32470	FSC 7,5x212	6	225	7,5x212	7,50-7,70	8,0-8,5
		32474	FSC 7,5x242	6	255	7,5x242	7,50-7,70	8,0-8,5
		32471	FSC 7,5x252	6	265	7,5x252	7,50-7,70	8,0-8,5
		32475	FSC 7,5x272	6	285	7,5x272	7,50-7,70	8,0-8,5
		32472	FSC 7,5x302	6	315	7,5x302	7,50-7,70	8,0-8,5
		32476	FSC 7,5x322	6	335	7,5x322	7,50-7,70	8,0-8,5



- h₁ = Min. hole depth
- L_v = Screw length
- Ø_v = Screw diameter
- d₀ = Hole diameter
- Ø_t = Head screw diameter
- ch = Spanner
- T15 = Torx Recess 15
- T25 = Torx Recess 25
- T30 = Torx Recess 30

universal and frame fixings

ATTENTION: An appropriate safety factor ≥ 5 should be applied on these values

FSS - FSC screws Ø7,50mm

	≥ 30 mm	≥ 40 mm	≥ 60 mm	Concrete	Solid brick	Hollow brick doppio UNI	Lightweight concrete
Pull out values in daN	FSS - FSC screws Ø 7,50 mm			1 daN $\approx$ 1 kg			
Concrete C20/25	320	-	-	Embedment depth			
Solid brick EN 771-2	-	320	-	h _{ef} $\geq$ 30 mm	h _{ef} $\geq$ 40 mm	h _{ef} $\geq$ 60 mm	h _e $\geq$ 60 mm
Italian standard hollow brick with plaster (doppio UNI EN 771-1)	-	-	160				
Aerated concrete	-	-	80				

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