Chicago Heights Steel

"DESIGNED WITH THE SAFETY OF MOTORISTS AND YOUR CREW IN MIND"

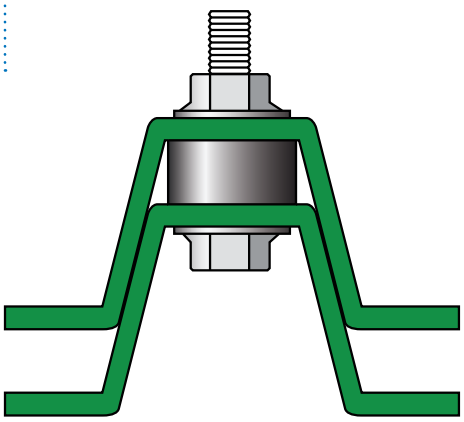
"EFFICIENT, ADAPTABLE DESIGN, FAST INSTALLATION"

THE SAFETY SPLICE™ SIGNPOST SYSTEM FROM CHICAGO HEIGHTS STEEL

EXACTLY THE RIGHT STRENGTH FOR THE JOB

THE SAFETY SPLICE™ SIGNPOST SYSTEM FROM CHICAGO HEIGHTS STEEL

The SAFETY-SPLICE™ Signpost System from Chicago Heights Steel is a unique, easy-to-install,ground mounted and bolted base break-away system for any size channel, up to and including 4 lb. posts!



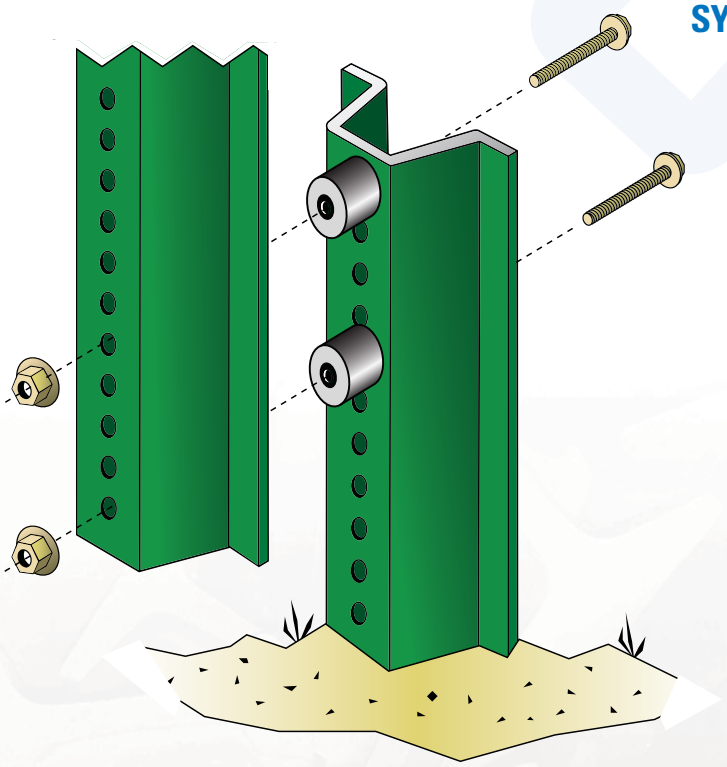
INGENIOUSLY SIMPLE DESIGN OFFERS FAS T INSTALLATION IN ANY TERRAIN

Using just two custom designed bolts and spacers to join the base to the top posts, the SAFETY-SPLICE™ System will costs considerably less than other competitive U-channel break-away systems. With such an efficiant design, your installation crews can install more posts faster; they'll spend less time working by the side of the road, thus reducing the exposure to the risk of traffic related injuries.

With the low cost of the SAFETY-SPLICE™System and the speed and efficiency of installation, you'll see why it's today's standard choice for both safety and economy.

The SAFETY-SPLICE™ System offers a tensile strength of 70,000 psi - exactly the right strenght for break-away post systems. At this strength, vehicle impact is transmitted through the post to the splice hardware. Systems using higher yeild strength posts are brittle and can fracture at the point of impact (bumper height), scraping the bottom of the behicle or puncturing the passenger compartment, the fuel tank or both.

EXACTLY THE RIGHT STRENGTH FOR BREAK-AWAY POST SYSTEMS



THE SYSTEM THAT'S SO SECURE IT'S BOTH FHWA AND AASHTO APPROVED!

The SAFETY-SPLICE™ Signpost System securely nests and bolts two U-Channel posts together yet breaks away on impact. The System has been tested and approved for multiple posts installations, up to three 4 lb. signposts in either strong or weak soil (NCHRP 350). For single or multiple post installations, the SAFETY-SPLICE™ system stands up to a variety of wind pressure conditions and meets the new FHWA guidelines. (See table below)

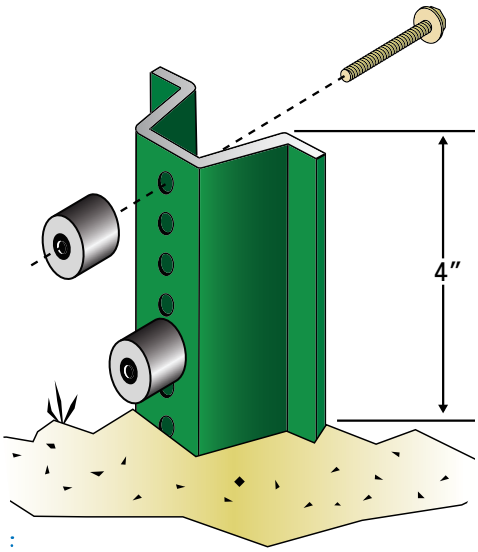
DUAL SUPPORTS, SIGN DESIGN AREA VALUES

Maximum design sign area for two supports, S.F.*
For three supports, multiply the design area by 1.5.

Support Size+ Sign Centroid Height Above Ground, ft.

	5′	6′	7′	8′	9′	10′	11′	12′	13′	14′
1.0 lb./ft.	23.3	19.4	16.6	14.5	12.9	11.6	10.5	9.7	8.9	8.3
2.0 lb./ft.	29.8	24.8	21.3	18.6	16.5	14.9	13.6	12.4	11.5	10.6
3.0 lb./ft.	41.6	39.6	29.7	26.0	23.1	20.7	18.9	17.4	16.0	14.8
4.0 lb./ft.	57.8	48.1	41.3	36.1	32.1	28.8	26.2	24.1	22.2	20.6

+ *Chicago Heights Shapes, Fy = 70 ksi*
* *Using the values and procedures from the 1985 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminairs and Traffic Signals using a 1.12 Cd. A design wind pressure of 17 psf was applied corresponding to 70 mph wind conditions per the AASHTO Specification.*



THE SYSTEM THAT'S AS EASY TO INSTALL AS 1-2-3!

SAFETY-SPLICE™ Signpost System hardware consists of two high performance bolts and nuts, each with two washers and two unique spacers with easy slide-on retaining washers. These specially designed components make break-away post assembly simple and fast.

1. Dig a small, shallow hole approximately 6 inches in diameter and 2 inches deep; drive the ground post into the center of the hole leaving the top 4 inches above grade level exposed.

2. Place one bolt in the 1st and 5th holes in the ground post. Slide a spacer and push-on retaining washer onto each bolt, leaving both bolt ends exposed.

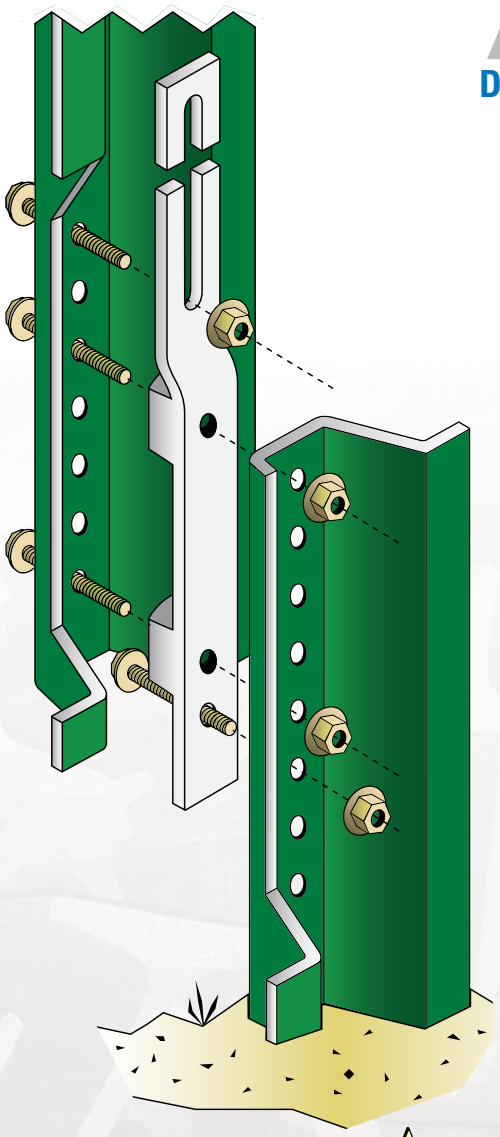
3. The top post is then nested over the end of the ground post and seated on the bolts. Lock nuts and washers are then installed and tightened and the earth around the post hole replaced and tamped firmly to complete the installation.

NOTE:

Because SAFETY-SPLICE™ U-Channels have holes punched along the full length, undamaged portions can be re-used even after impact – as crosspieces and horizontal supports. extensions, reinforcing posts, delineators and temporary signing.

SAFETY-SPLICE™ SIGNPOSTS WITH UNIVERSAL RETAINING STRAPS FROM CHICAGO HEIGHTS STEEL

Hundreds of thousands of “Eze-Erect*” signpost systems have already been installed throughout the U.S. as single posts of in clusters. Designed for fast, easy installation, SAFETY-SPLICE™signposts with universal retaining straps offer all of the same features, and – because of their 70,000 psi tensile strength – they can be easily driven into hardpan or even asphalt. The retaining strap securely holds the sign and post to the base upon impact. This safety feature is very important where the sign could be launched into intersections or other lanes of traffic.



“DESIGNED WITH THE SAFETY OF MOTORISTS AND YOUR CREW IN MIND”

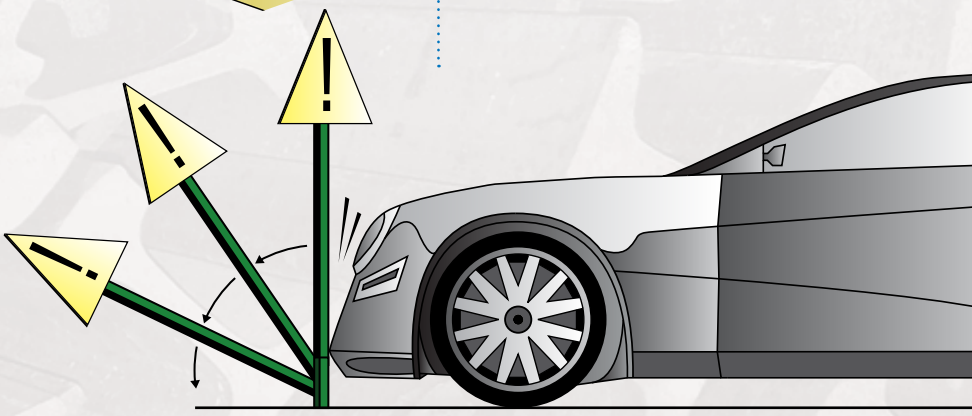
FAST INSTALLATION

Installation can be done with simple hand tools and usually takes less than 15 minutes. Dig a 2 inch deep hold and drive the base post until only the top 12 inches are exposed. Loosely attach the bottom bolt through the base post and retaining strap then drive the post to 4 inches. Secure the retaining strap as shown and bolt the signpost (with pre-mounted sign) to the base post. Bak fill the hole and the job is complete.

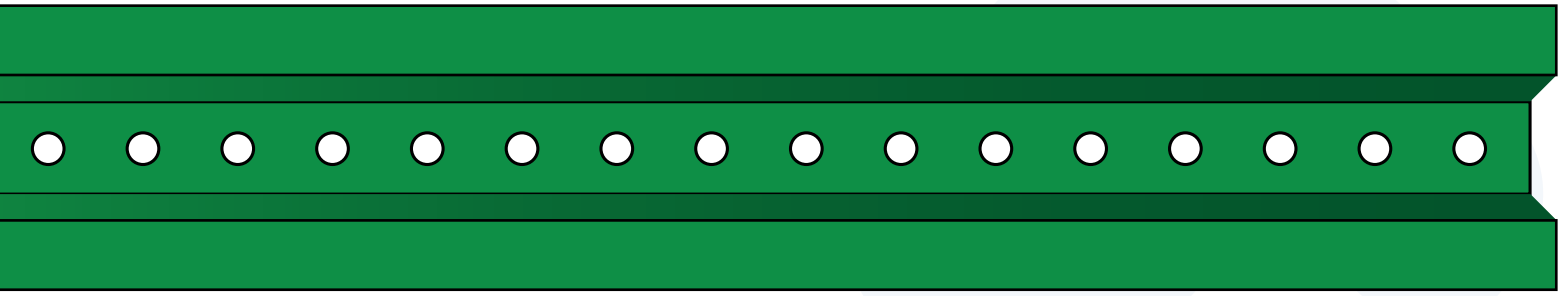
ADAPTABLE DESIGN

SAFETY-SPLICE™ signposts have the same section design as the Eze-Erect™ system. Our components are approved by FHWA for repair or replacement of components in any existing Eze-Erect™ system.

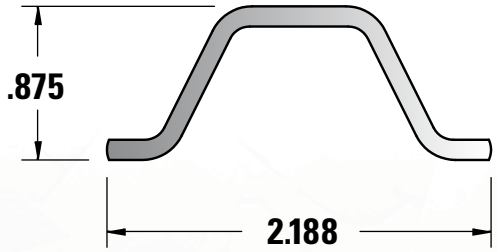
**Trademark of Franklin Steel.*



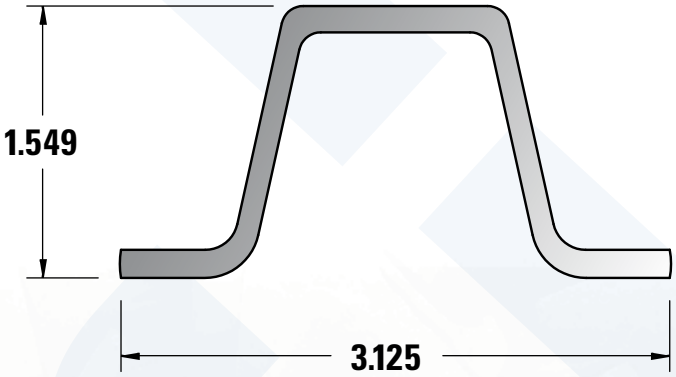
SUPERIOR STRENGTH AND FINISH



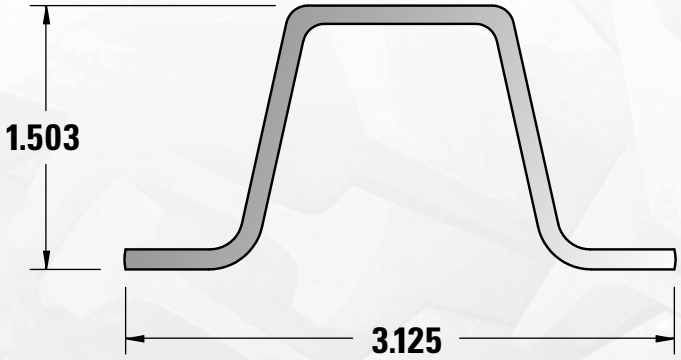
1.12



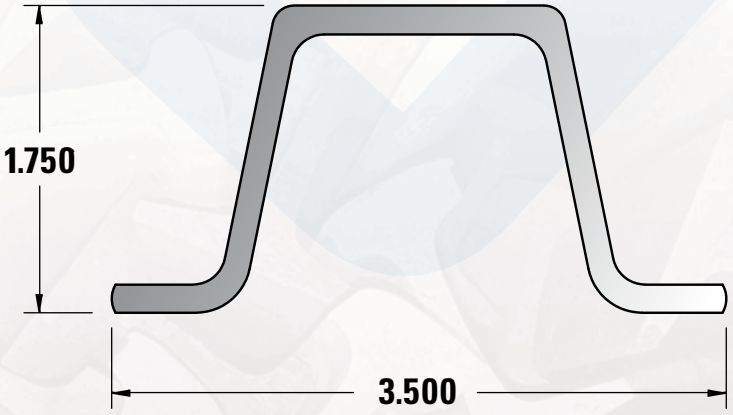
2.50



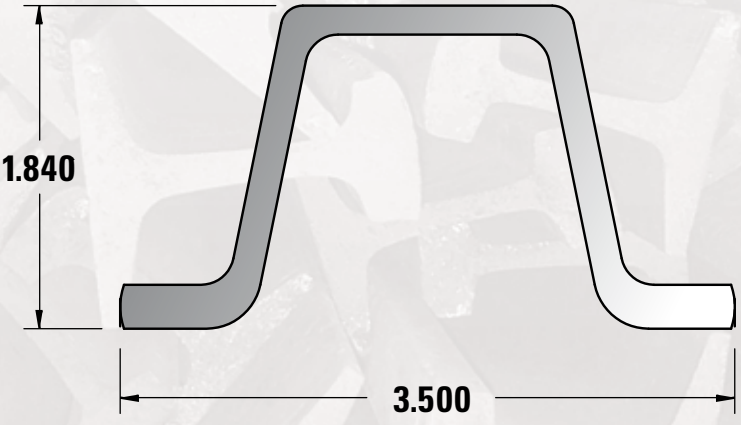
2.00



3.00



4.00



100% RECYCLED STEEL