

The cost-efficient hammerset anchor for an easy installation



Pipelines



Height adjustable pipe installation

VERSIONS

- Zinc-plated steel

BUILDING MATERIALS

- Concrete C12/15 to C50/60, non-cracked

ADVANTAGES

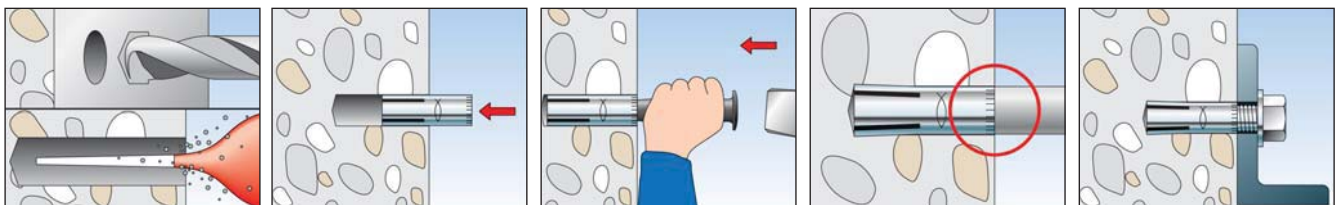
- The hammerset anchor with internal thread is suitable for pre-positioned installation.
- The EA-N fits for all standard screws with metric/inch - thread.
- The available internal thread diameter from 6 mm to 20 mm provides flexibility in the application.

APPLICATIONS

- Pipeline routes
- Cable trays
- Consoles

FUNCTIONING

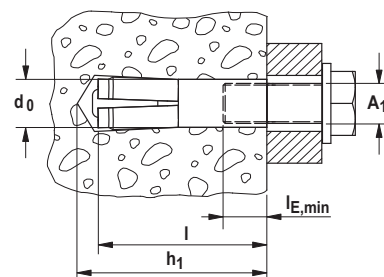
- Put the hammerset anchor in the drill hole and get it flush to the surface by hammering in.
- With the hammerset tool EA-ST the capsule will spread due to hammering in the internal bolt and tensed up against the drill hole wall.
- The hammerset tools must be set up on the edge of the anchor for a correct expansion.



TECHNICAL DATA



Hammerset anchor **EA-N Metric**



Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth for pre-positioned installation h_1 [mm]	Anchor length l [mm]	Internal thread A_1	Min. bolt penetration $l_{E,min}$ [mm]	Sales unit [pcs]
EA M 6 x 25 N gvz	090159	8	25	25	M 6	6	100
EA M 8 x 30 N gvz	090160	10	30	30	M 8	8	100
EA M 10x40 N gvz	090161	12	40	40	M 10	10	50
EA M 12 x 50 N gvz	090162	15	50	50	M 12	12	50
EA M 16 x 65 N gvz	090163	20	65	65	M 16	16	25
EA M 20 x 80 N gvz	090164	25	80	80	M 20	20	25
EA M 12 x 50 N D gvz	500872	16	50	50	M 12	12	50



Hammerset anchor **EA-N Inch-metric**

Item	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth for pre-positioned installation h_1 [mm]	Anchor length l [mm]	Internal thread A_1	Min. bolt penetration $l_{E,min}$ [mm]	Sales unit [pcs]
EA IM 1/4 x 25 N gvz	048103	8	25	25	1/4"	6	100
EA IM 5/16 x 30 N gvz	048104	10	30	30	5/16"	8	100
EA IM 3/8 x 40 N gvz	048105	12	40	40	3/8"	10	50
EA IM 1/2 x 50 N gvz	048106	16	50	50	1/2"	12	50
EA IM 5/8 x 65 N gvz	048107	20	65	65	5/8"	16	25
EA IM 3/4 x 80 N gvz	048108	25	80	70	3/4"	20	25



Hammerset anchor **EA-N Inch**

Item	Art.-No.	Drill diameter d_0 [Inch]	Min. drill hole depth for pre-positioned installation h_1 [Inch]	Total length l [Inch]	Internal thread A_1 [Inch]	Min. bolt penetration $l_{E,min}$ [Inch]	Sales unit [pcs]
EA I 1/4 x 1" N gvz	049185	3/8	1	1	1/4	1/4	100
EA I 5/16 x 1 3/16" N gvz	049194	3/8	1 1/4	1 1/4	5/16	5/16	100
EA I 3/8 x 1 9/16" N gvz	049195	1/2	1 9/16	1 5/8	3/8	3/8	50
EA I 1/2 x 2" N gvz	049197	5/8	2	2	1/2	1/2	50
EA I 5/8 x 2 1/2" N gvz	049198	3/4	2 3/8	2 1/2	5/8	5/8	20

ACCESSORIES



Setting tool **EA-ST**

Item		Match	Sales unit [pcs]
EA-ST 6	504573	EA N M6	1
EA-ST 8	504576	EA N M8	1
EA-ST 10	504584	EA N M10	1
EA-ST 12	504585	EA N M12	1
EA-ST 16	504586	EA N M16	1
EA-ST 20	504587	EA N M20	1

LOADS

Hammerset anchor EA-N

zinc plated steel

Recommended loads of a single anchor in non-cracked normal concrete (concrete compression zone) of strength class C20/25 ¹⁾						Minimum spacings while reducing the load	
Type	Screw material	Min. member thickness h_{min} [mm]	Effective anchorage depth h_{ef} [mm]	Maximum torque moment T_{max} [Nm]	Recommended Tensile load N_{rec} [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA M6x25 N³⁾	≥ 4.6	100	25	4	2,0	65	115
EA M8x30 N³⁾	≥ 4.6	100	30	8	2,5	95	140
EA M10x40 N	≥ 4.6	100	40	15	4,5	150	180
EA M12x50 N	≥ 4.6	120	50	35	6,0	145	200
EA M12x50 N D	≥ 4.6	120	50	35	6,0	145	200
EA M16x65 N	≥ 4.6	160	65	60	11,5	180	240
EA M20x80 N	≥ 4.6	200	80	120	16,0	190	280

¹⁾ Required safety factors are considered.

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

³⁾ Only suitable for statically indeterminate systems.

LOADS

Hammerset anchor EA-N Inch Metric

zinc plated steel

Recommended loads of a single anchor in non-cracked normal concrete (concrete compression zone) of strength class C20/25 ¹⁾						Minimum spacings while reducing the load	
Type	Screw material	Min. member thickness h_{min} [mm]	Effective anchorage depth h_{ef} [mm]	Maximum torque moment T_{max} [Nm]	Recommended Tensile load N_{rec} [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA IM 1/4x25 N³⁾	≥ 4.6	100	25	4	3,0	65	115
EA IM 5/16x30 N³⁾	≥ 4.6	100	30	8	4,0	95	140
EA IM 3/8x40 N	≥ 4.6	100	40	15	6,0	150	180
EA IM 1/2x50 N	≥ 4.6	120	50	35	7,0	145	200
EA IM 5/8x65 N	≥ 4.6	160	65	60	12,0	180	240
EA IM 3/4x80 N	≥ 4.6	200	80	120	18,0	190	280

¹⁾ Required safety factors are considered.

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

³⁾ Only suitable for statically indeterminate systems.

LOADS

Hammerset anchor EA-N Inch

zinc plated steel

Recommended loads of a single anchor in non-cracked normal concrete (concrete compression zone) of strength 3500 psi ¹⁾						Minimum spacings while reducing the load	
Type	Screw material	Min. member thickness h_{min} [in.]	Effective anchorage depth h_{ef} [in.]	Maximum torque moment T_{max} [ft-lb]	Recommended Tensile load N_{rec} [lb]	Min. spacing s_{min} ²⁾ [in.]	Min. edge distance c_{min} ²⁾ [in.]
EA I 1/4x1 N³⁾	≥ ISO 898-1 Klasse 4.6	4	1	3	560	2 9/16	4 1/2
EA I 5/16x1 3/16 N³⁾	≥ ISO 898-1 Klasse 4.6	4	1 3/16	6	900	3 3/4	5 1/2
EA I 3/8x1 9/16 N	≥ ISO 898-1 Klasse 4.6	4	1 9/16	11	1120	5 5/16	7 1/8
EA I 1/2x2 N	≥ ISO 898-1 Klasse 4.6	4 3/4	2	26	1240	5 11/16	7 7/8
EA I 5/8x2 1/2 N	≥ ISO 898-1 Klasse 4.6	6 3/8	2 1/2	44	2020	7 1/8	9 1/2

¹⁾ Required safety factors are considered.

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

³⁾ Only suitable for statically indeterminate systems.