

THREADBAR® REINFORCING SYSTEMS

TIE ROD CONNECTIONS

Anchorage in different variations for steel and concrete structures

- Clevis connection
- Eye anchor connection
- Welded connection
- Embedded connection
- Plate-nut connection

FEATURES

- Articulated
- Angle compensating
- Self-aligning under load
- Tensionable

COUPLERS AND CONNECTIONS

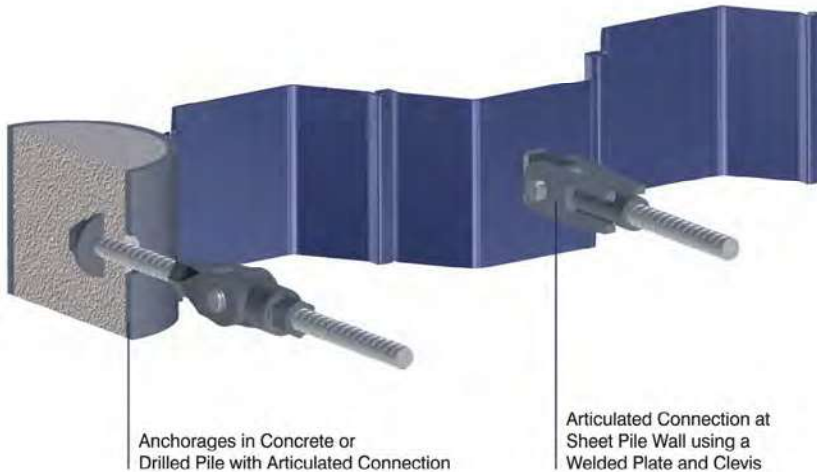
COUPLER



TURNBUCKLE



DOUBLE EYE ANCHOR CONNECTION



GRADE 75, 80 & 100 THREADBAR® – REINFORCING STEEL PER ASTM A615

THREADBAR® Designation	Maximum THREADBAR® Diameter			Minimum Yield Stress (f_y)		Nominal Cross Section Area (A_s)		Minimum Yield Load ($f_y \times A_s$)		Nominal Weight	
	mm	in	mm	ksi	MPa	in ²	mm ²	kips	kN	lbs/ft	kg/m
GRADE 75 and 80											
#6	19	0.86	22	75	517	0.44	284	33.0	147	1.50	2.23
#7	22	0.99	25	75	517	0.60	387	45.0	200	2.04	3.04
#8	25	1.12	28	75	517	0.79	510	59.3	264	2.67	3.97
#9	29	1.26	32	75	517	1.00	645	75.0	334	3.40	5.06
#10	32	1.43	36	75	517	1.27	819	95.3	424	4.30	6.40
#11	36	1.61	41	75	517	1.56	1,006	117.0	520	5.31	7.90
#14	43	1.86	47	80	552	2.25	1,452	180.0	801	7.65	11.38
#18	57	2.50	64	80	552	4.00	2,581	320.0	1,423	13.60	20.24
#20	63	2.72	69	80	552	4.91	3,168	393.0	1,748	16.70	24.85
#24 ¹⁾	75	3.18	81	75	517	7.06	4,555	529.5	2,355	24.09	35.85
#28 ¹⁾	90	3.68	94	75	517	9.62	6,206	721.5	3,209	32.79	48.80
GRADE 100											
#6	19	19	22	100	689	0.44	284	44.0	196	1.50	2.23
#7	22	22	25	100	689	0.60	387	60.0	267	2.04	3.04
#8	25	25	28	100	689	0.79	510	79.0	351	2.67	3.97
#9	29	29	32	100	689	1.00	645	100.0	445	3.40	5.06
#10	32	32	36	100	689	1.27	819	127.0	565	4.30	6.40
#11	36	36	41	100	689	1.56	1,006	156.0	694	5.31	7.90
#14	43	43	47	100	689	2.25	1,452	225.0	1,001	7.65	11.38
#18	57	57	64	100	689	4.00	2,581	400.0	1,779	13.60	20.24
#20	63	63	69	100	689	4.91	3,168	491.0	2,184	16.70	24.85

Note: Maximum allowable temporary tension is 90% of yield load. Mill length is 60 ft (#6 through #20) and 53 ft for #24 and #28.

¹⁾ Threadbar sizes not listed by ASTM A 615 but yield strength is in conformance with A615 standard.