



EJOT® Anchor Bolts BA and MMS Concrete Screw

For embedment in cracked and
non-cracked concrete \geq C20/25

High Performance
Products that are part
of the EJOT® Concrete,
Brick and Block collection.



The Quality Connection
www.ejot.co.uk

EJOT®





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CONCRETE SCREW - MMS

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Conformité Européenne:
European Conformity

The CE mark demands an annual audit of the factory production control and product quality assurance.



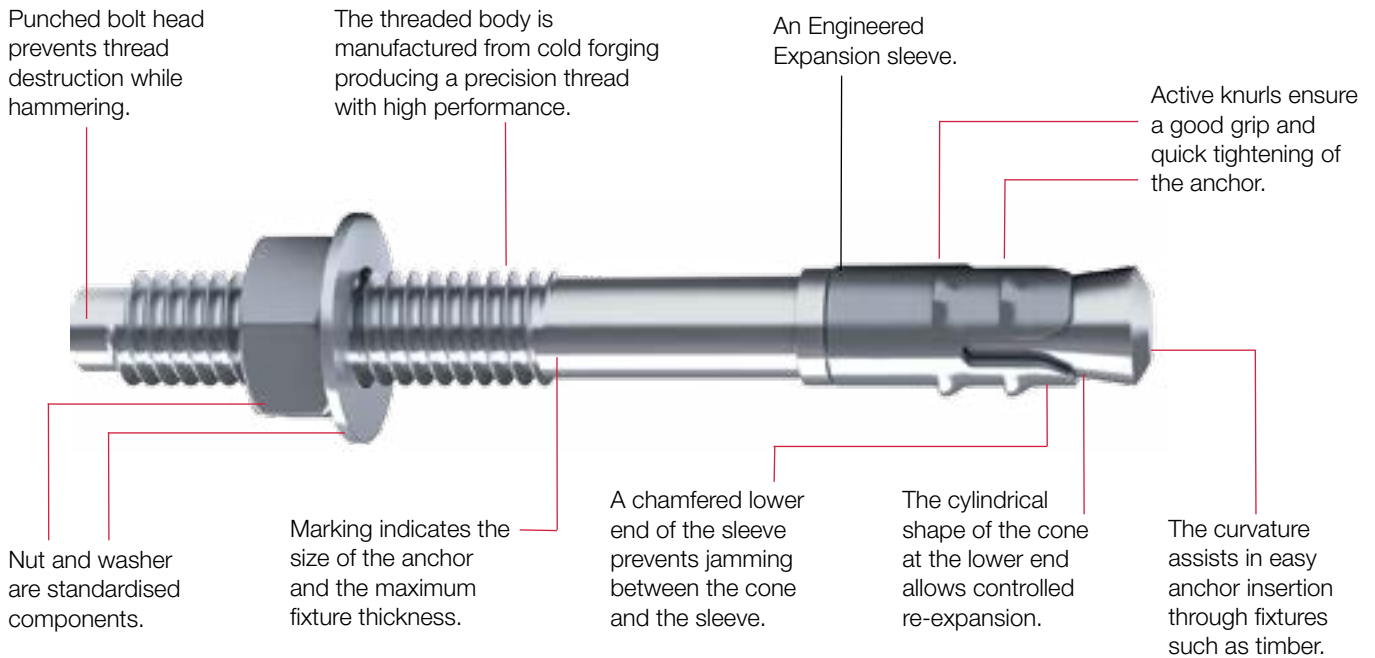
As a Full Member of the Construction Fixings Association, EJOT UK is committed to the promotion of 'Best Product' and 'Best Installation Practice'.

For further information about standards set by the CFA, visit www.the-cfa.co.uk



Anchor Bolt BA-V and BA-E

Torque-controlled expansion anchor for use in cracked and non-cracked concrete. It is also suitable for installation in hard base materials such as solid brick (max. M8) or natural stone. The anchor is preassembled and can be installed directly through the fixture.



Features & Benefits

- Economical installation
- No hardening times to observe
- Easy to install
- Suitable for installation in solid bricks (max. M8) and natural stone
- Tested under exposure to fire
- BA-V is a safe and economical choice for all indoor use
- ETA Approved Anchor.

Applications

- Steel structures
- Column base plates
- Seating
- Shelves
- Barriers
- Cable racks
- Handrails
- Ladders, stairs
- Facades

Available in

- Zinc electroplated steel for indoor and mainly dry applications
- HCR A4 1.4404 high corrosion stainless steel variant for aggressive conditions, chloride atmosphere and atmosphere with chemical pollution. Available on request.
- Standard A4



Anchor Bolt BA-V and BA-E

Galvanized zinc-plated steel

$\varnothing d_0$	Length	Fixing thickness $t_{fix} \leq$	Drill hole depth $h_1 \geq$	Embedment depth $h_{ef} \geq$	Description	Article Number
BA-V-8						
8mm	72mm	10mm	60mm	45mm	BA-V-8/10	9 900 105 584
BA-V-10						
10mm	92mm	10mm	75mm	60mm	BA-V-10/10	9 900 105 585
10mm	112mm	30mm	75mm	60mm	BA-V-10/30	9 900 105 586
BA-V-12						
12mm	118mm	20mm	90mm	70mm	BA-V-12/20	9 900 105 419

A4 Stainless steel

BA-E-8						
8mm	72mm	10mm	60mm	45mm	BA-E-8/10	9 900 105 587
BA-E-10						
10mm	92mm	10mm	75mm	60mm	BA-E-10/10	9 900 105 588
10mm	112mm	30mm	75mm	60mm	BA-E-10/30	9 900 105 589
BA-E-12						
12mm	118mm	20mm	90mm	70mm	BA-E-12/20	9 900 105 420

Further sizes and ordering information

The table above shows values for the most popular sizes across the BA-E and BA-V ranges. When ordering, all BA-V and BA-E anchor bolts are despatched in package quantities of ten. For detailed technical specifications across both ranges, please refer to the tables on pages 6 and 7.

Application area

- For embedment in cracked and non-cracked concrete \geq C20/25

Properties

- Galvanized zinc-plated steel
- Approval for concrete, option I
- Fire-resistance classes F30, F60, F90, F120
- Galvanized zinc-plated steel and A4 Stainless Steel Approval for concrete, option I
- Fire-resistance classes F30, F60, F90, F120

Note

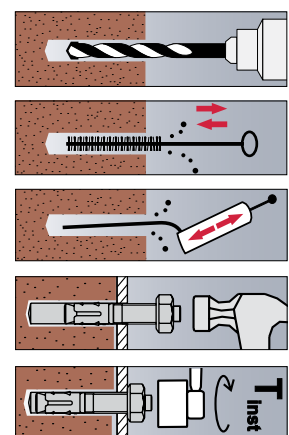
Characteristic values apply to the compression strength of C20/25 concrete. Design load of an anchor for central tension in cracked concrete.



Approval
ETA-14/0219

Accessories available

Cleaning brush
Blow-out pump
SDS drill bits



Installation animation

See EJOT UK YouTube Channel for animated installation guide.

Installation guide PDF download available at www.ejot.co.uk



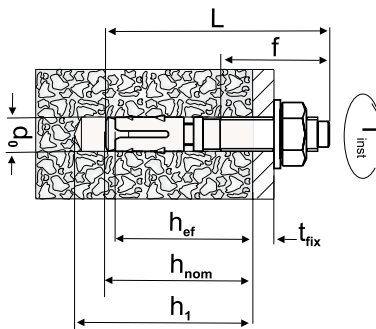
Technical Guide: Anchor Bolt BA-V

EJOT® Anchor Bolt BA-V	FIXING DETAILS [mm]																	Permissible loads - only for approved characteristic centre spacings and edge distances ¹⁾²⁾ Option 1 - Design Method A						
	ANCHOR AND FIXTURE DETAILS						INSTALLATION DATA											Required torque T_{inst} [Nm]	Permissible loads					
	Designation d_0/t_{fix}	Thread size	Total length	Hole diameter in fixture	Thread length	Nut width across flats	Fixture thickness t_{fix}	Drill hole diameter d_0	Minimum hole depth h_1	Nominal setting depth h_{nom}	Effective anchorage depth h_{ef}	Minimum concrete thickness h_{min}	Charact. centre spacing $s_{cr,N}$	Minimum centre spacings s_{min}	For respective edge distance c	Charact. edge distance $c_{cr,N}$	Minimum edge distance c_{min}		For respective spacing s	Concrete grade	Permissible load N_{sk} tension [kN]	Permissible load V_{sk}^{3l} shear without bending moment [kN]	Permissible bending moment M_{sk} stud only [Nm]	
6 / 15 ⁵⁾	M6	65	7	38	10	15	6	50	40	35	60	120	120	90	90	90	120	7	C20/25	-	1.8	-	1.8	4.1
6 / 50 ⁵⁾		100				50													C50/60					
8 / 10	M8	72	9	32	13	10	8	60	50	45	100	135	50	50	68	50	50	20/15*	C20/25	2.0	3.6	4.8	4.8	10
8 / 30		92		52		30													C30/30	2.2	4.0			
8 / 50		112		72		50													C40/50	2.4	4.3			
8 / 85		147		107		85													C50/60	2.6	4.6			
10 / 10	M10	92	12	47	17	10	10	75	68	60	120	180	55	80	90	50	100	35	C20/25	3.6	6.3	8.7	8.7	22.9
10 / 20		102		52		20													C30/37	4.0	6.9			
10 / 30		112		67		30													C40/50	4.3	7.6			
10 / 50		132		87		50													C50/60	4.6	8.1			
10 / 80		162		115		80																		
12 / 5	M12	103	14	53	19	5	12	90	81	70	140	210	60	90	105	55	145	50	C20/25	4.8	7.9	11	11	34.3
12 / 20		118		68		20													C30/37	5.3	8.7			
12 / 30		128		78		30													C40/50	5.8	9.5			
12 / 50		148		98		50													C50/60	6.1	10.1			
12 / 65		163		113		65																		
12 / 80		178		115		80																		
12 / 155	M12	253	14	46	19	155	12	90	81	70	140	240	240	180	180	180	240	50	C20/25	-	6.4	-	6.4	34.3
16 / 5	M16	123	18	65	24	5	16	110	96	85	170	255	70	120	128	85	150	120	C20/25	9.5	16.7	21	21	88.6
16 / 20		138		80		20													C30/37	10.5	18.4			
16 / 50		168		110		50													C40/50	11.4	20			
16 / 60		178		115		60													C50/60	12.2	21.3			
16 / 95	M16	213	18	55	24	95	16	110	96	85	170	320	320	240	240	240	320	120	C20/25	-	10	-	10	88.6
20 / 20	M20	170	22	55	30	20	20	130	120	110	180	400	400	300	300	300	400	240	C20/25	-	13.9	-	13.9	173
20 / 70		220		70		C50/60																		
20 / 130		280		130																				

1) Load figures include the resistances' partial safety factors as per approvals and a partial safety factor on the action of $v_{pr} = 1.4$. Load figures apply for a rebar spacing $s \geq 15$ cm or alternatively for a rebar spacing $s \geq 10$ cm in combination with a rebar diameter of $d_s \leq 10$ mm. 2) If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N}/c_{cr,N}$) a calculation as per ETAG, Annex C, design method A needs to be carried out. For more details, see ETA-approvals ETA-14/0219. 3) Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_1$), concrete edge failure has to be checked as per ETAG, Annex C, Design Method A. 4) Concrete is considered uncracked when the value of tension within the concrete is $\sigma_1 + \sigma_3 \leq 0$. In the absence of detailed verification $\sigma_{R1} = 3$ N/mm² can be assumed (σ_1 equals the tension within the concrete as a result of external loads, forces on anchor included; σ_3 equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations). 5) Not part of ETA approvals. Figures are manufacturer's recommendations. 6) EJOT® Anchor Bolt BA-V.

Technical Guide: Anchor Bolt BA-E

EJOT® Anchor Bolt BA-E	FIXING DETAILS [mm]																Required torque T_{inst} [Nm]	Permissible loads - only for approved characteristic centre spacings and edge distances ¹⁾²⁾ Option 1 - Design Method A						
	ANCHOR AND FIXTURE DETAILS						INSTALLATION DATA											Concrete grade	Permissible load N_{sk} tension [kN]		Permissible load V_{sk} shear without bending moment [kN]		Permissible bending moment M_{sk} stud only [Nm]	
	Designation d_0/t_{fix}	Thread size	Total length	Hole diameter in fixture	Thread length	Nut width across flats	Fixture thickness t_{fix}	Drill hole diameter d_0	Minimum hole depth h_1	Nominal setting depth h_{nom}	Effective anchorage depth h_{ef}	Minimum concrete thickness h_{min}	Charact. centre spacing $s_{cr,N}$	Minimum centre spacings s_{min}	For respective edge distance c	Charact. edge distance $c_{cr,N}$			Minimum edge distance c_{min}	For respective spacing s	cracked	uncracked ⁴⁾		cracked
6 / 15 ⁵⁾	M6	65	7	28	10	15	6	50	40	35	60	120	120	90	90	90	120	7	C20/25 C50/60	-	1.8	-	1.8	4.4
8 / 10	M8	72	9	32	13	10	8	60	50	45	100	135	50	50	68	50	50	20	C20/25	2.0	3.6	5.2	5.2	10.5
8 / 30		92		52		30													C30/37	2.2	3.9			
8 / 50		112		72		50													C40/50	2.4	4.3			
		122		72		50													C50/60	2.5	4.6			
10 / 10	M10	92	12	47	17	10	10	75	68	60	120	180	55	80	90	50	100	35	C20/25	3.6	6.3	8.1	8.1	21.4
10 / 20		102		57		20													C30/37	3.9	7.0			
10 / 30		112		67		30													C40/50	4.3	7.6			
10 / 50		132		87		50													C50/60	4.6	8.1			
12 / 5	M12	103	14	53	19	5	12	90	81	70	140	210	60	90	105	55	145	50	C20/25	4.8	7.9	11.9	11.9	37.6
12 / 20		118		68		20													C30/37	5.2	8.7			
12 / 30		128		78		30													C40/50	5.7	9.5			
12 / 50		148		98		50													C50/60	6.1	10.2			
12 / 65		163		113		65																		
16 / 5	M16	123	18	65	24	5	16	110	96	85	170	255	70	120	128	85	150	120	C20/25	9.5	16.7	22.4	22.4	95.2
16 / 20		138		80		20													C30/37	10.5	18.3			
16 / 50		168		110		50													C40/50	11.4	20			
																			C50/60	12.2	21.3			
20 / 20 ⁵⁾	M20	170	22	55	30	20	20	130	120	110	180	400	400	300	300	300	400	240	C20/25	-	13.9	-	13.9	185.4
20 / 70 ⁵⁾		220		55		70													C50/60					

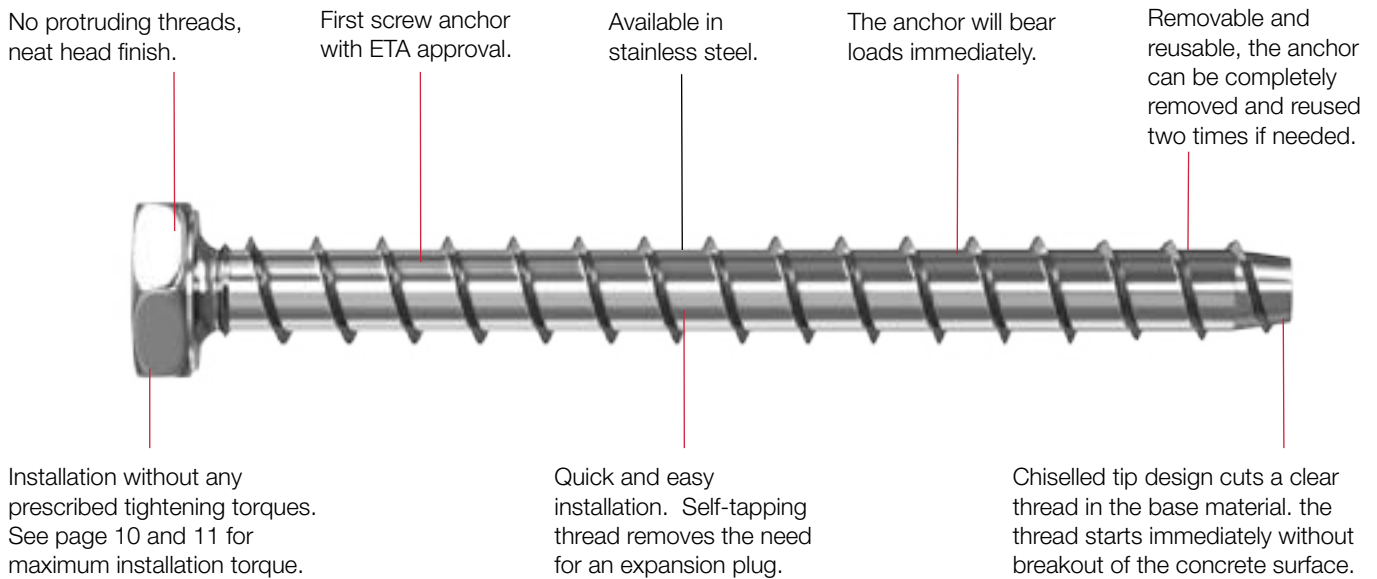


1) Load figures include the resistances' partial safety factors as per approvals and a partial safety factor on the action of $v_{cr} = 1.4$. Load figures apply for a rebar spacing $s \geq 15$ cm or alternatively for a rebar spacing $s \geq 10$ cm in combination with a rebar diameter of $d_r \leq 10$ mm. 2) If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N}/c_{cr,N}$) a calculation as per ETAG, Annex C, design method A needs to be carried out. For more details, see ETA-approvals ETA-08/0173. 3) Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_{ef}$), concrete edge failure has to be checked as per ETAG, Annex C, Design Method A. 4) Concrete is considered uncracked when the value of tension within the concrete is $\sigma_1 + \sigma_2 \leq 0$. In the absence of detailed verification $\sigma_{cr} = 3 \text{ N/mm}^2$ can be assumed (σ_1 equals the tension within the concrete as a result of external loads, forces on anchor included; σ_2 equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations). 5) Not part of ETA approvals. Figures are manufacturer's recommendations.



EJOT® MMS

The MMS anchor is a very easy and quick to install anchor. It is able to take high loads even with small spacings and edge distances. The anchor is removable and can be used two times.



Benefits

- Economical installation
- Quick and easy installation
- No expansion forces
- Small spacings and edge distances possible
- No hardening times to observe
- Removable
- Can be reused.
- Concrete screw for through installation
- For maximum torque settings, please refer to the Technical Reference Guide on page 10 of this document
- The concrete screw is installed directly through the fixture into the bore hole only by screwing. By doing so, the thread is cutting a mating thread into the concrete and that way a mechanical interlock over the total embedment depth.

Load range

Tension loads
 $N_{sk} = 0.3 - 21.9$ [kN]

Shear loads
 $V_{sk} = 0.3 - 23.3$ [kN]



EJOT® MMS

ETA-approved concrete screw in various head shapes

Complete with ETA Option 1 for cracked concrete, EJOT® MMS screw anchors provide quick and easy installation - set without a plug. The chiseled tip design cuts a clear thread in the substrate, with the thread starting immediately; no breaking out of the concrete surface. MMS is removable and reusable up to two times if needed.



Features

- Self-tapping, approved screw anchors for push-through installations
- Fully removable, the anchor can be used twice
- Requires a small drill hole diameter. No prescribed tightening torque
- ZN for dry indoor and temporary outdoor use
- No expansion forces allowing for small edge distances and spacings

Description	Packages	Article Number
EJOT MMS-F 7.5 x 25 x 80 Zn	Bag 10 PCS	9900105469
EJOT MMS-S 7.5 x 5 x 60 Zn	Bag 10 PCS	9900105590
EJOT MMS-S 10 x 5 x 70 Zn	Bag 10 PCS	9900105591
EJOT MMS-S 10 x 35 x 100 Zn	Bag 10 PCS	9900105688

Technical Features

Properties	MMS - F: Countersunk head, torx drive MMS - S: Hex head, hex drive.
Material	Steel, zinc plated
Suitable conditions	Dry indoor

Applications

- Facade scaffoldings
- Temporary fixings
- Seating
- Shelves
- Cable racks
- Handrails
- Battens

Base Materials

- | | |
|--|--|
| Approved for: | Also Suitable for: |
| <ul style="list-style-type: none"> • Cracked concrete • Non-cracked concrete | <ul style="list-style-type: none"> • Hollow-core slab • Natural stone • Solid clay brick • Solid sand-lime brick |



MMS-F



MMS-S



APPROVED

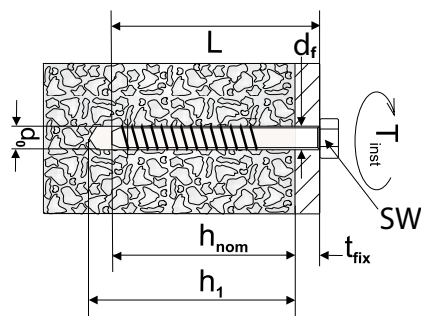
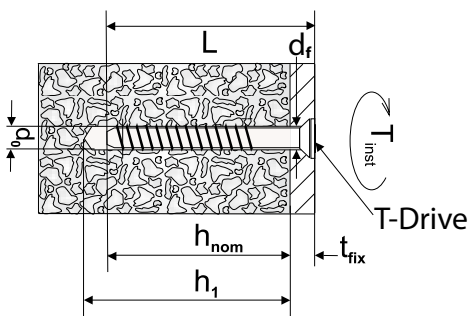
ETA-06/0078
European Technical Approval
Option 1 for cracked concrete

Technical Guide: Concrete Screw MMS

EJOT® Anchor Bolt MMS	Designation $d_0 \times t_{fix}$	Type $d_0 \times t_{fix} \times l$	FIXING DETAILS [mm]											Concrete grade	Permissible loads - only for approved characteristic centre spacings and edge distances ¹⁾²⁾ Option 1 - Design Method A																									
			ANCHOR AND FIXTURE DETAILS					INSTALLATION DATA							Permissible load N_{sk} tension [kN]		Permissible load V_{sk} shear without bending moment [kN]		Permissible bending moment M_{sk} - stud only [Nm]																					
			Nominal size	Total length	Hole diameter in fixture	Head/Combined washer diameter	Nut width across flats/pit size	Fixture thickness t_{fix}	Drill hole diameter d_0	Minimum hole depth h_1	Nominal setting depth h_{nom}	Minimum concrete thickness h_{min}	Charact. centre spacing $s_{cr,N}$		Minimum centre spacing s_{min}	Charact. edge distance $c_{cr,N}$	Minimum edge distance c_{min}	Maximum Torque T_{inst} [Nm]		cracked		un-cracked ⁴⁾		cracked		un-cracked ⁴⁾														
																				As per ETA/DIBt	Manufacturers recommendation	As per ETA/DIBt	Manufacturers recommendation	As per ETA/DIBt	Manufacturers recommendation	As per ETA/DIBt	Manufacturers recommendation													
MMS-F	6x5x50 ⁵⁾⁶⁾	6	50	7	11	T-30	5	55	45	105	200	160	100	80	12	C20/25	0.3	2.7	1.5	3.8	0.3	3.1	1.5	3.1	5.1															
MMS-F	6x35x80 ⁵⁾⁶⁾		80		11											35																								
MMS-F	6x55x100 ⁵⁾⁶⁾		100		11											55																								
MMS-S	6x5x50 ⁵⁾⁶⁾		50 ⁷⁾		-	10										5																								
MMS-SS	6x5x50 ⁵⁾⁶⁾		50 ⁷⁾		11.5	8										5																								
MMS-SS	6x15x60 ⁵⁾⁶⁾		60 ⁷⁾		11.5	8										15																								
MMS-F	7.5x5x50 ⁵⁾⁶⁾⁹⁾	7.5	50	9	13.6	T-40	6	55	45	105	200	160	100	80	20	C20/25	0.3	-	2.0	3.7	0.5	-	2.0	0	10															
MMS-S	7.5x5x50 ⁵⁾⁶⁾⁹⁾		50 ⁷⁾		-											13	5																							
MMS-SS	7.5x5x50 ⁵⁾⁶⁾⁹⁾		50 ⁷⁾		14.5											10																								
MMS-F	7.5x25x80	7.5	80	9	13.6	T-40	6	65	55	100	120	40	60	40	20	C20/25	2.0	3.8	3.0	5.3	3.3	4.5	3.3	4.5	9															
MMS-F	7.5x45x100		100		-											13	25																							
MMS-S	7.5x5x60		60 ⁷⁾		-											13	5																							
MMS-S	7.5x25x80		80 ⁷⁾		14.5											10	5																							
MMS-SS	7.5x25x60		60 ⁷⁾		14											13	5																							
MMS-I	7.5x60		60																																					
MMS-S	10x5x60 ⁵⁾⁶⁾	10	60 ⁷⁾	12	-	16	5	8	65	55	115	200	200	100	100	40	C20/25 to C50/60	0.8	-	0.8	5.0	0.8	-	1.58	-	-														
MMS-S	10x5x70	10	70 ⁷⁾	12	-	16	5	8	75	65	115	142.5	50	71.25	50	40	C20/25	3.6	-	4.8	6.8	7.6	-	7.6	-	18.1														
MMS-S	10x15x80		80 ⁷⁾				15																																	
MMS-S	10x35x100		100 ⁷⁾				35																																	
MMS-S	10x55x120		120 ⁷⁾				55																																	
MMS-SS	10x5x70		70 ⁷⁾				5																																	
MMS-SS	10x15x80		80 ⁷⁾				15																																	
MMS-S	12x5x80	12	80 ⁷⁾	14	-	16	5	10	85	75	125	163.5	60	81.75	60	55	C20/25	4.8	-	6.3	8.3	12.4	-	12.4	-	39														
MMS-S	12x15x90		90 ⁷⁾				15																																	
MMS-S	12x25x100		100 ⁷⁾				25																																	
MMS-S	12x45x120		120 ⁷⁾				45																																	
MMS-S	12x65x140		140 ⁷⁾				65																																	
MMS-S	12x85x160		160 ⁷⁾				85																																	
MMS-SS	12x15x90		90 ⁷⁾				15																																	
MMS-SS	12x25x100		100 ⁷⁾				25																																	
MMS-S	14x110x15		14				110 ⁷⁾										16	-	21	15	12	105	95	150	215		90	107	90	90	C20/25	7.9	9	11.9	12.5	17.1	17.8	17.1	17.8	62.9
MMS-S	14x130x35						130 ⁷⁾													35																				
MMS-S	14x110x15	110 ⁷⁾		15																																				
MMS-S	14x130x35	130 ⁷⁾		35																																				
MMS-S	16x10x80 ⁵⁾	16	80 ⁷⁾	18	-	24	10	14	80	70	180	262.5	100	131.25	100	110	C20/25 to C50/60	-	-	-	7.3	-	-	-	7.3	-														
MMS-S	16x15x130	16	130 ⁷⁾	18	-	24	15	14	130	115	180	262.5	100	131.25	100	110	C20/25	11.7	-	15.9	17	23.3	-	23.3	-	103.3														
MMS-S	16x15x130						15																																	
MMS-S	16x15x130						130 ⁷⁾										15																							
MMS-S	16x15x130						130 ⁷⁾										15																							

Technical Guide: Concrete Screw MMS

EJOT® Anchor Bolt MMS	Designation $d_0 \times t_{fix}$	Type $d_0 \times t_{fix} \times l$	FIXING DETAILS [mm]														Maximum Torque T_{inst} [Nm]	Permissible loads - only for approved characteristic centre spacings and edge distances ¹⁾²⁾ Option 1 - Design Method A										
			ANCHOR AND FIXTURE DETAILS							INSTALLATION DATA								Permissible load N_{sk} tension [kN]				Permissible load V_{sk}^{3l} shear without bending moment [kN]				Permissible bending moment M_{sk} -stud only [Nm]		
			Nominal size	Total length	Hole diameter in fixture	Head/Combined washer diameter	Nut width across flats/pit size	Fixture thickness t_{fix}	Drill hole diameter d_0	Minimum hole depth h_1	Nominal setting depth h_{nom}	Effective anchorage depth h_{ef}	Minimum concrete thickness h_{min}	Charact. centre spacing $s_{cr,N}$	Minimum centre spacing s_{min}	Charact. edge distance $c_{cr,N}$		Minimum edge distance c_{min}	Concrete grade	cracked		un-cracked ⁴⁾		cracked			un-cracked ⁴⁾	
																				As per ETA/DIBt	Manufacturers recommendation	As per ETA/DIBt	Manufacturers recommendation	As per ETA/DIBt	Manufacturers recommendation		As per ETA/DIBt	Manufacturers recommendation
MMS-SA4	7.5x10x65 ⁵⁾⁶⁾	7.5	65	9	-	13	10	6	65	55	40	105	200	200	100	100	20	C20/25 to C50/60	0.5	-	2	-	0.5	-	2	-	5.4	
MMS-SA4	7.5x10x75	7.5	75 ⁷⁾	9	-	13	10	6	75	65	40	105	120	40	60	40	20	C20/25	1.7	-	2.6	-	4.3	-	5.9	-	10.5	
																		C30/37	2.1	-	3.1	-	5.3	-	5.9	-		
																		C40/50	12.4	-	3.6	-	5.9	-	5.9	-		
																		C50/60	2.6	-	4	-	5.9	-	5.9	-		
MMS-SA4	10x10x85	10	85 ⁷⁾	-	-	10	8	90	75	47.5	130	142.5	50	71.25	50	40	C20/25	3.6	-	4.8	-	9.5	-	9.5	-	21.4		
																	C30/37	4.4	-	5.8	-	9.5	-	9.5	-			
MMS-SA4	10x20x95	10	95 ⁷⁾	-	-	20	8	90	75	47.5	130	142.5	50	71.25	50	40	C40/50	5	-	6.7	-	9.5	-	9.5	-			
C50/60	5.5	-	7.4	-	9.5	-	9.5	-																				
MMS-SA4	12x10x100	12	100 ⁷⁾	-	-	10	10	100	90	54.5	140	163.5	60	81.75	60	55	C20/25	4.8	-	6.3	-	13.8	-	15.7	-	44.3		
																	C30/37	5.8	-	7.7	-	15.7	-	15.7	-			
MMS-SA4	12x30x120	12	120 ⁷⁾	-	-	30	10	100	90	54.5	140	163.5	60	81.75	60	55	C40/50	6.7	-	9	-	15.7	-	15.7	-			
C50/60	7.4	-	9.8	-	15.7	-	15.7	-																				



1) Load figures include the resistances' partial safety factors as per approvals and a partial safety factor on the action of $v_{e,1} = 1.4$. Load figures apply for a rebar spacing $s \geq 15$ cm or alternatively for a rebar spacing $s \geq 10$ cm in combination with a rebar diameter of $d_r \leq 10$ mm. 2) If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N}/c_{cr,N}$) a calculation as per ETAG, Annex C, design method A needs to be carried out. For more details, see ETA-approvals ETA-08/0173. 3) Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_{ef}$), concrete edge failure has to be checked as per ETAG, Annex C, Design Method A. 4) Concrete is considered uncracked when the value of tension within the concrete is $\sigma_t + \sigma_{t,0} \leq 0$. In the absence of detailed verification $\sigma_{t,0} = 3$ N/mm² can be assumed (σ_t equals the tension within the concrete as a result of external loads, forces on anchor included; $\sigma_{t,0}$ equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations). 5) Not part of ETA approvals. Figures are manufacturer's recommendations.

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