

TECHNICAL SPECIFICATIONS

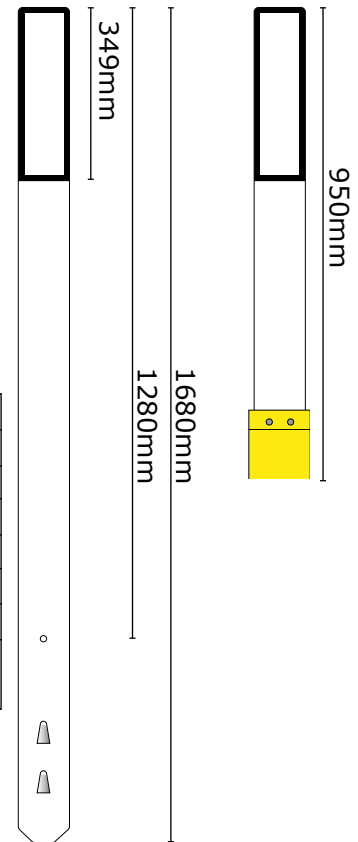
STEEL FLEX GUIDE POSTS and UTILITY MARKER POSTS.

SF-SF13-SF14-SF16 –SFMP Series

DIMENSIONS

Overall Width (facing traffic)	103mm
Delineator face width	103mm
Depth	10mm
Total length	1680mm (950 mm surface mount)
Recommended Exposed length	1280mm (950 mm surface mount)
Shape	"C" channel Radius 125mm
Color	White and black
Relective	77mmx324mm White, Yellow, Orange

Canada Pat. No. 2544067



DEFINITION

The Steel-Flex® is a unique All Steel Flexible Delineator Post which may be driven with the aid of a suitable manual or mechanical driving device. It is capable of withstanding repeated collisions by vehicles with minimal damage to the post or vehicle.

The Steel-Flex® Flexible All Steel Delineator Post complies with the following standards:

- British & European Standard
- EN 12899-3:2006
- Australian Standard
- AS1742.2-1994

MATERIAL

The Steel-Flex® Flexible All Steel Delineator Post is made from 1.2mm Flexible Steel.

DURABILITY

The Steel-Flex® Flexible All Steel Delineator Post is capable of retaining a minimum of 75% of its colour, appearance and physical properties for 10 years when exposed to the extremes of Australian weather conditions. They are fire resistant and the powder coating can withstand temperatures of up to 140°C.

WIND DEFLECTION

The Steel-Flex® Flexible All Steel Delineator Post stands vertical when installed. Testing has shown that the post will not deflect more than 35mm when subjected to wind speeds of 45m /sec. (162 kph) on the front face (convex surface) of the post.

BENDING PROPERTIES

The load required to bend each post length of 1000mm long to an angle of 90deg. should not be less than 30 N.

IMPACT AND WHEEL-OVER RESISTANCE

The Steel-Flex® Flexible All Steel Delineator Post returns to vertical automatically after vehicle impact. It has been tested to 10 impacts from a passenger type vehicle at 100 kph without compromising the integrity of the post. It has been tested to 10 wheel-over's at 50kph from a fully laden 42 Tonne Truck without compromising the integrity of the post.

WEATHERING RESISTANCE

Steel-Flex® Flexible All Steel Delineator Posts are coated with the highest grade Polyester Powder with exceptional UV resistance and 10 year superior weathering Characteristics tested to comply with the following standards:

Impact Resistance (ASTM D - 2794)

Adhesion (ISO 2815)
2000 hr Salt Spray (ASTM B - 117)

FINISH & COLOUR

All faces of the Steel-Flex® Flexible All Steel Delineator Posts are a smooth gloss white Powder Coat Finish to a min. thickness of 70 microns over a "state of the art Thermal Diffusion Galvanized (ArmorGalv®) which offers greater corrosion protection and adhesion for Powder Coating" anti-corrosive treatment to a min. thickness of 70 microns and generally require no maintenance.

FLAME RESISTANCE

Non Flammable

MARKING

The name of the manufacturer and the date of manufacture (month and year) with characters at a minimum 1 cm height, are applied to the backside (Concave surface) of the post. The burial depth will be marked by a 12 dia. hole punched into the post, at a distance of 40cm from the lower pointed edge. White reflective sheet on the concave surface and red on the convex surface shall be applied.

POST ANCHORAGE

Steel-Flex® Flexible All Steel Delineator Posts are driven into ground to a minimum Depth of 350mm. This provides both stability and alignment and resistance to pulling out by hand. Testing has shown, that when installed correctly in average ground conditions, there is a force of over 500kg required to remove the post out of the ground.

An area of ground 100mmdeep x 100mm long x 100mmwide needs to be removed to allow the bend radius to form when there is a direct wheel-over by a vehicle.

(See attached installation instruction sheet)

This void may be filled with sand if required.

DELINEATORS

Delnorth Steel Posts can be fitted with all available types of Guide Post delineators and Marker Post stickers complying with AS1906.1. The posts can be driven in with delineators or stickers attached.

HEAT RESISTANCE TEST

The post will be conditioned for 2 hours at + 60° C. The conditioned post will then be capable of straightening itself within 30 seconds when bent at 90° from one end of the post in the direction of normal face (convex surface). This test will be carried out five times within 2 minutes, after the sample has been removed from the stove.

Result of Steel-Flex = Pass (1 second each bend)

COLD RESISTANCE TEST

The post will be conditioned for 2 hours at - 10° C. The conditioned post will then be capable of straightening itself within 30 seconds when bent at 90° 800mm from one end of the post in the direction of normal face (convex surface) This test will be carried out five times within 2 minutes, after the sample has been removed from the cooler.

Result of Steel-Flex = Pass (1 second each bend)

STEEL BALL TEST

The post will be conditioned for 2 hours at - 10° C. The conditioned post shall show no signs of fracturing or splitting when a 1 kg steel ball is dropped from a height of 1500mm through a friction less guide to impact the surface of the post. The post shall be flat in a horizontal position supported at both ends. This test will be carried out five times within 10 minutes, after the sample has been removed from the cooler.

Result of Steel-Flex = Pass (1 second each bend)

PACKAGING

Boxes of 10 with Installation Instructions Included.
50 boxers per pallet.

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