



GLARE SCREEN SYSTEM – U-CHANNEL MOUNTED

Installation Instructions (DROP-IN ANCHORS)

The following instructions are meant to familiarize workers with the proper installation procedures of Safe-Hit Glare Screen U-Channel Mounted 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 Glare Screen System could reduce the product performance, void the warranty, and may create liability exposure for the installation or use agency.

The Glare Screen U-channel mount kit is designed so that the cups and blades can be assembled on the U-channel off-site, then the completed rail assembly can be transported to the site and installed on the concrete barrier using two anchor bolts, for the 10 ft. and 12 ft. sections and three anchor bolts for the 20 ft. sections.

The Safe-Hit Glare Screen U-Channel Mounted System is packaged in convenient kits of 100 or 120 linear feet, depending on the length of the barrier wall sections; 10, 12, or 20 foot long CMB sections.

Parts kits:

(Customer is to supply either 10', 12' or 20' U-Channel, Ø3/8" X 1" Perforated, #2, Galvanized)

<u>100 Ft. Kit</u>		<u>120 Ft. Kit</u>	<u>Component Description</u>
<u>10' U-Channel</u>	<u>20' U-Channel</u>	<u>12' U-Channel</u>	
50		60	Glare Screen base
50		60	Glare Screen blade
			<u>Hardware Sets:</u>
			<u>Cup to Rail</u>
50		60	5/16" X 2-3/4" hex bolt
100		120	5/16" lock washer
150		180	5/16" X 11/16" flat washer
100		100	5/16" hex nut
50		60	5/16" X 1" hex bolt
50		60	3/8" X 2" flat washer
			<u>Rail to Concrete Barrier</u>
20	30	20	3/8" Drop-In anchor
20	30	20	3/8" X 2-1/2" hex bolt
20	30	20	3/8" X 13/16" flat washer
20	30	20	3/8" lock washer

Tools Required:

- | | |
|--|--------------------------------|
| Anchor Setting Tool (Hilti) | Permanent Marker |
| 1/2" Carbide Tipped Concrete Drill Bit | Compressed Air or Blowout Bulb |
| Rotary Hammer Drill with Depth Gauge | Roll Pin Pilot Punch (1/4") |
| Hammer (2 ½ lb.) | Tape Measure |
| Torque Wrench | 9/16" Socket |
| | ½" Socket |

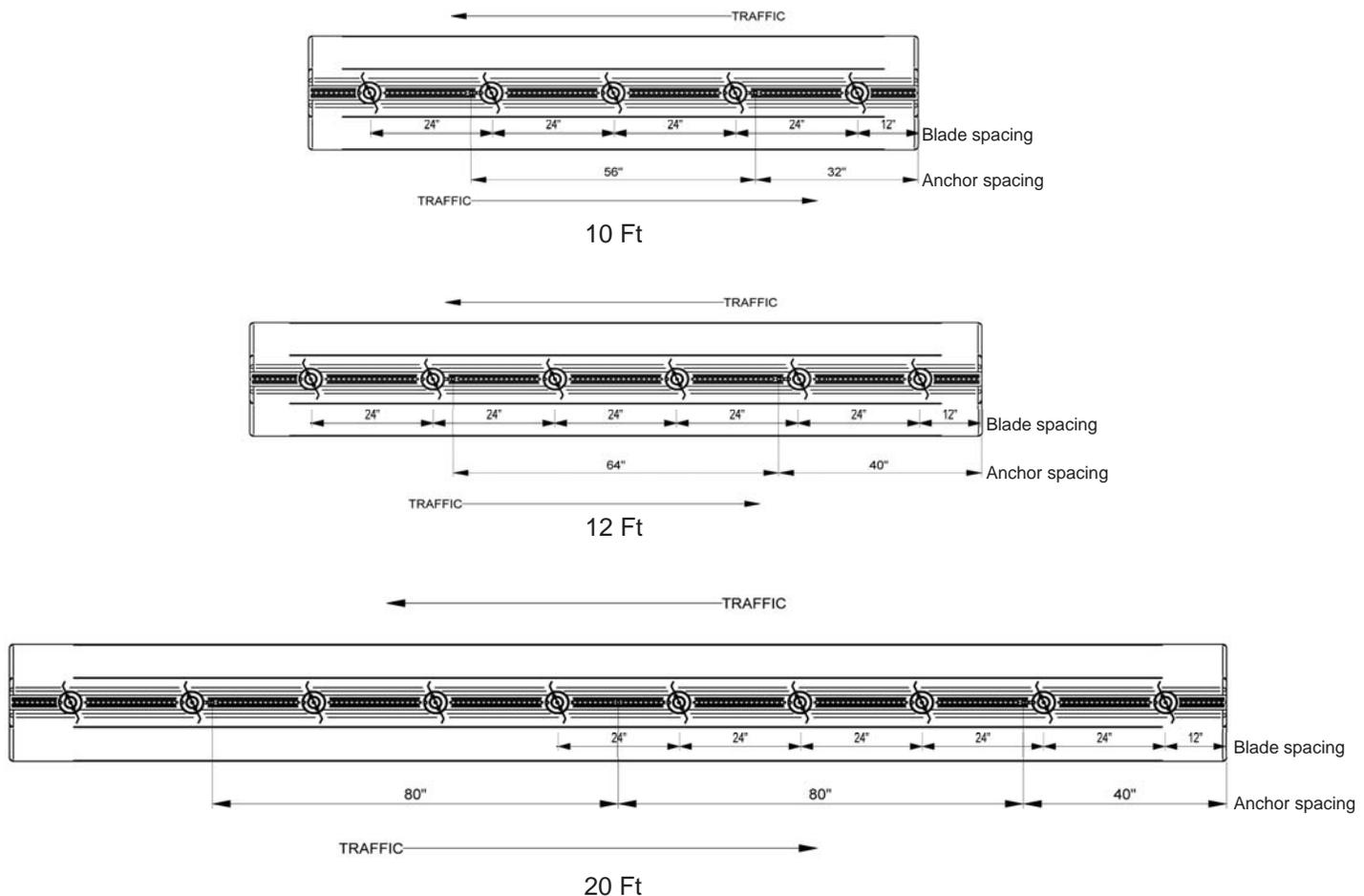
ASSEMBLY & INSTALLATION PROCEDURE

PREASSEMBLY

1. Place a mark on the U-Channel 12" from the end and at 24" intervals thereafter.
2. Install a cup at each mark using one 5/16" X 1" hex bolt, one 3/8" X 2" flat washer, one 5/16" X 11/16" flat washer, one 5/16" lock washer and one 5/16" hex nut. Do not tighten the bolt yet.
3. Rotate the cup so that the 5/16" hole lines up with the hole in the U-Channel and install one 5/16" X 2-3/4" hex bolt, one 5/16" X 11/16" flat washer, one 5/16" lock washer and one 5/16" hex nut.
4. Tighten both the center cup bolt and the edge cup bolt.
5. Place a plastic Glare Screen blade in the cup and drive the two roll pins to secure it in place.

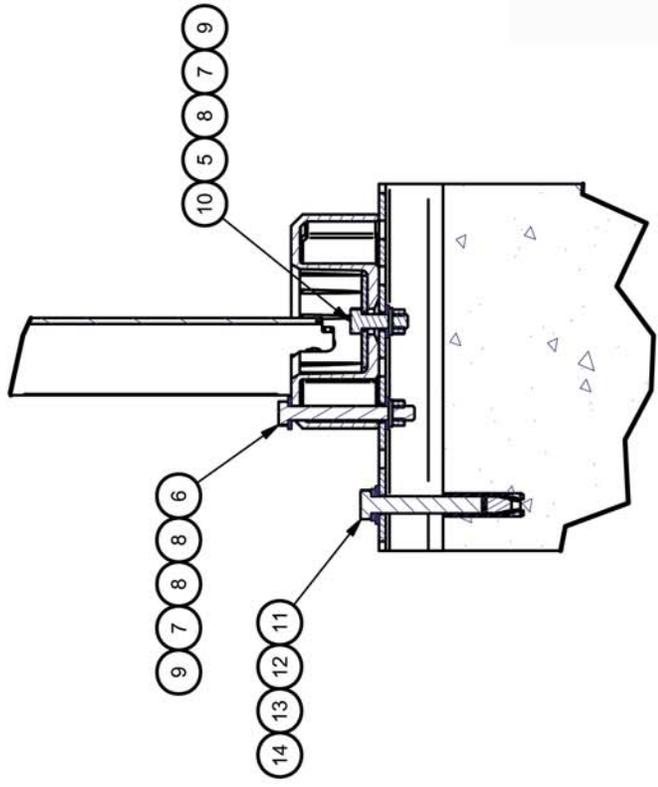
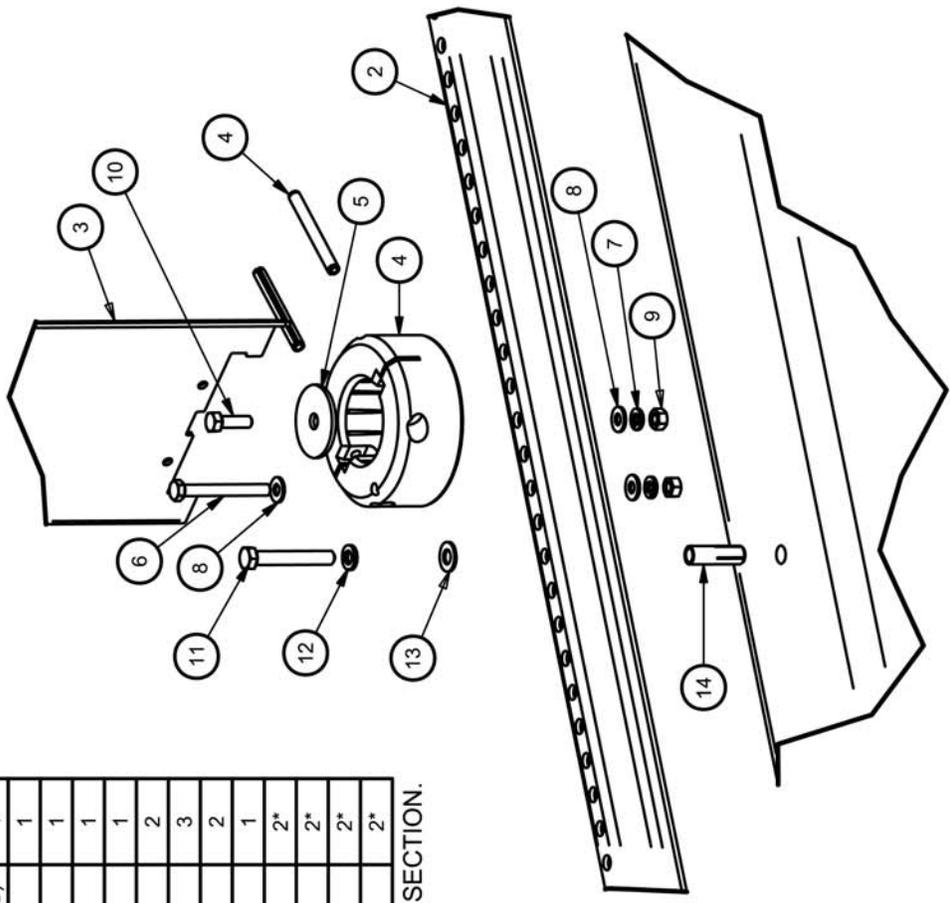
SITE INSTALLATION

1. Position the completed U-Channel rail assembly centered on the top of the barrier wall.
2. If using 10 ft rail, mark a spot on the barrier wall 32" from each end of the rail.
If using 12 ft rail, mark a spot on the barrier wall 40" from each end of the rail.
If using 20 ft rail, mark a spot on the barrier wall 40" from each end of the rail and one in the center of the rail at 120" from the end of the rail.
3. Drill holes 1-11/16" deep in the concrete barrier wall at the marked locations.
4. Blow out the holes and clean off the top of the barrier wall.
5. Place a drop-in anchor in each hole and install it with the Hilti anchor setting tool.
6. Secure the U-Channel rail assembly to the barrier wall by placing the bolts complete with lock washers and flat washers through the U-Channel and threading into the anchor. Tighten the bolt to 35 foot pounds torque.



PARTS LIST			
ITEM	STOCK NO.	DESCRIPTION	QTY.
1		CMB, 10 FT (SUPPLIED BY OTHERS)	1
2		U-CHANNEL,#2,10 FT,GALVANIZED (SUPPLIED BY OTHERS)	1
3	SHGSP-24---G	BLADE, GLARE SCREEN, 24", GREEN	1
4	SHGSB-1-BLGL	BASE, W/GALVANIZED PINS	1
5	2708031-0100	WASHER, FLAT, 3/8X2, P	1
6	2698201-0100	BOLT, HX, 5/16X2 3/4, G2, P	1
7	2708171-0100	WASHER, LOCK, 5/16, P	2
8	2708131-0100	WASHER, FLAT, 5/16 X 1 1/16, P	3
9	2704081-0100	NUT, HX, 5/16, P	2
10	2701351-0100	BOLT, HX, 5/16X1 1/4, G2, P	1
11	2701301-0000	BOLT, HX, 3/8X2 1/2, G2, G	2*
12	2708041-0100	WASHER, LOCK, 3/8, P	2*
13	2708022-0100	WASHER, FLAT, 3/8 ID X 13/16 OD, P, HRD	2*
14	SHGSH---HAZP	ANCHOR, DROP-IN, 3/8, P	2*

*QTY 3 REQUIRED FOR 20 FT. U-CHANNEL SECTION.



GLARE SCREEN SYSTEM
U-CHANNEL MOUNT



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