

PRODUCT INFORMATION - TECHNICAL SPECIFICATION

STEEL-FLEX SURFACE MOUNT DELINEATOR POSTS SFSM-1

Definition

The Steel-Flex® Surface Mount is a unique Steel Flexible Delineator Post mounted on a flexible specially formulated Polyurethane Base. It is capable of withstanding repeated collisions by vehicles with minimal damage to the post or vehicle.

The Steel-Flex® Surface Mount Delineator Post complies with the following standards

British & European Standard **EN 12899-3:2007**
Australian Standard **AS1742.2-1994**

POST

The physical and mechanical properties of the product shall conform to the following clauses.

1. DIMENSION AND SHAPE

1.1 Dimension and shape of the Steel-Flex® Flexible All Steel Delineator Post shall be as follows:

Width	- Overall width (facing traffic)	= 103mm
	- Delineator face	= 103mm
Depth		= 10mm
Length		= 550 to 1250mm
Thickness (After Surface Coating)		= 1.5mm
	- Ground line mark at 400mm in Ground	
Shape	- "C" channel Radius 125mm	
Reflector size		= As required

Tolerances:

- a) Width – Length
The tolerance value of the measures specified in clause 1.1, for width and length shall be +/- 5%
- b) Curvature Tolerance
Curvature tolerance shall not exceed + 3mm
- c) Thickness Tolerance
The tolerance value for the thickness of the delineator is +/- 5%

2. GENERAL PROPERTIES

2.1 General:

The standards specified in this technical specification shall comply with the following tests and criteria.

a) 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 weather conditions.

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b) Material

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

c) Finish and Colour

All faces of the Steel-Flex® Flexible All Steel Delineator Posts are a smooth gloss white Powder Coat Finish over a Hot Dip Galvanized coating over the entire length. It shall exhibit good workmanship and shall be free of roughness, sharp edges, discolouration and other objectionable marks or defects which may effect appearance, serviceability and attachment of Reflectors.

d) 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.

e) Impact and Wheel-over Resistance

The Steel-Flex® Flexible All Steel Delineator Post returns to vertical automatically after vehicle impact or wheel-over.

f) Surface Treatment

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 Hot Dip Galvanized anti-corrosive treatment to a min. thickness of 70 microns and generally require no maintenance.

g) 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)

h) Water Absorption

Not Applicable due to the Polyester Coating

i) Flame Resistance

Non Flammable

j) Reflectors

Steel-Flex® Flexible All Steel Delineator Posts shall be fitted with reflectors complying With ASTM D 4956-94 Retroreflective Sheets for Traffic Signs Type111, AS.1906.1 and all relevant British and European standards.

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BASE

Durability & Weathering Resistance

The **Steel-Flex ® Bases** are capable of retaining a minimum 75% of their appearance and physical properties for at least five years when exposed to the extremes of weather conditions.

Testing has proven that there is no change in physical properties when subjected to temperatures as low as -60 deg. C to as high as +80 deg. C

Material

The **Steel-Flex ® Bases** are manufactured from a specially formulated Polyurethane compound.

Typical Physical Properties

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUES
Shore Hardness	ASTM D-2240	85A
Tensile Strength	ASTM D-412	5800 psi
Elongation @ Break	ASTM D-412	630%
Modulus @ 100% Elongation	ASTM D-412	950 psi
Modulus @ 300% Elongation	ASTM D-412	1450 psi
Tear Strength	ASTM D-624 (Die C)	540 lb/in
Abrasion Loss	DIN 53.516	20 mm ³

Impact Resistance

The **Steel-Flex ® Bases** return to their original position after every impact in any direction, therefore eliminating the need for re-straightening. They have been Impact **Tested to over 1,000 impacts without failure.**

Finish and Colour

All faces of the **Steel-Flex ® Bases** are smooth and free of any sharp edges and come in a standard safety colour of Safety Yellow. High performance Cadmium Pigments offer high colour strength and good light and weatherfastness.

Base Anchorage

The **Steel-Flex ® Bases** can be :-

Bolted & Glued onto any concrete surface with the use of any of the common types of masonry anchors available and with the use of quick setting Epoxy Glue.

Recommended min. dia. of masonry anchor is **12mm dia. X 75mm long.**

CONNECTION OF POST to BASE:

The Steel-Flex® Delineator post is connected to the Steel-Flex® Base by the use of 2 only Magna Grip anti-vandal Fasteners.