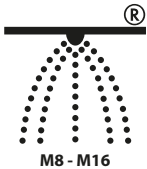
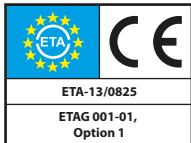




Feuerwiderstandsklasse  
**R120**  
Dabeigröße  
siehe Prüfbericht



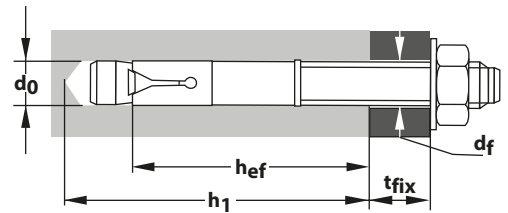
M8 - M16



ETA-13/0825  
ETAG 001-01,  
Option 1

## Features

- Up to 50% higher holding values
- Up to 30% smaller axis and edge distances
- Universal application in cracked and uncracked concrete
- Suitable for indoor and outdoor installation due to weatherproof design in stainless steel A4
- Fire resistance class R120
- Approved by the building authorities
- Earthquake-tested C1 and C2



Pack	Item No.	Type	Content Anchor	Anchor	Anchor length	Drive	Drill Ø	Drill hole depth	Effective anchorage depth	Fixture Thickness	Installation torque	Approval
	S-Fix Pro 1 Stainless steel A4		per pack	metric	mm		d <sub>o</sub> / d <sub>f</sub> ø mm	h <sub>1</sub> mm	h <sub>ef</sub> mm	t <sub>fix</sub> mm	T <sub>inst</sub> Nm	ETA
	040 171 071	M8 x 75/10	100x	M8	75	SW13	8 / 9	70	48	10	20	■
	040 171 081	M8 x 90/25	50x	M8	90	SW13	8 / 9	70	48	25	20	■
	040 171 101	M10 x 90/10	50x	M10	90	SW17	10 / 12	80	60	10	40	■
	040 171 111	M10 x 105/25	50x	M10	105	SW17	10 / 12	80	60	25	40	■
	040 171 121	M10 x 115/35	25x	M10	115	SW17	10 / 12	80	60	35	40	■
	040 171 141	M12 x 110/10	25x	M12	110	SW19	12 / 14	100	72	10	60	■
	040 171 151	M12 x 120/20	25x	M12	120	SW19	12 / 14	100	72	20	60	■
	040 171 171	M16 x 130/10	20x	M16	130	SW24	16 / 18	115	86	10	120	■
	040 171 181	M16 x 150/30	10x	M16	150	SW24	16 / 18	115	86	30	120	■



S-Fix Pro 1 Stainless steel A4	M8	M10	M12	M16
<b>Effective anchoring depth</b>	48 mm	60 mm	72 mm	86 mm
<b>Permissible central tension load of a single anchor without edge influence <math>N_{rec}</math></b>				
cracked concrete C20/25	240 kg	430 kg	570 kg	1190 kg
uncracked concrete C20/25	430 kg	760 kg	950 kg	1670 kg
<b>Permissible shear load of a single anchor without edge influence <math>V_{rec}</math></b>				
cracked concrete C20/25	550 kg	1030 kg	1500 kg	2615 kg
uncracked concrete C20/25	650 kg	1030 kg	1500 kg	2800 kg
<b>permissible bending moment <math>M_{rec}</math></b>	13.2 Nm	26.9 Nm	46.7 Nm	118.7 Nm
<b>Component dimensions and installation characteristics</b>				
<b>minimum spacing <math>s_{min}</math></b>	50 mm (edge distance $\geq 50$ mm)	55 mm (edge distance $\geq 70$ mm)	60 mm (edge distance $\geq 80$ mm)	70 mm (edge distance $\geq 100$ mm)
<b>minimum edge distance <math>c_{min}</math></b>	50 mm (axis distance $\geq 50$ mm)	50 mm (axis distance $\geq 110$ mm)	60 mm (axis distance $\geq 120$ mm)	70 mm (axis distance $\geq 130$ mm)
<b>minimum member thickness <math>h_{min}</math></b>	100 mm	120 mm	150 mm	170 mm
<b>Drill hole diameter <math>d_0</math></b>	8 mm	10 mm	12 mm	16 mm
<b>Drill hole depth <math>h_1 \geq</math></b>	70 mm	80 mm	100 mm	115 mm
<b>Clearance hole diameter <math>d_f \leq</math></b>	9 mm	12 mm	14 mm	18 mm
<b>Installation torque <math>T_{inst}</math></b>	20 Nm	40 Nm	60 Nm	120 Nm

- When sizing, the entire declaration of performance of the S-Fix Pro 1 A4 must be observed
- The partial safety factors of the resistances and a partial safety factor of  $\gamma_F = 1.4$  have been considered
- Approved plugs must be used for fixings where safety is of importance (see also [www.tox.de/safety+loads](http://www.tox.de/safety+loads))

## Description & Area of Application

- Stainless steel A4 bolt anchor with long thread, washer and hexagonal nut
- Torque-controlled anchor
- Small axis and edge distances for near-edge fixings and small anchor plates
- Only a few hammer blows required to set the anchor
- The required torque is achieved with only a few revolutions



## Processing & Installation

- Approved for indoor and outdoor installation as well as in damp rooms
- The specified torque must be observed
- Push-through installation

