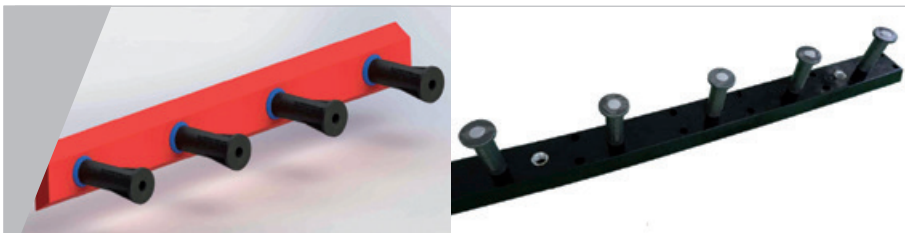


DANTERR SUPPLY THE COMPLETE BARTEK
COUPLER AND INSERT CONNECTIONS RANGE

BARTEK TBR Insert is a cast in-situ, headed ferrule that accepts a Reidbar™ starter bar to form a connection between pours in concrete structures. **Bartek** connections are used for two main applications – in the connection of precast panels; also between core walls and floor slabs.

After the placement of panel on-site / stripping of formwork on-site, the starter bar is simply screwed in until it is fully engaged in the insert. Installation of the Reidbar™ starter bar requires only six turns to fully engage bar, compared to 28 when using metric bar connection, thus producing massive time savings on site.

Bartek TBR Inserts and **Couplers** are a complete bar break system using 500mpa Reidbar™.



MECHANICAL TESTING REPORTS AVAILABLE FOR INSERTS AND COUPLERS ON OUR WEBSITE
WWW.DANTERR.COM

DANTERR SUPPLY THE FOLLOWING BARTEK CONNECTION SYSTEMS REQUIRING A REIDBAR™ STARTER BAR



TB Inserts



TB Couplers



Reidbar™ Starter Bars



TB Nail Plates

BARTEK TBR INSERT DESIGN DATA

Characteristic tensile strength of an anchor can be determined from the formula for NZS3101 Clause 17.5.7.2

$$N_{c,k} = k_1 \times f_{ck}^{0.5} \times h_{ef}^{1.5}$$

where:

$N_{c,k}$ = Characteristic Tensile Strength of a single anchor (kN)

$k_1 = 12.5$

f_{ck} = Characteristic concrete compressive strength (Mpa)

h_{ef} = Effective embedment depth of insert/anchor (mm)



Item Code	Description	Insert B mm	Insert A mm	Insert Length mm
TB12IR	TBR Insert 12mm to suit Reidbar	38	22	105
TB12IR-L	TBR Insert 12mm-L to suit Reidbar	38	22	150
TB16IR	TBR Insert 16mm to suit Reidbar	60	30	115
TB16IR-L	TBR Insert 16mm-L to suit Reidbar	60	30	165
TB20IR	TBR Insert 20mm to suit Reidbar	64	35	145
TB20IR-L	TBR Insert 20mm-L to suit Reidbar	64	35	185
TB25IR	TBR Insert 25mm to suit Reidbar	85	45	190
TB32IR	TBR Insert 32mm to suit Reidbar	85	45	190

BARTEK TBR INSERT DESIGN DATA TABLE

Insert + Usage	Insert Length (mm)	h_{ef} (mm)	f_{ck} (Mpa)	$N_{c,k}$ (kN)	$N_{c,k}$ (kN) at Anchor Spacings						
					150	200	250	300	350	400	450
TB12IR + Nail Plate or Board	105	109	32	80.5	36.9	49.2	61.5	73.8	80.5	80.5	80.5
			40	90.0	41.3	55.0	68.8	82.5	90.0	90.0	90.0
			50	100.6	46.1	61.5	76.9	92.3	100.6	100.6	100.6
TB12IR-L + Nail Plate or Board	150	154	32	135.1	43.9	58.5	73.1	87.7	102.4	117.0	131.6
			40	151.1	49.1	65.4	81.8	98.1	114.5	130.8	147.2
			50	168.9	54.8	73.1	91.4	109.7	128.0	146.2	164.5
TB16IR + Nail Plate or Board	115	119	32	91.8	38.6	51.4	64.3	77.1	90.0	91.8	91.8
			40	102.6	43.1	57.5	71.9	86.2	100.6	102.6	102.6
			50	114.7	48.2	64.3	80.4	96.4	112.5	114.7	114.7
TB16IR-L + Nail Plate or Board	165	169	32	155.4	46.0	61.3	76.6	91.9	107.2	122.6	137.9
			40	173.7	51.4	68.5	85.6	102.8	119.9	137.0	154.2
			50	194.2	57.5	76.6	95.8	114.9	134.1	153.2	172.4
TB20IR + Nail Plate or Board	145	149	32	128.6	43.2	57.5	71.9	86.3	100.7	115.1	128.6
			40	143.8	48.3	64.3	80.4	96.5	112.6	128.7	143.8
			50	160.8	53.9	71.9	89.9	107.9	125.9	143.9	160.8
TB20IR-L + Nail Plate or Board	185	189	32	183.7	48.6	64.8	81.0	97.2	113.4	129.6	145.8
			40	205.4	54.3	72.5	90.6	108.7	126.8	144.9	163.0
			50	229.7	60.8	81.0	101.3	121.5	141.8	162.0	182.3
TB25IR + Nail Plate or Board	190	194	32	191.1	49.2	65.7	82.1	98.5	114.9	131.3	147.7
			40	213.6	55.1	73.4	91.8	110.1	128.5	146.8	165.2
			50	238.8	61.6	82.1	102.6	123.1	143.6	164.1	184.7