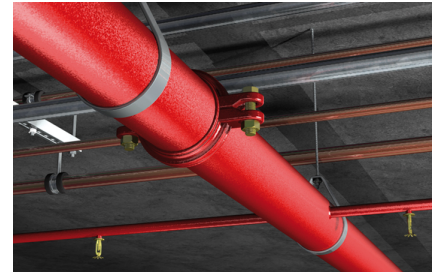
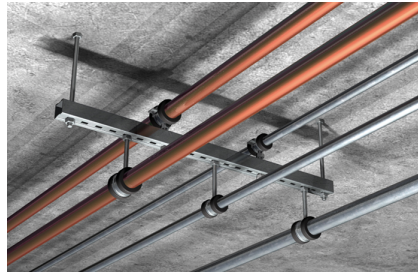


The internally threaded anchor with rim for simple hammerset installation



VERSIONS

- zinc-plated steel
- stainless steel

BUILDING MATERIALS

Approved for:

- Concrete C20/25 to C50/60, cracked, for the multiple fixings of non-load-bearing systems
- Concrete C20/25 to C50/60, non-cracked

Also suitable for:

- Concrete C12/15
- Natural stone with dense structure

APPROVALS



APPROVED
from M10



ADVANTAGES

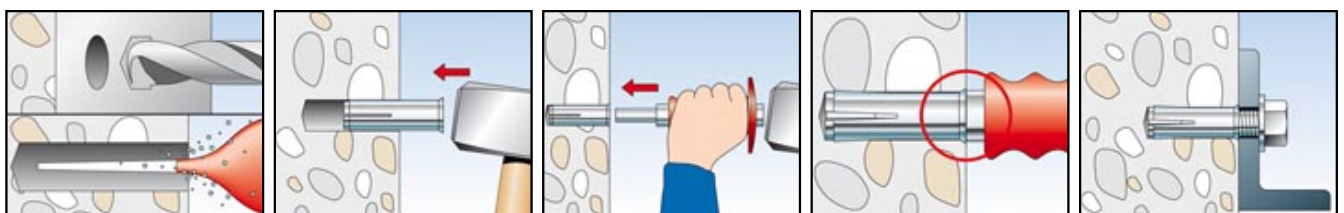
- The embossed rim prevents the anchor sleeve from slipping, thus ensuring a trouble-free hammerset installation.
- The metric internal thread means that it is possible to use standard screws or threaded rods for the ideal adaptation to suit the intended use.
- The EA II S-SDS machine setting tool allows for effortless installation, particularly in the case of series installations.
- The embossing that is applied when expanding with the EAW H Plus setting tool offers a simple control of the anchoring and provides increased safety.

APPLICATIONS

- Pipelines and ventilation systems
- Sprinkler systems
- Cable conduits and wires
- Gratings
- Steel constructions
- Machines
- Consoles
- Shuttering props
- Diamond or core drilling devices (EA II M12 D)

FUNCTIONING

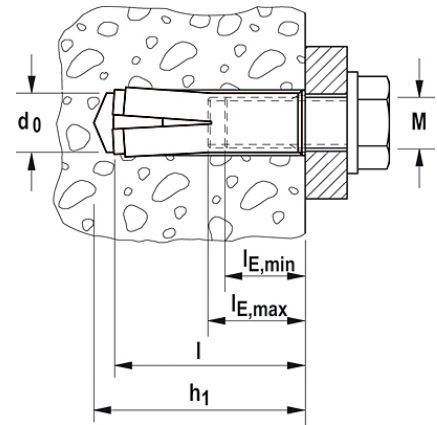
- The EA II is suitable for pre-positioned installation.
- Position the hammerset anchor in the drill hole and drive in flush to the surface of the anchor base using the hammer.
- The sleeve is then expanded by driving in the internal bolt with the EAW H Plus setting tool (alternative: EA II-SDS machine setting tool), and expanded against the drill hole wall.
- The setting tools must sit on the rim of the anchor to ensure correct expansion.
- Use the special EA II M12 D with thicker sleeve for fixing diamond and core drilling devices.



TECHNICAL DATA



Hammerset anchor EA II



galvanized

Article name	Art.-No.	Approval	Drill hole diameter d_0 [mm]	Anchor length l [mm]	Internal thread A1
EA II M 6	048264	■	8	30	M 6
EA II M 8	048284	■	10	30	M 8
EA II M 8 x 40	048323	■	10	40	M 8
EA II M 10	048339	■	12	40	M 10
EA II M 10 x 30	048332	■	12	30	M 10
EA II M 12	048406	■	15	50	M 12
EA II M 16	048408	■	20	65	M 16
EA II M 20	048409	■	25	80	M 20

A4

Article name	Art.-No.	Approval	Drill hole diameter d_0 [mm]	Anchor length l [mm]	Internal thread A1
EA II M 6 A4	048410	■	8	30	M 6
EA II M 8 A4	048411	■	10	30	M 8
EA II M 8 x 40 A4	048412	■	10	40	M 8
EA II M 10 A4	048414	■	12	40	M 10
EA II M 12 A4	048415	■	15	50	M 12
EA II M 16 A4	048416	■	20	65	M 16
EA II M 20 A4	048417	■	25	80	M 20

LOADS

Hammerset anchor EA II (screw property class 4.6)

Highest permissible loads for a single anchor¹⁾ for multiple use for non-structural applications in concrete C20/25 up to C50/60. For the design the complete approval ETA - 07/0142 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness ²⁾ h_{min} [mm]	Max. torque moment $T_{inst,max}$ [Nm]	Cracked or non-cracked concrete		
				Permissible load	Min. spacing	Min. edge distance
				$F_{perm}^{3)}$ [kN]	$s_{min}^{2)}$ [mm]	$c_{min}^{2)}$ [mm]
EA II M6	30	100	4,0	1,2	65	115
EA II M8	30	100	8,0	2,0	95	140
EA II M8 x 40	40	100	8,0	2,0	95	140
EA II M10 x 30	30	120	15,0	2,0	85	140
EA II M10	40	120	15,0	3,0	95	160
EA II M12	50	120	35,0	4,3	145	200

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁷⁾ When the spacing and edge distance will be increased the minimum member thickness can be reduced. Exact data see approval.

LOADS

Hammerset anchor EA II (screw property class 8.8)

Highest permissible loads for a single anchor¹⁾ in concrete C20/25⁴⁾

For the design the complete approval ETA - 07/0135 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Max. torque moment $T_{inst,max}$ [Nm]	Non-cracked concrete			
				Permissible tensile load $N_{perm}^{3)}$ [kN]	Permissible shear load $V_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA II M6 ⁵⁾	30	100	4,0	4,0	3,9	65	115
EA II M8 ⁵⁾	30	100	8,0	4,0	4,9	95	140
EA II M8 x 40	40	100	8,0	6,1	4,9	95	140
EA II M10 x 30 ⁵⁾	30	120	15,0	4,0	6,2	85	140
EA II M10	40	120	15,0	6,1	6,2	95	160
EA II M12	50	120	35,0	8,5	11,3	145	200
EA II M12D	50	120	35,0	8,5	15,4	145	200
EA II M16	65	160	60,0	12,6	18,3	180	240
EA II M20	80	200	120,0	17,2	29,1	190	280

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.

⁵⁾ Only for multiple use for non-structural applications.

LOADS

Hammerset anchor EA II A4 (screw property class A4-50)

Highest permissible loads for a single anchor¹⁾ for multiple use for non-structural applications in concrete C20/25 up to C50/60.

For the design the complete approval ETA - 07/0142 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness ⁷⁾ h_{min} [mm]	Max. torque moment $T_{inst,max}$ [Nm]	Cracked or non-cracked concrete		
				Permissible load $F_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA II M6 A4	30	100	4,0	1,2	65	115
EA II M8 A4	30	100	8,0	2,0	95	140
EA II M8 x 40 A4	40	100	8,0	2,0	95	140
EA II M10 x 30 A4	30	120	15,0	2,0	85	140
EA II M10 A4	40	120	15,0	3,0	95	160
EA II M12 A4	50	120	35,0	4,3	145	200

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁷⁾ When the spacing and edge distance will be increased the minimum member thickness can be reduced. Exact data see approval.

LOADS

Hammerset anchor EA II A4 (screw property class A4-70)

Highest permissible loads for a single anchor¹⁾ in concrete C20/25⁴⁾

For the design the complete approval ETA - 07/O135 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Max. torque moment $T_{inst,max}$ [Nm]	Non-cracked concrete			
				Permissible tensile load $N_{perm}^{3)}$ [kN]	Permissible shear load $V_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA II M6 A4 ⁵⁾	30	100	4,0	4,0	3,2	65	115
EA II M8 A4 ⁵⁾	30	100	8,0	4,0	5,6	95	140
EA II M8 x 40 A4	40	100	8,0	6,1	5,6	95	140
EA II M10 x 30 A4 ⁵⁾	30	120	15,0	4,0	6,9	85	140
EA II M10 A4	40	120	15,0	6,1	7,1	95	160
EA II M12 A4	50	120	35,0	8,5	12,9	145	200
EA II M12D A4	50	120	35,0	8,5	13,5	145	200
EA II M16 A4	65	160	60,0	12,6	21,1	180	240
EA II M20 A4	80	200	120,0	17,2	33,7	190	280

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.

⁵⁾ Only for multiple use for non-structural applications.