CONCRETE SCREW FBS 8 - 12 A4



VERSIONS

Stainless steel

BUILDING MATERIALS

Approved for:

- Concrete C20/25 to C50/60, cracked
- Concrete C20/25 to C50/60, noncracked

Also suitable for:

Natural stone with dense structure



re resistance

B 120

APPROVALS





ANLESS STEEL



TEEL ANCHOR

CONCRETE SCREW FBS 8 - 12 A4

The powerful concrete screw for outdoor use

ADVANTAGES

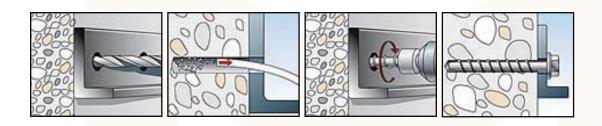
- The FBS A4 ensures very high loads, thus resulting in fewer anchoring points.
- The enhanced stainless steel version A4 now also allows anchoring applications in outdoor and damp areas.
- The version type CSK (countersunk head) offers expanded use for applications with challenging designs.
- The ETA approval Option 1 governs the use of single-point fixings in cracked and non-cracked concrete.

APPLICATIONS

- Guard rails
- Consoles/base plates
- Steel constructions
- Metal profiles
- Guardrails
- Ladders
- Gates

FUNCTIONING

- The FBS is suitable for push-through installation.
- For installation, a torque wrench with a suitable socket is recommended.
- Use FBS A4 for external applications and those in a damp environment.



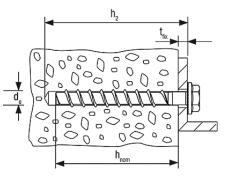


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CONCRETE SCREW FBS 8 - 12 A4



Concrete screw FBS 8-12 A4



STAINLESS STEEL A4

Туре	ArtNo.	ETA-approval	Drill hole diameter	Min. drill hole depth for through fixings	Screw length	Screw-in depth	Max. fixture thickness	
		ETA-	dO	h ₂	۱ _s	h _{nom}	t _{fix}	
			[mm]	[mm]	[mm]	[mm]	[mm]	
FBS 8 x 70/5 US A4	523899		8	80	70	65	5	
FBS 8 x 80/15 US A4	523900		8	90	80	65	15	
FBS 8 x 90/25 US A4	523901		8	100	90	65	25	
FBS 10 x 90/5 US A4	523902		10	100	90	85	5	
FBS 10 x 100/15 US A4	523903		10	110	100	85	15	
FBS 10 x 120/35 US A4	523904		10	130	120	85	35	
FBS 12 x 110/10 US A4	523905		12	120	110	100	10	
FBS 12 x 130/30 US A4	523906		12	140	130	100	30	
FBS 8 x 80/15 CSK A4	534063		8	90	80	65	15	
FBS 8 x 90/25 CSK A4	534064		8	100	90	65	25	
FBS 10 x 90/5 CSK A4	534065		10	100	90	85	5	
FBS 10 x 110/25 CSK A4	534067		10	120	110	85	25	

LOADS

Concrete screw FBS A4

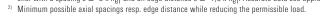
Highest permissible loads for a single anchor¹⁾ in concrete C20/25⁴⁾

For the design the complete approval ETA - 11/0095 has to be considered.

				Cracked concrete				Non-cracked concrete			
Туре	Embedment	Min.		Permissible					Permissible	Min.	Min.
	depth	member thickness	moment	tensile load	shear load	spacing	edge distance	tensile load	shear load	spacing	edge distance
	h _{nom}	h _{min}	T _{inst, max}	N _{perm} ³⁾	V _{perm} ³⁾	s _{min} ²⁾	c _{min²⁾}	N _{perm} ³⁾	V _{perm} ³⁾	s _{min} ²⁾	c _{min²⁾}
	[mm]	[mm]	[Nm]	[kN]	[kN]	[mm]	[mm]	[kN]	[kN]	[mm]	[mm]
FBS 8 A4	65	120	≤ 20	4,3	6,2	50	50	5,7	8,8	50	50
FBS 10 A4	85	130	≤ 40	7,6	19,0	70	70	13,5	19,0	70	70
FBS 12 A4	100	150	≤60	12,3	23,3	80	80	17,2	23,3	80	80

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of γ_L = 1,4 are considered. As a single anchor counts e.g. an anchor with a spacing $s \ge 3 \times h_{ef}$ and an edge distance $c \ge 1,5 \times h_{ef}$. Accurate data see approval. ³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.





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