

WPSF100 Chemical Anchor

Product overview

The WPSF100 is a universal styrene-free chemical anchoring system for medium to heavy loads. It is approved for installations in non-cracked concrete, solid masonry and hollow masonry.



ETA Option 7
ETA-16/0542

ETA ETAG029
ETA 16/0541

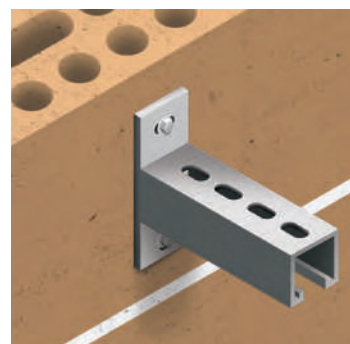


Features and benefits

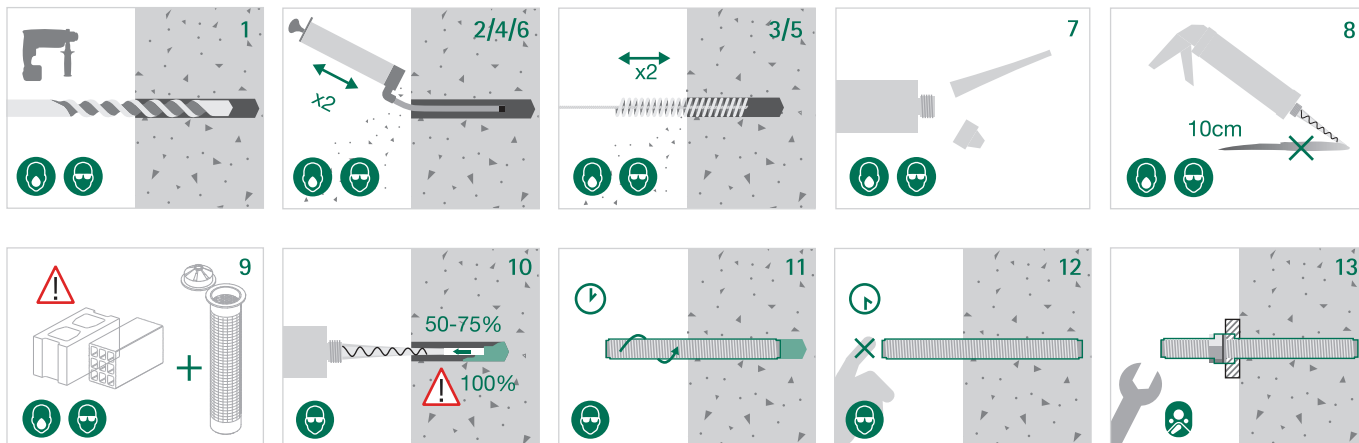
- ETA Option 7 approval for non-cracked concrete
- ETA ETAG029 approval for hollow and solid masonry
- Installations in wet and flooded holes without loss of load capacity
- Reduced edge and anchor spacing distances
- For use with industry-standard silicone dispensing guns
- Cartridge may be used up over several times; new nozzle required after each break.

Substrate type

- Non-cracked concrete
- Solid masonry
- Hollow masonry



Installation guide



Product information

Part No.	Description	Packaging type	Content (ml)	Box qty (pcs)	Related dispenser gun
609 9 113	WPSF100	Foil pack system	300	12	609 9 986

Recommended loads*

Option 7 ETA-16/0542 - Single anchors in non-cracked concrete

WIS Stud Bolt 5.8			M8	M10	M12	M16
Partial safety factor	γ_{MC}	(-)	1.8	1.8	1.8	1.8
Embedment depth	$h_{ef,8d}$	(mm)	64	80	96	128
Member thickness	h	(mm)	100	110	126	158
Recommended tension load	N_{rec}	(kN)	5.42	7.97	12.92	22.98
Embedment depth	$h_{ef,10d}$	(mm)	80	100	120	160
Member thickness	h	(mm)	110	130	150	190
Recommended tension load	N_{rec}	(kN)	6.78	9.97	16.16	28.72
Embedment depth	$h_{ef,12d}$	(mm)	96	120	144	192
Member thickness	h	(mm)	126	150	174	222
Recommended tension load	N_{rec}	(kN)	8.14	11.97	19.39	34.47

*Recommended loads apply to: correctly installed single anchors; non-cracked C20/25 concrete; anchors not affected by spacing or edge influence; service temperature range of -40°C to +80°C. Recommended loads include partial safety factor and an overall partial safety factor for action of 1.4. The partial safety factor for action depends on the type of loading and shall be taken from national regulations. All anchor failure modes and the entire relevant product European Technical Assessment must be considered for anchor design.

Installation data

Part No.	Description	(-)	d_0 (mm)	$\geq h_0$ (mm)	h_{min} (mm)	h_{nom} (mm)	h_{ef} (mm)	C_{min}^* (mm)	S_{min}^* (mm)	d_b (mm)	$T_{inst,max}$ (mm)
609 9 113	WPSF100	M8	10	64 - 96	$h_{ef} + 30 \geq 100$	64 - 96	64 - 96	35/40/50	35/40/50	14	10
		M10	12	80 - 120	$h_{ef} + 30 \geq 100$	80 - 120	80 - 120	40/50/60	40/50/60	14	20
		M12	14	96 - 144	$h_{ef} + 30 \geq 100$	96 - 144	96 - 144	50/60/70	50/60/70	20	40
		M16	18	128 - 192	$h_{ef} + 30 \geq 100$	128 - 192	128 - 192	65/80/95	65/80/95	20	80

*at h_{ef} 8d/10d/12d

Temperature (°C)	Processing Time (min)	Curing Time (min)
5	18	145
5 - 10	10	145
10 - 20	6	85
20 - 25	5	50
25 - 30	4	35

Processing time refers to the highest temperature in the range. Curing time refers to the lowest temperature in the range. Cartridge must be conditioned to a minimum of +5 °C before use.