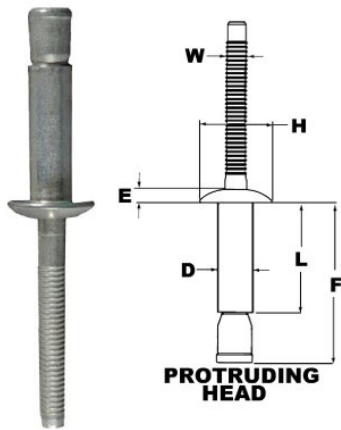


Sec. 14

RIVETS

Monobolt® Fastening System



Nom. Rivet Diameter	Hole Size & Drill Number	W Mandrel Diameter	D Rivet Diameter	Protruding Head	
				H Head Diameter	E Head Max.
3/16	.191-.201 (#11)	.118	.187	.390	.070
1/4	.261-.272(G)	.157	.257	.515	.100

Typical Rivet Shear and Tensile Strength (lbs) and Mandrel push-out when installed in Nominal Grip.

Rivet Diameter	Aluminum Rivet & Mandrel			Steel Rivet & Mandrel		
	Shear	Tensile	Mandrel Push-out	Shear	Tensile	Mandrel Push-out
3/16	625	500	50	1300	1000	100
1/4	1300	890	100	2400	2150	250

Auveco Part No.	Diameter	Grip	DIM "L"	DIM "F"	Head Style	Material	Unit Pkg.
12080	3/16"	.062/.270	.406	.748	Protruding	Steel-Zinc Plated	25
12088	3/16"	.062/.270	.406	.748	Protruding	Steel-Zinc Plated	100
12081	3/16"	.214/.420	.531	.882	Protruding	Steel-Zinc Plated	25
12089	3/16"	.214/.420	.531	.882	Protruding	Steel-Zinc Plated	100
12084	1/4"	.080/.375	.550	.971	Protruding	Steel-Zinc Plated	25
12092	1/4"	.080/.375	.550	.971	Protruding	Steel-Zinc Plated	100
12085	1/4"	.350/.625	.855	1.123	Protruding	Steel-Zinc Plated	25
12093	1/4"	.350/.625	.855	1.123	Protruding	Steel-Zinc Plated	100
12086	1/4"	.080/.375	.550	.961	Protruding	Aluminum	25
12094	1/4"	.080/.375	.550	.961	Protruding	Aluminum	100
13773	1/4"	.350/.625	.810	1.174	Protruding	Aluminum	25
13774	1/4"	.350/.625	.810	1.174	Protruding	Aluminum	100

The System

Blind Installation: The single side installation feature of the Auveco Monobolt System allows one operator to produce high quality structural joints in seconds. Use of the Monobolt power tool does not require special skill or training, because the tool completely controls the installation cycle.

Multi-Grip: One size Monobolt fastener will function effectively in a wide range of material thicknesses (Example: .080" to .375"). This versatility decreases the potential for production errors and reduces fastener inventory requirements.

Uniform Clamping Action: Monobolt fasteners are engineered to draw materials together by developing positive clamping action.



Its Advantages

Structural Fastening: An installed Monobolt fastener yields high shear and tensile values. Conventional fasteners can be replaced by Monobolt without compromising structural requirements.

Positive Stem Retention: At the completion of the installation cycle, the stem is mechanically locked into the Monobolt shell, creating a vibration-proof joint of assured structural quality.

Flush Break Stem: Within the specific grip range for each size, Monobolt fastener, the stem is designed to break flush with the low profile head. Secondary finishing operations, such as grinding or milling, are not necessary to achieve good product appearance.

Complete Hole Fill: During installation, the Monobolt shell expands into 360° contact with the walls of the parent material. This feature, in conjunction with positive stem retention, produces weather resistant joints.

Quiet, Safe Installation: The Monobolt System, operating at 85db ("A" Weighted), complies with OSHA regulation governing plant noise levels and operator safety.

How it Works



1. The Monobolt fastener is loaded into the nose of the placing tool and inserted in a prepared hole. As the tool is actuated, the pulling jaws grip the Monobolt stem.



2. An axial pull draws the stem through the shell, expanding it radially. During this phase, the hole is completely filled and work pieces are drawn together.



3. When the stem reaches a pre-determined position within the Monobolt shell, it separates flush with the head profile regardless of work piece thickness. Simultaneously, the stem section remaining in the shell is mechanically locked in place by the Monobolt tool.