



BULB-TITE® BLIND RIVETS



More than forty years ago the first Bulb-tite was developed to solve application requirements in the Pre-Engineered Metal Building industry. Since that time the Bulb-tite product line has been expanded to meet application requirements in a wide range of industries. The Bulb-tite rivet body folds into three separate legs forming a large blind-side head. This large bearing head evenly distributes the Bulb-tite's high clamp force in soft, thin or brittle materials while providing high pull-through resistance. The Bulb-tite's wide grip range enables a single Bulb-tite to work in a greater variation of thickness. Some versions of the Bulb-tite feature a special flush break mandrel that effectively seals the rivet bore and adds greater shear strength. See note for special installation tool nose tip requirements.*

**Note – Special Bulb-tite installation tool nosepiece is required for use with Bulb-tite rivets: RV6601, RV6603, RV6604, RV6605, RV6606, RV6671, RV6676 and RV6696 series.*

HOW THE BULB-TITE WORKS: During installation the rivet body folds into three separate legs, forming the blind-side upset head. The Bulb-tite mandrel breaks off *flush with the rivet head.

**Flush mandrel break requires use of special Bulb-tite installation tool nose tip.*

WEATHER TIGHT: A special nose tip on the rivet installation tool crimps a crown feature on the rivet head. This crown-crimp effectively seals the rivet bore off from intrusion of dirt and moisture. Adding the optional washer to the Bulb-tite, creates an additional seal around the perimeter of the rivet head, to stop moisture from intruding beneath the rivet head.

HIGH STRENGTH: Another benefit of the Bulb-tite rivet's retained mandrel core is the added strength it provides. Bulb-tite rivets are less prone to failure in high shear loads.

HIGH CLAMPING: The large three-legged upset head evenly distributes the Bulb-tite rivet's high clamp load over a broader bearing surface than do conventional blind rivets. This enables soft, thin, ductile and even brittle materials to be securely clamped without deformation, cracking or other damage to the application.

HARD-TO-FASTEN APPLICATIONS: Bulb-tite rivets function well in materials where other fasteners fail. The folded legs individually conform to curved surfaces enabling fastening onto pipes, corrugations and other challenging shaped applications. Oversized or elongated holes can be adequately covered by the large leg formations to resist pull through under stress in high tension-load applications.

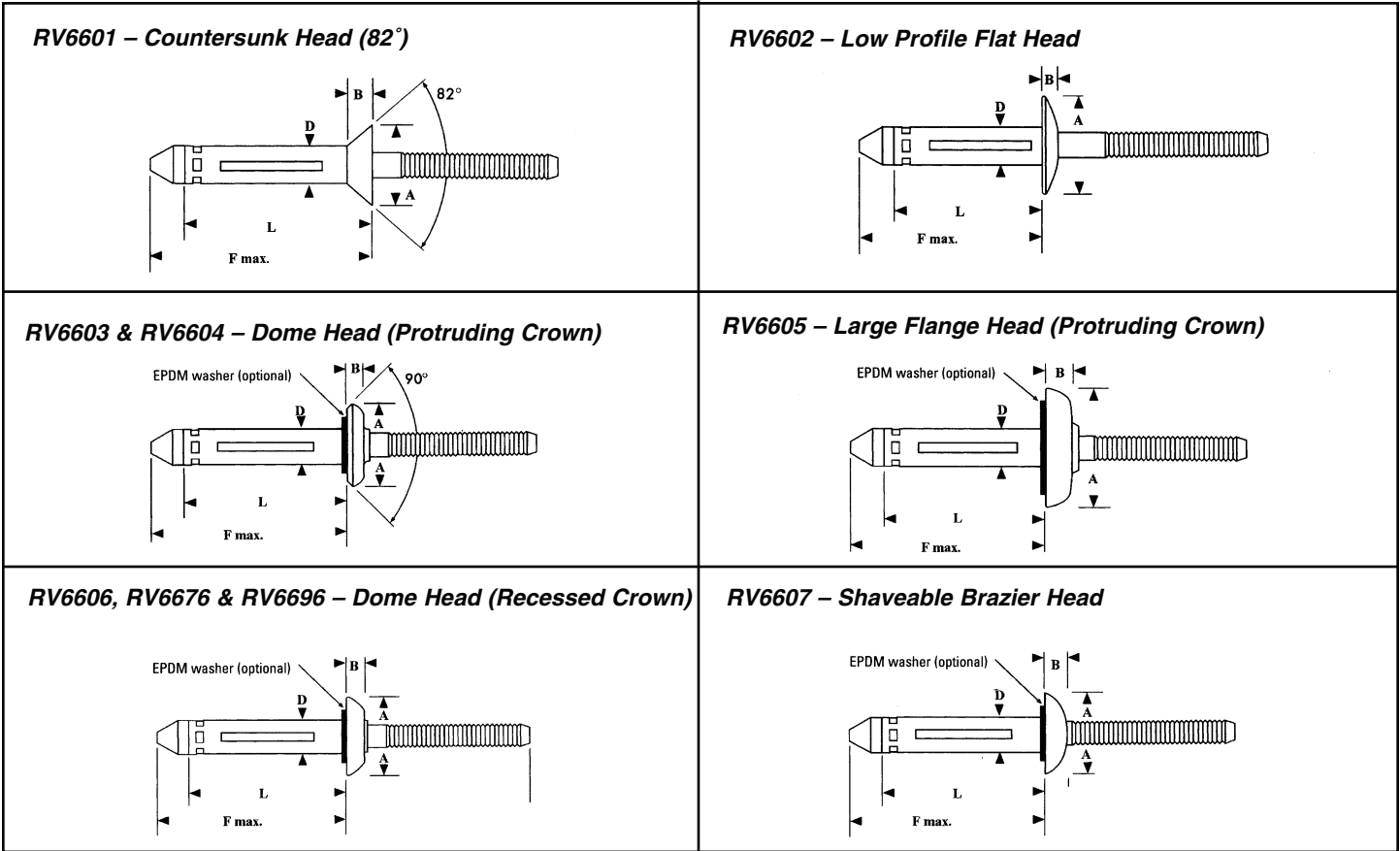
MULTI-GRIP CAPABILITY: Each Bulb-tite handles a wide variation in material thickness. Most sizes fasten over a 1/4" thickness range. Fewer rivet sizes may be required resulting in reduced inventory requirements and simplified fastener selection.

CHOICE OF FINISHED APPEARANCE: Bulb-tite rivets are offered in a variety of head styles. Standard Dome, Low Profile, Large Flange and Countersunk head styles are available. Color matched plastic finish caps can be snapped onto certain Bulb-tite head styles to conceal installed rivet heads. The unique Shaveable Head Bulb-tite was specifically designed for use in heavy truck and trailer applications where solid rivets are used. They are ideal for repair of solid riveted assemblies where access to the application's blind side may be no longer accessible. The Shaveable Bulb-tite rivet head is finished using a special head-shaving tool. Shaved Bulb-tite rivet heads then match the appearance of solid rivets in the assembly.

MATERIAL CHOICES: The standard Bulb-tite rivets are made of aluminum alloy, providing a durable non-rusting fastener that can withstand weather-related corrosion. Some Bulb-tite sizes are also available in steel and monel materials where higher strength is required



BULB-TITE® BLIND RIVETS



A - Body Diameter • B - Head Height • D - Head Diameter • L - Rivet Body Length • F - Blind Side Protrusion

Aluminum Rivet/Aluminum Mandrel

Head Style	Rivet Dia. Nom.	GESIPA Part Number	Grip Range (Inches)	Hole Sizes Drill No.	Dimensions (Inches)					Typ. Strength (lbs)	
					D	B Max.	A	L Max.	F	Shear	Tensile
Counter Sunk Head	3/16	RV6601-0604	.106-.250	.209-.221 #4	.205	.103	.340	.770	.935	675	450
		RV6601-0606	.187-.375					.895	1.060		
		RV6601-0608	.312-.500					1.020	1.185		
		RV6601-0610	.437-.625					1.145	1.310		
		RV6601-0612	.563-.750					1.270	1.435		
	1/4"	RV6601-0804	.150-.250	.250-.263 1/4	.246	.147	.452	.815	1.005	1100	675
RV6601-0806	.187-.375	.940	1.130								
RV6601-0808	.250-.500	1.065	1.255								
Low Profile Flat Head	5/32"	RV6602-0504	.125-.250	.162-.167 #20	.161	.057	.355-.375	.790	.862	350	225
		RV6602-0506	.187-.375					.852	.987		
		RV6602-0508	.250-.500					.977	1.112		
	3/16"	RV6602-0604	.125-.250	.209-.221 #4	.205	.062	.430-.455	.770	.935	675	450
		RV6602-0606	.187-.375					.895	1.060		
		RV6602-0608	.250-.500					1.020	1.185		
		RV6602-0610	.375-.625					1.145	1.310		
		RV6602-0612	.500-.750					1.270	1.435		
	1/4	RV6602-8-4	.125-.250	.250-.263 1/4	.246	.070	.532-.542	.815	1.005	1100	675
	RV6602-8-6	.187-.375	.940					1.130			
	RV6602-8-8	.250-.500	1.065					1.255			
	RV6602-8-10	.375-.625	1.190					1.360			



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					D	B Max.	A	L Max.	F	Shear	Tensile			
Dome Head Protruding Crown	5/32"	RV6604-0504	.067-.250	.162-.167	.161	.074	.343	.805	.925	350	225			
		RV6604-0508	.250-.500	#20								.992	1.112	
	3/16"	RV6604-0603	.050-.187	.209-.221	#4	.205	.125	.443	.895	1.032	675	450		
		RV6604-0604	.062-.250										.707	.844
		RV6604-0606	.187-.375										.770	.907
		RV6604-0608	.312-.500										1.020	1.157
		RV6604-0610	.437-.625										1.145	1.282
	1/4"	RV6604-0612	.563-.750	1.270	1.407									
		RV6604-0804	.062-.250	.250-.263	1/4	.246	.118	.560	.815	1.005	1100	675		
		RV6604-0806	.125-.375										.940	1.130
	RV6604-0808	.250-.500	1.065										1.255	
	9/32"	RV6604-0810	.375-.625	1.190	1.360									
RV6603-0903		.032-.187	.304-.3125	5/16	.304	.150	.615	.863	1.000	1500	1100			
RV6603-0906		.032-.375										1.110	1.325	
RV6603-0910	.250-.625	1.360										1.575		
Large Flange Prot. Crown	9/32"	RV6603-0912	.375-.750	1.485	1.700									
		RV6605-0906	.042-.375	.308-.327	5/16	.304	.150	.743	1.110	1.325	1500	1100		
		RV6605-0910	.250-.625										1.360	1.575
RV6605-0912	.375-.750	1.485	1.700											
Low Profile Head Recessed Crown	3/16"	RV6606-0603	.050-.187	.209-.221	.205	.099	.469	.895	1.032	675	450			
		RV6606-0604	.062-.250									.707	.844	
		RV6606-0606	.187-.375									.770	.907	
		RV6606-0608	.312-.500									1.020	1.157	
		RV6606-0610	.437-.625									1.145	1.282	
	1/4"	RV6606-0612	.563-.750	1.270	1.407									
		RV6606-0804	.040-.250	.250-.263	1/4	.246	.116	.543	.815	1.005	1100	675		
		RV6606-0806	.125-.375										.940	1.130
		RV6606-0808	.250-.500										1.065	1.255
		RV6606-0810	.375-.625										1.190	1.380

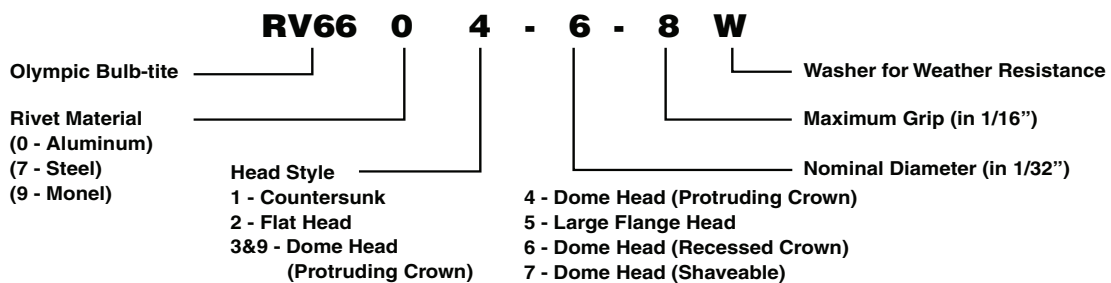
Steel Rivet/Steel Mandrel

Countersunk Head	1/4"	RV6671-0804	.150-.250	.250-.263	.246	.147	.477-.485	.915	1.005	1250	950		
		RV6671-0806	.187-.375									1.040	1.130
		RV6671-0808	.250-.500									1.165	1.355
Dome Head Recessed Crown	1/4"	RV6676-0804	.040-.250	.250-.263	.246	.116	.535-.550	.815	1.005	1250	950		
		RV6676-0806	.125-.375									.940	1.130
		RV6676-0808	.250-.500									1.065	1.255
		RV6676-0810	.375-.625									1.190	1.380

Monel Rivet/Stainless Steel Mandrel

Dome Head Recessed Crown	1/4"	RV6696-0804	.040-.250	.250-.263	.246	.116	.535-.550	.815	1.005	2100	1455		
		RV6696-0806	.125-.375									1.045	1.255
		RV6696-0808	.250-.500									1.170	1.380
		RV6696-0810	.375-.625										

Part Number Identification





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					D	B Max.	A	L Max.	F	Shear	Tensile
Shaveable Brazier Head	5/32"	RV6607-0505	.020-.312	.162-.167 #20	.161	.077	.296-.328	.800	.920	350	225
	3/16"	RV6607-0603	.020-.187	.209-.221	.205	.105	.446-.492	.707	.872	675	450
		RV6607-0604	.050-.250	#4				.770	.935		
		RV6607-0606	.050-.375	.895				1.060			
		RV6607-0608	.040-.500	1.020				1.185			
		RV6607-0610	.050-.625	1.145				1.310			
	RV6607-0612	.050-.750	1.270	1.435							
1/4"	RV6607-0808	.050-.500	.250-.263 1/4	.246	.120	.469	1.045	1.255	1100	675	

Shaveable Series

The Shaveable series of Bulb-tite rivets are designed for use in applications where solid "bucked" type rivets are commonly used such as truck/trailer body assembly or repair. The Shaveable Bulb-tite simplifies repairs made to solid riveted assemblies, as rivet replacement does not require access to the blind side of the application. The Bulb-tite's large blindside footprint functions well in rivet holes that have become elongated or too large to allow use of a solid rivet. Simply install the Bulb-tite and finish the rivet head with an Olympic head-shaving tool. The shaved head profile perfectly matches the solid brazier head rivets used elsewhere in the assembly. Shaveable Bulb-tites are available in 5/32", 3/16" and 1/4" diameters and can be installed with most standard blind rivet tools. A special tool nose tip is not required. The installed rivet's mandrel is designed to break high, leaving an exposed mandrel plug extending above the set fastener's head. The remaining mandrel protrusion is snipped off using the RV57 mandrel trimming tool. Finally, the rivet head is shaved using the HS310 rivet head shaver, leaving a finished rivet head that matches solid rivets in appearance.

