

# SAFE-HIT® GLARESCREEN SYSTEM GENERAL PRODUCT SPECIFICATION

## 1.0 Description:

This item shall govern the furnishing, placement and maintenance of modular GlareScreen systems mounted on permanent concrete barrier, walls or portable concrete median barriers, (PCMB). The GlareScreen, which meets or exceeds these specifications, is available from Safe-Hit, 2525 Stemmons Freeway, Dallas, Texas 75207, Telephone number (800) 537-8958.

## 2.0 General:

The Glare Screen systems are modular, with components consisting of a vertical blade, a base, horizontal base rails and necessary hardware.

## 3.0 Materials:

The Glare Screen system shall be made of durable, impact-resistant, polymeric materials. All materials shall be new.

- A. The base rails shall be manufactured and assembled in 11" and 24" sections to provide rails that will not overhang the end of the barrier wall. GlareScreen modules are adaptable to any length barrier and shall not span any two portable barrier sections. The system is designed to require five (5) assemblies and anchors per 10-foot PCMB section and six (6) assemblies and anchors for a 12-foot PCMB section.
- B. The system shall require a nonmetallic base, designed so the flexible blade can be retained in place by two friction locking pins. These pins can be easily removed for repair or maintenance.
- C. GlareScreen blades shall be green, orange or white in color. Blades have a nominal width of 9 inches and are available in three heights: 18", 24" and 30". The combined effect of the blade width, angle and spacing will provide a minimum 22-degree cutoff angle with respect to the direction of traffic.
- D. The system is designed to be mounted with an anchor directly into the concrete barrier wall at each base location. Attachment shall be by means of a mechanical anchoring system specified by the manufacturer.
- E. Optional reflective sheeting may be applied to the blades in the color, position, and interval as required by the using agency.

## 4.0 Performance:

One 10 ft. section of GlareScreen system shall withstand five impacts with a steel paddle beginning with 15 mph [24 km/h], and progressing through 25 mph [40 km/h], 35 mph [56 km/h], 45 mph [72 km/h], and 56 mph [90 km/h]. The device used for impacting the GlareScreen blades shall be a 16" x 24" x 1/8" thick steel plate. The steel plate shall be oriented with the long side horizontal and the vertical center axis aligned with the blade vertical center axis. The bottom edge of the plate shall be positioned 10" +1/2"/-0" above the top of the barrier wall. After the five impacts all five blades shall remain attached to the system, stand generally erect, be serviceable, and exhibit no delamination or cracking. Additional information on testing procedures and test results is available from Safe-Hit.

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## GLARESCREEN SYSTEM COMPONENTS

**Blade:** 9" W x 18" H, 9" W x 24" H and 9" W x 30" H  
Green high-impact polymer with radius corners  
Weight: 18": 0.70 lbs. each  
24": 0.88 lbs. each  
30": 1.10 lbs. each

**Full Rail Section:** 24" L x 5-15/32" W x 5/8" H  
White high-impact polymer  
Weight: 1.26 lbs. each

**Half Rail Section:** 11" L x 5-15/32" W x 5/8" H  
White high-impact polymer  
Weight: 0.57 lbs. each

**Blade Base:** Ø4-3/4" x 1-7/8"  
Black high-impact polymer  
Weight: 0.48 lbs. each

**Shipping Weight:** 18" Blades: 1.72 lbs. per linear foot  
24" Blades: 1.81 lbs. per linear foot  
30" Blades: 1.92 lbs. per linear foot

