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## THREADBAR® Reinforcing System

### System Description

Components of the THREADBAR® Reinforcing System are manufactured in the United States and Canada exclusively by DYWIDAG-Systems International.

THREADBAR® Reinforcing Steel is available in Grades 60 and 75 for sizes #6 through #8, Grade 75 for #9 through #18, and Grade 80 for 63 mm bar. Grade 60 and 75 conform to the requirements of ASTM A615, except in markings. THREADBAR® may be shipped to the job in 40 foot to 60-foot mill lengths or fabricated to specifications.

THREADBAR® Reinforcing Steel has a continuous rolled-in pattern of thread-like deformations along its entire length. More durable than machined threads, the deformations allow nuts and couplers to thread onto a Threadbar at any point along its length.

Unlike some splices, the DYWIDAG Splice may be installed in adverse weather conditions and does not create a fire hazard. As opposing THREADBAR® need only to be chalk marked before assembly to assure proper engagement, supervision and quality control requirements are minimized.

The THREADBAR® reinforcing system offers a simple, reliable and economical splice. A DYWIDAG Splice requires less labor time for assembly than is required for welded or swaged splices.

### Coupler with Lock Nuts

Lock nuts may also be used with the DYWIDAG Coupler when opposing THREADBAR® are not torqued together. Using lock nuts described in the table below, the splice will develop the full ultimate load of the bar in tension and approximately 50 % of the ultimate load of the bar in compression.

### Coupler

When opposing THREADBAR® are torqued together, the DYWIDAG Coupler may be used without nuts. Using couplers described in the tables below, the splice will develop the full ultimate load of the bar in tension and compression.

Nuts and Couplers, which develop 125 % of the yield stress of the bar, are available on special order.

### Coupler with Hex Nuts

When opposing THREADBAR® are not torqued together, hex nuts may be used on each end of the coupler, and tightened against the coupler. Using hex nuts described in the table below, the splice will develop the full ultimate load of the bar in tension and compression. DYWIDAG Couplers and hex nuts develop the full ultimate load of the THREADBAR®. Slippage of the coupler under stress is controlled by torqueing opposing THREADBAR® together or by using lock nuts. The magnitude of the torque required varies with the allowable slip and THREADBAR® size.

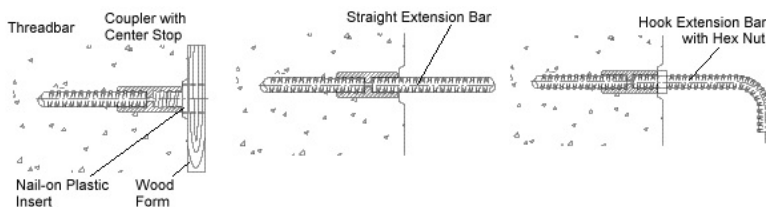
Properly sawed or sheared, THREADBAR® do not require end preparation except where the coupler is utilized without nuts as compression splice. Transition couplers for splicing two THREADBAR® of different sizes are also available on special order.

### Coated Bars

THREADBAR® may be epoxy-coated in accordance with ASTM A775 or galvanized in accordance to ASTM A123. Threaded accessories for coated bars thread over coating. Contact DSI for hardware dimensions.

### Form Saver Splice Inserts

Plastic, nail-on coupler inserts are available in bar sizes #6 thru #9 to facilitate field installation of DYWIDAG Dowel Bar Splices.



**i** "GEWI®" is a registered and patented brand. Reference to this must be indicated when this brand is used by a third party. Misuse will be prosecuted (§§4, 14 German Brandlaw)