

Avtainer® 2311 series

Low Profile, Zinc Plated Steel

Material

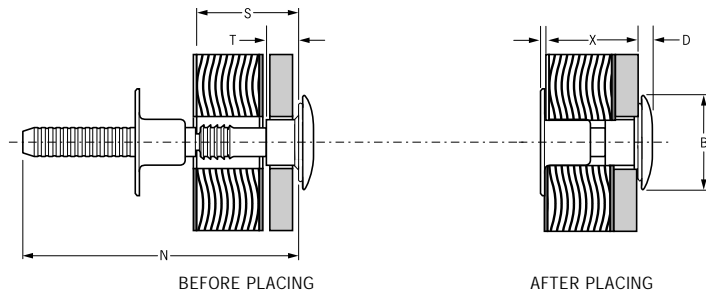
Pin and Shell: Low carbon steel to BS 970 040A04 AISI 1008 DIN 1654 Qst 34-3

Locking Slug: Polyester elastomer Seal: Neoprene

Finish

Pin: Zinc plated to BS 1706 and JS500 passivated

Shell: Zinc plated to BS1706



S = Length (Underhead to breaker groove)
 B = Head Diameter
 D = Head Thickness (including seal)
 N = Length of Pin
 T = Underhead Shoulder Length
 X = Shell Thickness

DIMENSIONS

in millimetres

Hole Size		Grip Range		S	B	D	N	T	X	Fastener Size	Part Numbers	Shell Assembly	
min.	max.	min.	max.	nom.	max.	max.	max.	nom.	max.	nom.		Flange Diameter	Flanged Collar
		12.70	15.87	14.3			56.9	-			02311-01209**	32.0	02321-01200
		14.27	17.45	15.9			56.9	-			02311-01210**	22.9	02325-01200
		15.87	19.05	17.5			58.4	4.6			02311-01211*		
		17.45	20.62	19.0			60.2	6.1			02311-01212*		The larger shell assembly (02321-01200) is for use against softer materials, spreading the bearing load.
		19.05	22.22	20.6			61.7	7.9			02311-01213*		
		20.62	23.80	22.2			63.2	9.4			02311-01214*		
		22.22	25.40	23.8			64.8	10.9			02311-01215*		The smaller shell assembly (02325-01200) should only be used against metal surfaces.
10.3	10.7	23.80	26.97	25.4	21.6	4.2	66.5	12.5	2.2	10.0	02311-01216*		
		25.40	28.57	27.0			75.9	14.2			02311-01217*		Where shells are used against metal surfaces, the hole though the metal should be 15mm diameter or chamfered 2.5mm x 45°
		26.97	30.15	28.6			75.9	14.2			02311-01218*		
		28.57	31.75	30.2			75.9	14.2			02311-01219*		
		30.15	33.32	31.7			75.9	14.2			02311-01220*		
		31.75	34.92	33.3			75.9	14.2			02311-01221*		
		33.32	36.50	34.9			75.9	14.2			02311-01222*		
		34.93	38.10	36.5			75.9	14.2			02311-01223*		
		36.50	39.67	38.1			75.9	14.2			02311-01224*		

* Head marking with the grip ID is available for these products. Please replace 02311 with **02391** when ordering.

**Part numbers 01209/01210 do not have shouldered pins.

PERFORMANCE DATA

The strength of the joints will vary with the thickness and hardness of the metal sheet of the application as well as with the quality of the GRP board.

Fastener Size	Clamp Force	Tension	
		Minimum Grip	Maximum Grip
nom.	KN	KN	KN
10.0	2.27	6.8	4.54