Steel City hangers, clamps and fasteners Overview

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 an application of zinc or paint 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.
- **Pregalvanized**
  Products receiving a pregalvanized 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.
- **Electrogalvanized**
  The electrogalvanized 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 that require alternate colours to the standard black zinc phosphate (such as acoustical ceilings).

Load ratings

The Steel City spring steel fasteners products shown in this catalogue have a load limit based on the following:

- **Static load limit**
  Such products show the load limit that is based on a safety factor of 3.
- **Ultimate static load limit**
  Such products show the load limit that is the highest load allowed.

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