

STEEL RIVET/ STEEL MANDREL DOME HEAD

Nominal Rivet Diameter	Rivet Shank Diameter		Head Diameter		Head Height	Mandrel Dia.	Mandrel Protrusion	Blind Side Protrusion	Ultimate Shear Load	Ultimate Tensile Load	Mandrel Break Load	
	Max	Min	Max	Min	Max	Nom	Min	Max	Min, lb.	Min, lb.	Max	Min
3/32	0.096	0.090	0.198	0.178	0.032	0.057	1.00	L + 0.100	130	170	360	260
1/8	0.128	0.122	0.262	0.238	0.040	0.076	1.00	L + 0.120	260	310	800	600
5/32	0.159	0.153	0.328	0.296	0.050	0.095	1.06	L + 0.140	370	470	1000	750
3/16	0.191	0.183	0.394	0.356	0.060	0.114	1.06	L + 0.160	540	680	1450	1150
1/4	0.255	0.246	0.525	0.475	0.080	0.151	1.25	L + 0.180	1000	1240	2350	1950

Description	A carbon steel blind fastener which has a self-contained carbon steel mandrel which permits the formation of an upset on the blind end of the rivet and expansion of the rivet shank during rivet setting to join the component parts of an assembly. The steel mandrel is pulled into or against the rivet body, breaking at or near the junction of the mandrel shank and its upset end. The head of the body is slightly rounded and twice as wide as the body diameter.
Applications/ Advantages	Dome head is the most commonly specified head style because of its low profile and neat, finished appearance. The all steel design gives this style rivet greater tensile and shear values than all varieties of aluminum rivets. They should be used when fastening materials similar to carbon steel.
Material	<i>Rivet:</i> Low carbon steel, plated zinc. <i>Mandrel:</i> Carbon steel 1006 or equivalent. May be furnished plain or with a protective coating, at the option of the manufacturer.
Shear Strength	Rivets shall have ultimate shear loads not less than the minimum ultimate shear loads specified for the applicable size given in the above table.
Tensile Strength	Rivets shall have ultimate tensile loads not less than the minimum ultimate tensile loads specified for the applicable size given in the above table.
Mandrel Break Load	While the rivet is being set, the axially applied load necessary to break the mandrel shall be within the limits specified for the applicable rivet size given in the above table.