Strong-Rod® ATS Components

D Steel Threaded Rod

Fully threaded rods (all-thread rod) are also available in standard-strength, high-strength rod material in diameters up to 2". When placing the rod, the most commonly used procedure involves dropping in (or pushing up) the rod through the drilled holes in the flooring system after framing has been completed. Drilled holes through the sill plate and flooring system should be completed with one continuous drilling action. See installation animations for further description at **strongtie.com/srs.**

Fully Threaded Rod

Standard-Strength, Fully Threaded Rod

Model No.	Rod Diameter (in.)	Allowable Tension Capacity (lb.) [2]	F_y (ksi)	F_u (ksi)
ATR3/8	⅜	2,400	36	58
ATR1/2	½	4,270	36	58
ATR5/8	⅝	6,675	36	58
ATR3/4	¾	9,610	36	58
ATR7/8	⅞	13,080	36	58
ATR1	1	17,080	36	58
ATR1-1/8	1⅛	21,620	36	58
ATR1-1/4	1¼	26,690	36	58
ATR1-3/8	1⅜	32,295	36	58
ATR1-1/2	1½	38,435	36	58
ATR1-3/4	1¾	52,315	36	58
ATR2	2	68,330	36	58

1. Allowable tension capacities are based on AISC 360-16.
2. No further increase in allowable load is permitted.
3. In accordance with ANSI/ASME B1.1, thread specification for threaded rod must be UNC Class 2A for high-strength rod and may be either Class 2A or Class 1A for standard-strength rod.

Naming Legend

ATR1/2

- ATR: All Thread Rod
- 1/2: Rod Diameter in inches

High-Strength, Fully Threaded Rod

Model No.	Rod Diameter (in.)	F_y (ksi)	F_u (ksi)	Allowable Tension Capacity (lb.)[2]
ATS-HSR5	⅝	92	120	13,805
ATS-HSR6	¾	92	120	19,880
ATS-HSR7	⅞	92	120	27,060
ATS-HSR8	1	92	120	35,345
ATS-HSR9	1⅛	105	125	46,595
ATS-HSR10	1¼	105	125	57,525
ATS-HSR11	1⅜	105	125	69,605
ATS-HSR12	1½	105	125	82,835
ATS-HSR14	1¾	105	125	112,745
ATS-HSR16	2	105	125	147,260

1. Allowable tension capacites are based on AISC 360-16.
2. No further increase in allowable load is permitted.
3. Available in one foot increments up to 12 feet.
4. Note that rod strength and allowable tension capacity, if using Steel Strong-Rods (ATS-SRxH) for 1⅛" and 1¼" rod diameters, are associated with 120 ksi rod steel. When ATS-SRxH and ATS-HSRx are used in the same ATS run or calculation set between restraints, the 120 ksi ATS-SRxH will govern.

Naming Legend

ATS-HSR9

- ATS: Anchor Tiedown System
- HSR: High Strength
- 9: Rod Diameter in ⅛" Increments (Ex: 9 = ⅝" or 1⅛")
- Rod

Fully Threaded Rod Material

Standard Strength Steel, ATR:
ASTM F1554 Grade 36 or
ASTM A307 Grade A; F_u = 58 ksi

High-Strength Steel, ATS-HSRx:
(up to 1" dia.) — ASTM A449; F_u = 120 ksi
(1⅛" and larger dia.) — ASTM A193 Grade B7 or F1554 Grade 105; F_u = 125 ksi