

BOLT DATA

Table A4.1-1; ASTM A307 Bolt Capacities (Standard in Cable Kits)

Bolt Size (in)	Thread Minor Diameter (in)	Thread Minor Area (in ²)	Allowable Tensile Load (ASD) (lbs)	Allowable Combined Load (ASD) (lbs)	Allowable Shear Load (ASD) (lbs)	Installation Torque (ft-lbs)
1/4-20 UNC	0.1894	0.0282	609	287	304	4
3/8-16 UNC	0.2992	0.0703	1,519	717	759	13
1/2-13 UNC	0.4069	0.1300	2,809	1,326	1,404	32
5/8-11 UNC	0.5152	0.2085	4,503	2,126	2,251	64
3/4-10 UNC	0.6291	0.3108	6,714	3,170	3,357	113
7/8-9 UNC	0.7408	0.4310	9,310	4,396	4,655	166
1-8 UNC	0.8492	0.5664	12,234	5,776	6,117	250

Table A4.1-2; ASTM A325 Bolt Capacities (Special for Cable Kits When Required)

Bolt Size (in)	Thread Minor Diameter (in)	Thread Minor Area (in ²)	Allowable Tensile Load (ASD) (lbs)	Allowable Combined Load (ASD) (lbs)	Allowable Shear Load (ASD) (lbs)	Installation Torque (ft-lbs)
1/4-20 UNC	0.1894	0.0282	1,555	734	778	8
3/8-16 UNC	0.2992	0.0703	3,881	1,832	1,941	31
1/2-13 UNC	0.4069	0.1300	7,178	3,389	3,589	75
5/8-11 UNC	0.5152	0.2085	11,507	5,433	5,754	150
3/4-10 UNC	0.6291	0.3108	17,158	8,101	8,579	266
7/8-9 UNC	0.7408	0.4310	23,792	11,233	11,896	429
1-8 UNC	0.8492	0.5664	31,264	14,761	15,632	644

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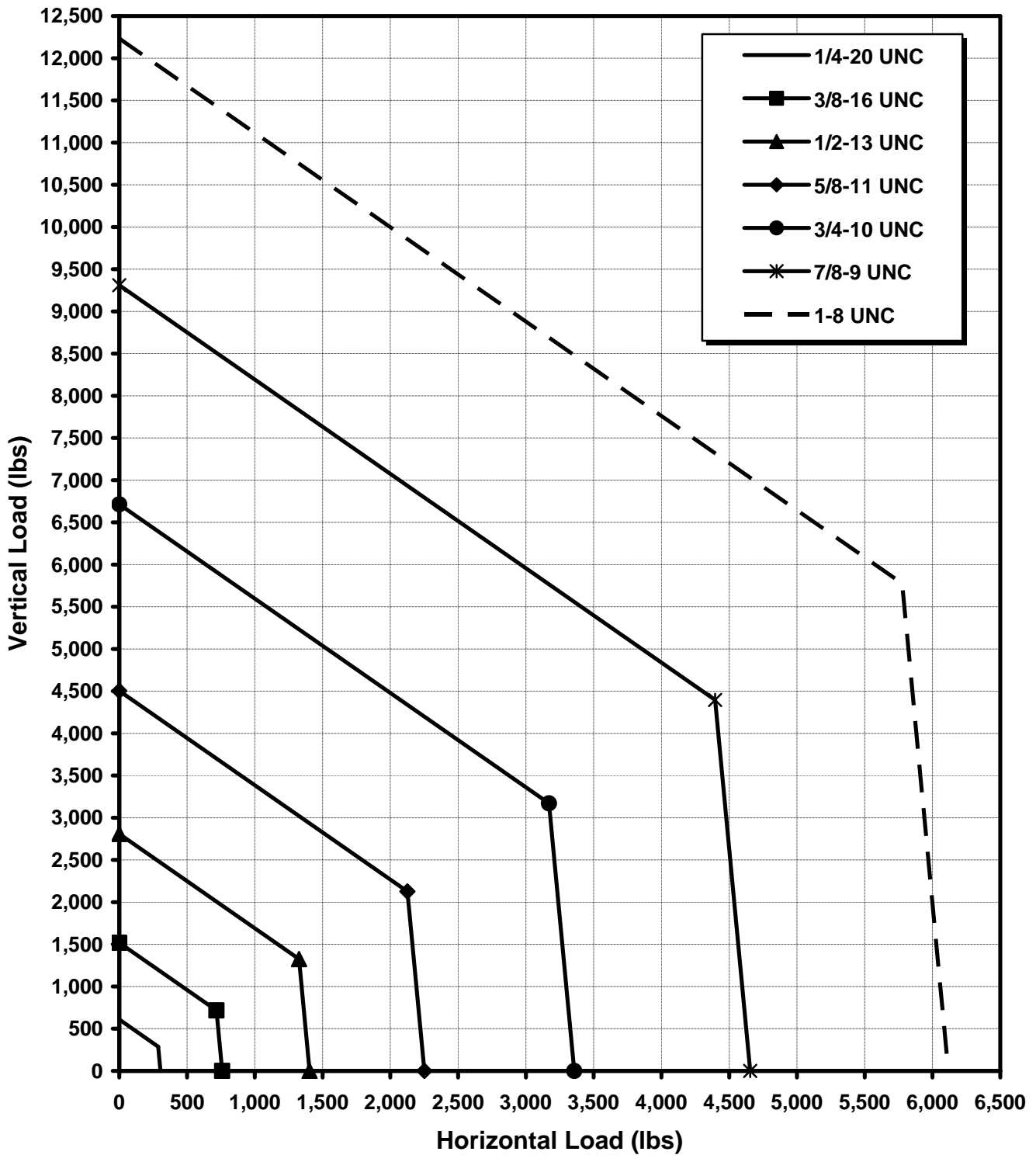


Figure A4.1-1; Seismic Capacity Envelopes for ASTM A307 Bolts

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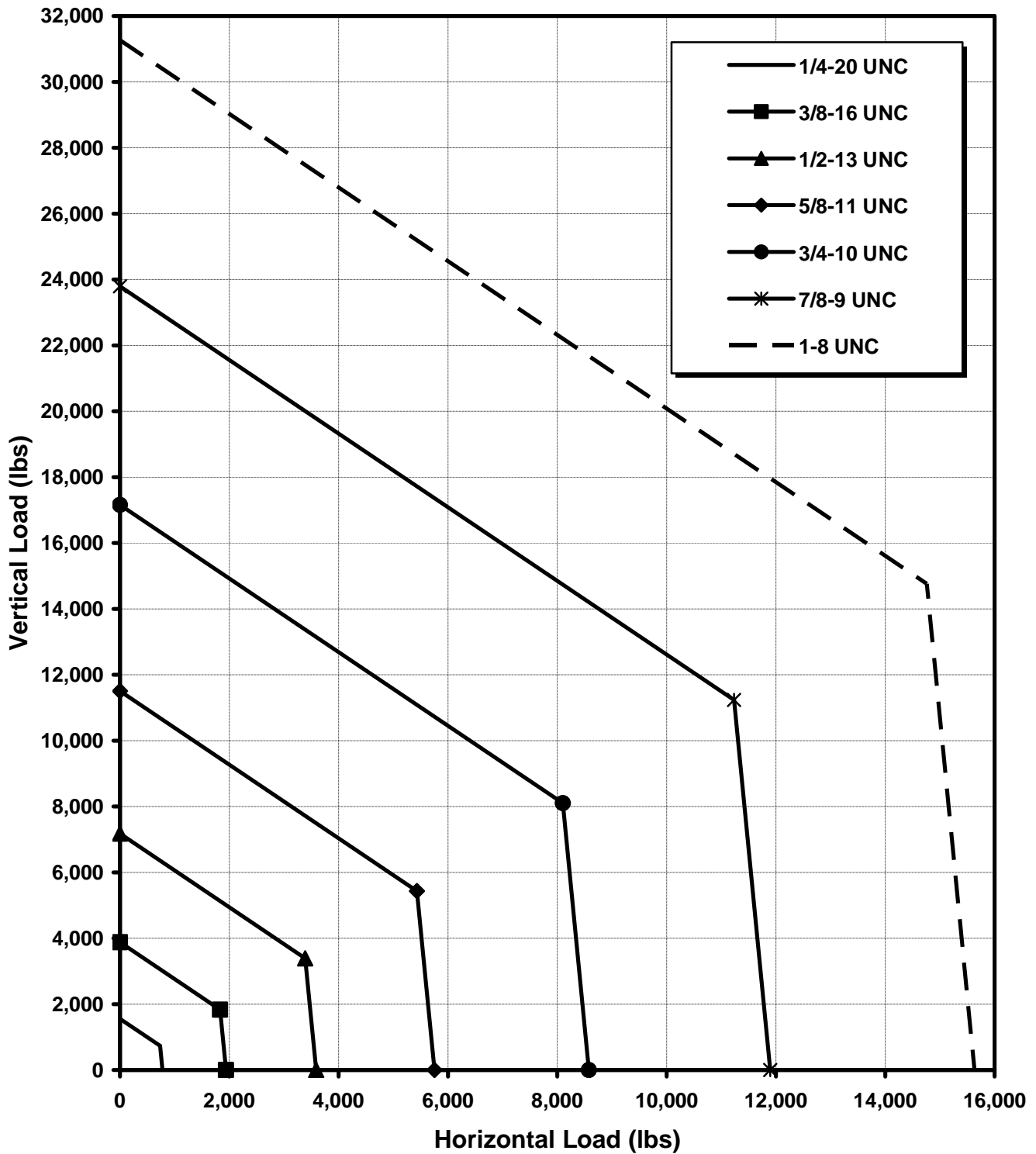


Figure A4.1-2; Seismic Capacity Envelopes for ASTM A325 Bolts

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