BROCHURE



allied®
TUBE & CONDUIT®

TELESPAR® SIGN SUPPORT SYSTEMS

Telespar® Qwik-Punch® Anchoring Accessories



A PART OF
atkore INTERNATIONAL

Telespar®

Sign Support Systems

The Telespar System

The Telespar 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 7/16" 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 System

The Telespar Advantage

Secure Signage

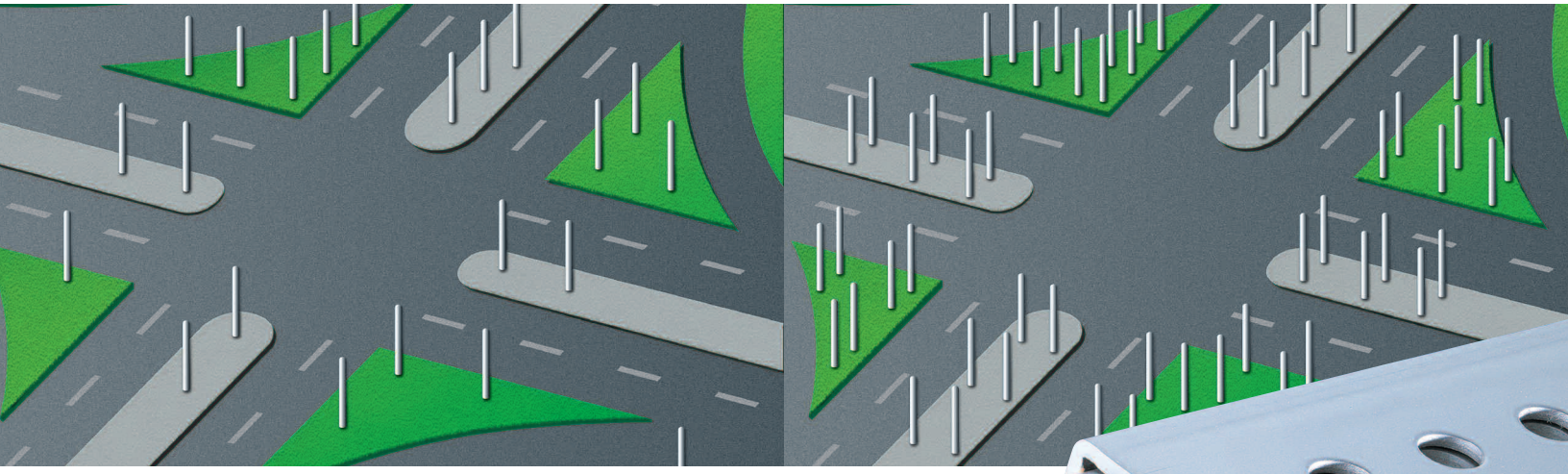
Using Allied's recommended installation method, street signs are securely fastened to posts with rivets providing greater torsional and windload stability. Signs mounted via this method are more securely fastened and cannot easily be removed or loosened from their posts due to severe weather conditions. 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

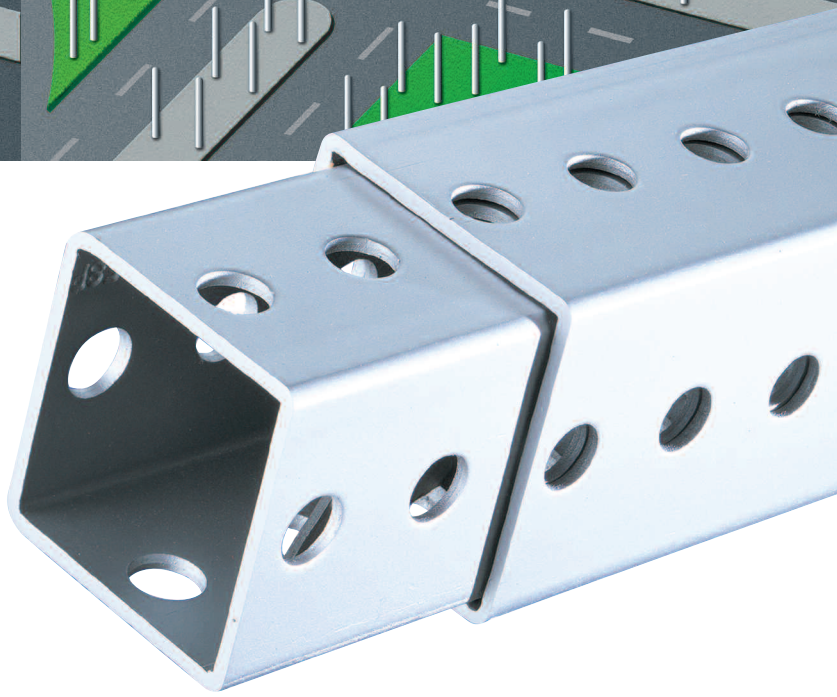
The Telespar System was the first to be used effectively in a yielding breakaway concept for small sign-support systems. They are FHWA approved and in compliance with AASHTO specifications.



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 allows you to use single post installations, instead of U-Channel's double post, cutting your material needs in half!



Three Types of Posts to Meet Your Needs

One of the keys to the Telespar signpost system's versatility and ease of installation is its three convenient methods for mounting signage.

Round Sign System

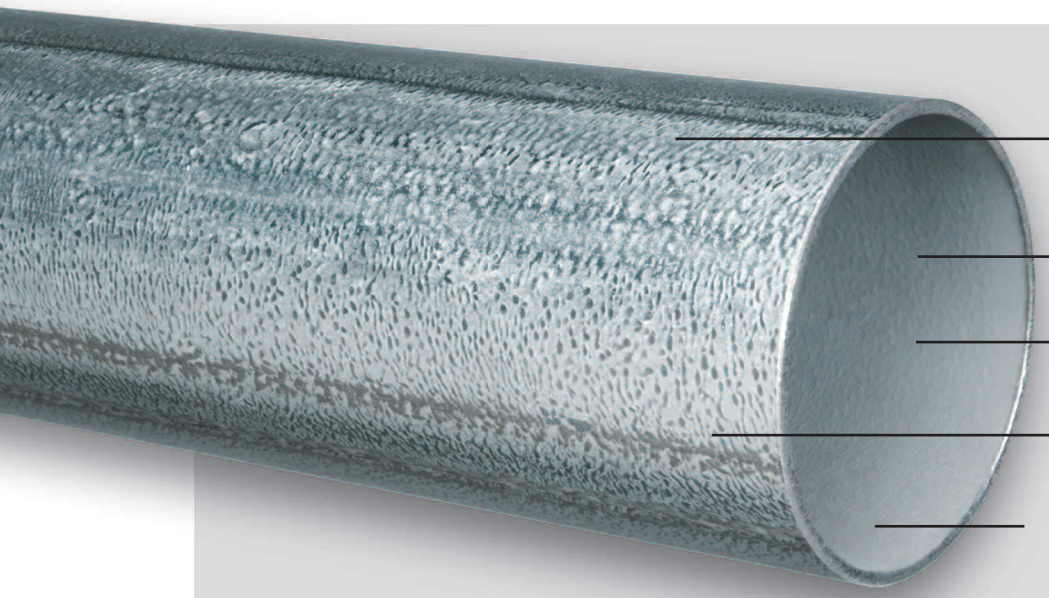
The Telespar round sign system with socket and wedge provides superior corrosion resistance and strength benefits, demonstrating 50ksi yield strength resulting from Allied's signature inline galvanizing process. This highly durable product enables you to reduce replacement and repair costs caused by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

Posts with Pre-Punched Holes

Telespar square posts with 7/16" prepunched holes on 1" centers are corner welded to allow smooth telescoping action.

Posts with Knockouts

Qwik-Punch posts are made with 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.



Round Sign System Specification

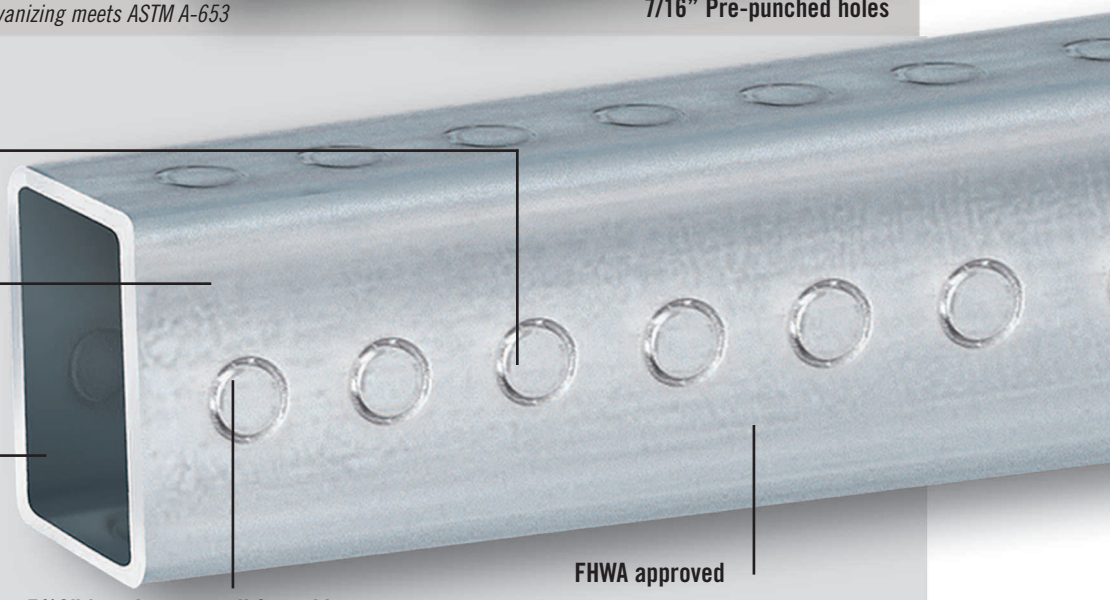
ELEMENTS OF SECTION	O.D./Gauge	Wall Thickness(inches)	Weight(Lbs./Foot)
	2.375" x 10	0.134	3.2101
	2.375" x 12	0.109	2.6404
	2.375" x 13	0.095	2.3155
	2.375" x 14	0.083	2.0336
	2.375" x 16	0.065	1.6051
	2.875" x 12*	0.109	3.1444

** Used for Anchors*

Stocked in 10'and 12' lengths. Other lengths available upon request.



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



Square Sign System Specification

Tube Size Inches	Wall Thickness U.S. Std. Gauge & Inch	Area Sq. In.	Wt./Ft. Lbs.	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	1.70	0.129	0.172	0.582
1 3/4 x 1 3/4	12 (0.105)	0.485	2.06	0.231	0.264	0.690
2 x 2	12 (0.105)	0.590	2.42	0.372	0.372	0.794
2 1/4 x 2 1/4	12 (0.105)	0.695	2.77	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	3.43	0.605	0.553	0.848
2 1/2 x 2 1/2	10 (0.135)	1.010	4.01	0.979	0.783	0.985
1 3/4 x 1 3/4 QP	14 (0.083)	0.392	1.88	0.201	0.230	0.716
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

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 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 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 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.

Fasteners

The Corner Bolt

Requiring only a single wrench, the corner bolt provides a tighter more stable installation by concentrating tension on only one corner of the tubing.

Drive Rivets

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

Hex 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 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.



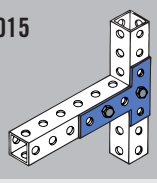
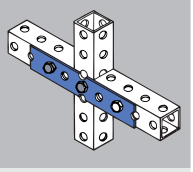
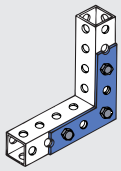
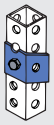
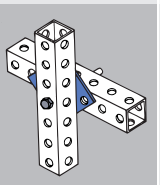
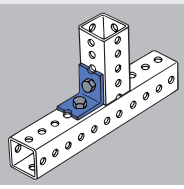






Fittings

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

Fittings	Tube Size	Cutting Dimensions*	Fittings	Tube Size	Cutting Dimensions*
TL015 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq. *Both tubes must be same size*	1 3/16" 1 1/16" 15/16" 13/16" 11/16"	**TL018** 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq.	1 3/16" 1 1/16" 15/16" 13/16" 11/16"
TL016 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq. *Both tubes must be same size*	1 3/16" 1 1/16" 15/16" 13/16" 11/16"	**TL019** 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq.	
TL017 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq.		**TL020** 	1 1/2" sq. 1 3/4" sq. 2" sq. 2 1/4" sq. 2 1/2" sq.	1" 1" 1" 1" 1"

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

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