

INSTALLATION GUIDE

SUPER THREAD™

FIBERGLASS FORM-TIE SYSTEMS



2,500 Lbs Safe Working Load

NEVER PATCH . . . NEVER RUST

SMALLEST THREADED DIAMETER (3/8")
SMALL TO MIDSIZE PROJECTS



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SuperThread™ Fiberglass Form Tie System is used to secure concrete form work during concrete placement and initial hydration, without the inherent limitations of previously popular steel form tie systems. SuperThread™ system eliminate the possibility of rust stains as well as the structural deterioration often caused by failure of patching for steel form tie holes. SuperThread™ Systems is appropriate for use in all forming applications but are especially beneficial in situations such as architectural finishes.

- 1. Superior Finishes:** Improved architectural finishes, without patches or rust.
- 2. No Corrosion:** The fiberglass form tie material cannot rust, eliminating the need to have a break-back and the need for subsequent plugging and patching to forestall rust.
- 3. Saves Money:** Saves dramatically on labor costs. Reduces form-tie related costs as much as 70%. Reduced Inventory: One size fits any wall. Bulk lengths are cut to the working measurements at the jobsite.
- 4. Extends Form Life:** All forms and form liners strip easily from the structure without damage from the ties.
- 5. Natural Insulator:** Fiberglass tie, which is left in the structure, is electromagnetically transparent, making it ideal for special situations where magnetic or electrical interference is undesirable. Fiberglass will not promulgate radio frequency and shields nuclear energy.
- 6. Compatible:** SuperThread™ systems are compatible with all job-built and commercially available forming systems.



(800) 344-4753
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RJD SuperThread™ Fiberglass Rod System (.375")

Non-Corrosive Fiberglass Threaded Rod

RJD SuperThread™ Fiberglass Rod, utilizes a specially blended and formulated custom engineered resin providing ultimate tensile strength and maximizing our STN375 Nut strength. The RJD SuperThread™ Fiberglass Rod will never rust thus eliminating the need for breakback, plugging and patching, providing a superior architectural finish.

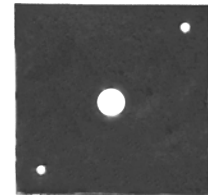
SuperThread™ Nut – STN375

SuperThread™ Nut offers a safe working load of 2,500 pounds and is most commonly used with the jobsite-built (plywood and 2x4) forms and most modular forms.



SuperTie™ Bearing Plate – BP615

The SuperTie™ Bearing Plate is a 4"x4" steel plate and fits SuperThread™ systems. The SuperTie™ bearing plates are a required component of the "SuperTie™ System Family" when using a wooden forming system.

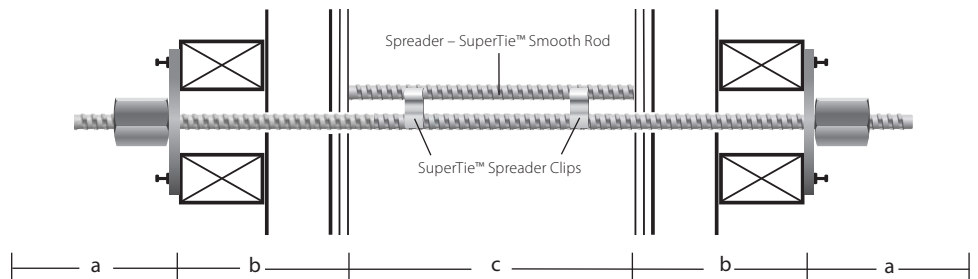


Ordering SuperThread™ Rods

Formula for a 12" thick structure [2
(a) + 2 (b) + c = required materials]

Example:

a. (2) 4.75" Nuts + Rod Tails	4.5"
b. (2) 7.75" forms width	15.5"
c. Structure width	12"
Total rod length needed.....	32"



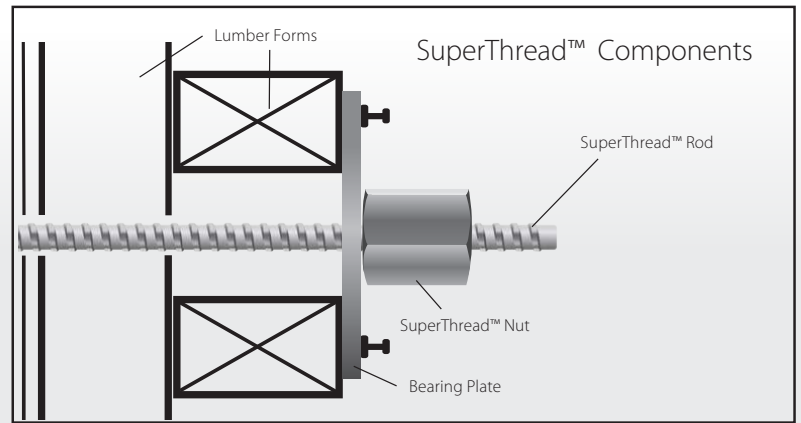
Note: Cut fiberglass rod using a diamond blade.

INSTALLATION STEPS

SUPER THREAD™

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2,500 Lbs Safe Working Load



Slide the fiberglass rod through the form. Short lengths of fiberglass rod can be used as internal spreaders; these spreaders can be either tied to the rebar cage, or attached to the tie rod by using two Spreader Clips.



Slip Bearing Plate and screw nut onto the fiberglass rod. For a battered wall, add wedge shaped spacers so that the fiberglass rod is kept straight. The strength of a bent rod is significantly reduced.



Lock the nut onto the fiberglass rod by hand tightening, and then with a wrench (or drill), a 3/4 turn clockwise. On the opposite side of the form, lock another nut onto the fiberglass rod. (DO NOT OVERTIGHT)



You are now ready to place concrete.



After concrete is cured, cut the fiberglass rod between the nut and the form.



After removing the forms, you will see short lengths of fiberglass rod sticking out of your structure.



To ensure protection of exposed concrete surface, drill sheet metal 3/8" hole and slide over rod, then cut.



Grind the stubs of fiberglass rod off flush to the concrete structure using a grinder with a diamond blade.



The tie will nearly disappear. No breakback. No plugging. No patching.

Warning: Once SuperThread™ installation is complete, the tie must be completely straight through the formwork. Any bending, bowing, sagging, or deflection will drastically lower tie strengths and could result in failure.



Tie spacing is determined by standard industry practices based on ACI 347R-14. Always review formwork design, concrete mix and special on-site conditions with a qualified Engineer to determine proper Form Tie spacing. Examples of approximate tie spacings at common placement rates are shown below.
2,500 Lbs Safe Working Load

Always refer to ACI347R-14 Guide to Formwork for exact calculations	
$R < 7 \text{ ft/hr}$ $P = 150 + (9000 \times R)/T$ <i>(without any admixture)</i>	$R > 7 \text{ ft/hr but } < 14 \text{ ft/hr}$ $P = 150 + (43,400/T) + (2800 \times R)/T$ <i>(without any admixture)</i>
KEY: P = Concrete Lateral Pressure, lb/ft ² • W = Unit Weight of Concrete, lb/ft ³ • H = Height of Concrete Placement, ft R = Rate of Placement, ft/h • T = Temperature of Concrete, °F	

Ambient temp. @ time of pour (°F)			Form Tie Spacing		Form Tie Values		
40°	60°	80°					
Rate of Concrete Placement: ft/hr			Horz.	Vert.	Area ft ²	Pressure (psf)	S.W.L. (lb)
5' 6"	7'	8'	16"	16"	1.78	1,404	2,500
4'	6'	7'	18"	18"	2.25	1,111	2,500
3'	5'	6' 6"	20"	20"	2.77	902	2,500
2'	3'	4'	24"	24"	4.00	625	2,500

NOTE: Tables are relative to SuperTie™ Form Tie approximate spacing only. The contractor must consider industry standards for other formwork components, sheeting, accessory lumber and commercially available formwork strengths. Always review formwork design, concrete mix and special on-site conditions with a qualified Engineer to determine proper Form Tie spacing.

For assistance Calculating SuperTie™ Material List and Quantities, please call RJD Industries LLC

COMPONENT LIST

Product Code	Description	Packaging	Ship Wt.
STR375	SuperThread Fiberglass Rod, .375" dia., SuperThread System	116" in lengths, but can be cut to size packaging depends on rod size	1.2 lbs / 116" bar
STN375	1.25" length Nut for SuperThread FRP Rod	100 per box	33 lb
BP615	Bearing Plate	50 per box	55 lb
SC6000	Spreader Clip	100 per bag	9 oz.

For custom rod lengths and/or custom colors, please call for quote and lead times.

IMPORTANT: When determining tie spacings, refer to guidelines in ACI 347R-14. All formwork load calculations shall be performed by a qualified engineer. Failure to do so may result in form failure or injury.

scan for a distributor



RJD Industries, LLC
(800) 344-4753 • rjdindustries.com

SuperTie™ Systems are sold exclusively through quality construction materials dealers. Scan the QR code to see our distributor locations or just call us for the name of the dealer nearest you.