



ANCHOR PRODUCTS CATALOGUE

















Through Bolt Anchor

The male anchors are an effective professional solution for installing elements with high performance guarantees in cracked and non-cracked concrete.

They are available in a wide range that includes, among others, anchors with European ETA 21/0620 approval for use in cracked and non-cracked concrete, C1&C2 seismic approval for fire resistance, and European ETA 21/0543 approval for use in non-cracked concrete. They are suitable for installation in both indoor and outdoor applications thanks to the coating options

(ATLANTIS C3-L and zinc-plated).

DESIGN AND GEOMETRY











Shaft retracts as thread protection during anchor installation.

Nut. The internal threading makes it possible to fit the screw, facilitating the securing and connection of detachable elements. It is supplied pre-assembled.

Washer. It ensures optimal precision of the element being installed. It is supplied with a pre-assembled DIN 125 washer. Optionally, it can be supplied with DIN 9021 (wide series) or DIN 440 (for wood) washers.

The lettering on the shaft indicates its length, letting you know the length of the anchor once installed. It is important to check the thickness to be fastened in order to properly choose the necessary anchor length.



- Structural applications
- Structural beams and columns
- Stadium seats
- Wood-to-concrete structures
- · Railings and fencing
- Shelving and racks
- Structural beams and columns
- Fasting of non-structural elements like signs, machines, boilers, posters, billboards, etc.
- Other installations







Shaft edge. It allows the clip to be held in position during installation.



Expansion clip and cone. The cone retracts, expanding the clip and exerting pressure on the base material to enable fastening.



Identification. Model and measurement indicated on the clip.

QUALITIES AND ADVANTAGES



MAXIMUM VERSATILITY. Variable anchor Depth

It can be installed with up to two different screwing depths in M8, M10, M12 and M16*

* In the IDKLAH zinc-plated version

MAXIMUM GUARANTEES. PRODUCTS APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

Approval ETA 21/0620 option 1 for installation in cracked and non-cracked concrete (C20/25-C50/60).

- Approval ETA 21/0543 option 7 for installation in non-cracked concrete (C20/25-C50/60).
- Seismic approval C1&C2.
- Approved for fire resistance R30-R120 in concrete.
- Confirmed suitability for the installation of sprinkler systems in accordance with the VdS CEA 4001 guidelines.











RANGE



Product	Axis	Clip	ETA TEXTURA FORCE SI TRACTURA	ETA STRUCTURA E RANGE HINGARCHIO CONCERT	Was const	THE RESISTOR	VIS CEA 4001
IDKLAP	SA2"	A	✓		✓	✓	✓
IDKLAH	Zn	Zn		✓		✓	

THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



Atlantis C3-L coating: Valid for dry indoor conditions (50 years) or in C3-type outdoor environments according to ISO 9223, for a period of 25 years.



Zinc coating: Suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.



IDKLAP

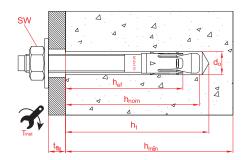
Through bolt anchor for heavy loads in cracked & uncracked concrete

IDKLAPX

Opt.1 ETA Assessed. Zinc-plated shaft. ATLANTIS C3-L clip



			concrete	concrete		_	$\mathbf{\circ}$
Code No	Seismic Assessment	Size	DRILL Ø (mm)	Thickness Max. Fixture (mm)	Axis Letter (Length)		
IDKLAPX08075	C1	M8 x 75 Ø8	8	9	С	100	600
IDKLAPX10090	C1&C2	M10 x 90 Ø10	10	10	Е	100	400
IDKLAPX10115	C1&C2	M10 x 115 Ø10	10	35	G	50	200
IDKLAPX12110	C1&C2	M12 x 110 Ø12	12	14	F	50	200
IDKLAPX12130	C1&C2	M12 x 130 Ø12	12	34	Н	50	200
IDKLAPX16145	C1	M16 x 145 Ø16	16	28	I	25	100
IDKLAPX16175	C1	M16 x 175 Ø16	16	58	К	25	50
IDKLAPX20170	C1&C2	M20 x 170 Ø20	20	32	К	20	40



IDKLAPX

Opt.1 ETA Assessed. Zinc-plated shaft. ATLANTIS C3-L clip

Code No	MXL	MAX. FIXTURE THICKNESS (mm)	DRILL Ø (mm)	HOLE DEPTH MIN. (mm)	MIN. Anchor Depth (mm)	INSTALLA- TION KEY (mm)	TORQUE (NM)	AXIS LETTER (mm)	Ø ELEMENT TO FIX (mm)	MIN. SUB- STRATE THICKNESS (mm)	MIN. DISTANCE TO EDGE "A" (mm)	MIN. DISTANCE FROM AXIS "B" (mm)	TENSION LOAD NON- CRACKED CONCRETE (kg)	SHEAR LOAD NON- CRACKED CONCRETE (kg)	TENSION LOAD CRACKED CONCRETE (kg)	SHEAR LOAD CRACKED CONCRETE (kg)
IDKLAPX08075	M8 x 75	9	8	60	55	13	15	С	9	100	72	144	364	641	243	556
IDKLAPX10090	M10 x 90	10	10	75	68	17	40	Е	12	120	90	180	777	1014	437	1014
IDKLAPX10115	M10 x 115	35	10	75	68	7	40	G	12	120	90	180	777	1014	437	1014
IDKLAPX12110	M12 x 110	14	12	85	80	19	60	F	14	140	105	210	1214	1474	777	1474
IDKLAPX12130	M12 x 130	34	12	85	80	19	60	Н	14	140	105	210	1214	1474	777	1474
IDKLAPX16145	M16 x 145	28	16	105	97	24	100	I	18	170	128	255	1699	2744	1214	2620
IDKLAPX16175	M16 x 175	58	16	105	97	24	100	K	18	170	128	255	1699	2744	1214	2620
IDKLAPX20170	M20 x 170	32	20	125	114	30	200	K	22	200	150	300	2388	4258	1456	3343



















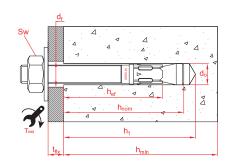






Opt.7 ETA Assessed. Zinc-plated shaft. Zinc-plated clip

Code No	Size	Thickness Max. Fixture (mm)	Axis Letter (Length)	P	•
IDKLAH08075	M8 x 75 Ø8	5	С	100	600
IDKLAH08120	M8 x 120 Ø8	50	G	100	400
IDKLAH10090	M10 x 90 Ø10	10	E	100	400
IDKLAH10120	M10 x 120 Ø10	40	G	50	300
IDKLAH12110	M12 x 110 Ø12	18	F	50	200
IDKLAH16145	M16 x 145 Ø16	23	I	25	100



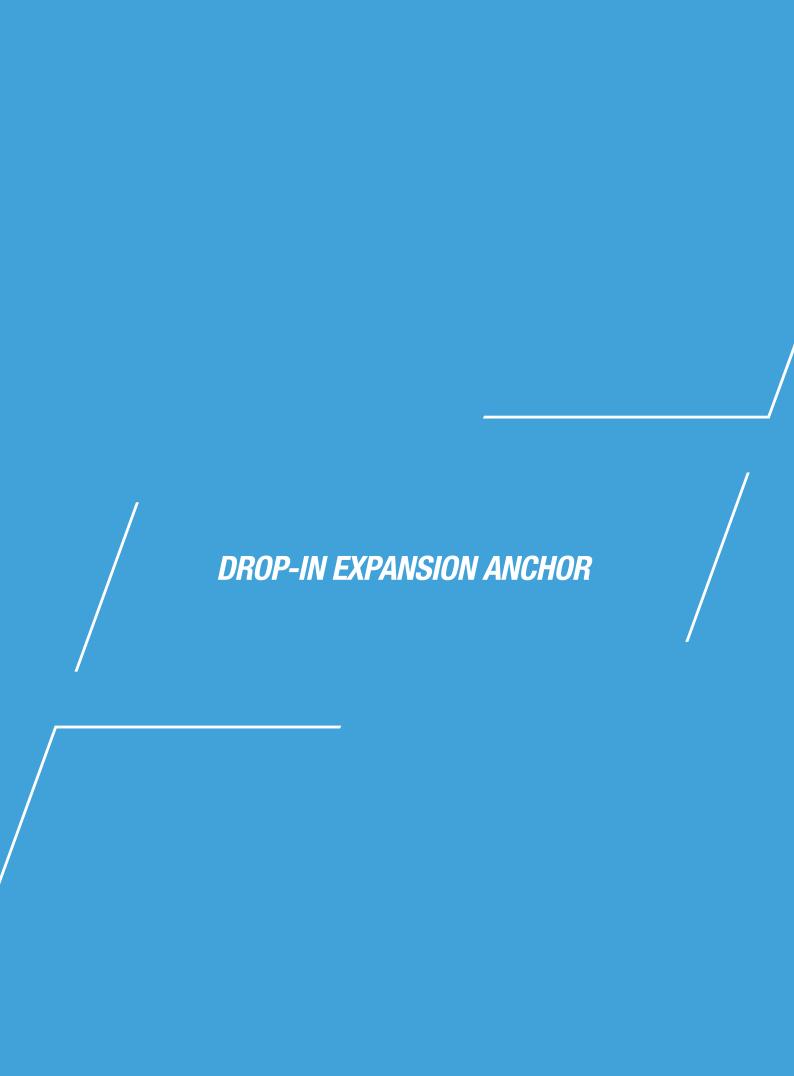
IDKLAH

Opt.7 ETA Assessed. Zinc-plated shaft. Zinc-plated clip

Code No	MXL	MAX. FIXTURE THICKNESS (mm)	DRILL Ø (mm)	HOLE DEPTH MIN. (mm)	MIN. Anchor Depth (mm)	INSTALLA- TION KEY (mm)	TORQUE (NM)	AXIS LETTER (mm)	Ø ELEMENT TO FIX (mm)	MIN. SUBSTRATE THICKNESS (mm)	MIN. DISTANCE TO EDGE "A" (mm)	MIN. DISTANCE FROM AXIS "B" (mm)	TENSION LOAD NON- CRACKED CONCRETE (kg)	SHEAR LOAD NON- CRACKED CONCRETE (kg)
IDKLAH08075	M8 x 75	5	8	65	60	13	20	С	9	100	72	144	676	542
IDKLAH08120	M8 x 120	50	8	65	60	13	20	G	9	100	72	144	676	542
IDKLAH10090	M10 x 90	10	10	75	67	17	35	Е	12	110	83	165	922	856
IDKLAH10120	M10 x 120	40	10	75	67	17	35	G	12	110	83	165	922	856
IDKLAH12110	M12 x 110	18	12	85	77	19	60	F	14	130	98	195	1251	1200
IDKLAH16145	M16 x 145	23	16	110	104	24	120	I	18	168	126	252	1887	2337

3

AS1







Drop-in Expansion Anchor

The range of drop-in expansion anchors with internal thread are designed for installing pipework, cable trays, ventilation ducts or fire sprinkler systems.

They have European technical approval for structural applications in non-cracked concrete (in accordance with ETA 21/0541) and for the installation of redundant nonstructural systems in cracked concrete, including under conditions of fire exposure (in accordance with ETA 21/0542). Available with ATLANTIS C3-L or zinc-plated coating for use in both indoor and outdoor applications.

DESIGN AND GEOMETRY



Inner thread. The first part of the anchor has an inner thread where the metric bolt and/or threaded bar is installed (bolts and bars not supplied with the product). The metric inner thread guarantees maximum versatility for use in multiple installations.



Version with HE-CL collar. The version with collar prevents the anchor from being introduced too far into the base material in cases where the bore hole has been made deeper than required by the documentation.



Internal cone. The lower part of the anchor contains a cone that causes the fins to expand during installation.



Fins. The expansion of the cone causes the fins to expand, producing friction against the walls of the base material to enable fastening.



Protection. The plastic inside the anchor prevents the cone from falling during installation or transportation of the box.

APPLICATIONS



- · Structural applications
- · Structural beams and columns
- Stadium seats
- Wood-to-concrete structures
- Railings and fencing
 Chalving and reals
- Shelving and racks
- Structural beams and columns
- Fasting of non-structural elements like signs, machines, boilers, posters, billboards, etc.
- Other installations



E-CL collar. The lar prevents the lar prevents the ing introduced base material in be bord hole has per than required



Short version HE-HC. The HE-HC version enables installation in areas where there are believed to be a lot of reinforcement trusses, such as the lower part of slabs. Given its short length (25 mm) it is not expected to interfere with the trusses.













QUALITIES AND ADVANTAGES



$\begin{array}{l} \textbf{REMOVABLE AND REUSABLE} \\ \textbf{ANCHOR.} \end{array}$

The bolt or bar used can be removed, leaving a clear surface (the casing and cone remain inside the bore hole). The installed anchor can be reused.

MAXIMUM GUARANTEES. PRODUCTS APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

- Approved (ETA 21/0542) for redundant non-structural systems in cracked and non-cracked concrete (C12/15 to C50/60), including under conditions of fire exposure.
- Approved (ETA 21/0541) for structural applications in non-cracked concrete (C20/25 to C50/60).
- Confirmed suitability for the installation of sprinkler systems in accordance with the VdS CEA 4001 guidelines.

EASY INSTALLATION.

The EXP tool with rubber protector enables safe, controlled and ergonomic expansion of the anchor.

How do I know if the anchor has been installed correctly?

Once the sleeve has been inserted into the hole, hit with the expander until the upper edge of the sleeve is marked with some notches.

RANGE





Product	Coating/ Matrial	ETA STEATURE AND A VINCOLUMN AND AND A VINCOLUMN AND A VINCOLU	ETA STRUCTURAL PRIMASS IN INVESTIGATION CONCRETE	THE PRESISTAN	VdS CEA 4001 compliant
IDCAHEHO	Zn	✓	✓	✓	✓
IDCAHECL	Zn	✓	✓	✓	✓
IDCAHEHC	Zn	✓		✓	✓

THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



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Zinc coating: Suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.

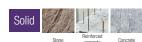


IDCAHE

IDCAHEHO

heavy loads

Zinc-plated. Opt.7 ETA Assessed & for non-structural applications















Code No	Size	Length	9	
IDCAHEHOM20	M20 x 80 Ø25	80	25	100

IDCAHECL

With collar. Zinc-plated. Opt.7 ETA Assessed & for non-structural applications

















Code No	Size	Length	Ø	•
IDCAHECLOM08	M8 x 30 Ø10	30	100	1.600
IDCAHECLOM10	M10 x 40 Ø12	40	50	800
IDCAHECLOM12	M12 x 50 Ø15	50	50	400
IDCAHECLOM16	M16 x 65 Ø20	65	25	200

IDCAHEHC

Short. Zinc-plated. ETA Assessed for non-structural applications











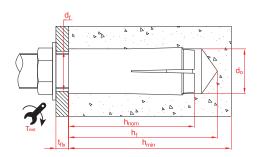




Code No	Size	Length	Θ	
IDCAHEHCM08	M8 x 25	25	100	1.600
IDCAHEHCM10	M10 x 25	25	50	800
IDCAHEHCM12	M12 x 25	25	50	800

AS1







IDCAHEHO

Opt.7 ETA Assessed. Zinc-plated shaft. Zinc-plated clip

Code No	MXL	DRILL Ø (mm)	HOLE DEPTH MIN. (mm)	MIN. ANCHOR Depth (mm)	TORQUE (NM)	Ø ELEMENT TO FIX (mm)	MIN. SUBSTRATE THICKNESS (mm)	MIN. DISTANCE TO EDGE "A" (mm)	MIN. DISTANCE FROM AXIS "B" (mm)	TENSION LOAD NON-CRACKED CONCRETE (kg)	SHEAR LOAD NON-CRACKED CONCRETE (kg)
IDCAHEHOM20	M20	25	86	80	100	22	160	280	160	1220	2767

IDCAHECL

With collar. Zinc-plated. Opt.7 ETA Assessed & for non-structural applications

Code No	MXL	DRILL Ø (mm)	HOLE DEPTH MIN. (mm)	MIN. ANCHOR DEPTH (mm)	TORQUE (NM)	Ø ELEMENT TO FIX (mm)	MIN. Substrate Thickness (mm)	MIN. DISTANCE To EDGE "A" (mm)	MIN. DISTANCE FROM AXIS "B" (mm)	TENSION LOAD NON-CRACKED CONCRETE (kg)	SHEAR LOAD NON-CRACKED CONCRETE (kg)
IDCAHECLOM08	M8	10	33	30	11	9	100	105	90	327	392
IDCAHECLOM10	M10	12	43	40	17	12	100	140	80	354	530
IDCAHECLOM12	M12	15	54	50	38	14	100	175	100	494	844
IDCAHECLOM16	M16	20	70	65	60	18	130	230	130	733	1893

IDCAHEHC

With collar. Zinc-plated. Opt.7 ETA Assessed & for non-structural applications

Code No	MXL	DRILL Ø (mm)	HOLE DEPTH MIN. (mm)	MIN. ANCHOR DEPTH (mm)	TORQUE (NM)	Ø ELEMENT TO FIX (mm)	MIN. SUBSTRATE THICKNESS (mm)	MIN. DISTANCE TO EDGE "A" (mm)	MIN. DISTANCE FROM AXIS "B" (mm)	TENSION LOAD NON-CRACKED CONCRETE (kg)	SHEAR LOAD NON-CRACKED CONCRETE (kg)
IDCAHEHCM08	M8 x 25	10	28	25	11	9	80	60	75	101	101
IDCAHEHCM10	M10 x 25	12	28	25	17	12	80	60	75	162	162
IDCAHEHCM12	M12 x 25	15	29	25	38	14	80	60	75	162	162

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Notes



