

Materials

The following materials are used for Steel City Spring Steel Fasteners:

High Carbon Spring Steel

Spring steel products are manufactured using high carbon, cold rolled steel, AISI C1075 or equivalent. The final part is heat treated to give the formed product great resilience and strength.

Low Carbon Steel

Mild steel products are manufactured using low carbon, cold rolled steel, AISI C1008 or equivalent. Such parts receive a zinc or painted finish to protect the finished product.

Finishes

Zinc Phosphate

The Zinc Phosphate finish is per MIL-SPEC-16232, type Z. This finish includes a Zinc Phosphate base with a supplementary sealant applied. The finished product will withstand 24 to 72 hours of saltspray testing in accordance with ASTM B117.

Pre-Galvanized

Products receiving a Pre-Galvanized finish are Low Carbon Steel products with a coating of Zinc applied to the Steel prior to part fabrication. This finish is in conformance with ASTM A525.

Electro-Galvanized

The Electro-Galvanized finish is a Zinc finish which includes an electro-plated layer of Zinc and then a Zinc Chromate. This finish is applied after fabrication and is in conformance with ASTM B633.

Painted

Some products in the Steel City line receive a Painted finish. Parts are painted for applications which require alternate colors to the standard black Zinc Phosphate (such as which acoustical ceilings).

Load Ratings

The Steel City Spring Steel Fasteners products shown in this catalog have a load limit based on the following:

Static Load Limit

Such products show the load limit which is based on a safety factor of 3.

Ultimate Static Load Limit

Such products show the load limit which is the highest load allowed, with no safety factor.

These Load Limits apply only to catalog numbers which list such a limit. For both instances, the static load limits apply only in the orientation described in the catalog or instruction sheet. These loads apply only to the fastener, the structure to which it will be attached must be evaluated separately.

Individual Part Numbering System

SSF - H A 1/4 T

1 2 3 4 5

1. Catalog numbers will be preceded by an "SSF" to signify it is a Spring Steel Fastener part and to give it a unique catalog number. Non-Spring Steel Fastening items in this catalog are not preceded by SSF.
2. This portion of the catalog number is a one letter index based on the category the product falls in. For this example, "H" is used for the Hangers category. The following is a list of all the categories and their one letter index:
 - B – Beams and Purlin
 - H – Hangers
 - C – Conduit and Cable
 - S – Stud Wall and Drywall
 - T – Acoustical Tee
 - V – Low Voltage / Telecom
 - M – Miscellaneous
3. This portion of the catalog number references the style in a given category. For this example, "A" is used for the rod and wire hanger with thread impressions.
4. This portion of the catalog number is numeric and will be based on the size or range of sizes the part will fit. For example, the SSF-HA1/4T is a hanger that fits 1/4" threaded rod, so the numeric code would be 1/4.
5. A final letter may be but will not always be included after the numeric code. This final letter indicates one of the following:
 - S – the part has an attached stud
 - T – the part has a thread impression
 - A – adjustable

Riveted Combinations

SSF - B V1/4 - A3/8

1 2 3 4

1. As with the individual parts, riveted combinations will always be preceded by an "SSF" to signify it as a Spring Steel Fastener part.
2. This portion of the catalog number, as with the individual part, is a one letter index based on the category of the product. For this example, "B" is used for the Beams and Purlin category. (See listing above.)
3. Riveted combinations of two parts will have a catalog number constructed from the two individual catalog numbers. This portion of the catalog number references the style and numeric size or range for the first piece of the combination (see #3 and #4 under the Individual Part Numbering System). Note that the first part in the combination will have the same category as the combination. In this example, V1/4 represents a vertical flange or C-purlin clip with an individual catalog number of SSF-BV1/4.
4. This portion of the catalog number references the style and numeric size or range for the second piece of the combination (see #3 and #4 under the Individual Part Numbering System). In this example, the A3/8 represents the rod hanger with an individual catalog number of SSF-HA3/8.