

# **Steel City**® Spring Steel Fasteners

## Technical Information

### 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 electroplated 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).