



IWA

Indo Wedge Anchor

www.indospark.com



IWA

Indo Wedge Anchor



		Material base				Utilisation					
Approvals	CE mark	Non-cracked concrete	Cracked concrete	Natural dense stone	Solid brick	Hollow brick	Regular depth	Reduced depth	Direct load	Through installation	Resistant to corrosion
	Fire resistant	●	●	●	●	●	●	●	●	●	●

	Diameters	Applications / Use	Advantages	Coating
IWA	M8, M10 M12, M16, M20	<ul style="list-style-type: none"> Structural applications in non cracked concrete. Safety barriers. Billboards, machinery, boilers, signals, steel beams. Fixing wood structure in concrete 	Wide range of sizes and lengths Full thread Fast installation of the anchor Reliable and cheap solution	Zinc-plated

CHARACTERISTICS

- Roughness working principle; installation by controlled torque.
- Use for high loads.
- Assessed for two installation depths.
- Easy installation.
- Use in non-cracked concrete.
- Previous installation, or through the fixture.
- Use for static or quasi-static loads.
- Three versions zinc plated, stainless steel A2 and A4.
- Variety of lengths and sizes, assembly flexibility.
- DIN 440 for fixing wood structures to concrete.

APPLICATIONS-USE

- Structural applications in non cracked concrete
- Safety barriers.
- Billboards, machinery, boilers, signals, steel beams.
- Fixing wood structure in concrete



CSIC
INSTITUTO DE CIENCIAS DE LA CONSTRUCCIÓN EDUARDO TORROJA

European Technical Assessment
ETA 16/0502 of 22/08/2016

General Part

Technical Assessment Body issuing the ETA designated according to Art. 29 of Regulation (EU) 305/2011: Instituto de Ciencias de la Construcción Eduardo Torroja (ICTE)

Trade name of the construction product: (ICFB) INDO WEDGE ANCHOR IWA (ICFB) INDO WEDGE ANCHOR IWA-A4

Product family to which the construction product belongs: Torque controlled expansion anchor made of galvanized steel or stainless steel of sizes M6, M8, M10, M12, M14, M16 and M20 use in non-cracked concrete.

Manufacturer: INDO SPARK CONSTRUCTION SERVICES
158 E Tarapur Chowk Near Gesta Mandi Kolhapur 416003 Maharashtra, India
website: www.indospark.com

Manufacturing plants: ICFS Plant 1
ICFS Plant 2

This European Technical Assessment contains: 13 pages including 4 annexes which form an integral part of this assessment. Annex E contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available.

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of: Guidelines for European Technical Approval ETAG 001 "Metal anchors for use in concrete", ed. April 2013, Parts 1 and 2 - used as European Assessment Document (EAD)

CHARACTERISTIC RESISTANCE

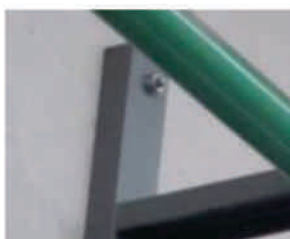
Characteristic resistance* in concrete C02/25** for an isolated anchor (without spacing and edge distances effects) are as per this table :

METRIC	M8	M10	M12	M16	M20
Minium anchor length for which these data are applicable	60 75 90 100 115 130	90 100 120 150	100 120 160 180	125 145 220	170 220
STANDARD INSTALLATION DEPTH					
NR,K:Tension (KN)	13.0	19.0	26.4	38.8	50 73.5
VR,K:Shear (KN)	9.3	14.7	20.6	38.4	50 73.5
NR,K:Tension (KN)	10.0	13.7	17.8	26.4	—
VR,K:Shear (KN)	10.4	13.4	17.8	26.4	—

RECOMMENDED SAFETY FACTORS

SAFETY COEFFICIENTS	REDUCTION COEFFICIENT FOR RESISTANCES		INCREASING COEFFICIENT FOR LOADS
	CONCRETE FAILURE	STEEL FAILURE	
Zinc plated	Tension	1.80	1.4
	Shear	--	

APPLICATION / USE



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Product Technical Specification



Type	Art No.	Nominal Drill Dia	Min drill depth with push-through installation [mm]	Anchorage depth [mm]	Anchor length [mm]	Max Usable [mm]	Thread length [mm]	Thread	Wide across nut [sw]	Washer outer diameter X thickness [mm]	Installation Torque [Nm]
IWA	IWA0875	8	65	60	75	5	35,5	8	13	16 X1.6	20
IWA	IWA0890	8	65	60	90	20	50,5	8	13	16 X1.6	20
IWA	IWA08120	8	65	60	120	50	80,5	8	13	16 X1.6	20
IWA	IWA1075	10	55	52	75	8	38	10	17	20 X 2	35
IWA	IWA1090	10	70	67	90	10	46	10	17	20 X 2	35
IWA	IWA10100	10	70	67	100	20	56	10	17	20 X 2	35
IWA	IWA10150	10	170	70	150	70	106	10	17	20 X 2	35
IWA	IWA12100	12	75	70	100	23	45	12	19	24 X 2,5	60
IWA	IWA12120	12	85	77	120	28	65	12	19	24 X 2,5	60
IWA	IWA12150	12	85	77	150	58	95	12	19	24 X 2,5	60
IWA	IWA12250	12	85	77	250	158	145	12	19	24 X 2,5	60
IWA	IWA16100	16	75	69	100	15	32	16	24	30 X 3	120
IWA	IWA16145	16	110	104	145	23	77	16	24	30 X 3	120
IWA	IWA16200	16	110	104	200	78	132	16	24	30 X 3	120
IWA	IWA20170	20	175	125	170	27	99	20	30	37 X 3	240
IWA	IWA20220	20	175	125	220	77	149	20	30	37 X 3	240