



PRODUCT DATA

XBolt® PRO Stud

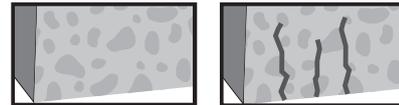
- For heavy duty fixings in cracked and non-cracked concrete.
- Performance Category C1(Ø 10) and C2-C1 (Ø 12; Ø 16) for use under seismic action, according to ETAG 001 - ANNEX E
- Fire resistance R30-R120

Material	 Carbon Steel
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Finish	 Zinc Plated (RoHS Compliant)
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Part	Qfind	Size	Length (mm)	Pack Qty	Seismic
EXSMSZD15M080090	EXS100	M8	90	100	-
EXSMSZD15M080120	EXS101	M8	120	100	-
EXSMSZD15M080160	EXS102	M8	160	50	-
EXSMSZD17M100105	EXS103	M10	105	50	C1
EXSMSZD17M100125	EXS104	M10	125	50	C1
EXSMSZD17M100195	EXS105	M10	195	25	C1
EXSMSZD18M120118	EXS106	M12	118	25	C2-C1
EXSMSZD18M120138	EXS107	M12	138	25	C2-C1
EXSMSZD18M120208	EXS108	M12	208	25	C2-C1
EXSMSZD18M120248	EXS109	M12	248	25	C2-C1

XBolt PRO



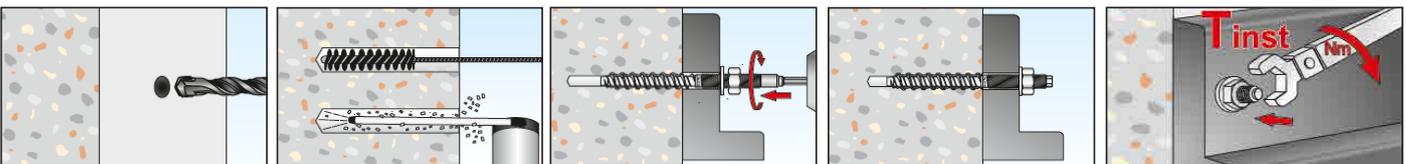
Features

- Through fixing (in-place anchorage)
- Fixing installation independent of the torque control
- Waiting time for loading after installation is not required
- Reduced edge distance and spacing, in comparison with traditional expansion anchors

Installation Guide

1. Drill the hole in rotary hammer mode
2. Clean the drill hole
3. Put the anchor into the drill hole using an impact screwdriver
4. Make sure that the nut is in full contact with the fixture
5. Check the torque moment T_{inst} .

Installation



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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

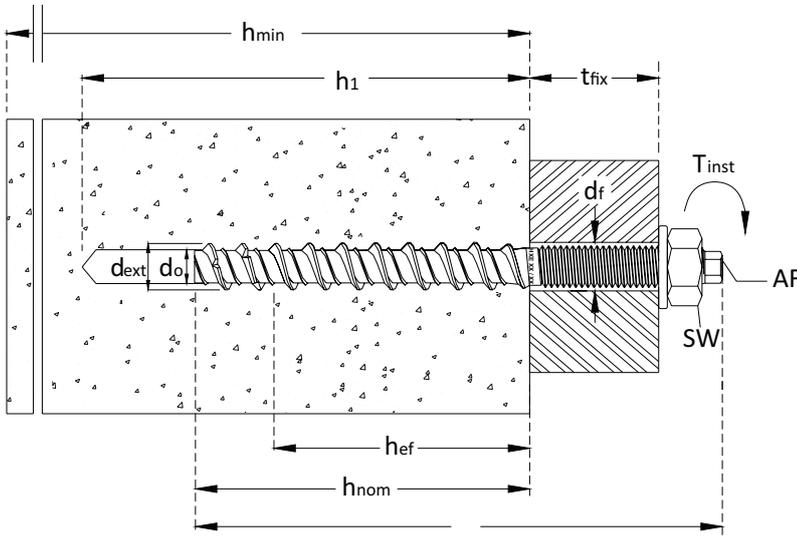
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Details	
$d_{ext} \times l_t$	outside diameter of anchor x anchor length
t_{fix}	maximum thickness of fixture
M	nominal metric thread diameter
d_0	drill hole diameter
h_1	depth of drill hole
h_{min}	minimum thickness of concrete member
h_{nom}	overall anchor embedment depth in the concrete
h_{ef}	effective anchorage depth
d_f	diameter of clearance hole in the fixture
T_{inst}	required torque moment
AF	hexagonal size
SW	wrench size
T	6 lobe recess
C_{min}	minimum allowable edge distance
S_{min}	minimum allowable spacing

Part	$d_{ext} \times l_t$	t_{fix}	M	d_0	h_1	h_{min}	h_{nom}	h_{ef}	d_f	T_{inst}	AF	SW	$C_{min} \geq$	$S_{min} \geq$
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Nm)	(mm)	(mm)	(mm)	(mm)
EXSMSZD15M080090	8 x 90	10	8	6	75	100	60	48	9	20	5	13	$C_{min} \geq 45$ $S_{min} \geq 45$	$S_{min} \geq 45$ $C_{min} \geq 45$
EXSMSZD15M080120	8 x 120	40												
EXSMSZD15M080160	8 x 160	80												
EXSMSZD17M100105	10 x 105	10	10	8	90	110	70	56	12	50	7	17	$C_{min} \geq 50$ $S_{min} \geq 50$	$S_{min} \geq 50$ $C_{min} \geq 50$
EXSMSZD17M100125	10 x 125	30												
EXSMSZD17M100195	10 x 195	100												
EXSMSZD18M120118	12 x 118	10	12	10	100	130	80	64	14	80	8	19	$C_{min} \geq 60$ $S_{min} \geq 60$	$S_{min} \geq 60$ $C_{min} \geq 60$
EXSMSZD18M120138	12 x 138	30												
EXSMSZD18M120208	12 x 208	100												
EXSMSZD18M120248	12 x 248	140												

Screw only (Certified)
 The ETA-CE for this item refers to the screw only, but the nut and the washer MUST respect the following requirements:
 - Nut grade 8, zinc plated according to ISO 4042
 - Washer according to ISO 7089 or to ISO 7093, zinc plated according to ISO 4042
 ETA-CE Certification
 Item assessed Under Seismic Action
 Fire Resistance Certification

Logo's Explained

- = ETA European Technical Assessment
- = Seismic rated
- = Fire resistance rated
- = Cracked concrete
- = Non-cracked Concrete

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