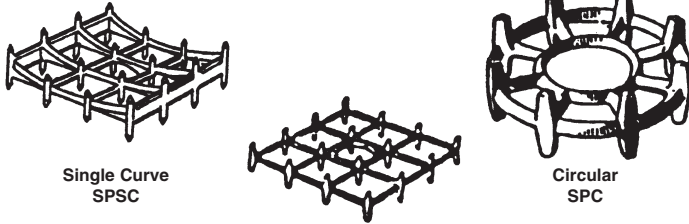




Spike Grid Timber Connector



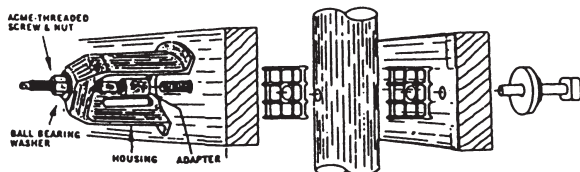
Spike Grids are used primarily in pole construction, docks, piling, wharves, and railroad and highway bridges or trestles. Flat and circular grids are used between sawn timbers, while single curve grids are used between round piles or poles and sawn members.

Manufactured from malleable iron in accordance with current ASTM Specification A-47, Grade 32510.

Spike Grids are available in 3 types: flat, single curve, and circular. Single curve fits between one rounded and one flat member. Circular fits between two flat or curved members. Flat fits between two flat members. Also available galvanized to ASTM A-153.

Install with grid applicator or hydraulically, cannot be installed by tightening standard nut.

Type	Size	Depth	Bolt Hole Dia.	Bolt Dia. (max)	Lumber Min. Dimensions	
					Grid in One Face	Grid in Both Face
Flat	4-1/8" x 4-1/8"	1"	1.06	1"	1-5/8" x 5-1/2"	2-5/8" x 5-1/2"
Single Curve	4-1/8" x 4-1/8"	1.38"	1.06	1"	1-5/8" x 5-1/2"	-
Circular	3-1/4" dia.	1.20"	1.33	1"	1-5/8" x 5-1/2"	2-5/8" x 5-1/2"



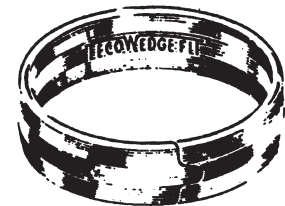
Installation Procedure

Teco Split Rings (Timber Rings)

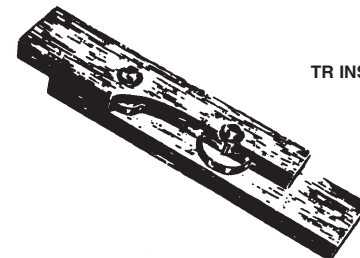
Material: Hot-rolled SAE 1010 carbon steel. Standard or galvanized. (see footnote)

Use: Split Rings are used primarily in the assembly of clear spans ranging from 20' to 250' and are available in 2-1/2" and 4" diameters. They are placed in specially made groove in overlapping members, and thus, the rings develop maximum strength in the joints by distributing the stress over a greater area. The special wedge shape of the ring section provides maximum tolerance for easy insertion, at the same time insuring a tight-fitting joint when the ring is fully inserted in the conforming groove. Generally, the 2-1/2" diameter ring is used for lighter trusses and trussed rafters utilizing 2" lumber, the 4" diameter ring is used for heavier trusses using 3" and heavier material. A separate publication for engineering design use data is available.

Conforming grooves for TECO Split Rings are cut with precision made grooving tools, available from CCS, which can be used in heavy duty 3/4" drills or in drill presses with 1/2" minimum chucks.



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Mfg. No.	Inside Diameter	Depth	Bolt Diam.	Lumber Min. Dimensions		Weight Per Carton	Pcs. Per Carton
				Ring In 1 Face	Ring In Bolt Face		
TECO-2.5	2-1/2"	3/4"	1/2"	1" x 3-1/2"	1-1/2" x 3-1/2"	40 lbs.	150
TECO-2.5G	2-1/2"	3/4"	1/2"	1" x 3-1/2"	1-1/2" x 3-1/2"	42 lbs.	150
TECO-4	4"	1"	3/4"	1" x 5-1/2"	1-1/2" x 5-1/2"	34 lbs.	50
TECO-4G	4"	1"	3/4"	1" x 5-1/2"	1-1/2" x 5-1/2"	35 lbs.	50

All Timber Connectors are also available when specified, with a hot-dip galvanized coating. The galvanizing specification for the malleable iron shear plates and spike grids is ASTM A-153, for Split Rings the specification is ASTM A-123.

Some connectors are available in other metals on special inquiry basis.

When making grooves or daps for galvanized connectors, it may be necessary to increase the width and depth of the groove to compensate for the galvanized coating. This is accomplished as follows: (1) loosen the socket set screw on the cutter blades(s) that cut outside diameter of groove, (2) insert shim material (try approx. 0.010") under cutter(s), (3) lower cutting depth of blade(s) approx. 0.010" and lighten set screw, (4) lower the other groove cutting blades the same amount, (5) check connector for good fit in grooves of mating pieces, adjust further if needed.