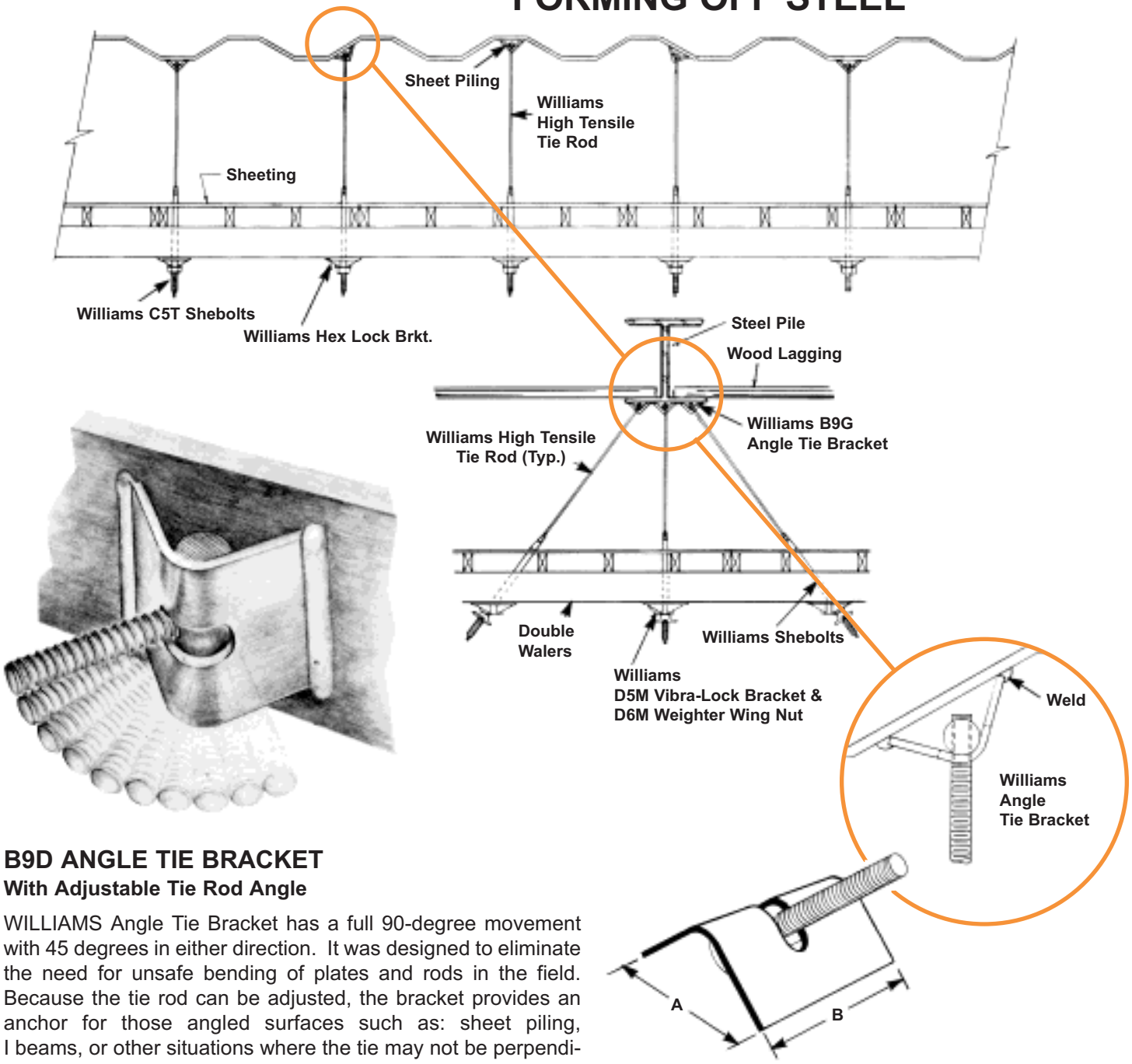
ONE SIDED FORMING - OFF STEEL

FORMING OFF STEEL



B9D ANGLE TIE BRACKET

With Adjustable Tie Rod Angle

WILLIAMS Angle Tie Bracket has a full 90-degree movement with 45 degrees in either direction. It was designed to eliminate the need for unsafe bending of plates and rods in the field. Because the tie rod can be adjusted, the bracket provides an anchor for those angled surfaces such as: sheet piling, I beams, or other situations where the tie may not be perpendicular. The bracket was designed with maximum strength in mind . By simply welding both sides, the bracket is secure and may now be adjusted to any angle required. Available in V-thread or coil thread. For 1/2", 5/8", 3/4", 7/8" and 1" rod diameters.

The above strengths are based on full fillet welds of individual bracket thicknesses to a cleaned ASTM A-36 structural (carbon steel) surface when welded in accordance with A.W.S. standard welding procedures. This product is not intended for use in permanent structure design. The Williams form Engineering Corp. assumes no responsibility nor liability for the welded connection of this product.

Rod Diameter	Plate Size		Working Load	*Ultimate
	A	B	Load (2:1 S.F.)	Strength
1/2" (12mm)	5" 125mm	3-1/2" 90mm	9,000 lbs. (40.0 kN)	18,000 lbs. (80.1kN)
5/8" (16mm)	5" 125mm	4-1/2" 115mm	11,250 lbs. (50.0kN)	22,500 lbs. (100.0kN)
3/4" (20mm)	5" 125mm	4-1/2" 115mm	19,000 lbs. (84.5kN)	38,000 lbs. (169.0 kN)
7/8" (22mm)	5" 125mm	6" 150mm	29,000 lbs. (129.0 kN)	58,000 lbs. (258.0 kN)
1" (25mm)	5" 125mm	6" 150mm	37,500 lbs (166.8kN)	75,000 lbs. (333.6 kN)