



Non-Domestic Hollow Injection Bar



Williams Form Engineering is proud to offer our first “T” threaded hollow bar anchors to our customers in the N American market. These bars utilize the durable “T” thread pattern, which has proven to be durable for drilling and allows for readily-available tooling and drill bit options. These bars are cost effective for a variety of applications, but will not meet “Buy American” standards required on Federally funded projects.

B7Y1 Hollow Injection Bar

Bar	Nominal Outer Diameter	Average Inner Diameter	Minimum Net Area Through Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Part Number
T40N	40 mm (1.57")	20 mm (0.79")	1.046 in ² (675 mm ²)	121 kips (539 kN)	96.7 kips (430 kN)	4.23 lbs/ft (6.3 Kg/M)	B7Y1-40
T40S	40 mm (1.57")	16 mm (0.63")	1.222 in ² (788 mm ²)	148 kips (660 kN)	118 kips (525 kN)	4.84 lbs/ft (7.2 Kg/M)	B7Y1-40X
T52N	52 mm (2.05")	24 mm (0.94")	1.874 in ² (1209 mm ²)	209 kips (929 kN)	164 kips (730 kN)	6.92 lbs/ft (10.3 Kg/M)	B7Y1-52

Advantages

- Fast, single-step anchoring system with simple equipment.
- Eliminates the need for a cased borehole in collapsing soils.
- Efficient installation since drilling and grouting can be performed in a single operation, saving both time and money.
- Continuously drilling and grouting under high pressure causes the grout to permeate into looser soils and creates a bulb-effect for increased bond capacity.
- Suitable for working in limited space and areas of difficult access.
- Multiple ranges of drill bits suitable for most soil conditions.
- Installed with standard track drill (top hammer) or hand-held drilling equipment, eliminating the need for larger casing rigs.
- Continuously threaded bar pattern can be cut and coupled anywhere along its length.
- Corrosion protection systems available upon request.
- Available in 3 meter (9' 10") lengths.

B7YB Drill Bits

Bar Diameter	Available Drill Bits		
	CC	SB	BB
T40	3" (76 mm)	6" (152 mm)	2-1/2" (65 mm)
	4" (102 mm)		3" (76 mm)
T52	4" (102 mm)	7" (178 mm)	-

CC Drill Bit - Tungsten carbide cross-cut drill bit. Excellent choice for majority of granular soils with mixed hard formations.

Soil Types: Fills, Gravels, Shale & Seamy Rock Formations.

SB Drill Bit - Clay bit, suitable for loose ground and fills.

Soil Types: Sand, Clay and Medium Dense Clays

BB Drill Bit - Tungsten carbide hemispherical button drill bit for moderately strong to strong rock, boulders and rubble.

Rock Types: Mudstone, Limestone, and Granite

B7Y2 Stop-Type Coupling

Bar	Outer Diameter	Overall Length	Part Number
T40N	2-1/8" (54 mm)	5-1/2" (140 mm)	B7Y2-40
T40S	2-1/8" (54 mm)	5-1/2" (140 mm)	B7Y2-40X
T52N	2-3/4" (70 mm)	6-1/4" (160 mm)	B7Y2-52

B7Y3 Hex Nut

Bar	Across Flats	Thickness	Part Number
T40N	2-1/2" (65 mm)	2" (50 mm)	B7Y3-40
T40S	2-1/2" (65 mm)	2" (50 mm)	B7Y3-40X
T52N	3-1/8" (80 mm)	2-3/4" (70 mm)	B7Y3-52

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