

Traffic Safety Products

Telespar®, Qwik-Punch®, Breakaway Systems,
Anchoring and Accessories



Atkore[™]
Allied Tube
& Conduit

Telespar® Sign Support System

The Telespar® Sign Support System system is available with three types of posts: galvanized steel tubing with perforated holes on all four sides, Qwik-Punch® posts, which are made with 1 $\frac{1}{16}$ " knockouts, 1' on the center on all four sides, and the round sign system with socket and wedge. The tubing is produced through a unique manufacturing process that permits tubular sections of different sizes to telescope into the next larger size. It is complemented by a variety of compatible fittings accessories, nuts, bolts, and simple installation tools.

The engineered system of integrated parts enables you to mount signs back-to-back and on adjacent sides. It is designed to make adjustment, reinforcement, and splicing fast and easy. By utilizing a square tube, Telespar® exhibits superior wind load capabilities and torsional stability.

Telespar® is primarily designed for signpost usage but is adaptable for identification signage, parking meter posts, barricades, and numerous other applications.



The Original Telescoping Sign Support

The Telespar® Advantage

Secure Signage

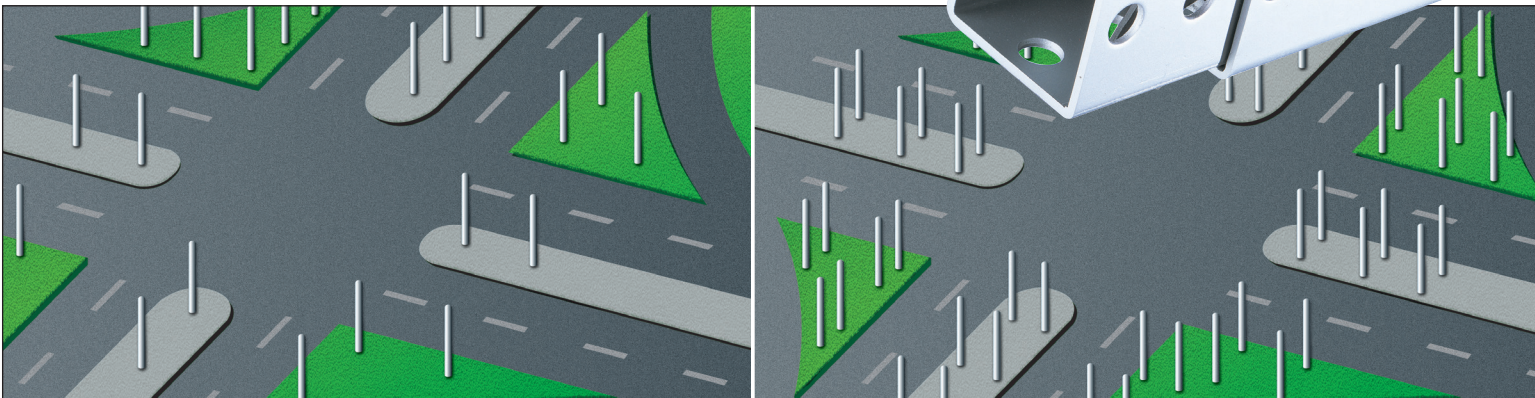
Using the Allied Tube & Conduit® recommended installation method, street signs are securely fastened to posts with rivets, providing greater torsional and wind load stability. Signs mounted via this method are more securely fastened and cannot easily be removed or loosened from their posts due to severe weather conditions. This differs from the bracket system commonly used with U-channel and standard post systems. These systems utilize small set screws that can be damaged or vandalized easily making replacement necessary.

Easy Installation, Rapid Replacement

Telespar® signposts are installed easily by using either a direct embedded method or breakaway anchor system. Installation can be performed by one-man at ground level, eliminating the need for bucket trucks and similar heavy equipment. Replacement is just as easy, having minimal tool requirements.

Safety

The Telespar® Sign Support System was the first to be used effectively in a yielding breakaway concept for small sign-support systems. They are FHWA approved and in compliance with AASHTO specifications.



Art from actual INDOT (Indiana Department of Transportation) installation.

Reduced materials needed per installation

Using Telespar® drastically cuts your material costs. Its greater strength and superior stability allow you to use single post installations instead of U-Channel's double post, cutting your material needs in half!

Telespar® Sign Support System

Three Types of Posts to Meet Your Needs

One of the keys to the Telespar® Sign Support System's versatility and ease of installation is its three convenient methods for mounting signage.

Round Sign System

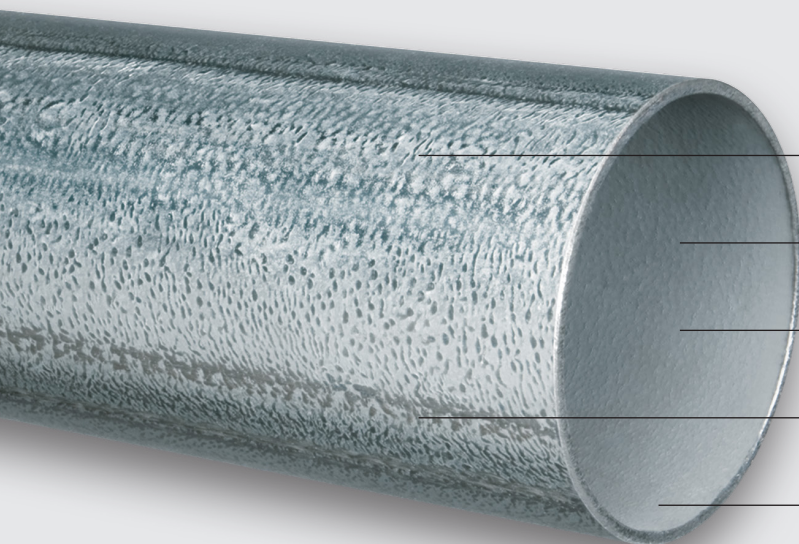
The Telespar® round sign system with socket and wedge provides superior corrosion resistance and strength benefits, demonstrating 50ksi yield strength resulting from the signature inline galvanizing process by Allied Tube & Conduit®. This highly durable product enables you to reduce replacement and repair costs caused by standard wear and tear.

Posts with Pre-Punched Holes

Telespar® square posts with $\frac{7}{16}$ " pre-punched hole on 1" centers are corner welded to allow smooth telescoping action.

Posts with Knockouts

Qwik-Punch® posts are made with $\frac{7}{16}$ " knockouts, 1" on the center, on all four sides. This feature allows workers in the field to quickly punch holes exactly where they are needed, leaving the balance of the post with a smooth unbroken appearance. These posts offer the same telescoping action and easy installation as standard Telespar® posts.



Superior corrosion resistance through the in-line galvanizing process by Allied Tube & Conduit®

Available with pre-punched holes

Easy to re-use

Difficult to vandalize

Socket and wedge system for ease of installation

Round Sign System Specification

ELEMENTS OF SECTION

O.D./Gauge (in)	Wall Thickness (in)	Weight (lb / ft)
2.375 x 10	0.134	3.2101
2.375 x 12	0.109	2.6404
2.375 x 13	0.095	2.3155
2.375 x 14	0.083	2.0336
2.375 x 16	0.065	1.6051
2.875 x 12*	0.109	3.2230

* Used for Anchors Stocked in 10' and 12' lengths. Other lengths are available upon request.

Telespar® Sign Support System

Corner welded for smooth
telescoping action

Square shape allows signs to
be mounted on all four sides

Square tubing for greater
wind load capabilities and
torsional stability

Galvanized steel tubing for
superior corrosion resistance

Note: Steel conforms to ASTM A1011 Grade 50;
Galvanizing meets ASTM A-653

7/16" Pre-punched holes

Signs mount with drive rivets for easy
installation and tamper resistance

Smooth unbroken appearance

Inline zinc coating complies
with AASHTO M-120

7/16" knockouts on all four sides

FHWA approved breakaway installation

Tube Size (in)	Wall Thickness U.S. Std. Gauge & Inch	Area (sq in)	Wt./Ft. (lb)	I (in ⁴)	s (in ³)	r (in)
1 3/4 x 1 3/4	14 (0.083)	0.392	1.71	0.201	0.230	0.716
2 x 2	14 (0.083)	0.474	1.99	0.296	0.296	0.790
1 1/2 x 1 1/2	12 (0.105)	0.380	1.75	0.129	0.172	0.582
1 3/4 x 1 3/4	12 (0.105)	0.485	2.09	0.231	0.264	0.690
2 x 2	12 (0.105)	0.590	2.44	0.372	0.372	0.794
2 1/4 x 2 1/4	12 (0.105)	0.695	2.79	0.561	0.499	0.898
2 1/2 x 2 1/2	12 (0.105)	0.803	3.14	0.804	0.643	1.001
2 3/16 x 2 3/16	10 (0.135)	0.841	3.46	0.605	0.553	0.848
2 1/2 x 2 1/2	10 (0.135)	1.010	3.80	0.979	0.783	0.985
2 x 2 QP	14 (0.083)	0.474	2.16	0.296	0.296	0.790

I = Moment of Inertia

s = Section Modulus

r = Radius of Gyration

Telespar® Type III Barricade

Safety and Convenience in One Simple Package

Requirement: High-strength yet safe temporary barricade

Fulfillment: Telespar® Type III Barricade

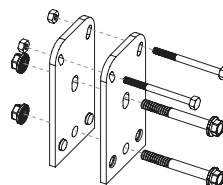
Easy to Use

- Easily stored, transported, and installed
- Legs are detachable
- No welding required

Barricade Assembly Guidelines

Required hardware for each connecting point

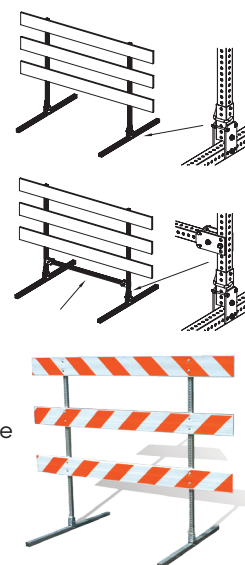
- TL132-Z Shear Pin Barricade Plate (2ea)
- 3/8"-16 x 3 grade 8 flange bolt and serrated flange nut (2ea)
- 1/4"-20 x 3 grade 2 hex hd shear bolt and hex nut (2ea)



Safety Features

- FHWA/NCHRP 350 approved
- Temporary, yet crashworthy
- Yielding breakaway
- Minimal damage to impacting vehicle

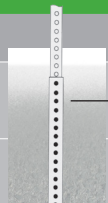
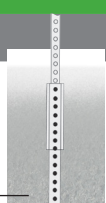
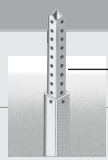
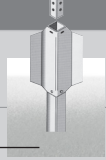

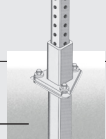
Reusable after collision



Anchoring Options

Installation Guidelines

1. Drive a minimum 30" piece of 12 gauge Telespar® (anchor) into the soil until only 1-2 inches are left exposed. For a 2-piece anchor, use an 18" piece of tubing for a sleeve, one size larger than the anchor. It is advisable to drive the anchor and sleeve together making sure the holes are aligned.
2. Attach the sign to the post at the desired height using drive rivets or bolts.
3. Insert the signpost, which is one size smaller than the anchor, approximately 6-8 inches into the anchor base.
4. Bolt the signpost to the anchor assembly with a corner bolt.
5. When installing in concrete use a pneumatic hammer or concrete drill to break through the surface, the anchor assembly is driven to within 1" of the surface to allow attachment of the signpost. If a flush installation is desired clearance should be recessed on two sides to clear the bolt for signpost connection.
6. To install in asphalt, drive the anchor assembly through the blacktop into the subsoil from ground level. Once the anchor is through the blacktop, use the same instructions as for soil installations.

Anchor Type	Description	Unique Feature
 Primary Single Breakaway Anchor	Can be used by one man working at ground level using manual or power equipment.	Minimum installation time
 Two-Piece Breakaway Anchor	Can be created by adding an outer sleeve to the original anchor base. This provides a double wall thickness to create a breakaway function.	Yielding breakaway system
 Secondary Heavy Duty Anchor	For use with larger signposts. The heavy wall eliminates the need for a stiffener sleeve enabling the signpost to break on impact.	Works well in concrete and areas of high impact
 Stabilization Anchor Sleeve	Attaches to a single anchor with corner bolt then bolted through the post at top of the anchor. Should always be attached to the corner farthest from traffic.	For use with soft or drop-off shoulders in loose or sandy soil
 Omni-Directional Anchor	Designed specifically for ease of installation in loose soil conditions enabling the post to perform well when impacted.	Easily retrofitted to correct problem installations
 Slip Base Breakaway System	For use with larger signs when the post is too strong to perform a normal breakaway function. Allows the unit to slip away without creating an unacceptable impact condition.	One of the most economical replacements in the industry

Note: The Telespar® Sign Support System can be directly embedded manually using a drive cap and sledge, with a pneumatic hammer or by means of self-contained power equipment.

Telespar® Temporary Sign Skids

Put Your Construction Project on Easy Street

Nobody likes construction delays, the sooner the job is completed, the better it is for everyone. Telespar® temporary sign skids can help you get the job done quicker. This easy to assemble, simple to maneuver system, enables you to set up and reposition your signage quickly, allowing more time for performing the task at hand.

Requirement: High-strength yet safe temporary barricade

Fulfillment: Telespar® Type III Barricade

Easy to Use

- Pre-assembled kits
- Pre-manufactured components
- Eliminates the need to drive post into the ground

Fasteners

The Corner Bolt

Nobody likes construction delays. The sooner the job is completed, the better it is for everyone. Telespar® temporary sign skids can help you get the job done quicker. This easy to assemble, simple to maneuver system, enables you to set up and reposition your signage quickly, allowing more time for performing the task at hand.

Drive Rivets

Drive rivets provide the convenience of a one-piece fastener with effective tamper-resistant design and fast installation requiring only a hammer.

Safety

- Crashworthy
- FHWA & NCHRP 350 approved

Simple to Maneuver

- Adjustable base
- Telescopic for varied heights
- Detachable leg allows compact stacking
- Reusable

Flex Nuts and Bolts

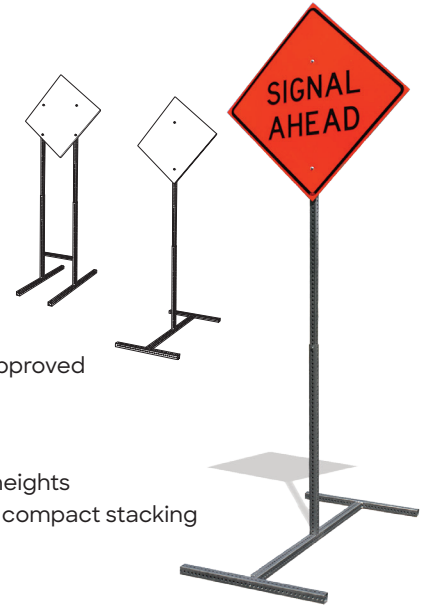
Standard hex nuts and bolts can also be used to connect components. A special jam nut is available to help form a permanent tamper resistant connection

Lock Pins

The lock pin allows for a quick temporary connection between telescoping tube sections. Simply align holes between sections, insert the lock pin and allow it to drop into a locking position.

Fittings

In addition to the above-listed fasteners, the fittings in the chart below also can be used with the Telespar® system.



Fittings		Tube Size (in)	Cutting Dimensions* (in)	Fittings	Tube Size	Cutting Dimensions* (in)
	TL015	1½ sq	Both tubes must be the same size		1½ sq	1⅜
		1¾ sq			1¾ sq	1⅞
		2 sq			2 sq	1⅝
		2¼ sq			2¼ sq	1⅞
		2½ sq			2½ sq	1⅞
	TL016	1½ sq	Both tubes must be the same size		1½ sq	
		1¾ sq			1¾ sq	
		2 sq			2 sq	
		2¼ sq			2¼ sq	
		2½ sq			2½ sq	
	TL017	1½ sq			1½ sq	1
		1¾ sq			1¾ sq	1
		2 sq			2 sq	1
		2¼ sq			2¼ sq	1
		2½ sq			2½ sq	1

* Distance from edge of tube to center of first hole.

Breakout™ Signpost Coupler

Telespar® is proud to introduce the Break-Out™ signpost coupler, designed to allow signposts to breakaway after impact, protecting passengers from potentially dangerous situations. The Break-Out coupler breaks away at grade, eliminating the risk of tripping hazards for pedestrians.

Designed to be impacted from any direction, the Break-Out coupler is strong enough to ensure maximum wind loads of 120 mph and not fail as a result of fatigue.

The Break-Out signpost couplers are compatible with all sizes of Telespar signpost, including 1.75", 2", 2.25", and 2.5" square posts. Telespar now offers a comprehensive product line for all signpost installation needs.

Feature and Benefits

- Designed to breakaway at the score line in the coupler top, does not rely on the hardware or fasteners to breakaway upon impact
- Ratchet and pliers are the only tools required for installation or replacement
- Couplers compatible with square post, round post, and u-channel. Ground and Surface mount options are also available

Part Number	Size (O.D.)	GA
Square Post Couplers		
193013	1¾"	12
193014	1¾"	14
193015	2"	12
193017	2"	14
193020	2¼"	12
193019	2½"	12
Round Post Couplers		
193010	2 ⅜"	10-12
193012	2 ⅜"	13-16
U-Channel Couplers		
193025	2lb	-
193026	3lb	-

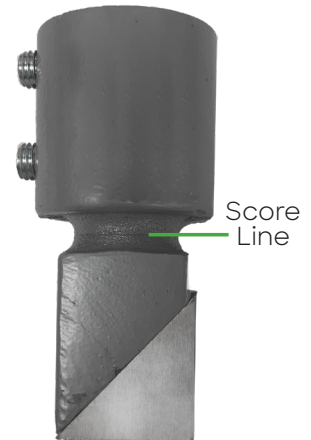
Note:

All kits come with associated hardware

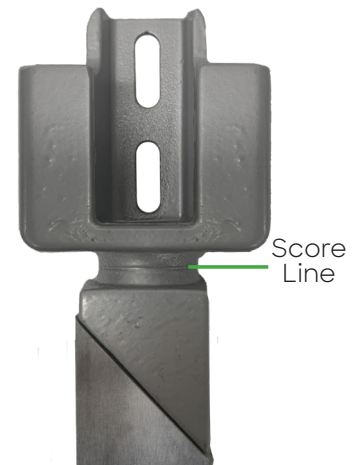
Additional part numbers for surface mount applications and replacement parts are available on our website



Square Post Coupler
Assembled



Round Post Coupler
Assembled



U-Channel Coupler
Assembled

SafeSign™ Breakaway System

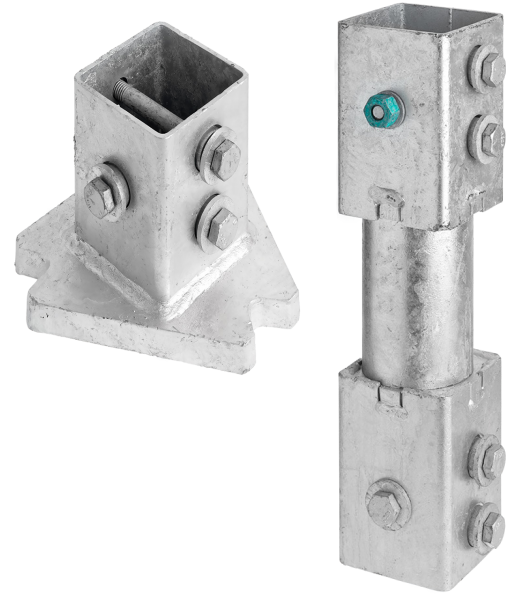
Telespar® is proud to introduce the SafeSign™ breakaway system, designed to allow sign posts to breakaway after impact, protecting passengers from potentially dangerous situations. Designed for use with 4" square x 8 gauge posts and finished with Gatorshield® to prevent corrosion. A two post system has the ability to support a 120 ft² sign in a 90 mph wind zone.

The SafeSign™ breakaway system is designed to withstand the normal wear-and-tear from wind and weather. The hinge and slip base system will breakaway once impacted by a vehicle.

Tested and passed to MASH regulatory standards, the SafeSign™ allows sign installations to be FHWA compliant

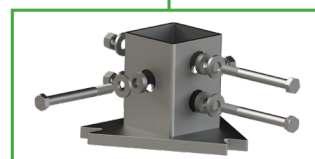
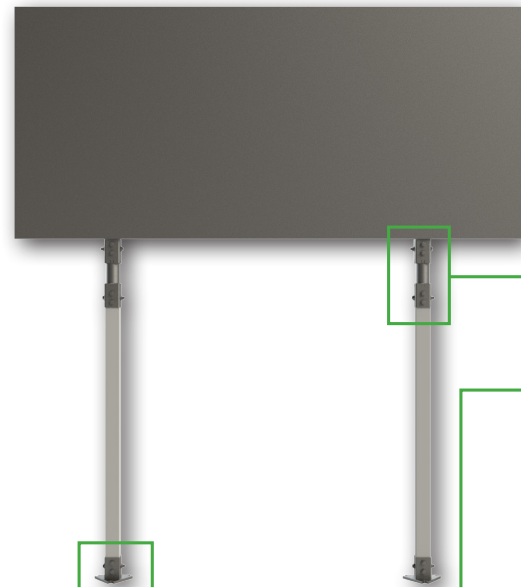
Feature and Benefits

- **Compliant with MASH standard**
- 4" post can be cut to length in the field, allowing for easy installation, **reducing labor costs and worker roadside exposure to traffic**
- Can be impacted from any direction, breaking away to protect vehicles and passengers from harm
- Designed so that after impact only the hardware and cylinder component of the hinge need to be replaced
- Can hold signs commonly mounted on W6x9, W6x12, W6x15, and in some cases W8x18 beam posts
- **No torque wrench required for installation**

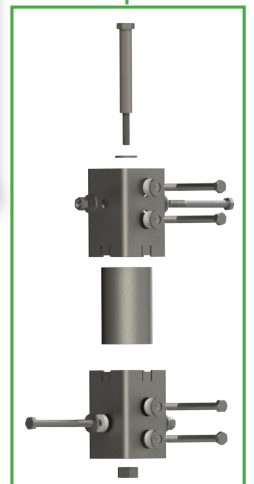


Part Number	Description
191582	Hinge Assembly Kit (Hardware Included)
191583	13" Slip Base Kit (Hardware Included)
191585	13" Slip Base Winged Anchor
191586	13" Slip Base Anchor
Replacement Parts	
191598	Hinge Cylinder
191558	Hinge Center Bolt
191600	Slip Base Replacement Hardware Kit

Assembled SafeSign™



13" Slip Base
Exploded View



SafeSign™ Hinge
Exploded View



Allied Tube & Conduit ▴ AFC Cable Systems ▴ Heritage Plastics ▴ Unistrut
Unistrut Construction ▴ Cope ▴ US Tray ▴ Calbrite ▴ Calbond ▴ Kaf-Tech
Power-Strut ▴ Calconduit ▴ Razor Ribbon ▴ Calpipe Security ▴ Vergokan ▴ Cii
Columbia-MBF ▴ Eastern Wire + Conduit ▴ ACS/Uni-Fab ▴ Sasco Strut ▴ Marco
FRE Composites ▴ Queen City Plastics ▴ Four Star Industries ▴ Flexicon

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