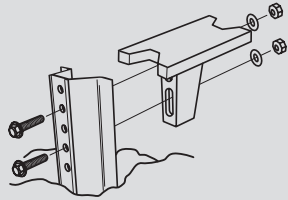


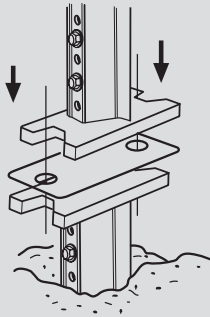
SLIP SAFE™

Reusable U-Channel Slip Base System Installation Instructions

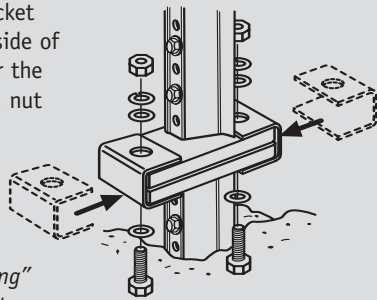
1. Drive the base post into the ground so that no more than 3 in. is above ground level. Nest casting into top of base post. Insert two $\frac{3}{8}$ x $1\frac{1}{4}$ in. SLIP SAFE attachment hex bolts through the base post. Place the nuts with flat washers on the bolts. Tighten the bolts using the turn-of-the-bolt method. The bolts should be tightened $\frac{1}{2}$ to $\frac{3}{4}$ turn after snug.
2. Nest the next casting to the top post. Attach the second casting to the top post in the same manner as the first casting was attached.



3. Place keeper plate on top of the base post SLIP SAFE casting, keeping plate holes aligned to V-notches in casting.
4. Position the assembled SLIP SAFE top post with attached casting over the keeper plate and base post's SLIP SAFE casting so that both castings align.



5. Slip U-brackets over both ends of castings. Place a flat washer on the end of the SLIP SAFE casting attachment bolt and insert it from the bottom, up through the U bracket and the keeper plate. Repeat for other side of casting. Place a second flat washer over the protruding bolt. Put on lock washer and nut and tighten. Using the turn-of-the-bolt method, the attachment nut should be tightened $\frac{1}{3}$ to $\frac{1}{2}$ turn after snug. Repeat for other side of casting. *[This must be a tight fit. Do not worry about not activating due to "over torquing" of the SLIP SAFE casting attachment bolts. The system been tested with the bolts over torqued.]*

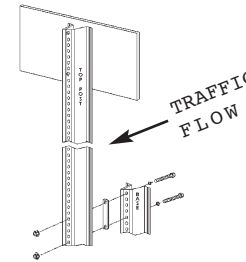
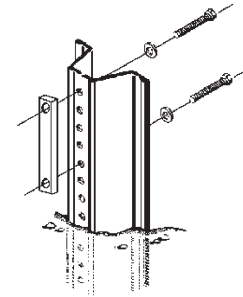
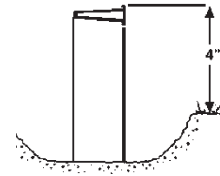


ALL hardware is supplied by the manufacturer.

LAP SPLICE™

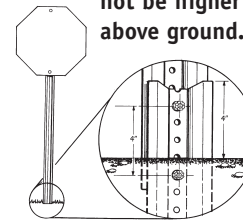
U-Channel Breakaway System Installation Instructions

1. Drive base post so that no more than 4" is above the ground. Remove enough soil around base so that the fifth hole is exposed and can be easily reached. (Some installers prefer to remove a shovelful of soil prior to installation of the base post.)
2. Put flat washer on bolt and insert into top hole of base post. (If first hole on top post is less than 1" from end, use second hole.) Thread top bolt through threaded spacer bar. Put flat washer on second bolt and thread into spacer bar. Tighten both bolts in spacer securely.
3. Nest the bottom hole of the top post onto the bottom hole of protruding bolts of the base post. (If the bottom hole of the top post is less than 1" from the end of the post, use the second hole.) Place self-locking flanged nuts onto each bolt and tighten. Replace soil around base post.



Bolts must be 4" apart. Base post must not be higher than 4" above ground.

BAR SPACER SIZE CHART		
Post Size lbs./ft.	Bar Color	Bar Size
2 & 2.5	Silver	$\frac{3}{8}$ " x $\frac{3}{4}$ " x 5"
3 & 4	Gold	$\frac{1}{2}$ " x $\frac{3}{4}$ " x 5"



NUCOR

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AMERICA'S SIGNPOST LEADER

WIND LOAD CHART

U-Channel Field Installation Manual



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AMERICA'S SIGNPOST LEADER

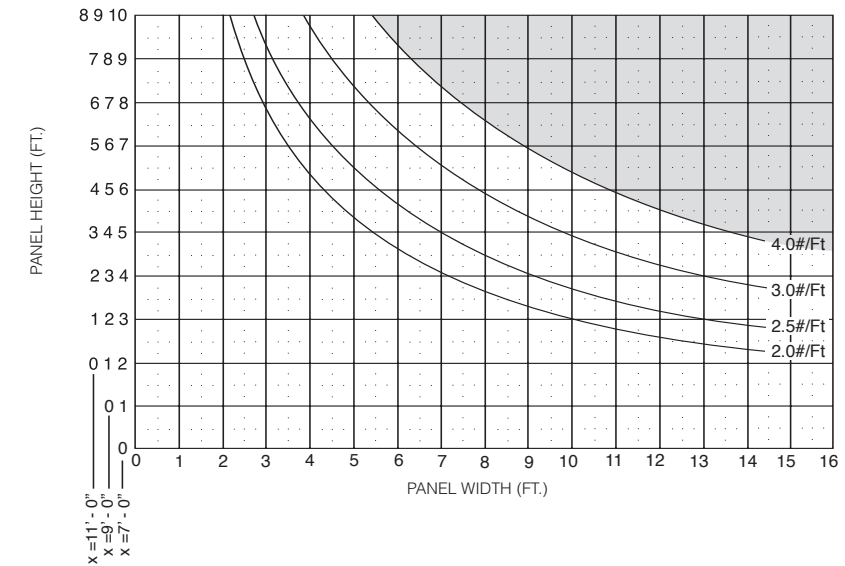
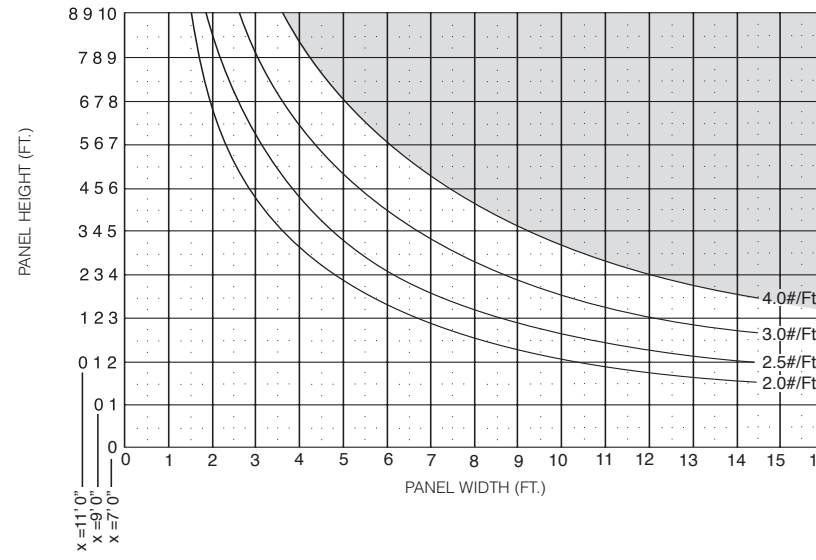
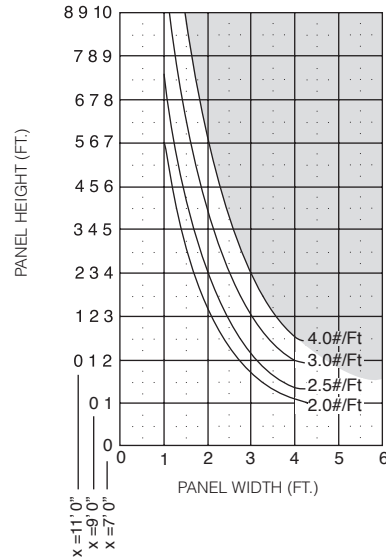
Single Post: 70 MPH Wind Load

Two Post: 70 MPH Wind Load

Three Post: 70 MPH Wind Load

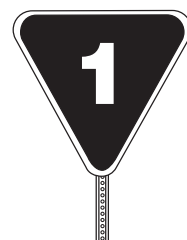
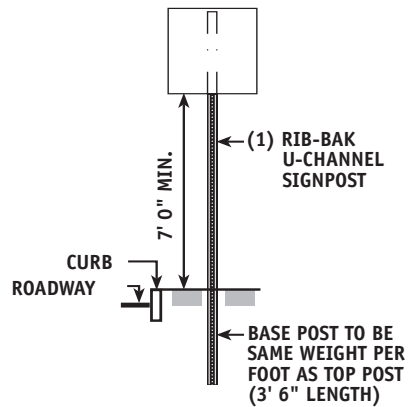
How to find the right post size:

1. Determine sign width and depth.
2. Determine sign mounting height ("x" on left side of chart) using standard drawings.
3. Read upward on sign height column ("x" on left side of chart) until you reach correct sign depth (from Step 1). From that point, project a horizontal line straight across the chart.
4. Locate appropriate sign width (from Step 1) at bottom of chart. From that point, project a vertical line straight up until it intersects the line created in Step 3.

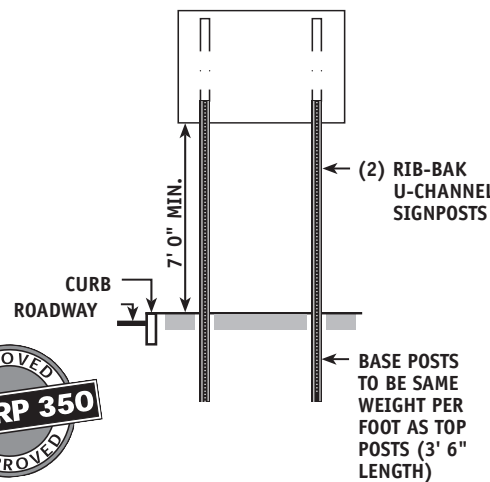


The area of the chart in which this intersection occurs shall determine the number of posts required. Required post size is the larger of the two post-size curves between which the intersection occurs. If intersection occurs above the maximum post-size curve (in the shaded area), allowable post stress has been exceeded.

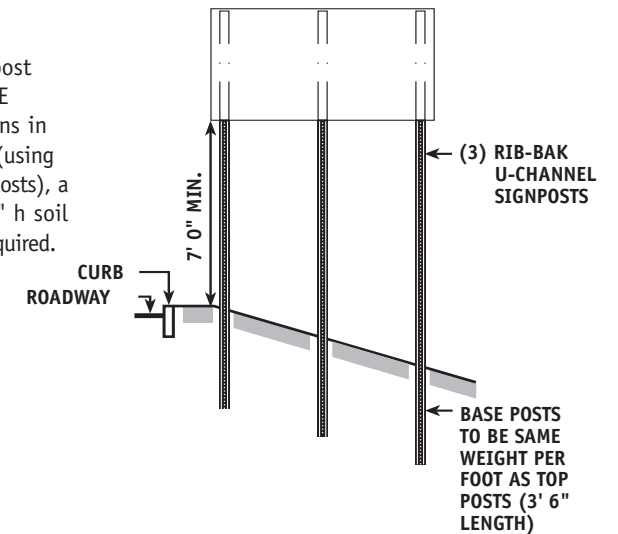
NOTE: Sign support structures utilizing **three** 3 lbs./ft. RIB-BAK® supports, and **all** 4 lbs./ft. RIB-BAK supports, must incorporate a LAP SPLICE™ or SLIP SAFE™ connection to meet FHWA breakaway requirements. Wind load charts for 60 through 120 mph are available upon request.



These charts are provided as a guide for RIB-BAK U-channel direct-bury, SLIP SAFE and LAP SPLICE breakaway sign support systems. Use of these products pertains to the specific applications for which they were evaluated and approved. These charts are only to determine the structural capacity of the posts. The appropriateness of any post system is the responsibility of the engineer. These sign support systems meet NCHRP Report 350 requirements (conditions noted within).



NOTE: In triple post LAP SPLICE installations in weak soil (using 4 lbs./ft. posts), a 12" w x 6" h soil plate is required.



Wind load charts independently produced and validated by Safety Quest, Inc., consulting engineers.

