



TBA
Through bolt anchor for heavy loads.

TBA

Through bolt anchor



	Diameters	Applications / Use	Advantages	Coating	Approvals	CE mark	Fire resistant	Material base	Utilisation
TBA	M6, M8, M10, M12, M14, M16, M20, M24	Urban furniture Shelves Fences General fixings	Wide range of sizes and lengths Full thread Fast installation of the anchor Reliable and cheap solution	Zinc-plated				Non-cracked concrete Cracked concrete Natural dense stone Solid brick Hollow brick	Regular depth Reduced depth Direct load Through installation Resistant to corrosion

CHARACTERISTICS

- Easy installation.
- For use in cracked and non-cracked concrete.
- For medium-high loads.
- Previous installation, or at the drilling of the material to be fixed.
- Wide range of lengths and diameters available; installation flexibility.
- For static or almost static loads.

APPLICATIONS-USE

- Anchoring sheets
- Metallic structures
- Bridges
- Traction concrete
- Urban furniture
- Protection fences
- Overhead power cabling
- Elevators
- Pipe supports



CHARACTERISTIC RESISTANCE

Characteristic resistances* in concrete C20/25** for an isolated anchor (without spacing and edge distances effects) are as per this table :

METRIC	M6	M8	M10	M12	M14	M16	M20
Minimum anchor length for which these data are applicable	60	75	90	110	120	125	170
$N_{R,k}$ tension [KN]	7.7	12.0	16.0	25.0	30.0	35.0	50.0
$N_{R,k}$ shear [KN]	<u>5.1</u>	<u>9.3</u>	<u>14.7</u>	<u>20.6</u>	<u>28.1</u>	<u>38.4</u>	<u>56.3</u>

RECOMMENDED SAFETY FACTORS

SAFETY COEFFICIENTS		REDUCTION COEFFICIENT FOR RESISTANCES		INCREASING COEFFICIENT FOR LOADS
		CONCRETE FAILURE	STEEL FAILURE	
Zinc plated	Tension	1.80	<u>1.40</u>	1.4
	Shear	--	<u>1.25</u>	

APPLICATION / USE



TBA

Zinc plated.

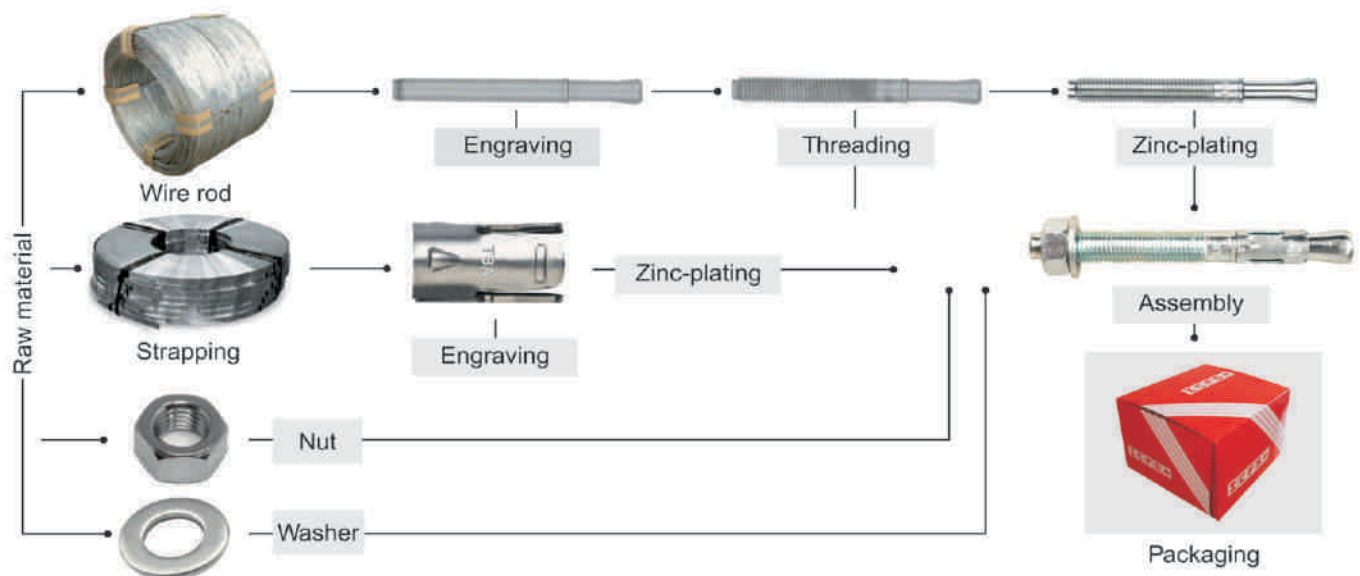
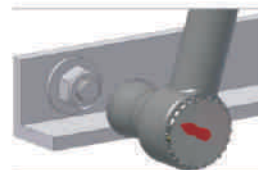
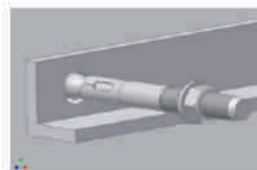
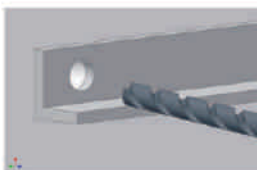


CODE	SIZE	MAX. FIXTURE THICKNESS	QUANTITY	
TBA875	M-8 x 75	5	100	600
TBA890	M-8 x 90	20	100	600
TBA8115	M-8 x 115	45	100	400
TBA1080	M-10 x 80	–	100	400
TBA1090	M-10 x 90	10	100	400
TBA10100	M-10 x 100	20	100	400
TBA10120	M-10 x 120	40	50	300
TBA10150	M-10 x 150	60	50	200
TBA1275	M-12 x 75	5	50	300
TBA12100	M-12 x 100	8	50	200
TBA12120	M-12 x 120	28	50	200

Stainless Steel 304 (A2)

TBA1090 (A2)	M-10 x 90	10	100	400
TBA12130 (A2)	M-12 x 130	28	50	200

CODE	SIZE	MAX. FIXTURE THICKNESS	QUANTITY	
TBA12150	M-12 x 150	48	50	200
TBA16100	M-16 x 100	–	25	150
TBA16125	M-16 x 125	5	25	100
TBA16145	M-16 x 145	25	25	100
TBA16170	M-16 x 170	48	25	75
TBA16200	M-16 x 200	98	25	50
TBA16250	M-16 x 250	128	25	50
TBA20170	M-20 x 170	23	20	40
TBA20220	M-20 x 220	73	20	40
TBA20270	M-20 x 270	123	20	40
TBA24200	M-24 x 200	4	10	20
TBA24250	M-24 x 250	84	10	20

MANUFACTURING PROCESS OF THE TBA ANCHOR**INSTALLATION PROCEDURE**

TBA Through Bolt Anchor

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]
TBA	TBA0875	8	65	60	75	5	35, 5	8	13	16 X 1.6	20
TBA	TBA0890	8	65	60	90	20	50, 5	8	13	16 X 1.6	20
TBA	TBA08120	8	65	60	120	50	80, 5	8	13	16 X 1.6	20
TBA	TBA1075	10	55	52	75	8	38	10	17	20 X 2	35
TBA	TBA1090	10	70	67	90	10	46	10	17	20 X 2	35
TBA	TBA10100	10	70	67	100	20	56	10	17	20 X 2	35
TBA	TBA10150	10	170	70	150	70	106	10	17	20 X 2	35
TBA	TBA12100	12	75	70	100	23	45	12	19	24 X 2, 5	60
TBA	TBA12120	12	85	77	120	28	65	12	19	24 X 2, 5	60
TBA	TBA12150	12	85	77	150	58	95	12	19	24 X 2, 5	60
TBA	TBA12250	12	85	77	250	158	145	12	19	24 X 2, 5	60
TBA	TBA16100	16	75	69	100	15	32	16	24	30 X 3	120
TBA	TBA16145	16	110	104	145	23	77	16	24	30 X 3	120
TBA	TBA16200	16	110	104	200	78	132	16	24	30 X 3	120
TBA	TBA20170	20	175	125	170	27	99	20	30	37 X 3	240
TBA	TBA20220	20	175	125	220	77	149	20	30	37 X 3	240



CORPORATE OFFICE 198, E ward, Tararani Chowk, Near Geeta Mandir, Kolhapur-416 003 (Mah. India)
Tel.: 0231-2653908. Email : mail@in dospark.com

BRANCH

Islampur | Pune | Mumbai

www.indospark.com