

blue pneumatic *Fastening Systems*

 **ORNIT**
BLIND RIVETS



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Ornit Blind Rivets has manufactured blind rivets since 1975. Ornit provides unique custom-designed fastening solutions for the automotive, constructive, electronic and industrial markets. Ornit's product lines are designed for a wide range of applications in all markets.

The company's portfolio includes structural rivets, roofing rivets, multi-grip rivets and other fastening devices made from various alloy combinations of aluminium, steel and stainless steel.

Quality

Ornit's high standards and top quality products are ensured by quality assurance procedures at all stages of production.

International Standards

Ornit manufactures in compliance with the IFI 114 and DIN 7337 standards. Ornit's dedication to performance excellence has led us to be awarded with the ISO/TS 16949 and ISO 9001:2000 certifications.

Research and Development

Ornit's R&D department is equipped with the latest technology and a highly experienced and knowledgeable team ready to face any challenge. Their expertise provides Ornit's customers with ideal solutions for any fastening application.

Customers

Ornit's products are exported around the world, i.e. Europe, Australia, South Africa, Far East and Latin America.

Ornit established a subsidiary company in the USA, Ornit Inc. to support the distribution of our products in North America.

Ornit is the leading distributor of fasteners in Israel.

Ornit's Vision

Ornit, a global company, remains on the front line in the fastening industry by researching, developing and manufacturing innovative fastening solutions.

Ornit's Objectives

- To continue to learn, understand and foresee the customers' changing desires and ambitions.
- To provide creative, flexible and competitive fastening solutions for customers worldwide.
- To maintain close business relationships with our customers.
- To remain uncompromising on product quality by implementing quality assurance regulations and maintaining international standards.
- To maintain high service standards by meeting our customers needs.
- To broaden Ornit's worldwide activities through product development.
- To invest in Ornit's human resources.



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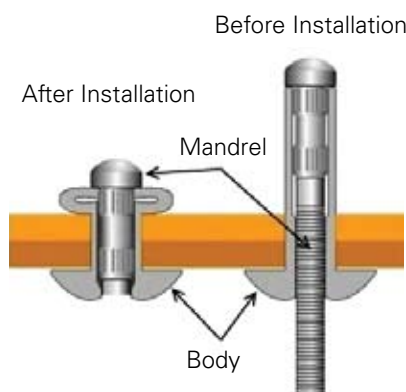
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All You Need To Know To Choose The Best ORNIT Solution!

Q. What is a blind rivet?

Blind rivets are so called because they are designed to be installed from one side of the work area by a **single operator**. They provide solutions not only for truly blind situations where access to the rear of the rivet is impossible but also where work is of such size or shape as to make rear access at least inconvenient and would require a second operator. The rivet assembly consists of two parts: the rivet body, called an "eyelet," and the mandrel, or "nail". Gripped by the riveter's jaws, the mandrel is drawn into the body of the rivet, which is expended and drawn into a tight clinch against the back side (blind side) of the joint material. When the assembly is tight enough, the mandrel breaks off at a predetermined tension and falls away. The result is a **strong, vibration resistant** fastening.

At Ornit we manufacture both non-structural and structural rivets. Structural rivets, such as Orlock, Ornilock, Or-Bolt and Super-Bulb are ideal for heavy duty structural applications due to their special locking systems, tougher mandrels and mandrel retention to enhance tensile strength.



Q. What are the main advantages of a blind rivet?

* **Improved product design** – because the rivets are installed from one side only, the need for access to both sides of work, reinforcements, tapping plates, etc. is eliminated. No more required space for tooling clearance, holding tools, and other "back side" fixtures.

* **Improved design strength** – the use of only a single, drilled or punched hole, filled effectively by an expandable, high shear strength rivet, offers a great increase in part design strength over screw/bolt with u-nut designs.

* **Quicker assembly** – blind rivets are faster than other joining methods. Automatic feeding can deliver and set as many as 50 rivets per minute. Automatic, multiple set systems are used in some areas to set as many as 20 rivets at a time.

* **Tooling** – the simplicity of riveting means, tooling can be designed to fit the application rather than making the design fit the tooling as most bolted and other types of joints require today. The installation tools may be manual (for field fixes), electric, air or hydraulic driven.



Manual tool



electric tool



hydraulic tool

* **Lower installed costs** – adding up the lower tool costs, maintenance costs, and labor saving, rivets are shown to be cheaper "in place" attachments.

* **Lower inventory costs** – because rivets have wide grip ranges and are single item attachment parts, inventory cost savings are significant.

* **Better Quality joints** – since the rivet tool can't slip off the fastener as screw and bolt drivers can, there are no scratches and mars on the visible surfaces when riveting. Finally, the rivets are set, not torqued, so loosening from under-tightening and stripping are nonexistent.

Q. How to select the right rivets?

There are four basic factors to be considered in selecting the right rivet for a particular application:

1. Strength – Determine the shear and tensile strengths required for the application and then select a rivet that meets those requirements. Rivet strengths are a combination of rivet style (structural self-plugging rivets are much stronger than non-structural hollow or break mandrel rivets).

2. Rivet material – ORNIT blind rivets fall into the following groups:

* **Steel Blind Rivets** – Carbon steel is a durable metal alloy, forming powerful but light-weight fasteners and together with the clear passivation (CR VI Free) finish, are also weather and water resistant.

* **Stainless Steel Blind Rivets** – a corrosive resistant material, with a pleasing aesthetic appearance and when considering long term value, often is the less expensive material option. It's excellent anti-corrosive properties means that this type of material is ideal for highly corrosive environments.

* **Aluminium Alloy Blind Rivets** – Aluminium is a light-weight, cost effective material with an excellent weight to strength ratio.

3. Rivets Coating –

* **Steel Blind Rivets** are zinc electroplated. Passivation types:

1. Clear: standard coating.
2. Black: interior and decorative uses.
3. Cathaphoretic Finish: black superior finish used in the automotive industry.

The clear and Cathaphoretic finishes are Cr+6-free. The black passivation is Cr-free.

* **Aluminium Alloy Blind Rivets** may be plain or painted. Paint coatings contain: epoxy resins, urea resins and pigments heavy-metals-free.

Our finishes are from the RAL spectrum.

All of ORNIT finishes meet RoHS specifications.

4. Rivet head style – Ornit rivets are available as standard in the four head styles. The regular Dome/Protruding [D/P] head is used for most industrial applications. The Large [L] and Extra-large [X] heads are used for soft or brittle top sheets that require a wide bearing surface. The Countersunk [K] heads provide a completely flush surface on the finished assembly.

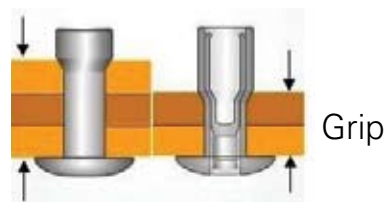


Dome/Protruding

Large/Extra-Large

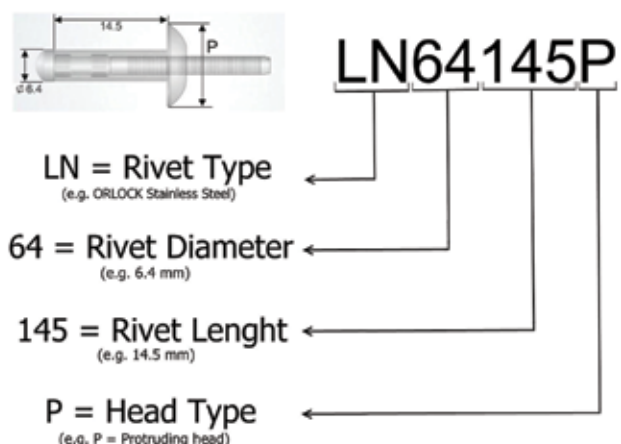
Countersunk

5. Rivet size – The majority of Ornit's rivets are available the following diameters: 3.2, 4.0, 4.8, 6.4 mm. Ornit's structural rivets are also available in 7.8 mm diameter. To assure proper performance the selected rivet should be placed in the recommended hole size listed for the appropriate rivet diameter. The total thickness of the material to be joined is called the rivet's "grip". The grip range capabilities of each of Ornit rivet is provided in this catalog. Good design practice dictates that a rivet should not be used in material thicknesses which fall outside its grip range.

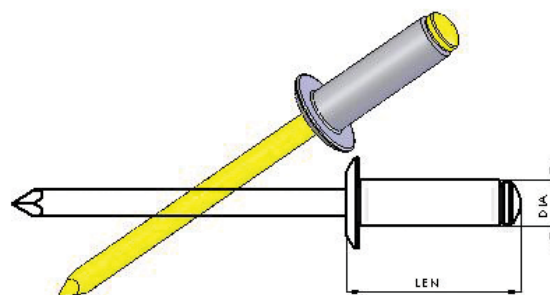


Q. How to identify Ornit Product by using catalog product code?

A. For example:



Open end



Standard blind rivet with an open end stem.

Key features include:

Features	Benefits
Available in a wide range of: Diameters (2.9mm-4.8mm), Head types (D, L, X, K) and Materials (Steel, Aluminium Alloy)	Suitable for a variety of applications.
Paint finishes (special order)	Complements adjacent, joint material colour.

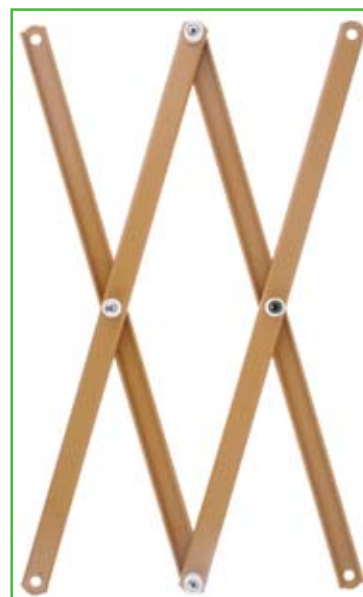
Assembly Applications:



Window motion mechanism



Plastic and aluminum Shutter



Aluminium gate

Dome Head

Body Material: Aluminium Alloy (2.5 Mg)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1010-1018

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
2.9 0.114"	3.1 .122	0.9 .035	6.3 .248	1.81 .071	A29045D	4.5	.177	0.3	.012	1.5	.059	10,000
					A29060D	6.0	.236	0.5	.020	3.0	.118	10,000
					A29080D	8.0	.315	3.0	.118	5.0	.197	10,000
					A29100D	10.0	.394	5.0	.197	7.0	.276	10,000
					A29120D	12.0	.472	7.0	.276	9.0	.354	10,000
					A29140D	14.0	.551	9.0	.354	11.0	.433	9,000
					A29160D	16.0	.630	11.0	.433	13.0	.512	9,000
3.2 1/8"	3.3 .130	0.9 .035	6.3 .248	1.81 .071	A32060D	6.0	.236	0.5	.020	2.5	.098	10,000
					A32080D	8.0	.315	2.5	.098	4.5	.177	10,000
					A32100D	10.0	.394	4.5	.177	6.5	.256	10,000
					A32120D	12.0	.472	6.5	.256	8.5	.335	10,000
					A32140D	14.0	.551	8.5	.335	10.5	.413	8,000
					A32160D	16.0	.630	10.5	.413	12.5	.492	8,000
					A32180D	18.0	.709	12.5	.492	14.5	.571	6,000
					A32200D	20.0	.787	14.5	.571	16.5	.650	6,000
A32220D	22.0	.866	16.5	.650	18.5	.728	6,000					
3.8 0.150"	3.8 .151	1.15 .045	7.8 .307	2.31 .091	A38012D	12.0	.472	5.5	.217	7.5	.295	5,000
					A38014D	14.0	.551	7.5	.295	9.5	.374	5,000
					A38016D	16.0	.630	9.5	.374	11.5	.453	5,000
					A38018D	18.0	.709	11.5	.453	13.5	.531	4,000
					A38020D	20.0	.787	13.5	.531	15.5	.610	4,000
					A38022D	22.0	.866	15.5	.610	17.5	.689	3,000
					A38025D	25.0	.984	17.5	.689	20.5	.807	3,000
					A38027D	27.0	1.06	20.5	.807	22.5	.890	2,000
					A38030D	30.0	1.18	22.5	.886	25.5	1.00	2,000
					A38035D	35.0	1.38	25.5	1.004	30.5	1.20	2,000
					A38040D	40.0	1.57	30.5	1.201	35.5	1.40	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
A29045D - A29160D	70 / 154	85 / 187
A32060D - A32220D	75 / 165	100 / 220
A38012D - A38040D	90 / 198	140 / 308

Open end

Dome Head

Body Material: Aluminium Alloy (2.5 Mg)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1010-1018

Mandrel Finish: Zinc Plated Cr VI free

Before Installation

After Installation



Dimensions - Nominal

					ART.No		 MIN MAX		 MIN MAX		
+0.08											
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm inch	mm	inch	mm	inch	
4.0 5/32"	4.1 .161	1.15 .045	78 .307	2.31 .091	A40060D	6.0 .236	1.0	.039	1.5	.059	8,000
					A40080D	8.0 .315	1.5	.059	3.5	.138	7,000
					A40100D	10.0 .394	3.5	.138	5.5	.217	7,000
					A40120D	12.0 .472	5.5	.217	7.5	.295	6,000
					A40140D	14.0 .551	7.5	.295	9.5	.374	6,000
					A40160D	16.0 .630	9.5	.374	11.5	.453	4,000
					A40180D	18.0 .709	11.5	.453	13.5	.531	5,000
					A40200D	20.0 .787	13.5	.531	15.5	.610	5,000
					A40220D	22.0 .866	15.5	.610	17.5	.689	4,000
					A40250D	25.0 .984	17.5	.689	20.5	.807	4,000
4.8 3/16"	4.9 .193	1.30 .051	9.3 .366	2.61 .103	A48080D	8.0 .315	1.0	.039	3.0	.118	5,000
					A48100D	10.0 .394	3.0	.118	5.0	.197	5,000
					A48120D	12.0 .472	5.0	.197	7.0	.276	5,000
					A48140D	14.0 .551	7.0	.276	9.0	.354	4,000
					A48160D	16.0 .630	9.0	.354	11.0	.433	4,000
					A48180D	18.0 .709	11.0	.433	13.0	.512	4,000
					A48200D	20.0 .787	13.0	.512	15.0	.591	3,000
					A48220D	22.0 .866	15.0	.591	17.0	.669	3,000
					A48250D	25.0 .984	17.0	.669	20.0	.787	3,000
					A48300D	30.0 1.181	20.0	.787	25.0	.984	2,500
					A48330D	33.0 1.299	25.0	.984	28.0	1.102	2,000
					A48350D	35.0 1.378	28.0	1.102	30.0	1.181	2,000
					A48400D	40.0 1.575	30.0	1.181	35.0	1.378	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
A40060D - A40300D	100 / 220	160 / 352
A48080D - A48400D	150 / 330	220 / 484

Open end

120° Contersunk Head

Before Installation

After Installation

Body Material: Aluminium Alloy (2.5 Mg)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1018

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No		 MIN MAX		 MIN MAX		 MIN MAX		
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	mm	inch
3.2 1/8"	3.3	0.9	5.7	1.81	A32080K	8.0	.315	2.5	.098	4.5	.177	10,000	
	.130	.035	.224	.071	A32100K	10.0	.394	4.5	.177	6.5	.256	10,000	
					A32120K	12.0	.472	6.5	.256	8.5	.335	10,000	
4.0 5/32"	4.1	1.10	7.2	2.31	A40080K	8.0	.315	1.5	.059	3.5	.138	7,000	
	.161	.043	.283	.091	A40100K	10.0	.394	3.5	.138	5.5	.217	7,000	
					A40120K	12.0	.472	5.5	.217	7.5	.295	6,000	
					A40140K	14.0	.551	7.5	.295	9.5	.374	6,000	
					A40160K	16.0	.630	9.5	.374	11.5	.453	4,000	
4.8 3/16"	4.9	1.30	8.7	2.61	A48120K	12.0	.472	5.0	.197	7.0	.276	4,000	
	.193	.051	.343	.103	A48140K	14.0	.551	7.0	.276	9.0	.354	4,000	
					A48160K	16.0	.630	9.0	.354	11.0	.433	4,000	
					A48180K	18.0	.709	11.0	.433	13.0	.512	4,000	
					A48200K	20.0	.787	13.0	.512	15.0	.591	3,000	
					A48250K	25.0	.984	17.0	.669	20.0	.787	3,000	
					A48300K	30.0	1.181	20.0	.787	25.0	.984	2,500	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
A32080K - A32120K	75 / 165	100 / 220
A40080K - A40160K	100 / 220	160 / 352
A48120K - A48300K	150 / 330	220 / 484

Open end

Large Head

Body Material: Aluminium Alloy (2.5 Mg)

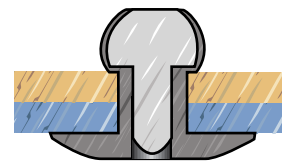
Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1010-1018

Mandrel Finish: Zinc Plated Cr VI free

Before Installation

After Installation



Dimensions - Nominal

					ART.No							
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
3.2 1/8"	3.3 .130	1.2 .047	9.5 .374	1.81 .071	A32080L	8.0	.315	2.5	.098	4.5	.177	8,000
					A32100L	10.0	.394	4.5	.177	6.5	.256	8,000
					A32120L	12.0	.472	6.5	.256	8.5	.335	8,000
					A32140L	14.0	.551	8.5	.335	10.5	.413	8,000
					A32160L	16.0	.630	10.5	.413	12.5	.492	7,000
4.0 5/32"	4.1 .161	1.5 .059	12.0 .472	2.31 .091	A40080L	8.0	.315	1.5	.059	3.5	.138	5,000
					A40100L	10.0	.394	3.5	.138	5.5	.217	5,000
					A40120L	12.0	.472	5.5	.217	7.5	.295	4,000
					A40140L	14.0	.551	7.5	.295	9.5	.374	4,000
					A40160L	16.0	.630	9.5	.374	11.5	.453	4,000
					A40180L	18.0	.709	11.5	.453	13.5	.531	3,000
					A40200L	20.0	.787	13.5	.531	15.5	.610	3,000
A40220L	22.0	.866	15.5	.610	17.5	.689	3,000					
4.8 3/16"	4.9 .193	1.70 .067	14.0 .551	2.61 .103	A48100L	10.0	.394	3.0	.118	5.0	.197	3,000
					A48120L	12.0	.472	5.0	.197	7.0	.276	3,000
					A48140L	14.0	.551	7.0	.276	9.0	.354	3,000
					A48160L	16.0	.630	9.0	.354	11.0	.433	3,000
					A48180L	18.0	.709	11.0	.433	13.0	.512	2,500
					A48200L	20.0	.787	13.0	.512	15.0	.591	2,500
					A48220L	22.0	.866	15.0	.591	17.0	.669	2,500
					A48250L	25.0	.984	17.0	.669	20.0	.787	2,000
					A48300L	30.0	1.181	20.0	.787	25.0	.984	2,000
					A48330L	33.0	1.299	25.0	.984	28.0	1.102	1,500
					A48350L	35.0	1.378	28.0	1.102	30.0	1.181	1,500
					A48370L	37.0	1.457	30.0	1.181	32.0	1.260	1,500
					A48400L	40.0	1.575	32.0	1.260	35.0	1.378	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
A32080L - A32160L	75 / 165	100 / 220
A40080L - A40220L	100 / 220	160 / 352
A48100L - A48400L	150 / 330	220 / 484

Open end

Extra-Large Head

Body Material: Aluminium Alloy (2.5 Mg)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1010-1018

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
4.8 3/16"	4.9 .193	1.80 .071	15.8 .622	2.61 .103	A48100X	10.0	.394	3.0	.118	5.0	.197	3,000	
					A48120X	12.0	.472	5.0	.197	7.0	.276	3,000	
					A48140X	14.0	.551	7.0	.276	9.0	.354	3,000	
					A48160X	16.0	.630	9.0	.354	11.0	.433	2,500	
					A48180X	18.0	.709	11.0	.433	13.0	.512	2,000	
					A48200X	20.0	.787	13.0	.512	15.0	.591	2,000	
					A48220X	22.0	.866	15.0	.591	17.0	.669	2,000	
					A48240X	24.0	.945	16.0	.630	19.0	.748	2,000	
					A48250X	25.0	.984	17.0	.669	20.0	.787	2,000	
					A48270X	27.0	1.063	20.0	.787	22.0	.866	2,000	
					A48300X	30.0	1.181	22.0	.866	25.0	.984	2,000	
					A48330X	33.0	1.299	25.0	.984	28.0	1.102	2,000	
					A48350X	35.0	1.378	28.0	1.102	30.0	1.181	1,500	
					A48370X	37.0	1.457	30.0	1.181	32.0	1.260	1,500	
					A48400X	40.0	1.575	32.0	1.260	35.0	1.378	1,500	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
A48100X - A48400X	150 / 330	220 / 484

Open end

Dome Head

Before Installation

After Installation

Body Material: Low Carbon Steel, SAE 1006

Mandrel Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel SAE 1035

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
3.2 1/8"	3.3 .130	0.9 .035	6.3 .248	2.01 .079	S32060D	6.0	.236	0.5	.020	2.5	.098	10,000
					S32080D	8.0	.315	2.5	.098	4.5	.177	10,000
					S32100D	10.0	.394	4.5	.177	6.5	.256	10,000
					S32120D	12.0	.472	6.5	.256	8.5	.335	10,000
					S32140D	14.0	.551	8.5	.335	10.5	.413	8,000
					S32160D	16.0	.630	10.5	.413	12.5	.492	7,000
4.0 5/32"	4.1 .161	1.15 .045	7.8 .307	2.31 .091	S40080D	8.0	.315	1.5	.059	3.5	.138	7,000
					S40100D	10.0	.394	3.5	.138	5.5	.217	7,000
					S40120D	12.0	.472	5.5	.217	7.5	.295	6,000
					S40140D	14.0	.551	7.5	.295	9.5	.374	6,000
					S40160D	16.0	.630	9.5	.374	11.5	.453	5,000
					S40180D	18.0	.709	11.5	.453	13.5	.531	5,000
4.8 3/16"	4.9 .193	1.30 .051	9.3 .366	2.91 .115	S48080D	8.0	.315	1.0	.039	3.0	.118	5,000
					S48100D	10.0	.394	3.0	.118	5.0	.197	5,000
					S48120D	12.0	.472	5.0	.197	7.0	.276	5,000
					S48140D	14.0	.551	7.0	.276	9.0	.354	4,000
					S48160D	16.0	.630	9.5	.354	11.0	.433	4,500
					S48180D	18.0	.709	11.0	.433	13.0	.512	4,500
					S48200D	20.0	.787	13.0	.512	15.0	.591	3,000
					S48220D	22.0	.866	15.0	.591	17.0	.669	3,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
S32060D - S32160D	130 / 286	175 / 386
S40080D - S40180D	190 / 418	280 / 616
S48080D - S48220D	290 / 638	400 / 880

Open end

Peel

Body Material: Aluminium Alloy (3.5/5.0 Mg) to AA 5056/5154

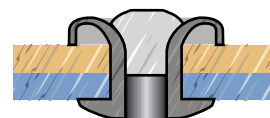
Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel SAE 1006-1022

Mandrel Finish: Zinc Plated Cr VI free

Before Installation

After Installation



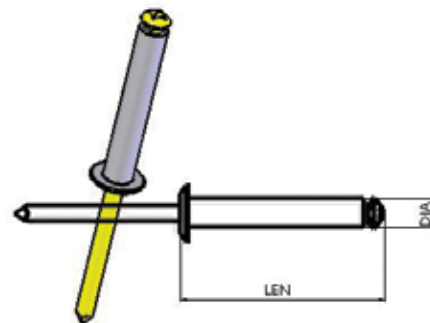
Dimensions - Nominal

DIMENSIONS - NOMINAL												
					ART.No			 MIN MAX				
+0.08												
+0.011	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.0 5/32"	4.3 .169	1.15 .045	7.8 .307	2.31 .091	P40100D	10.0	.394	2.0	.079	4.0	.157	7,000
					P40120D	12.0	.472	3.0	.118	6.0	.236	6,000
					P40140D	14.0	.551	4.0	.157	8.0	.315	6,000
					P40160D	16.0	.630	6.0	.236	10.0	.394	5,000
4.8 3/16"	5.1 .201	1.3 .051	9.3 .366	2.61 .103	P48120D	12.0	.472	2.0	.079	5.0	.197	4,000
					P48140D	14.0	.551	3.0	.118	7.0	.276	4,000
					P48160D	16.0	.630	5.0	.197	9.0	.354	4,000
					P48180D	18.0	.709	7.0	.276	11.0	.433	4,000
					P48200D	20.0	.787	9.0	.354	13.0	.512	3,000
					P48250D	25.0	.984	12.0	.472	18.0	.709	3,000
					P48300D	30.0	1.181	16.0	.630	23.0	.906	3,000
					P48350D	35.0	1.378	21.0	.827	28.0	1.102	2,000
					P48400D	40.0	1.575	26.0	1.024	33.0	1.299	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
P40100D - P40160D	150 / 330	185 / 407
P48120D - P48400D	200 / 440	200 / 440

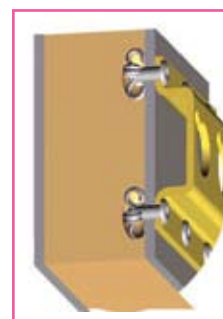
Superior Peel rivet with locked mandrel.



Key features include:

Features	Benefits
Peel tail.	Provides large blind side bearing area. Resistant to pull out loads in soft Materials
Extensive grip range.	Ideal for a wide variety of applications.
Locked mandrel.	Vibration resistant and enhanced shear values.
Grip of 100mm and higher.	Suitable for internal and external application of isolated panels.

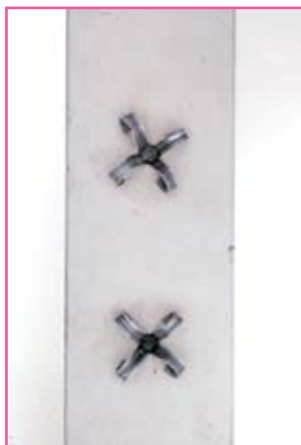
Assembly Applications:



cooling Truck Boxes



"The longest blind rivet in the world" (up to 10")



Best for roofing



Cast walls

Body Material: Aluminium Alloy (3.0/5.0 Mg) to AA 5056/5154

Body Finish: Bright finish surface

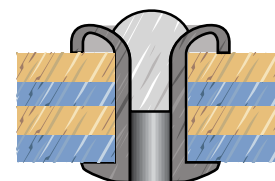
Mandrel Material: Low Carbon Steel SAE 1006-1022

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.25													
+0.009	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
6.4 1/4"	6.8-7.0 .267-.275	1.8 .071	12.0 .472	3.6 .142	R63025D	25.0	.984	6.0	.354	10.0	.394	1,000	
					R63030D	30.0	1.181	6.0	.354	15.0	.591	1,000	
					R63038D	38.0	1.496	9.0	.354	23.0	.906	1,000	
					R63050D	50.0	1.969	15.0	.591	35.0	1.378	1,000	
					R63076D	76.0	2.992	35.0	1.378	60.0	2.362	500	
					R63101D	101.0	3.976	60.0	2.362	85.0	3.346	500	

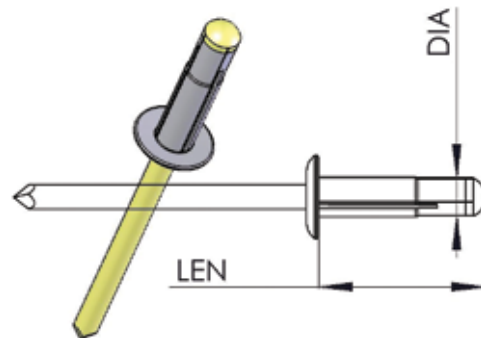
Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
R63025D - R63102D	250 / 550	320 / 704

Or-Bulb



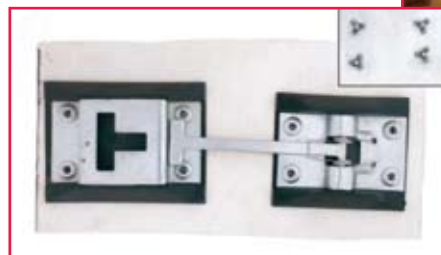
Aluminium alloy fastener with split tail, forming a large blind side area.



Key features include:

Features	Benefits
Large blind side bearing area.	Spreads clamp load over a large area. Ideal for thin, brittle and soft sheet materials.
Good multi-grip performance.	Simplifies stock control. Reduces operator error. Accommodates a wide variety of material thicknesses.
Positively retained stem.	Secure, vibration resistant joint.
Wide choice of purposed designed installation tools.	Maximum production flexibility.

Assembly Applications:



Truck Box door holding



Train and bus seats



Fiberglass Applications



Car Dashboard



Body Material: Aluminium Alloy (2.0/2.5 Mg.) to AA 5052

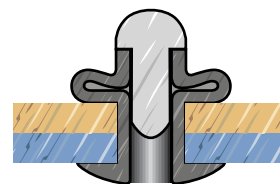
Body Finish: Bright finish surface

Mandrel Material: Aluminium Alloy (2.0/2.5 Mg.) to AA 5052

Mandrel Finish: Natural

Before Installation

After Installation



Dimensions - Nominal

					ART.No								
+0.12													
+0.004	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
4.0 5/32"	4.2-4.5	1.4	8.0	2.3	BB40136D	13.6	.537	1.0	.039	3.0	.118	6,000	
					BB40188D	18.8	.743	1.0	.039	7.0	.276	4,000	
	.165-.177	.055	.315	.091	BB40248D	24.8	.979	4.0	.157	10.0	.395	4,000	
4.8 3/16"	5.0-5.3	1.8	9.8	2.9	BB48153D	15.3	.604	1.0	.039	4.0	.158	3,000	
					BB48175D	17.5	.691	1.0	.039	6.3	.249	3,000	
					BB48205D	20.5	.809	1.0	.039	9.0	.356	2,500	
					BB48240D	24.0	.948	4.0	.157	12.0	.474	2,500	
	.196-.208	.071	.386	.114	BB48280D	28.0	1.102	8.0	.315	16.0	.630	2,500	
					BB48310D	31.0	1.220	11.0	.433	19.0	.748	2,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
BB40136D - BB40248D	61 / 134.2	102 / 225
BB48153D - BB48310D	92 / 203	122 / 269

Body Material: Aluminium Alloy (2.0/2.5 Mg.) to AA 5052

Body Finish: Bright finish surface

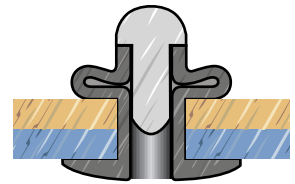
Mandrel Material: Aluminium Alloy (2.0/2.5 Mg.) to AA 5052

Mandrel Finish: Natural

Before Installation



After Installation



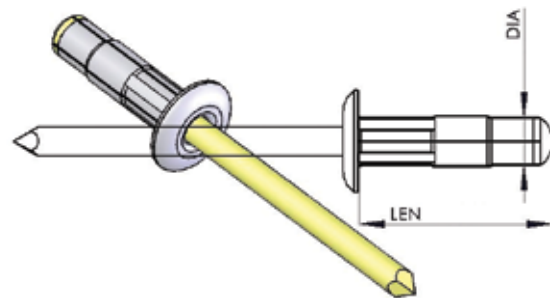
Dimensions - Nominal

					ART.No			 MIN MAX				
+0.12												
+0.004	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	5.0-5.3	2.0	14.0	2.9	BB48153L	15.3	.602	1.0	.039	4.0	.157	3,000
					BB48175L	17.5	.689	1.0	.039	6.3	.248	2,500
	.196-.208	.079	.551	.114	BB48205L	20.5	.807	1.0	.039	9.0	.354	2,500
					BB48240L	24.0	.945	4.0	.157	12.0	.472	1,500
4.8 3/16"	5.0-5.3	2.0	15.9	2.9	BB48153X	15.3	.602	1.0	.157	4.0	.157	2,000
					BB48205X	20.5	.807	1.0	.039	9.0	.354	2,000
	.196-.208	.079	.624	.114	BB48240X	24.5	.945	4.0	.039	12.0	.472	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
BB48153L - BB48240L	92 / 203	122 / 269
BB48153X - BB48153X	92 / 203	122 / 269

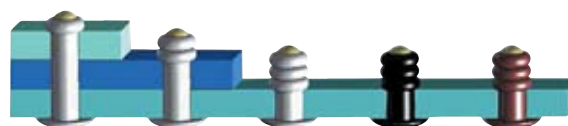
Highly versatile, multi-grip fastener with a long, reliable track record.



Key features include:

Features	Benefits
Excellent multi-grip performance.	Simplifies stock control. Reduces operator error. Accommodates a wide variety of material thicknesses.
Excellent hole fill capabilities.	Ideal for oversized, irregular or misaligned holes. Creates a consistently high strength, vibration resistant joint.
Positively retained stem.	Secure, vibration resistant joint.
Available in a wide range of: Diameters (3.2mm-6.4mm), Head types (S, D, L, X, K) and Materials (Steel, Aluminium Alloy, Stainless Steel)	Suitable for a variety of applications.
Paint finishes (special order)	Complements adjacent, joint material colour.

Assembly Applications:



Bus Wooden Roof Assembly



Ladders



Automotive Tier 1 products



Pickup Truck
Box Knob

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

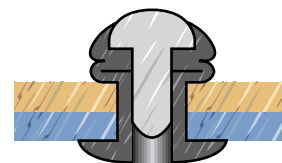
Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No							
+0.08												
+0.003	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>		mm	<i>inch</i>	mm	<i>inch</i>	mm	<i>inch</i>	
3.2 1/8"	3.3 .130	0.95 .037	6.4 .252	1.81 .071	U32068D	6.8	.268	0.8	.031	3.4	.134	10,000
					U32080D	8.0	.315	0.8	.031	4.8	.189	10,000
					U32095D	9.5	.374	1.2	.047	6.4	.252	10,000
					U32111D	11.1	.437	4.0	.157	7.9	.311	10,000
					U32127D	12.7	.500	5.5	.217	9.5	.374	10,000
4.0 5/32"	4.1 .161	1.2 .047	7.9 .311	2.11 or 2.25 .083 or .088	U40068D	6.8	.268	0.5	.020	3.2	.126	8,000
					U40095D	9.5	.374	1.2	.047	6.4	.252	7,000
					U40111D	11.1	.437	3.2	.126	7.9	.311	7,000
					U40127D	12.7	.500	4.0	.157	9.5	.374	6,500
					U40169D	16.9	.665	6.4	.252	12.7	.500	5,000
4.8 3/16"	4.9 .193	1.45 .057	9.8 .386	2.8 .110	U48103D	10.3	.406	1.6	.063	6.4	.252	5,000
					U48121D	12.1	.476	2.0	.079	8.0	.315	5,000
					U48151D	15.1	.594	4.8	.189	11.1	.437	4,000
					U48169D	16.9	.665	6.4	.252	12.7	.500	4,000
					U48195D	19.5	.768	9.0	.354	15.0	.591	3,000
					U48248D	24.8	.976	12.7	.500	19.8	.780	3,000
6.4 1/4"	6.6 / .259	1.90 / .075	12.8 / .504	3.55 / .140	U64153D	15.3	.602	2.0	.079	8.9	.350	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U32068D - U32127D	75 / 165	104 / 230
U40068D - U40169D	116 / 255.2	170 / 375
U48103D - U48248D	159 / 350	240 / 530
U64153D	316 / 696	416 / 915

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

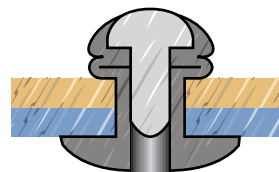
Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No		 MIN MAX					
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9	2.4	12.0	2.8	U48103B	10.3	.406	1.6	.063	6.4	.252	5,000
	.193	.094	.472	.110	U48151B	15.1	.594	4.8	.189	11.1	.437	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U48103B - U48151B	159 / 350	240 / 528

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

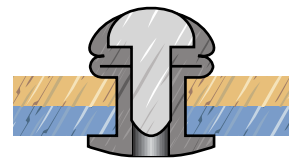
Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
3.2 1/8"	3.3 .130	1.0 .039	5.2 .213	1.81 .071	U32080S	8.0	.315	0.8	.031	4.8	.189	10,000	
					U32095S	9.5	.374	1.2	.047	6.4	.252	10,000	
					U32111S	11.1	.437	4.0	.157	7.9	.311	10,000	
					U32127S	12.7	.500	5.5	.217	9.5	.374	10,000	
4.0 5/32"	4.1 .161	1.35 .053	6.2 .244	2.11 or 2.25 .083 or .088	U40095S	9.5	.374	1.2	.047	6.4	.252	8,000	
					U40111S	11.1	.437	3.2	.126	7.9	.311	6,000	
					U40127S	12.7	.500	4.0	.157	9.5	.374	6,000	
					U40151S	15.1	.594	6.4	.252	11.1	.437	5,000	
					U40169S	16.9	.665	6.4	.252	12.7	.500	5,000	
4.8 3/16"	4.9 .193	1.65 .065	8.6 .339	2.8 .110	U48103S	10.3	.406	1.6	.063	6.4	.252	5,000	
					U48151S	15.1	.594	4.8	.189	11.1	.437	4,000	
					U48169S	16.9	.665	6.4	.252	12.7	.500	4,000	
					U48248S	24.8	.976	12.7	.500	19.8	.700	4,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U32080S - U32127S	75 / 165	104 / 230
U40095S - U40169S	116 / 255.2	170 / 374
U48103S - U48248S	159 / 350	240 / 530

Before Installation

After Installation

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>		mm	<i>inch</i>	mm	<i>inch</i>	mm	<i>inch</i>	
3.2 1/8"	3.3	0.85	5.35	1.81	U32097K	9.7	<i>.382</i>	2.4	<i>.094</i>	6.4	<i>.252</i>	10,000
					U32111K	11.1	<i>.437</i>	4.0	<i>.157</i>	7.9	<i>.311</i>	10,000
	<i>.130</i>	<i>.033</i>	<i>.211</i>	<i>.071</i>	U32127K	12.7	<i>.500</i>	4.0	<i>.157</i>	9.5	<i>.374</i>	10,000
4.0 5/32"	4.1	0.9	6.3	2.25	U40097K	9.7	<i>.382</i>	1.2	<i>.047</i>	6.4	<i>.252</i>	7,000
					U40113K	11.3	<i>.445</i>	2.8	<i>.110</i>	7.9	<i>.311</i>	8,000
	<i>.161</i>	<i>.035</i>	<i>.248</i>	<i>.088</i>	U40127K	12.7	<i>.500</i>	4.3	<i>.169</i>	9.5	<i>.374</i>	6,000
4.8 3/16"	4.9	1.45	8.7	2.8	U48121K	12.1	<i>.476</i>	3.2	<i>.126</i>	7.9	<i>.311</i>	5,000
	<i>.193</i>	<i>.057</i>	<i>.343</i>	<i>.110</i>	U48169K	16.9	<i>.665</i>	6.4	<i>.252</i>	12.7	<i>.500</i>	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U32097K - U32127K	70 / 154	93 / 205
U40097K - U40127K	102 / 225	136 / 300
U48121K - U48169K	159 / 350	240 / 530

Before Installation

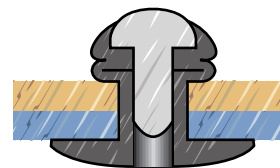
After Installation

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>		mm	<i>inch</i>	mm	<i>inch</i>	mm	<i>inch</i>	
3.2 <i>1/8"</i>	3.3 <i>.130</i>	1.0 <i>.039</i>	8.25 <i>.325</i>	1.81 <i>.071</i>	U32080L	8.0	<i>.315</i>	0.8	<i>.031</i>	4.8	<i>.189</i>	8,000
					U32095L	9.5	<i>.374</i>	1.2	<i>.047</i>	6.4	<i>.252</i>	8,000
					U32111L	11.1	<i>.437</i>	4.0	<i>.157</i>	7.9	<i>.311</i>	7,000
					U32127L	12.7	<i>.500</i>	5.5	<i>.217</i>	9.5	<i>.374</i>	7,000
4.0 <i>5/32"</i>	4.1 <i>.161</i>	1.30 <i>.051</i>	9.5 <i>.374</i>	2.25 <i>.088</i>	U40111L	11.1	<i>.437</i>	3.2	<i>.126</i>	7.9	<i>.311</i>	5,000
					U40127L	12.7	<i>.500</i>	4.0	<i>.157</i>	9.5	<i>.374</i>	4,000
					U40151L	15.1	<i>.594</i>	6.4	<i>.252</i>	11.1	<i>.437</i>	4,000
					U40169L	16.9	<i>.665</i>	6.4	<i>.252</i>	12.7	<i>.500</i>	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U32080L - U32127L	75 / 165	104 / 228
U40111L - U40169L	116 / 255	170 / 375

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

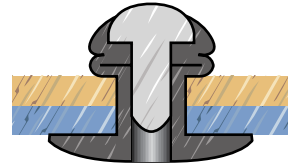
Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	mm	inch
3.2 1/8"	3.3 .130	1.2 .047	9.5 .374	1.81 .071	U32080X	8.0	.315	0.8	.031	4.8	.189	8,000	
					U32095X	9.5	.374	1.2	.047	6.4	.252	8,000	
					U32111X	11.1	.437	4.0	.157	7.9	.311	7,000	
4.0 5/32"	4.1 .161	1.5 .059	12.0 .472	2.25 .088	U40111X	11.1	.437	3.2	.126	7.9	.311	5,000	
					U40127X	12.7	.500	4.0	.157	9.5	.374	4,000	
					U40169X	16.9	.669	6.4	.252	12.7	.500	4,000	
4.8 3/16"	4.9 .193	1.75 .069	15.85 .624	2.8 .110	U48103X	10.3	.406	1.6	.063	6.4	.252	3,000	
					U48169X	16.9	.665	6.4	.252	12.7	.500	2,500	
					U48248X	24.8	.976	12.7	.500	19.8	.780	2,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
U32080X - U32111X	75 / 165	104 / 230
U40111X - U40169X	116 / 255	170 / 375
U48103X - U48248X	159 / 350	240 / 530

U-Fix Stainless Steel

Dome Head

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

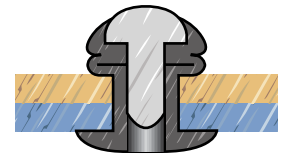
Body Finish: Bright finish surface

Mandrel Material: Stainless Steel Series 400

Mandrel Finish: Natural

Before Installation

After Installation



Dimensions - Nominal												
					ART.No							
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
3.2 1/8"	3.3 .130	0.95 .037	6.4 .252	1.81 .071	UN32068D	6.8	.268	0.8	.031	3.4	.134	10,000
					UN32080D	8.0	.315	0.8	.031	4.8	.189	10,000
					UN32095D	9.5	.374	1.2	.047	6.4	.252	10,000
					UN32111D	11.1	.437	4.0	.157	7.9	.311	10,000
					UN32127D	12.7	.500	5.5	.217	9.5	.374	10,000
4.0 5/32"	4.1 .161	1.20 .047	7.9 .311	2.11 or 2.25 .083 or .088	UN40095D	9.5	.374	1.2	.047	6.4	.252	7,000
					UN40111D	11.1	.437	3.2	.126	7.9	.311	7,000
					UN40127D	12.7	.500	4.0	.157	9.5	.374	6,000
					UN40169D	16.9	.665	6.4	.252	12.7	.500	5,000
4.8 3/16"	4.9 .197	1.45 .057	9.8 .386	2.8 .110	UN48103D	10.3	.406	1.6	.063	6.4	.252	5,000
					UN48151D	15.1	.594	4.8	.189	11.1	.437	4,000
					UN48169D	16.9	.665	6.4	.252	12.7	.500	4,000
					UN48248D	24.8	.976	12.7	.500	19.8	.780	3,000

Forces - Nominal		
ART.No		
	kg / Lbs.	kg / Lbs.
U32080L - U32127L	75 / 165	104 / 230
U40111L - U40169L	116 / 255	170 / 375
U32080L - U32127L	159 / 350	240 / 530

U-Fix Stainless Steel 120° Countersunk Head...

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

Mandrel Material: Stainless Steel Series 400

Mandrel Finish: Natural

Before Installation

After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>	mm / <i>inch</i>		mm	<i>inch</i>	mm	<i>inch</i>	mm	<i>inch</i>	
3.2 1/8"	3.3 .130	0.85 .033	5.35 .211	1.81 .071	UN32097K	9.7	.382	2.4	.094	6.4	.252	10,000
					UN32111K	11.1	.437	4.0	.157	7.9	.311	10,000
4.0 5/32"	4.1 .161	0.9 0.35	6.3 .248	2.25 .089	UN40097K	9.7	.382	1.2	.047	6.4	.252	7,000
					UN40113K	11.3	.445	2.8	.110	7.9	.311	8,000
					UN40127K	12.7	.500	4.3	.169	9.5	.374	6,000
4.8 3/16"	4.9 .197	1.35 .053	8.8 .346	2.8 .110	UN48121K	12.1	.476	3.2	.126	7.9	.311	5,000
					UN48169K	16.9	.665	6.4	.252	12.7	.500	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UN32097K - UN32111K	70 / 154	93 / 205
UN40097K - UN40127K	102 / 224	136 / 300
UN48121K - UN48169K	159 / 350	240 / 530

U-Fix Stainless Steel

X-Large Head

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

Mandrel Material: Stainless Steel Series 400

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
3.2 1/8"	3.3	1.20	9.5	1.81	UN32080X	8.0	.315	0.8	.031	4.8	.189	8,000	
					UN32095X	9.5	.374	1.2	.047	6.4	.252	8,000	
	.130	.047	.374	.071	UN32111X	11.1	.437	4.0	.157	7.9	.311	7,000	
4.0 5/32"	4.1	1.50	12.0	2.25	UN40111X	11.1	.437	3.2	.126	7.9	.311	5,000	
					UN40127X	12.7	.500	4.0	.157	9.5	.374	4,000	
	.161	.059	.472	.088	UN40169X	16.9	.665	6.4	.252	12.7	.500	4,000	
4.8 3/16"	4.9	1.75	15.85	2.8	UN48103X	10.3	.406	1.6	.063	6.4	.252	3,000	
					UN48169X	16.9	.665	6.4	.252	12.7	.500	2,500	
	.197	.069	.624	.110	UN48248X	24.8	.976	12.7	.500	19.8	.780	2,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UN32080X - UN32111X	75 / 165	104 / 230
UN40095X - UN40169X	116 / 255	170 / 375
UN48103X - UN48248X	159 / 350	240 / 530

U-Fix Aluminium

Dome Head...

Body Material: Aluminium Alloy (1.0 Mg.) to AA 5005

Body Finish: Bright finish surface

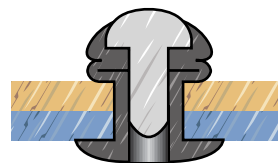
Mandrel Material: Aluminium Alloy (5.0 Mg.) to AA 5056

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.07													
+0.002	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
3.2 1/8"	3.3 .130	0.95 .037	6.4 .252	2.01 .079	UH32080D	8.0	.315	0.8	.031	4.8	.189	10,000	
					UH32111D	11.1	.437	4.0	.157	7.9	.311	10,000	
4.0 5/32"	4.1 .161	1.20 .047	7.9 .311	2.31 .091	UH40095D	9.5	.374	1.2	.047	6.4	.252	7,000	
					UH40111D	11.1	.437	3.2	.126	7.9	.311	7,000	
4.8 3/16"	4.9 .193	1.45 .057	9.8 .386	2.91 .115	UH48103D	10.3	.406	1.6	.063	6.4	.252	5,000	
					UH48151D	15.1	.594	4.8	.189	11.1	.437	4,000	
					UH48169D	16.9	.665	6.4	.252	12.7	.500	4,000	
					UH48248D	24.8	.976	12.7	.500	19.8	.780	4,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UH32080D - UH32111D	45 / 99	70 / 154
UH40095D - UH40111D	60 / 132	80 / 176
UH48103D - UH48248D	100 / 220	150 / 330

U-Fix Aluminium

X-Large Head.....

Body Material: Aluminium Alloy (1.0 Mg.) to AA 5005

Body Finish: Bright finish surface

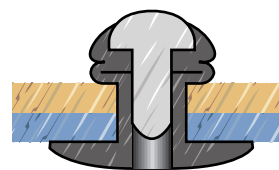
Mandrel Material: Aluminium Alloy (5.0 Mg.) to AA 5056

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9 .193	1.75 .069	15.85 .624	2.91 .114	UH48103X	10.3	.406	1.6	.063	6.4	.252	3,000
					UH48151X	15.1	.594	4.8	.189	11.1	.437	2,500
					UH48169X	16.9	.665	6.4	.252	12.7	.500	2,500
					UH48248X	24.8	.976	12.7	.500	19.8	.780	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UH48103X - UH48248X	100 / 220	150 / 330

Special U-Fix

Electro-Fix Aluminium Steel...

Before Installation

After Installation

Body Material: Aluminium Alloy (2.0/2.5 Mg.)

Body Finish: Bright finish surface

Mandrel Material: Low carbon steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No							
+0.1												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
3.2 1/8"	3.4 .134	0.95 .037	6.4 .252	1.81 .071	UR32095D	9.5	.374	1.2	.047	6.4	.252	10,000
4.0 5/32"	4.1 .161	1.20 .047	7.9 .311	2.11 .083	UR40095D	9.5	.374	1.2	.047	6.4	.252	7,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UR32095D	70 / 154	100 / 220
UR40095D	100 / 220	135 / 297

Special U-Fix

Electro-Fix All Steel.....

Before Installation

After Installation

Body Material: Low carbon steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No							
+0.18												
+0.007	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.0 5/32"	4.2 .165	1.20 .047	8.10 .319	2.73 .107	USR40110D	11.0	.433	1.4	.055	5.0	.197	6,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
USR40110D	150 / 330	240 / 528

Special U-Fix

All Steel

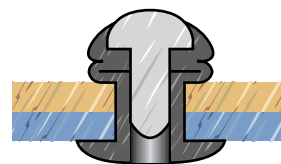
Body Material: Low carbon steel
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon steel
Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No		 MIN MAX					
+0.15												
+0.005	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.0	1.75	9.80	3.38	US48103D	10.3	.406	1.2	.047	4.8	.189	5,000
	.192-.196	.069	.386	.133	US48127D	12.7	.500	4.0	.157	6.3	.248	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
US48103D	367 / 807	340 / 748
US48127D	465 / 1023	353 / 776

U-Fix All Stainless Steel

Dome Head

Body Material: Stainless Steel Grade 304
Body Finish: Natural

Mandrel Material: Stainless Steel Grade 434
Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.12												
+0.004	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	5.0	1.85	9.8	3.38	UNN48103D	10.3	.406	1.5	.059	6.0	.236	5,000
	.197	.073	.386	.133	UNN48127D	12.7	.500	2.5	.098	7.5	.295	4,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
UNN48103D - UNN48127D	660 / 1452	510 / 1122

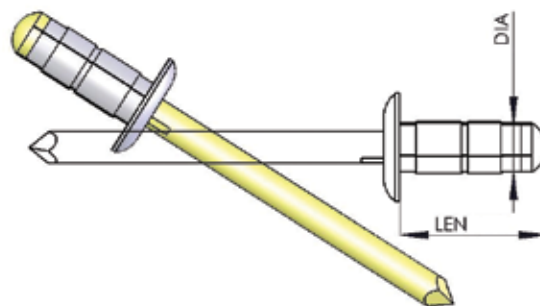
Painted Rivets

Option available to colour all aluminium type rivets with non-toxic paints. This service is available for standard sealed rivets, U-Fix, T.P.R, O.R.P, and Or-Bulb.

All the colours from the RAL catalogue are available on special request. These colours match the surrounding joint material, providing a neat, uniformed finish.



Steel-Fix

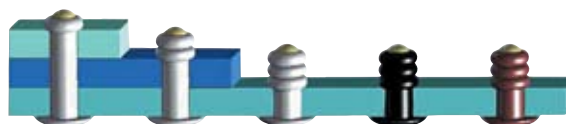


Superior, multi-grip performance, steel rivet.

Key features include:

Features	Benefits
Excellent multi-grip performance.	Simplifies stock control. Reduces operator error. Accommodates a wide variety of material thicknesses.
Excellent hole fill capabilities.	Ideal for oversized, irregular or misaligned holes. Creates a consistently high strength, vibration resistant joint.
Positively retained stem.	Secure, vibration resistant joint.
Large blind side bearing area.	Spreads clamp load over a large area. Ideal for thin, brittle and soft sheet materials.
Available in a wide range of: Diameters (3.2mm-6.4mm) and Head types (D, L, X, K)	Suitable for a variety of applications.

Assembly Applications:



Car Electric Windows
Mechanism



Car Seat Mechanism



Car Seat Track



Bus Roof Assembly

Before Installation

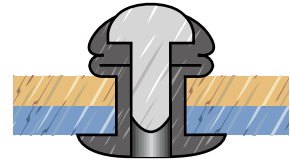
After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No		 MIN MAX		 MIN MAX		 MIN MAX		
+0.08													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	mm	inch
3.2 1/8"	3.3 .130	0.85 .035	7.2 .283	2.1 .083	SF32090D	9.0	.354	1.0	.039	4.0	.157	10,000	
					SF32130D	13.0	.512	1.0	.039	9.0	.354	8,000	
4.0 5/32"	4.1 .161	1.20 .047	8.1 .319	2.73 .107	SF40110D	11.0	.433	1.4	.055	5.0	.197	7,000	
					SF40140D	14.0	.551	1.4	.055	8.0	.315	6,000	
4.8 3/16"	4.9 .193	1.45 .057	9.8 .386	2.90 .114	SF48090D	9.0	.354	1.0	.039	4.0	.157	5,000	
					SF48110D	11.0	.433	1.0	.039	6.0	.236	5,000	
					SF48140D	14.0	.551	1.0	.039	9.0	.354	4,000	
					SF48170D	17.0	.669	3.0	.118	12.0	.472	4,000	
6.4 1/4"	6.7-6.9 .263-.271	3.0 .118	13.0 .512	4.17 .164	SF65145P	14.5	.571	1.5	.059	7.5	.295	2,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
SF32090D - SF32130D	154 / 339	175 / 385
SF40110D - SF40140D	200 / 440	240 / 528
SF48090D - SF48170D	450 / 990	390 / 858
SF65145P	700 / 1543	420 / 924

Before Installation

After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9 .193	1.30 .051	8.65 .341	2.90 .114	SF48110K	11.0	.433	2.5	.098	6.0	.236	5,000
					SF48140K	14.0	.551	3.0	.118	9.0	.354	4,000
					SF48170K	17.0	.669	4.0	.158	12.0	.472	4,000
					SF48220K	22.0	.866	8.5	.335	16.5	.650	3,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
SF48110K - SF48220K	450 / 990	390 / 858

Body Material: Low Carbon Steel
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel
Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.08												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9 .193	1.70 .067	14.0 .551	2.90 .114	SF48090L	9.0	.354	1.0	.039	4.0	.157	3,000
					SF48110L	11.0	.433	1.0	.039	6.0	.236	3,000
					SF48140L	14.0	.551	1.0	.039	9.0	.354	3,000
					SF48170L	17.0	.669	3.0	.118	12.0	.472	2,500
4.8 3/16"	4.9 .193	1.90 .075	15.85 .624	2.90 .114	SF48090X	9.0	.354	1.0	.039	4.0	.157	3,000
					SF48110X	11.0	.433	1.0	.039	6.0	.236	3,000
					SF48140X	14.0	.551	1.0	.039	9.0	.354	3,000
					SF48170X	17.0	.669	3.0	.118	12.0	.472	2,500

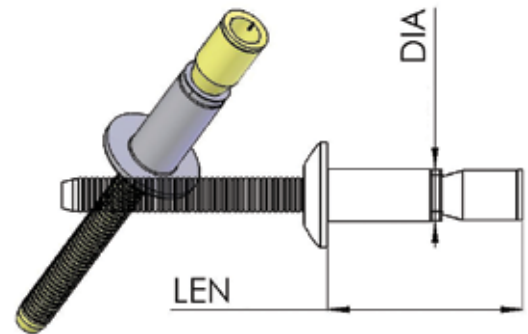
Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
SF48090L - SF48170L	450 / 990	390 / 858
SF48090X - SF48170X	450 / 990	390 / 858

Ornilock & Or-Bolt

.....

Multi-grip, structural breakstem fasteners, with internal (Ornilock) or external (Or-Bolt) locking mechanisms.



Key features include:

Features	Benefits
Excellent multi-grip performance.	Simplifies stock control. Reduces operator error. Accommodates a wide variety of material thicknesses.
Excellent hole fill capabilities.	Ideal for oversized, irregular or misaligned holes. Creates a consistently high strength, vibration resistant joint.
Positively retained stem.	Secure, vibration resistant joint.
Visible locking element.	Quick, easy inspection.
Optional decorative caps.	Enhances corrosion and water resistance properties. Complements adjacent, joint material colour.

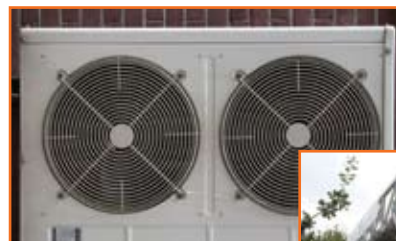
Assembly Applications:



Satellite Dishes



Steel floor Fastening



Cooling systems



Pedestrian Bridges



Ornilock Steel

Protruding Head

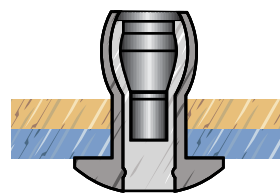
Body Material: Low Carbon Steel
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Medium Carbon Steel
Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.1												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.1 .192-.200	2.10 .082	9.8 .386	3.0 .118	M48105P	10.5	.413	1.6	.063	6.9	.272	3,000
					M48145P	14.5	.571	5.4	.213	11.1	.437	3,000
					MS48145P	14.5	.571	1.6	.063	11.1	.437	3,000
6.5 1/4"	6.62-6.9 .260-.271	2.8 .110	13.0 .512	4.0 .157	M65142P	14.2	.599	2.0	.079	9.5	.374	3,000
					M65205P	20.5	.807	8.9	.350	15.9	.626	3,000
					MS65205P	20.5	.807	2.0	.079	15.9	.626	3,000
					M65270P	27.0	1.063	15.9	.626	22.5	.886	3,000
					MS65270P	27.0	1.063	8.9	.350	22.5	.886	3,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
M48105P - MS48145P	630 / 1389	545 / 1201
M65142P - MS65275P	1250 / 2750	1000 / 2200

Before Installation

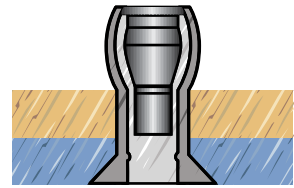
After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Medium Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.1												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/6"	4.9-5.1	1.80	8.6	3.0	M48123K	12.3	.484	3.2	.126	8.4	.331	4,000
	.192-.200	.071	.339	.118	M48165K	16.5	.650	7.8	.307	12.7	.500	3,000
6.5 1/4"	6.62-6.9	2.0	10.0	4.0	M65167K	16.7	.657	4.1	.161	12.1	.476	2,000
	.260-.271	.079	.394	.157	M65230K	23.0	.906	10.6	.417	18.4	.724	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
M48123K - M48165K	630 / 1386	545 / 1201
M65167K - M65230K	1250 / 2750	1000 / 2200

Ornilock Aluminium

Protruding Head

Body Material: Aluminium Alloy 5.0 AlMg or equivalent

Body Finish: Bright finish surface

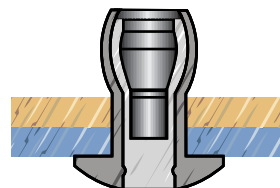
Mandrel Material: Aluminium Alloy 7075 or equivalent

Mandrel Finish: Bright finish surface

Before Installation



After Installation



Dimensions - Nominal

Dimensions - Nominal												
					ART.No			 MIN MAX				
+0.1												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.5 1/4"	6.62-6.90 .260-.271	2.80 .110	13.0 .512	4.0 .157	MH65142P	14.2	.559	2.0	.079	9.5	.374	2,000
					MH65205P	20.5	.807	8.9	.350	15.9	.626	1,500
					MHS65205P	20.5	.807	2.0	.079	15.9	.626	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
MH65142P - MHS65205P	590 / 1300	404 / 890

Ornilock Stainless Steel Protruding Head.....

Body Material: Austenitic Stainless Steel AISI 304 Cu

Body Finish: Natural

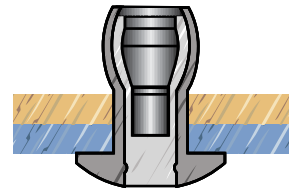
Mandrel Material: Austenitic Stainless Steel AISI 304 Cu

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.1													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
4.8 3/16"	4.9-5.1 .192-.200	2.10 .082	9.8 .386	3.0 .118	MN48105P	10.5	.413	1.6	.063	6.9	.272	4,000	
					MN48145P	14.5	.571	5.4	.213	11.1	.437	3,000	
					MNS48145P	14.5	.571	1.6	.063	11.1	.437	3,000	
6.5 1/4"	6.62-6.9 .260-.271	2.80 .110	13.0 .512	4.0 .157	MN65142P	14.2	.559	2.0	.079	9.5	.374	2,000	
					MN65205P	20.5	.807	8.9	.350	15.9	.626	1,500	
					MNS65205P	20.5	.807	2.0	.079	15.9	.626	1,500	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
M48105P - MNS48145P	590 / 1298	430 / 946
MN65142P - MNS65205P	1150 / 2530	910 / 2002

Ornilock Stainless Steel 100° Countersunk Head..

Before Installation

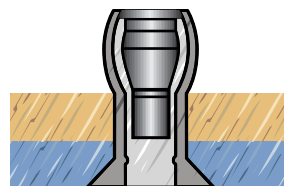
After Installation

Body Material: Austenitic Stainless Steel AISI 304 Cu

Body Finish: Natural

Mandrel Material: Austenitic Stainless Steel AISI 304 Cu

Mandrel Finish: Natural



Dimensions - Nominal

					ART.No							
								MIN	MAX			
+0.1												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.1 .192-.200	1.80 .071	8.6 .339	3.0 .118	MN48123K	12.3	.484	3.2	.126	8.4	.331	3,000
					MN48165K	16.5	.650	7.8	.307	12.7	.500	2,000
6.5 1/4"	6.62-6.9 .260-.271	2.0 .079	10.0 .394	4.0 .157	MN65167K	16.7	.657	4.1	.161	12.1	.476	2,000
					MN65230K	23.0	.906	10.6	.417	18.4	.724	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
MN48123K - MN48165K	590 / 1298	430 / 946
MN65167K - MN65230K	1150 / 2530	910 / 2002

Or-Bolt Steel

Protruding Head.....

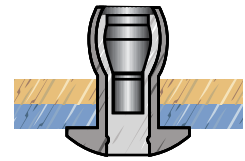
Body Material: Low Carbon Steel
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Medium Carbon Steel
Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.1												
+0.0003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.5 1/4"	6.6-6.9	2.60	13.0	4.0	J65140P	14.0	.551	2.0	.079	9.5	.374	2,000
	.260-.271	.102	.512	.157	J65190P	19.0	.748	8.9	.350	15.9	.626	1,500
					JS65190P	19.0	.748	2.0	.079	15.9	.626	1,500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
J65140P - JS65190P	1250 / 2750	1000 / 2200

Or-Bolt Steel

Countersunk Head.....

Body Material: Low Carbon Steel
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Medium Carbon Steel
Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No				MIN MAX			
+0.1												
+0.0003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.5 1/4"	6.6-6.9 .260-.271	2.0 .079	9.8 .386	4.0 .157	J65166K	16.6	.654	3.2	.126	12.1	.476	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
J65166K	1250 / 2750	1000 / 2200

Or-Bolt Aluminium

Protruding Head.....

Body Material: Aluminium Alloy ALMG 5.0 or equivalent

Body Finish: Bright finish surface

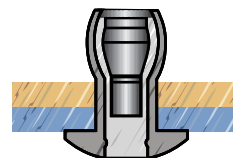
Mandrel Material: Aluminium Alloy 7075 or equivalent

Mandrel Finish: Natural finish surface

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.1							MIN	MAX					
+0.0003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
6.5	6.6-6.9	2.60	13.0	4.0	JH65140P	14.0	.551	2.0	.079	9.5	.374	2,000	
1/4"	.260-.271	.102	.512	.157	JHS65190P	19.0	.748	2.0	.079	15.9	.626	1,500	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
JH65140P - JHS65190P	610 / 1342	430 / 946

Or-Bolt Stainless Steel

Protruding Head.....

Body Material: Austenitic Stainless Steel AISI 304 Cu

Body Finish: Natural

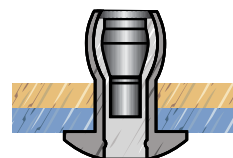
Mandrel Material: Austenitic Stainless Steel AISI 304 Cu

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

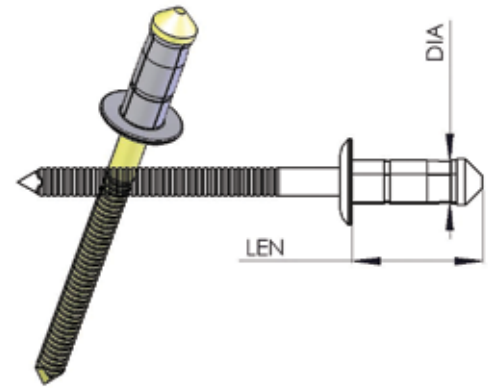
					ART.No								
+0.1							MIN	MAX					
+0.0003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
6.5	6.6-7.0	2.6	13.0	4.0	JN65140P	14.0	.551	2.0	.079	9.5	.374	2,000	
1/4"	.260-.276	.102	.512	.157	JNS65190P	19.0	.748	2.0	.079	15.9	.626	1,500	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
JN65140P - JNS65190P	1130 / 2486	980 / 2156

High strength breakstem fastener with excellent bulb-tail formation.

Key features include:



Features	Benefits
High shear and tensile strengths.	Secure, vibration resistant joint. Positively retained stem.
High heat durable properties.	Ideal for applications with elevated temperatures.
Good hole fill capabilities.	Ideal for oversized, irregular or misaligned holes. Creates a consistently high strength, vibration resistant joint.
Large blind side bearing area.	Spreads clamp load over a large area. Ideal for thin, brittle and soft sheet materials.

Assembly Applications:



Car Door Mechanism



Communication Cabinets



Industrial Ventilator



Steel frame construction

Before Installation

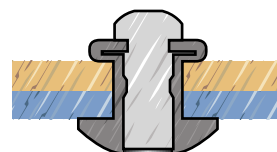
After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

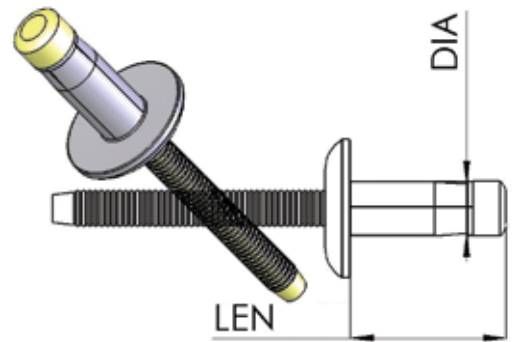
					ART.No		 MIN MAX				
+0.01											
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm inch	mm inch	mm inch	mm inch		
4.0 5/32"	4.12 .162	1.30 .051	7.7 .303	2.57 .102	SL40077D	7.7 .303	1.0 .039	3.0 .118	5.0 .197	5,000	
					SL40097D	9.7 .382	3.0 .118	5.0 .197	5,000		
					SL40127D	12.7 .500	5.0 .197	7.0 .276	5,000		
4.8 3/16"	5.0-5.1 .197-.200	1.30 .051	9.3 .366	3.05 .118	SL48088D	8.8 .346	1.5 .059	3.5 .138	5,000		
					SL48113D	11.3 .445	3.5 .138	6.0 .236	5,000		
					SL48143D	14.3 .563	6.0 .236	8.5 .335	4,000		
6.0 0.236"	6.1-6.3 .240-.248	1.80 .071	12.0 .472	3.98 .157	SL60100D	10.0 .394	1.5 .059	4.0 .157	3,000		
					SL60130D	13.0 .512	3.0 .118	6.0 .236	2,500		
					SL60160D	16.0 .630	6.0 .236	9.0 .354	2,500		
					SL60190D	19.0 .748	9.0 .354	12.0 .472	2,000		

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
SL40077D	250 / 550	285 / 627
SL40097D	360 / 792	285 / 627
SL40127D	420 / 924	285 / 627
SL48088D	367 / 807	387 / 851
SL48113D	428 / 841	387 / 851
SL48143D	571 / 1256	387 / 851
SL60100D	490 / 1078	550 / 1210
SL60130D	590 / 1298	550 / 1210
SL60160D	860 / 1892	550 / 1210
SL60190D	960 / 2112	550 / 1210

Structural, breakstem fastener, with unique double locking system and exceptional shear and tensile strengths.

Key features include:



Features	Benefits
Double locking system	Secure, vibration resistant joint. Enhances water and vibration resistant properties.
Positively retained stem.	Secure, vibration resistant joint.
Large blind side bearing area.	Spreads clamp load over a large area. Ideal for thin, brittle and soft sheet materials.
Available in a wide range of: Grip Ranges (up to 39.5 mm), Head types (P, L, X, K) and Materials (Steel, Aluminium Alloy, Stainless Steel)	Suitable for a variety of applications.
Optional decorative caps.	Enhances corrosion and water resistance properties. Complements adjacent, joint material colour.

Assembly Applications:



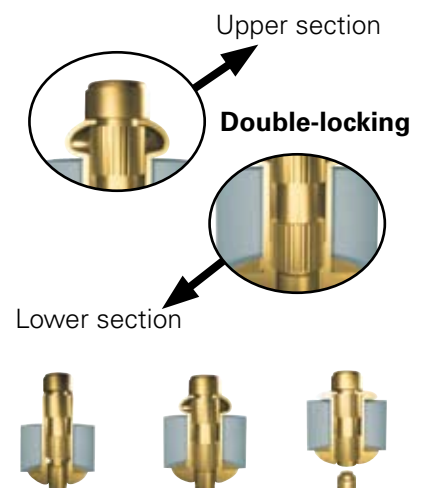
Truck Box Aluminium Frame



Steering Wheel Mechanism



Car Ventilator



Train Wagon Assembly / Repairs

Orlock Steel

Protruding Head

Before Installation

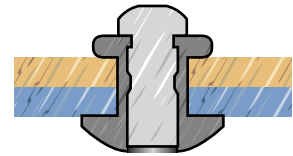
After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.01												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.1 .192-.200	2.20 .087	9.8 .386	3.02 .119	L48090P	9.0	.354	1.5	.059	3.5	.138	5,000
					L48115P	11.5	.453	3.5	.138	6.0	.236	4,000
					L48140P	14.0	.551	6.0	.236	8.5	.335	3,000
					L48165P	16.5	.650	8.5	.335	11.0	.433	3,000
					L48190P	19.0	.748	11.0	.433	13.5	.531	3,000
6.4 1/4"	6.6-6.8 .259-.267	3.0 .118	13.0 .512	4.17 .164	L64090P	9.0	.354	1.5	.059	3.5	.138	2,500
					L64105P	10.5	.413	2.8	.110	4.8	.189	2,000
					L64111P	11.1	.437	3.4	.134	5.4	.213	2,000
					L64125P	12.5	.492	4.8	.189	6.8	.268	2,000
					L64145P	14.5	.571	6.8	.268	8.8	.346	2,000
					L64165P	16.5	.650	8.8	.346	10.8	.425	2,000
					L64185P	18.5	.728	10.8	.425	12.8	.504	2,000
					L64205P	20.5	.807	12.8	.504	14.8	.583	2,000
					L64225P	22.5	.886	14.8	.583	16.8	.661	2,000
					L64245P	24.5	.965	16.8	.661	18.8	.740	1,000
					L64265P	26.5	1.043	18.8	.740	20.8	.819	1,000
					L64285P	28.5	1.122	20.8	.819	22.8	.898	1,000
					L64305P	30.5	1.201	22.8	.898	24.8	.976	1,000
					L64325P	32.5	1.280	24.8	.976	26.8	1.055	1,000
					L64355P	35.5	1.398	25.8	1.016	28.8	1.134	1,000
L64375P	37.5	1.476	27.8	1.094	30.8	1.213	1,000					
L64395P	39.5	1.555	29.8	1.173	32.8	1.291	1,000					
7.8 5/16"	8.0-8.3 .314-.326	3.70 .146	16.0 .630	5.12 .202	L78135P	13.5	.531	4.0	.157	7.0	.276	1,000
					L78165P	16.5	.650	7.0	.276	10.0	.394	1,000
					L78195P	19.5	.768	10.0	.394	13.0	.512	1,000
					L78225P	22.5	.886	13.0	.512	16.0	.630	1,000
					L78255P	25.5	1.004	16.0	.630	19.0	.748	1,000
					L78285P	28.5	1.122	19.0	.748	22.0	.866	500
					L78315P	31.5	1.240	22.0	.866	25.0	.984	500

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
L48090P	460 / 1012	360 / 792
L48115P	610 / 1342	360 / 792
L48140P - L48190P	640 / 1410	360 / 792
L64090P	700 / 1540	660 / 1452

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
L64105P - L64111P	940 / 2072	660 / 1452
L64125P	1040 / 2292	660 / 1452
L64145P - L64395P	1140 / 2508	660 / 1452
L78135P	1410 / 3102	930 / 2046
L78165P - L78315P	1600 / 3520	930 / 2046

Before Installation

After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

Mandrel Material: Medium Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free



Dimensions - Nominal

					ART.No							
+0.01												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.1 .192-.200	1.80 .071	8.5 .335	3.02 .119	L48115K	11.5	.453	3.5	.138	6.0	.236	4,000
					L48140K	14.0	.551	6.0	.236	8.5	.335	3,000
					L48165K	16.5	.650	8.5	.335	11.0	.433	3,000
					L48190K	19.0	.748	11.0	.433	13.5	.531	3,000
6.4 1/4"	6.6-6.8 .259-.267	2.0 .079	10.0 .394	4.17 .164	L64115K	11.5	.453	3.8	.150	5.8	.228	2,000
					L64125K	12.5	.492	4.8	.189	6.8	.268	2,000
					L64135K	13.5	.531	5.8	.228	7.8	.307	2,000
					L64155K	15.5	.610	7.8	.307	9.8	.386	2,000
					L64175K	17.5	.689	9.8	.386	11.8	.465	2,000
					L64195K	19.5	.768	11.8	.465	13.8	.543	2,000
					L64215K	21.5	.846	13.8	.543	15.8	.622	2,000
					L64235K	23.5	.925	15.8	.622	17.8	.701	1,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
L48115K	300 / 660	340 / 748
L48140K	400 / 880	340 / 748
L48165K	500 / 1100	340 / 748
L48190K	600 / 1320	340 / 748
L64115K	550 / 1210	560 / 1232
L64125K	650 / 1430	560 / 1232
L64135K	750 / 1650	560 / 1232
L64155K	950 / 2090	560 / 1232
L64175K - L64235K	1050 / 2310	560 / 1232

Orlock Steel

Large/X Head

Before Installation

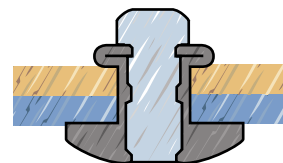
After Installation

Body Material: Low Carbon Steel

Body Finish: Zinc Plated

Mandrel Material: Low Carbon Steel

Mandrel Finish: Zinc Coated



Dimensions - Nominal

					ART.No		 MIN MAX				
+0.015											
+0.005	mm / inch	mm / inch	mm / inch	mm / inch		mm inch	mm inch	mm inch	mm inch	mm inch	
4.8 3/16"	4.9-5.1 .192-.200	2.0 .079	14.0 .551	3.02 .119	L48090L	9.0 .354	1.5 .059	3.5 .138			3,000
					L48115L	11.5 .453	3.5 .138	6.0 .236			3,000
					L48140L	14.0 .551	6.0 .236	8.5 .335			3,000
					L48165L	16.5 .650	8.5 .335	11.0 .433			2,000
					L48190L	19.0 .748	11.0 .433	13.5 .531			2,000
6.4 1/4"	6.6-6.8 .259-.267	3.0 .118	16.3 .642	4.17 .164	L64105L	10.5 .413	2.8 .110	4.8 .189			1,000
					L64125L	12.5 .492	4.8 .189	6.8 .268			1,000
					L64145L	14.5 .571	6.8 .268	8.8 .346			1,000
					L64165L	16.5 .650	8.8 .346	10.8 .425			1,000
					L64185L	18.5 .728	10.8 .425	12.8 .504			1,000
					L64205L	20.5 .807	12.8 .504	14.8 .583			1,000
					L64225L	22.5 .886	14.8 .583	16.8 .661			1,000
6.4 1/4"	6.6-6.8 .259-.287	3.0 .118	19.0 .748	4.17 .164	L64125X	12.5 .492	4.8 .189	6.8 .268			1,000
					L64145X	14.5 .571	6.8 .268	8.8 .346			1,000
					L64165X	16.5 .350	8.8 .346	10.8 .425			1,000
					L64185X	18.5 .728	10.8 .425	12.8 .504			1,000
					L64205X	20.5 .807	12.8 .501	14.8 .583			1,000
					L64225X	22.5 .886	14.8 .583	16.8 .661			1,000
					L64245X	24.5 .965	16.8 .661	18.8 .740			1,000
					L64265X	26.5 1.043	18.8 .740	20.8 .819			1,000
					L64285X	28.5 1.122	20.8 .819	22.8 .898			1,000
					L64305X	30.5 1.201	22.8 .898	24.8 .976			1,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
L48090L	460 / 1012	360 / 792
L48115L	570 / 1254	360 / 792
L48140L - L48190L	640 / 1410	360 / 792
L64105L	940 / 2068	660 / 1452
L64125L	1040 / 2288	660 / 1452
L64145L - L64225L	1140 / 2508	660 / 1452
L64125X	1040 / 2288	660 / 1452
L64145X - L64305X	1140 / 2508	660 / 1452

Orlock Steel Plywood

Protruding Head

For soft materials and plywood

Body Material: Low Carbon Steel

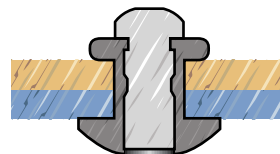
Body Finish: Zinc Plated Cr VI free

Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation

After Installation



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.015												
+0.005	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.4 1/4"	6.6-6.8 .259-.267	3.0 .118	13.0 .512	4.17 .164	LP64245P	24.5	.965	14.8	.583	16.8	.661	1,000
					LP64265P	26.5	1.043	16.8	.661	18.8	.740	1,000
					LP64285P	28.5	1.122	18.8	.740	20.8	.819	1,000
					LP64315P	31.5	1.240	20.8	.819	22.8	.898	1,000
					LP64335P	33.5	1.319	22.8	.898	24.8	.976	1,000
					LP64365P	36.5	1.437	24.8	.976	26.8	1.055	1,000
					LP64385P	38.5	1.516	26.8	1.055	28.8	1.134	1,000
					LP64405P	40.5	1.594	28.8	1.134	30.8	1.213	1,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LP64245P - LP64405P	1140 / 2508	600 / 1322

Orlock Aluminium

Protruding Head

Body Material: Aluminium Alloy AlMg 2.5

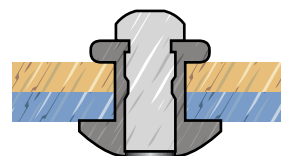
Body Finish: Bright finish surface

Mandrel Material: Aluminium Alloy AlMg 5.0/6.0/7075

Mandrel Finish: Natural

Before Installation

After Installation



Dimensions - Nominal

Dimensions - Imperial												
					ART.No							
+0.10												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
4.8 3/16"	4.9-5.1 .193-.201	2.2 .087	9.8 .386	3.0 .119	LH48090P	9.0	.354	1.5	.059	3.5	.138	1,000
					LH48115P	11.5	.453	3.5	.138	6.0	.236	1,000
					LH48140P	14.0	.551	6.0	.238	8.5	.335	1,000
					LH48165P	16.5	.650	8.5	.335	11.0	.433	1,000
					LH48190P	19.0	.748	11.0	.433	13.5	.531	1,000
6.4 1/4"	6.6-6.8 .259-.267	3.0 .118	13.0 .512	4.17 .164	LH64105P	10.5	.413	2.8	.110	4.8	.189	2,000
					LH64125P	12.5	.492	4.8	.189	6.8	.268	2,000
					LH64145P	14.5	.571	6.8	.268	8.8	.346	2,000
					LH64165P	16.5	.650	8.8	.346	10.8	.425	2,000
					LH64185P	18.5	.728	10.8	.425	12.8	.504	2,000
					LH64205P	20.5	.807	12.8	.504	14.8	.583	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LH48090P	180 / 396	170 / 374
LH48115P - LH48190P	260 / 572	170 / 374
LH64105P	430 / 946	350 / 770
LH64125P	460 / 1012	350 / 770

Orlock Aluminium

100° Countersunk Head.....

Before Installation

After Installation

Body Material: Aluminium Alloy AlMg 2.5

Body Finish: Bright finish surface

Mandrel Material: Aluminium Alloy AlMg 5.0/6.0 or equivalent

Mandrel Finish: Natural



Dimensions - Nominal

Dimensions - Nominal												
					ART.No			 MIN MAX				
+0.010												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.4 1/4"	6.6-6.8 .259-.267	2.0 .079	10.0 .394	4.17 .164	LH64115K	11.5	.453	3.8	.150	5.8	.228	2,000
					LH64135K	13.5	.531	5.8	.228	7.8	.307	2,000
					LH64155K	15.5	.610	7.8	.307	9.8	.386	2,000
					LH64175K	17.5	.689	9.8	.386	11.8	.465	2,000
					LH64195K	19.5	.768	11.8	.465	13.8	.543	2,000
					LH64215K	21.5	.846	13.8	.543	15.8	.622	2,000
					LH64235K	23.5	.925	15.8	.622	17.8	.701	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LH64115K	280 / 616	300 / 660
LH64135K	380 / 836	300 / 660
LH64155K	480 / 946	300 / 660
LH64175K - LH64235K	500 / 1100	300 / 660

Orlock Aluminium

X-Large Head

Before Installation

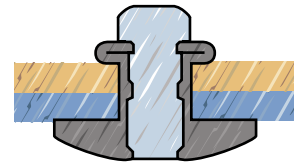
After Installation

Body Material: Aluminium Alloy AlMg 2.5

Body Finish: Bright finish surface

Mandrel Material: Aluminium Alloy AlMg 5.0/6.0 or equivalent

Mandrel Finish: Natural



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.10												
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.4 1/4"	6.6-6.8 .167-.172	3.0 .118	19.0 .748	4.17 .164	LH64090X	9.0	.354	1.5	.059	3.5	.138	1,000
					LH64105X	10.5	.413	2.8	.110	4.8	.189	1,000
					LH64111X	11.1	.437	3.4	.134	5.4	.213	1,000
					LH64125X	12.5	.492	4.8	.189	6.8	.268	1,000
					LH64145X	14.5	.571	6.8	.268	8.8	.346	1,000
					LH64165X	16.5	.650	8.8	.346	10.8	.425	1,000
					LH64185X	18.5	.728	10.8	.425	12.8	.504	1,000
					LH64205X	20.5	.807	12.8	.504	14.8	.583	1,000
					LH64225X	22.5	.886	14.8	.583	16.8	.661	1,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LH64090X	310 / 682	350 / 770
LH64105X - LH64111X	430 / 946	350 / 770
LH64125X	460 / 1012	350 / 770
LH64145X - LH64225X	500 / 1100	350 / 770

Orlock Stainless Steel

Protruding Head.....

Before Installation

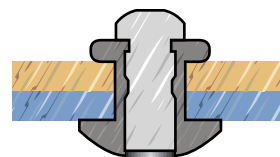
After Installation

Body Material: Austenitic Stainless Steel - 304 Cu

Body Finish: Natural

Mandrel Material: Austenitic Stainless Steel - 304 Cu

Mandrel Finish: Natural



Dimensions - Nominal

					ART.No								
-0/+0.2													
-0/+0.007	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
4.8 3/16"	4.9-5.1 .192-.200	2.20 .087	9.8 .386	3.03 .119	LN48090P	9.0	.354	1.5	.059	3.5	.138	5,000	
					LN48115P	11.5	.453	3.5	.138	6.0	.236	4,000	
					LN48140P	14.0	.551	6.0	.236	8.5	.335	3,000	
					LN48165P	16.5	.650	8.5	.335	11.0	.433	3,000	
					LN48190P	19.0	.748	11.0	.433	13.0	.512	3,000	
6.4 1/4"	6.6-6.7 .259-.263	3.0 .118	13.0 .512	4.17 .164	LN64105P	10.5	.413	2.0	.079	4.5	.189	2,000	
					LN64125P	12.5	.492	4.0	.157	6.5	.260	2,000	
					LN64145P	14.5	.571	5.0	.197	8.5	.335	2,000	
					LN64165P	16.5	.650	7.0	.276	10.5	.413	2,000	
					LN64185P	18.5	.728	9.0	.354	12.5	.492	2,000	
					LN64205P	20.5	.807	11.0	.433	14.0	.551	2,000	
					LN64225P	22.5	.886	13.0	.512	16.0	.630	2,000	
7.8 5/16"	8.0-8.3 .314-.326	3.80 .146	16.0 .630	5.12 .202	LN78135P	13.5	.531	4.0	.157	7.0	.276	1,000	
					LN78165P	16.5	.650	7.0	.276	10.0	.394	1,000	
					LN64195P	19.5	.768	10.0	.394	13.0	.512	1,000	
					LN64225P	22.5	.886	13.0	.512	16.0	.630	1,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LN48090P	620 / 1364	510 / 1122
LN48115P - LN48190P	700 / 1540	510 / 1122
LN64105P	1440 / 3168	850 / 1870
LN64125P - LN64225P	1480 / 3256	850 / 1870
LN78135P	2050 / 4520	1300 / 2860
LN78165P - LN64225P	2200 / 4850	1300 / 2860

Orlock Stainless Steel 100° Countersunk Head..

Before Installation

After Installation

Body Material: Austenitic Stainless Steel - Cu304

Body Finish: Natural

Mandrel Material: Austenitic Stainless Steel - Cu304

Mandrel Finish: Natural



Dimensions - Nominal

					ART.No		 MIN MAX					
+0.015												
+0.005	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.4 1/4"	6.6-6.8	2.0	10.0	4.17	LN64135K	13.5	.531	4.8	.189	7.8	.307	2,000
					LN64155K	15.5	.610	6.8	.268	9.8	.386	2,000
	.259-.267	.079	.394	.164	LN64175K	17.5	.689	8.8	.346	11.8	.465	2,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LN64135K	1100 / 2420	850 / 1870
LN64155K	1300 / 2860	850 / 1870
LN64175K	1400 / 3080	850 / 1870

Orlock Stainless Steel

Large Head.....

Before Installation

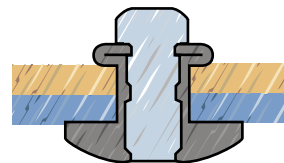
After Installation

Body Material: Austenitic Stainless Steel - 304 Cu

Body Finish: Natural

Mandrel Material: Austenitic Stainless Steel - 304 Cu

Mandrel Finish: Natural



Dimensions - Nominal

					ART.No			 MIN MAX				
+0.15												
+0.005	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	
6.4 1/4"	6.6-6.8 .259-.267	3.1 .122	16.3 .642	4.17 .164	LN64105L	10.5	.413	2.0	.079	4.5	.177	1,000
					LN64125L	12.5	.492	4.0	.157	6.5	.256	1,000
					LN64145L	14.5	.571	5.0	.197	8.5	.335	1,000
					LN64165L	16.5	.650	7.0	.276	10.5	.413	1,000
					LN64185L	18.5	.728	9.0	.354	12.5	.504	1,000

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LN64105L	1440 / 3168	850 / 1870
LN64125L - LN64185L	1480 / 3256	850 / 1870

Super Orlock Steel

Protruding Head

HIGH STRENGTH, LARGE GRIP RANGE

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

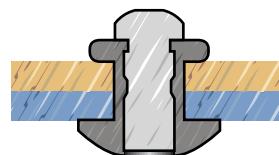
Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No		 MIN MAX		 MIN MAX		 MIN MAX		
+0.10													
+0.003	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch	mm	inch
6.5 1/4"	6.7-6.9 .263 -.271	3.0 .118	13.0 .512	4.17 .164	LS65105P	10.5	.413	2.0	.079	4.5	.177	2,000	
					LS65125P	12.5	.492	3.0	.118	6.5	.256	2,000	
					LS65145P	14.5	.571	5.0	.197	8.5	.335	2,000	
					LS65165P	16.5	.650	7.0	.276	10.5	.413	2,000	
					LS65185P	18.5	.728	9.0	.354	12.5	.492	2,000	
					LS65205P	20.5	.807	11.0	.433	14.5	.571	2,000	
					LS65225P	22.5	.886	13.0	.512	16.5	.650	1,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LS65105P	1100 / 2420	810 / 1782
LS65125P	1250 / 2750	810 / 1782
LS65145P	1400 / 3080	810 / 1782
LS65165P	1450 / 3190	810 / 1782
LS65185P - LS65225P	1570 / 3454	810 / 1782

Super Orlock Steel

Large/X Head.....

HIGH STRENGTH, LARGE GRIP RANGE

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

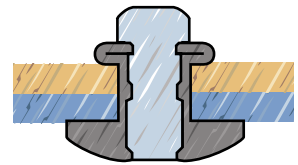
Mandrel Material: Carbon Steel

Mandrel Finish: Zinc Plated Cr VI free

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.18													
+0.007	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
6.5 1/4"	6.7-6.9 .263-.271	3.0 .118	16.3 .642	4.17 .164	LS65145L	14.5	.571	5.0	.197	8.5	.335	1,000	
					LS65165L	16.5	.650	7.0	.276	10.5	.413	1,000	
					LS65185L	18.5	.728	9.0	.354	12.5	.492	1,000	
					LS65205L	20.5	.807	11.0	.433	14.5	.571	1,000	
					LS65225L	22.5	.886	13.0	.512	16.5	.650	1,000	
6.5 1/4"	6.7-6.9 .263-.271	3.0 .118	19.0 .748	4.17 .164	LS65145X	14.5	.571	5.0	.197	8.5	.335	1,000	
					LS65165X	16.5	.650	7.0	.276	10.5	.413	1,000	
					LS65185X	18.5	.728	9.0	.354	12.5	.492	1,000	
					LS65205X	20.5	.807	11.0	.433	14.5	.571	1,000	
					LS65225X	22.5	.886	13.0	.512	16.5	.650	1,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LS65145L	1400 / 3080	810 / 1782
LS65165L	1450 / 3190	810 / 1782
LS65185L - LS65225L	1570 / 3454	810 / 1782
LS65145X	1400 / 3080	810 / 1782
LS65165X	1450 / 3190	810 / 1782
LS65185X - LS65225X	1570 / 3454	810 / 1782

Super Orlock Steel - Stainless Protruding Head..

HIGH STRENGTH, LARGE GRIP RANGE

Body Material: Low Carbon Steel

Body Finish: Zinc Plated Cr VI free

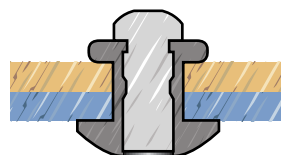
Mandrel Material: Austenitic Stainless Steel - Cu304

Mandrel Finish: Natural

Before Installation



After Installation



Dimensions - Nominal

					ART.No								
+0.18													
+0.007	mm / inch	mm / inch	mm / inch	mm / inch		mm	inch	mm	inch	mm	inch		
6.5 1/4"	6.7-6.9 .263-.271	3.0 .118	13.0 .512	4.17 .164	LSN65105P	10.5	.413	2.0	.079	4.5	.177	2,000	
					LSN65125P	12.5	.492	3.0	.118	6.5	.256	2,000	
					LSN65145P	14.5	.571	5.0	.197	8.5	.335	2,000	
					LSN65165P	16.5	.650	7.0	.276	10.5	.413	2,000	
					LSN65185P	18.5	.728	9.0	.354	12.5	.492	2,000	
					LSN65205P	20.5	.807	11.0	.433	14.5	.571	2,000	
					LSN65225P	22.5	.886	13.0	.512	16.5	.650	1,000	

Forces - Nominal

ART.No		
	kg / Lbs.	kg / Lbs.
LSN65105P	1100 / 2420	810 / 1782
LSN65125P	1250 / 2750	810 / 1782
LSN65145P	1400 / 3080	810 / 1782
LSN65165P	1450 / 3190	810 / 1782
LSN65185P - LSN65225P	1570 / 3454	810 / 1782



Plastic caps fit over the head of the rivet before rivet installation, the rivet is installed and then the plastic cap is closed.

Advantages:

- Matches the surrounding joint material, providing a neat, uniformed finish.
- Enhances water resistant properties.
- Fast and easy installation.
- Available in a wide selection of colours.



Before Installation



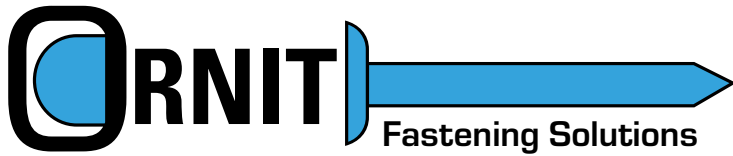
After Installation



Close after Installation



"Official USA Partner"



ORNIT BLIND RIVETS



Construction



Domestic Appliances



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Railways

contacts:

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Phone: 1-888-GO-BLUE-5, Fax: 562.903.1662, info@bluepneumatic.com
www.bluepneumatic.com