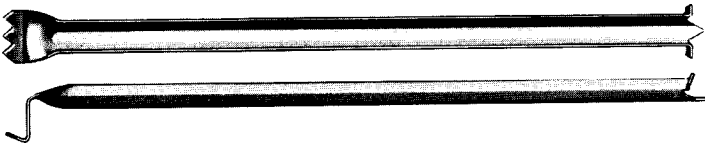


COMPRESSION BRIDGING



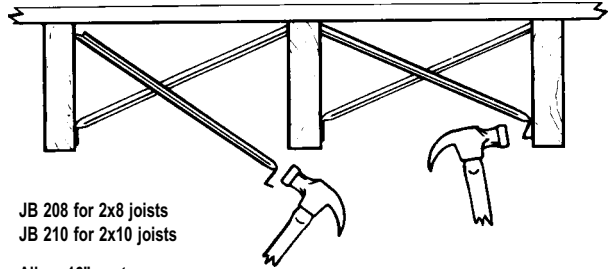
Compression Bridging installs very quickly after sub-flooring is in place. No nails required, only a hammer needed. Reduces labor cost by 75%.

Steel formed into a rigid channel shape. Single sharp barb penetrates readily at top, two ears bear cross-grain to limit penetration. Dogleg drives into joist to anchor lower end.

MATERIAL: 18 ga.

FINISH: Galvanized G60.

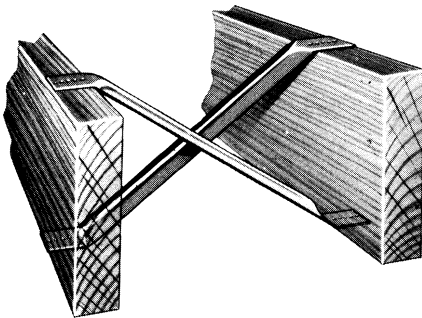
COMPRESSION CROSS BRIDGING FAST! EASY! PERMANENT!



JB 208 for 2x8 joists
JB 210 for 2x10 joists

All on 16" centers.

TENSION BRIDGING



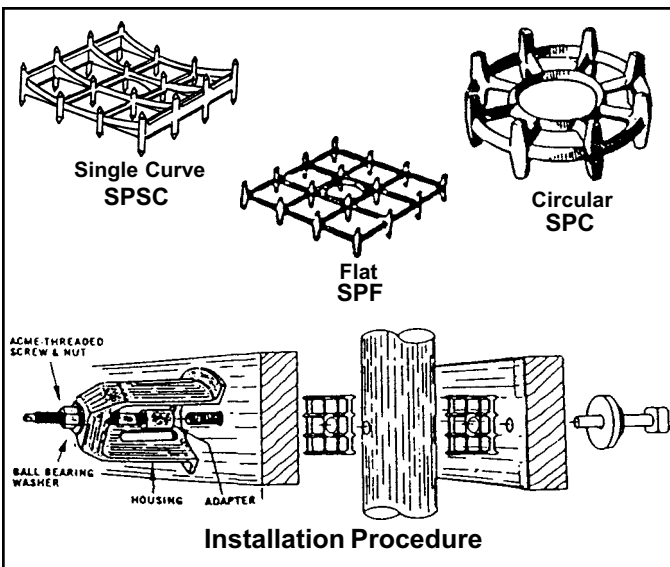
- TESTED
- STRONGER
- VERSATILE
- SAVES LABOR
- NEAT APPEARANCE

Joist Size	12" C-C	16" C-C	24" C-C
2 x 6	JB 20	JB 20	JB 27
2 x 8	JB 20	JB 20	JB 27
2 x 10	JB 20	JB 20	JB 27
2 x 12	JB 20	JB 20	JB 27
2 x 14	JB 20	JB 27	
4 x 8	JB 20	JB 20	JB 27
4 x 10	JB 20	JB 20	JB 27
4 x 12	JB 20	JB 20	
4 x 14	JB 20	JB 27	
4 x 16	JB 20	JB 27	

Joist Bridging	Steel Size	Recommended Nails Each End
JB 20E	22 ga. x 3/4"	(2) 10d

Two pieces make one X-set or pair.
All joist bridging is formed from galvanized steel.

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.

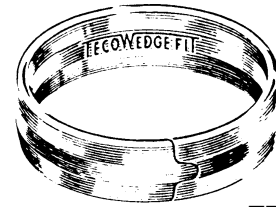
Type	Size	Depth	Bolt Hole Dia.	Bolt Dia. (max.)	Lumber Min. Dimensions	
					Grid in One Face	Grid in Both Face
Flat	4-1/8" x 4-1/8"	1"	1.06	1"	1-5/8" x 5-1/2"	2-5/8" x 5-1/2"
Single Curve	4-1/8" x 4-1/8"	1.38"	1.06	1"	1-5/8" x 5-1/2"	—
Circular	3-1/4" dia.	1.20"	1.33	1"	1-5/8" x 5-1/2"	2-5/8" x 5-1/2"

TECO SPLIT RINGS (TIMBER RINGS)

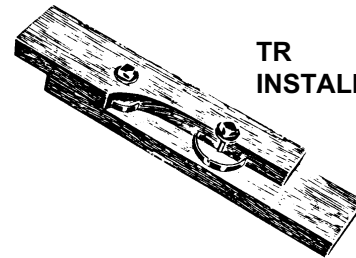
Material: Hot-rolled SAE 1010 carbon steel. Standard or galvanized. (see footnote)

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.



TR



TR
INSTALLED

Parts Number	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

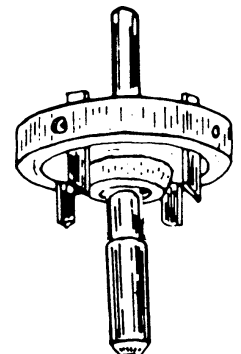
All Timber Connectors are also available when specified, with a hot-dip galvanized coating. The galvanizing specification for the malleable iron shear plates and spike grids is ASTM A-153, for Split Rings the specification is ASTM A-123.

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 blade(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 tighten 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.

TECO INSTALLATION TOOLS

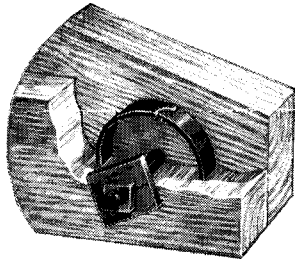
To cut groove or dap with either cutterhead:	Tools Needed to Groove for 2-1/2" Split Rings	Tools Needed to Groove for 4" Split Rings
Bolt holes are already drilled in the wood, insert a PILOT into the cutterhead: (A pilot is simply a guiding or centering device.)	TECO-301 Cutterhead (containing 4 blades)	TECO-302 Cutterhead (containing 6 blades)
	TE12-MRC Cutters for Teco 301 PILOT 562 Pilot for 301	TE14-MRC Cutters for Teco 302 PILOT 813 13/16" Pilot for 302 PILOT 938 15/16" Pilot for 302 TE7-M 3/4" Pilot for 302
Replacement cutter blade sets are available for all cutterheads.	Pilot sizes given in above tables are for the standard bolt for the connectors and standard practice hole diameters for the bolts.	
All pilots have 1/2" machine shank for use in power drill.		



The cutterhead can be used in heavy duty 3/4" power drill with a torsion bar or in a drill press with minimum 1/2" chuck to cut grooves and daps for TECO split rings.

TIMBER RINGS

Cleveland timber rings are used in the assembly of clear span roof trusses. Rings are placed in pre-cut grooves to spread the load and avoid crushing the wood. Joint is completed with a bolt and square washer. The 2-1/2" ring is used in nominal 2" lumber and the 4" ring in nominal 3" and heavier lumber. Timber rings are used in residential, farm building and heavier construction. When 4" rings are used in 2" nominal lumber, with rings in both faces, the allowable load is reduced approximately 20%.

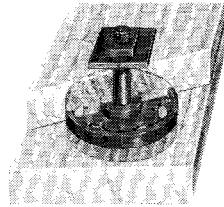


Inside Diameter	Steel Size	Bolt Size	Minimum Lumber Sizes	
			Ring 1 Side	Rings in Both Sides
2-1/2"	3/4" x 5/32"	1/2"	1" x 3-1/2"	1-1/2" x 3-1/2"
4	1" x 3/16"	3/4"	1" x 5-1/2"	1-1/2" x 5-1/2"

Includes pilot and blades.

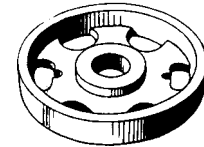
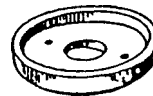
SHEAR PLATES

Are set in pre-cut daps in wood timbers, flush with the face of the wood. The shear plate spreads the load and reduces the number of bolts required. Made of malleable Iron to ASTM Specification A-47, Grade 325.10. Shear plates may be secured with nails for security in handling and transit.



Shear plates are used in connections between wood and steel, such as steel tie plates, arch shoes and truss heel joints.

Also used in demountable joints in scaffolding, bleacher seats, and other knockdown wood structures.



Part Number	Outside Diameter	Bolt Size
SP2.6	2-5/8"	3/4"
SP4	4"	3/4"
SP4S	4"	7/8"

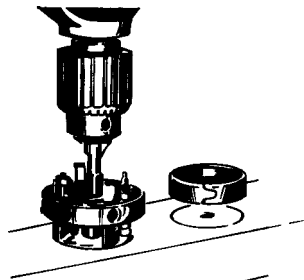
Includes pilot and blades.

Made in U.S.A.

HOT-DIP GALVANIZED: Shear Plates and Timber Rings available in galvanized coating to ASTM A-153.

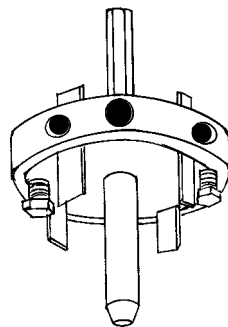
GROOVING TOOLS

Used to cut grooves for Timber Rings, high speed steel blades, depth gage and pilot to fit in bolt hole. May be used in 3/4" portable drill or drill press. Blades may be resharpened per instructions packed with tool.



Part Number	Drilled Ring Size	Hole Size
TOOL 301	TR2.5	9/16" dia.
TOOL 302	TR4	13/16" dia.

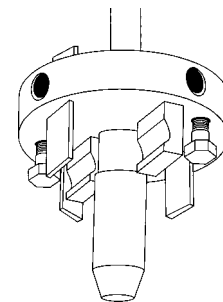
Includes pilot and blades.



Tool 301

DAPPING TOOLS

Tools are designed with several blades and cutters to produce a dap of the same shape as the shear plate. Insert the pilot in a predrilled hole or a drill bit may be used to drill and dap.



Tool 303

Part Number	Shear Plate	Drilled Hole Size
TOOL 303	SP2.6	13/16" dia.
TOOL 304	SP4	13/16" dia.
TOOL 304S	SP4S	15/16" dia.

Includes pilot and blades.

Extra Blades - Pilots

PILOT 813 13/16" Pilot for 3/4" bolt
 PILOT 938 15/16" Pilot for 7/8" bolt
 Blade 303, set of 4 for Tool 303
 Blade 304, set of 5 for Tool 304

Extra Blades - Pilots

Blade 301, set of 4 for Tool 301
 Blade 302, set of 6 for Tool 302
 PILOT 562 9/16" Pilot for 1/2" bolt
 PILOT 813 13/16" Pilot for 3/4" bolt
 PILOT 938 15/16" Pilot for 7/8" bolt