

PRODUCT INFORMATION - TECHNICAL SPECIFICATION

GLARE-FLEX ANTI GLARE SCREEN GF650 – GF850

Definition

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

The Glare-Flex® Anti Glare Screen complies with the following standards

British & European Standard DIN-EN 12676-1

British & European Standard DIN-EN 12676-2

Australian Standard AS1742.2-1994

Posts

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 Glare-Flex® Anti Glare Screen Post shall be as follows:

Width	- Overall width (facing traffic)	= 206mm
Depth		= 10mm
Length	- Overall height	=700, 800, 900, 1000, 1100 & 1200mm
Thickness (After Surface Coating)		= 1.5mm
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 Glare-Flex® Anti Glare Screen Post is capable of retaining a minimum of 75% of it's colour, appearance and physical properties for 10 years when exposed to the extremes of weather conditions: -40° C+ 80° C.

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b) Material

The Glare-Flex® Anti Glare Screen Post is made from 1.2mm Flexible Steel.

c) Finish and Colour

All faces of the Glare-Flex® Anti Glare Screen Posts are a smooth gloss 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, discoloration 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 Resistance

The Glare-Flex® Anti Glare Screen Post returns to vertical automatically after vehicle impact.

f) Surface Treatment

All faces of the Glare-Flex® Anti Glare Screen Posts are a smooth gloss Powder Coat Finish to a min. thickness of 70 microns over a Hot Dip Galvanized anti-corrosive treatment to a min. thickness of 45 microns and generally require no maintenance.

g) Weathering Resistance

Glare-Flex® Anti Glare Screen 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

Glare-Flex® Anti Glare Screen 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 & STRAP

Durability & Weathering Resistance

The **Glare-Flex ® Bases and Straps** 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 -40 deg. C to as high as +80 deg. C

Material

The **Glare-Flex ® Bases and Straps** are manufactured from a specially formulated High Impact Resistant Glass filled Nylon compound.

Typical Physical Properties

Properties	Unit	Method	Value
PROPERTIES			
Density	g/cm ³	ISO 1183/A	1.37
Humidity (Karl-Fischer)	%	ISO 15512/A	< 0.25
MECHANICAL PROPERTIES (d.a.m)			
Stress at break	MPa	ISO 527	150
Strain at break ϵ_B	%	ISO 527	2
Tensile Modulus	MPa	ISO 527	9900
Flexural Modulus	MPa	ISO 178	8400
Flexural Strength	MPa	ISO 178	200
CHARPY impact strength	kJ/m ²	ISO 179/1eU (23°C)	50
CHARPY notched impact strength	kJ/m ²	ISO 179/1eA (23°C)	8.5
THERMAL PROPERTIES			
Heat Deflection Temperature (HDT)	°C	ISO 75/A (1.80N/mm ²)	200
VICAT Softening Temperature (VST)	°C	ISO 306 (50N)	> 200

Impact Resistance

The **Glare-Flex ® Bases and Straps** return to their original position after every impact in any direction, therefore eliminating the need for re-straightening.

Finish and Colour

All faces of the **Glare-Flex ® Bases and Straps** are smooth and free of any sharp edges and come in a standard UV resistant colour of Black. High performance Cadmium Pigments offer high colour strength and good light and weatherfastness.

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Base Anchorage

The **Glare-Flex® Bases** can be :-

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

Recommended min. dia. of masonry anchor is **10mm dia. x 50mm long and 24mm OD Washer**

CONNECTION OF POST to BASE & Straps:

The Glare-Flex® Anti Glare Screen Posts is connected to the Glare-Flex® Bases by the use of 4 only Zinc Plated 3/16" Huck Pins & Collars and 2 only Zinc Plated Orlock Bulb Rivets.