

# SAFE-HIT®

## GlareScreen SYSTEM Installation Instructions (TAPER BOLTS)

The following instructions are meant to familiarize workers with the proper installation procedures of Safe-Hit GlareScreen Systems.

Worker safety and the use and proper handling of tools and equipment are paramount and should be followed at all times. The use of personal protection devices such as eye and hearing protection is recommended at all times.

Modification of the design or any components of the Safe-Hit GlareScreen System could reduce the product performance, void the warranty, and may create liability exposure for the installation or use agency.

The Safe-Hit GlareScreen System is packaged in convenient boxes of 100 or 120 linear feet, depending on the length of the barrier wall sections; 10, 12, or 20 foot long wall sections. The materials are designed to be transported in their original shipping to the job site for assembly and installation.

Each box will contain the following components:

<u>100 Ft. Kit</u>	<u>120 Ft. Kit</u>	<u>Component Description</u>
40	50	GlareScreen Track Section (2 Foot)
20	20	GlareScreen Track End Section (1 Foot)
50	60	GlareScreen Base
50	60	GlareScreen Blade
50	60	Hardware Sets: Taper Bolt Anchor Lock Washer Flat Washer

The following tools are recommended for proper Glare Screen System installation:

Carbide Tipped Concrete Drill Bit (3/8" x 6")	Ratchet Wrench (1/2" drive)
Compressed Air or Blowout Bulb	Roll Pin Pilot Punch (1/4")
Electrical Power Source (110V)	Rotary Hammer Drill with Depth Gauge
Extension Cord (100')	Tape Measure
Hammer (2 1/2 lb.)	Torque Wrench (1/2" drive)
Miter Saw (10")	9/16" Socket (1/2" Drive)
Permanent Marker	

### *INSTALLATION PROCEDURE*

1. Transport the components in their original shipping containers to the job site.
2. Assemble the 2' GlareScreen track sections on the barrier wall. Use the 1' GlareScreen track end sections on each end of the barrier wall. Do not span barrier wall joints with track sections. Track sections may be easily cut with a miter saw as required to allow for variances in barrier wall or for obstructions.
3. Use the assembled GlareScreen track sections as a template to mark the drill locations for the anchor holes. Mark through the center holes in the joined sections of GlareScreen track ends with a permanent marker to mark the location of the anchor holes.

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## INSTALLATION PROCEDURE

4. Set the depth gauge on the rotary hammer drill to 2" minimum.
5. Move the assembled GlareScreen track sections off the barrier wall.
6. Drill the holes with the rotary hammer drill using a 3/8" diameter, 6" long carbide tipped drill bit to a depth of 2" minimum.
7. Blow out the holes and clean off the top of the barrier wall using compressed air or a blow out bulb.
8. Reposition the assembled GlareScreen track section onto the barrier wall aligning the center holes in the joined sections of GlareScreen track ends over the drilled holes.
9. Place the GlareScreen bases onto the GlareScreen track positioning studs, aligning for proper insertion of taper bolts through base and track into the barrier wall. Check to insure that the base is placed on the track studs correctly for required orientation of the blade on the barrier wall. The GlareScreen bases can be positioned to offer one of three different GlareScreen blade angles depending on the use of the product, either as glare or gawk screen.
10. Pre-assemble a lock washer and flat washer over the wedge and on the taper bolt. The lock washer must be closest to the head of the bolt. Note: If the wedge is removed from the bolt insure that it is properly re-installed on the taper bolt.
11. Drop the pre-assembled taper bolt with washers through the Glare Screen Base and Track into the drilled hole in the barrier wall. Using the hammer, tap the head of the taper bolt into the drilled hole until there is approximately 3/16" clearance between the bottom of the bolt head and the washers.
12. Tighten the hex nut and torque to 40 lb-ft.
13. Insert the GlareScreen blade into the slots in the base insuring that the bottom of the blade locates into the orientation slots in the GlareScreen track sections. Tap on the top of the blade with a hammer to firmly set the blade into the base.
14. Drive the pre-installed roll pins through the GlareScreen blade and into the opposite side of the GlareScreen base using a hammer.
15. Install reflective material as specified in the plans.

A Safe-Hit employee will be available to train your installation crew on the proper installation of the SAFE-HIT GlareScreen system. We recommend that you don't start the installation until receiving our thorough training. Please contact our Customer Service Department to schedule your training, which should coincide with your installation start date.