

WVSF200 Chemical Anchor

Product overview

The WVSF200 is a high performance styrene-free chemical anchoring system for medium to heavy loads. It is approved for use in cracked and non-cracked concrete under normal and seismic conditions, and for post-installed rebar connections.



ETA Option 1
ETA 16/0544

ETA TR023
ETA-16/0543



Fire Resistance
R120



Seismic
C1



Features and benefits

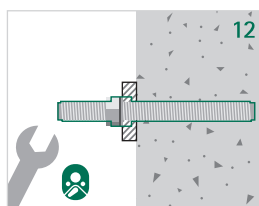
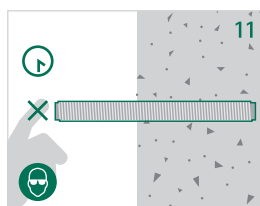
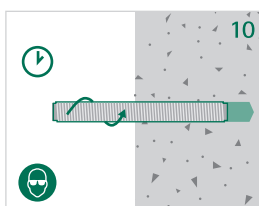
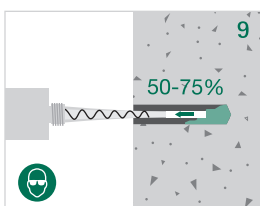
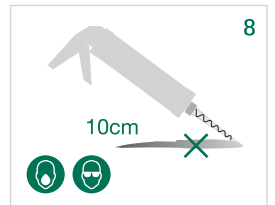
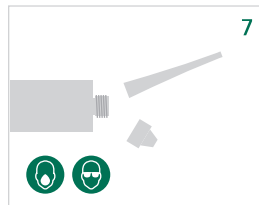
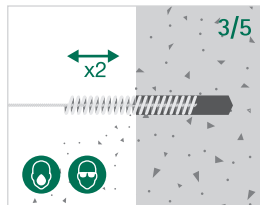
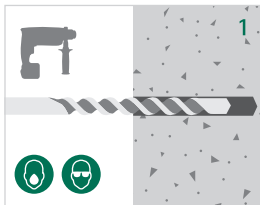
- ETA Option 1 approval for cracked and non-cracked concrete
- ETA TR023 for post-installed rebar connections
- Seismic performance category C1 for design of anchorages under seismic action
- Approved for use with rebars as anchors in non-cracked concrete
- Reduced edge and anchor spacing distances
- Cartridge may be used up over several times; new nozzle required after each break.
- For use in dry, wet and flooded holes

Substrate type

- Non-cracked concrete
- Cracked concrete



Installation guide



Product information

Part No.	Description	Packaging type	Content (ml)	Box qty (pcs)	Related dispenser gun
609 9 123	WVSF200	Foil pack system	300	12	609 9 986
609 9 124	WVSF200	Side by side cartridge	345	12	609 9 987
609 9 125	WVSF200	Coaxial cartridge	410	12	609 9 988
609 9 126	WVSF200W (Winter)	Foil pack system	300	12	609 9 986
609 9 127	WVSF200T (Tropical)	Foil pack system	300	12	609 9 986

Recommended loads*

Option 1 ETA-16/0544 – Single anchors in cracked and 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 tensile load, non-cracked concrete	N_{rec}	(kN)	6.38	9.48	13.64	22.98
Recommended tensile load, cracked concrete	N_{rec}	(kN)	-	4.49	6.46	11.49
Embedment depth	$h_{ef,12d}$	(mm)	96	120	144	192
Member thickness	h	(mm)	126	150	174	222
Recommended tensile load, non-cracked concrete	N_{rec}	(kN)	9.58**	14.21**	20.46**	34.47
Recommended tensile load, cracked concrete	N_{rec}	(kN)	-	6.73	9.69	17.23
Embedment depth	$h_{ef,20d}$	(mm)	160	200	240	320
Member thickness	h	(mm)	190	230	270	350
Recommended tensile load, non-cracked concrete	N_{rec}	(kN)	13.80**	21.90**	31.91*	57.44**
Recommended tensile load, cracked concrete	N_{rec}	(kN)	-	11.22	16.16	28.72

*Recommended loads apply to: correctly installed single anchors; 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.

**Must use WIS Stud Bolt grade 8.8 or higher.

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 9 123	WVSF200	M8	10	64 - 160	$h_{ef} + 30 \geq 100$	64 - 160	64 - 160	35/50/80	35/50/80	14	10
609 9 124	WVSF200	M10	12	80 - 200	$h_{ef} + 30 \geq 100$	80 - 200	80 - 200	40/60/100	40/60/100	14	20
609 9 125	WVSF200	M12	14	96 - 244	$h_{ef} + 30 \geq 100$	96 - 244	96 - 244	50/75/120	50/75/120	20	40
609 9 126	WVSF200W (Winter)	M12	14	96 - 244	$h_{ef} + 30 \geq 100$	96 - 244	96 - 244	50/75/120	50/75/120	20	40
609 9 127	WVSF200T (Tropical)	M16	18	128 - 320	$h_{ef} + 30 \geq 100$	128 - 320	128 - 320	65/100/160	65/100/160	20	80

*at $h_{ef} 8d/12d/20d$

WVSF200			WVSF200W			WVSF200T		
Temperature (°C)	Processing Time (min)	Curing Time (min)	Temperature (°C)	Processing Time (min)	Curing Time (min)	Temperature (°C)	Processing Time (min)	Curing Time (min)
5 – 10	10	145	-10 – -5	50	720	15 – 20	15	300
10 – 15	8	85	-5 – 0	15	100	20 – 25	10	145
15 – 20	6	75	0 – 5	10	75	25 – 30	7.5	85
20 – 25	5	50	5 – 20	5	50	30 – 35	5	50
20 – 30	4	40	20	1.5	20	35 – 40	3.5	40

Processing time refers to the highest temperature in the range. Curing time refers to the lowest temperature in the range. WVSF200 / WVSF200W / WVSF200T cartridges must be conditioned to a minimum of +5°C / 0°C / +15°C respectively before use.