



BBI Preferred Rivets™

"Preferred by professionals"

Blind rivets, a very versatile fastening system are mainly used in applications where there is no access to the rear or blind side of the joint. The rivets have a two piece construction. One is called the rivet body or the shell and another the stem or the mandrel. Both the parts are pre-assembled and ready to use. Fastening is done by using a special tool to draw the mandrel which causes the body to deform and clamp the joint. On reaching the designed clamping force the mandrel snaps and it is discarded.

BBI currently stocks 4 different material combinations of the body and the mandrel to meet the application requirements:

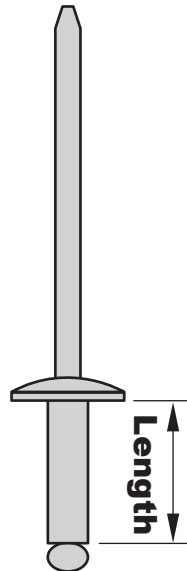
Dome Head Style. Open Ended Rivet. Sizes 4-2 thru 8-12. As per IFI 114.

Steel / Steel: *Plated Carbon Steel Rivet / Steel Mandrel / Grade 30*

Aluminum / Aluminum: *5052 Aluminum Rivet / Aluminum Mandrel / Grade 11*

Aluminum / Steel: *5056 Aluminum Rivet / Carbon Steel Mandrel / Grade 19*

Stainless Steel / Stainless Steel: *304 Stainless Steel Rivet / 304 Stainless Steel Mandrel / Grade 51*



Ultimate Shear and Tensile Strengths

Nominal Rivet Size (Inch)	Minimum Ultimate Shear Strength (lbs)				Minimum Ultimate Tensile Strength (lbs)			
	Grade 11	Grade 19	Grade 30	Grade 51	Grade 11	Grade 19	Grade 30	Grade 51
3/32 0.0938	70	90	130	230	80	120	170	280
1/8 0.1250	120	170	260	420	150	220	310	530
5/32 0.1562	190	260	370	650	230	350	470	820
3/16 0.1875	260	380	540	950	320	500	680	1200
1/4 0.2500	460	700	1000	1700	560	920	1240	2100

Application Data

Rivet Series No.	Nominal Rivet Size	Recommended Drill Size	Recommended Hole Size		Rivet No.	Grip Range	Rivet Body Length
			Max	Min			Max
3	3/32 0.0938	#41	0.100	0.097	32	0.020-0.125	0.250
					34	0.126-0.250	0.375
					36	0.251-0.375	0.500
					38	0.376-0.500	0.625
4	1/8 0.1250	#30	0.133	0.129	310	0.501-0.625	0.750
					41	0.020-0.062	0.212
					42	0.063-0.125	0.275
					43	0.126-0.187	0.337
					44	0.188-0.250	0.400
					45	0.251-0.312	0.462
					46	0.313-0.375	0.525
					48	0.376-0.500	0.650
					410	0.501-0.625	0.775
					412	0.626-0.750	0.900
5	5/32 0.1562	#20	0.164	0.160	414	0.751-0.875	1.025
					52	0.020-0.125	0.300
					53	0.126-0.187	0.362
					54	0.188-0.250	0.425
					56	0.251-0.375	0.550
					58	0.376-0.500	0.675
					510	0.501-0.625	0.800
					512	0.626-0.750	0.925
					514	0.751-0.875	1.050
					516	0.876-1.000	1.175
6	3/16 0.1875	#11	0.196	0.192	518	1.001-1.125	1.300
					62	0.020-0.125	0.325
					63	0.126-0.187	0.387
					64	0.188-0.250	0.450
					66	0.251-0.375	0.575
					68	0.376-0.500	0.700
					610	0.501-0.625	0.825
					612	0.626-0.750	0.950
					614	0.751-0.875	1.075
					616	0.876-1.000	1.200
8	1/4 0.2500	F	0.261	0.257	618	1.001-1.125	1.325
					620	1.126-1.250	1.450
					622	1.251-1.375	1.575
					82	0.020-0.125	0.375
					84	0.126-0.250	0.500
					86	0.251-0.375	0.625
					88	0.376-0.500	0.750
					810	0.501-0.625	0.875
					812	0.626-0.750	1.000
					814	0.751-0.875	1.125
8	1/4 0.2500	F	0.261	0.257	816	0.876-1.000	1.250
					818	1.001-1.125	1.375
					820	1.126-1.250	1.500
					822	1.251-1.375	1.625
					824	1.376-1.500	1.750

All dimensions are in Inches