

## DYWI® Drill Hollow Bar Properties

Bar Des.	Nominal Outer Diameter		Average Yield Strength (f <sub>y</sub> )		Average Ultimate Tensile Strength (f <sub>u</sub> )		Average Cross Section Area (A <sub>s</sub> )		Yield Load (f <sub>y</sub> x A <sub>s</sub> )		Ultimate Load (f <sub>u</sub> x A <sub>s</sub> )		Nominal Weight	
	[in]	[mm]	[ksij]	[Mpa]	[ksij]	[Mpa]	[in <sup>2</sup> ]	[mm <sup>2</sup> ]	[kips]	[kN]	[kips]	[kN]	[lbs/ft]	[kg/m]
R25N	1.00	25	90	620	120	830	0.37	240	34	150	45	200	1.28	1.90
R32N	1.26	32	94	650	116	800	0.54	350	52	230	63	280	1.81	2.70
R32S	1.26	32	94	650	120	830	0.67	430	63	280	81	360	2.28	3.40
R38N	1.50	38	97	670	122	840	0.91	590	90	400	112	500	3.16	4.70
R51L	2.00	51	87	600	107	740	1.15	740	101	450	124	550	3.97	5.90
T40N	1.57	40	99	680	123	850	1.19	770	118	525	148	660	4.03	6.00
R51N	2.00	51	97	670	123	850	1.46	940	142	630	180	800	4.97	7.40
T76N	3.00	76	83	570	110	760	3.22	2,080	270	1,200	360	1,600	10.95	16.30
T76S	3.00	76	87	600	112	770	3.81	2,460	337	1,500	427	1,900	12.97	19.30
T103N	4.00	103	81	560	103	710	4.96	3,200	405	1,800	517	2,300	16.80	25.00
T103S	4.00	103	74	510	103	710	8.06	5,200	600	2,670	832	3,700	26.88	40.00

Note: Maximum allowable temporary tension is the yield load. Cross section area is based on average internal diameter of the bar. The ultimate tensile and yield strength are calculated average values. Standard length = 9'-10" (3 m). Other lengths available on special order.

## DYWI® Drill Hollow Bar Hardware Dimensions

DYWI® Drill Hollow Bar Designation	Hexnut Length H		Coupler Length B		Coupler Outer Diameter ØC		Maximum Angle Compensation* α	Beveled Washer Diameter** ØV	
	[in]	[mm]	[in]	[mm]	[in]	[mm]		[degrees]	[in]
R25N	2.44	62	5.91	150	1.42	36	21	2.26	57
R32N	2.56	65	6.30	160	1.65	42	20	2.88	73
R32S	2.56	65	6.30	160	1.65	42	20	2.88	73
R38N	3.15	80	7.09	180	2.01	51	21	3.20	81
R51L	3.54	90	7.87	200	2.48	63	30	5.18	132
R51N	3.54	90	7.87	200	2.48	63	30	5.18	132
T40N	2.68	68	6.30	160	2.24	57	20	3.27	83
T76N	3.15	80	8.66	220	3.82	97			
T76S	3.15	80	8.66	220	3.82	97			
T103N***	3.54	90	8.66	220	4.92	125			
T103S***	4.72	120	10.24	260	5.71	145			

Coupler and hexnut develop the nominal full load of the hollow bar

\*Using two washers in a set.

\*\*Custom beveled washers can be made. Consult DSI Sales Engineer

Bearing plates can be custom made in any size from steel material conforming to ASTM A36 or A572 grade 50

\*\*\*T103 hardware are special order only

DYWI® Drill Hollow Bar

