



# KORMAN SIGNS, INC.

WORK ZONE SAFETY PRODUCTS



**Welcome  
to KSI**

**804.262.6050**

**Toll-Free  
800.296.6050**

Since 1975, Korman Signs, Inc. has been designing and manufacturing highway and construction signage systems. Our 100,000 square foot facility in Richmond, Virginia serves as a home base for production of our signs – made only with 3M™ high-quality products – and wind-resistant portable stands. Today we offer the contracting industry, local, state and federal governments one of the largest inventories of work zone products in the country. In addition, we manufacture fleet graphics, decals and traffic signs, and stock many other highway and traffic control products.



Type III barricade crash test



## Research and Development

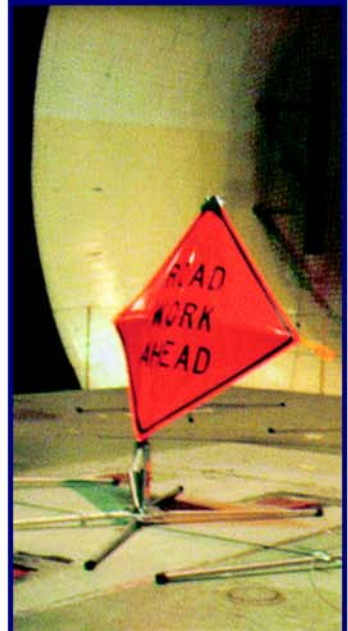
In 1999, KSI began our crash testing program according to NCHRP 350, and received FHWA approvals on our complete line of signs, sign stands and barricades. With a Korman product, you can be assured of meeting and exceeding all of the MUTCD and work zone guidelines. In addition, we have extended our research and development into wind testing, utilizing the Langley Full Scale Wind Tunnel and our own wind testing facility. This insures that each sign and stand combination will stay in place and display with maximum visibility.

At Korman Signs, Inc., our primary concerns are raising performance and providing safe, convenient solutions for the work zone. KSI strives to be the best, with innovative ideas and quality products. We diligently look for ways to improve upon what we make, while we develop new products that provide our customers with what they need. Many of our innovations will be found within the pages that follow.

For more information, please call KSI at 800.296.6050, fax us at 804.261.1040, or you can visit us on our Web site, [www.kormansigns.com](http://www.kormansigns.com).



A large inventory of sign stands is maintained in our 100,000 sq. ft. warehouse



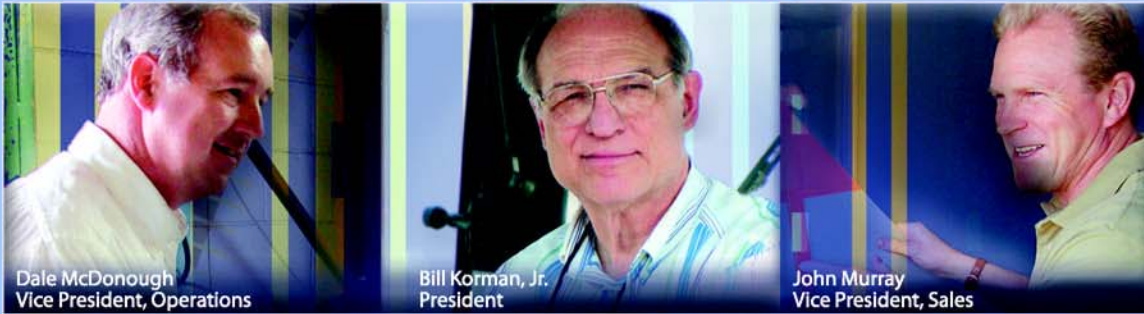
KSI tests products under extreme conditions, such as this at the Langley Full Scale Wind Tunnel

[www.kormansigns.com](http://www.kormansigns.com)



Over 90 combined years of experienced leadership

Welcome to KSI

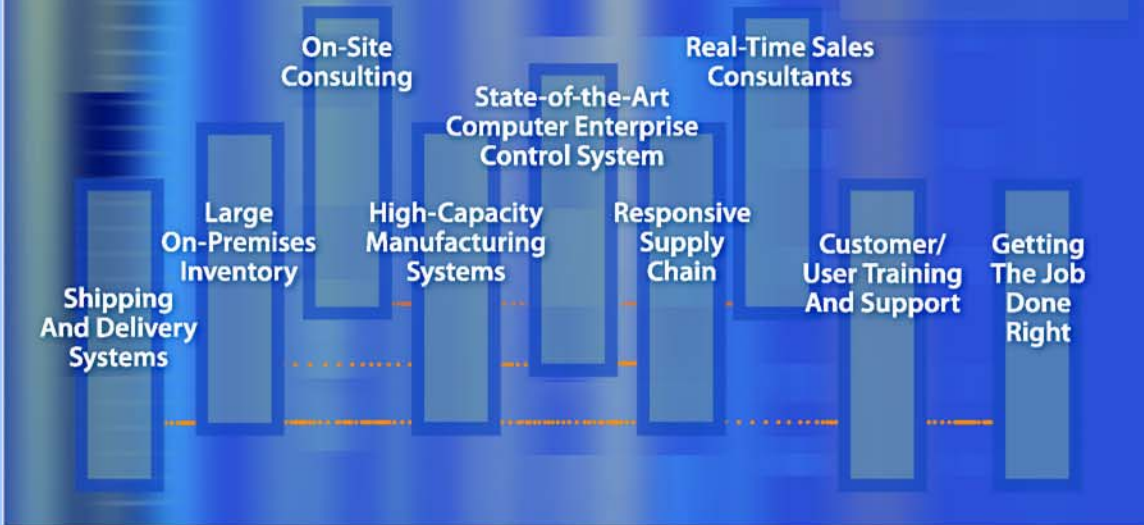


Dale McDonough  
Vice President, Operations

Bill Korman, Jr.  
President

John Murray  
Vice President, Sales

## ORGANIZED FOR CUSTOMER SERVICE



## Contents By Category

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### SIGN STAND CAPABILITIES AND MOUNTING HEIGHTS – NCHRP 350 CRASH TESTED AND ACCEPTED BY WZ-100

All models 350 approved with signs from 30" x 30" to 48" x 60", with or without flags and/or ballast

#### DISTANCE FROM THE SURFACE TO THE BOTTOM OF THE SIGN

MODEL NUMBER	PAGE NUMBER	ROLL-UP SIGNS	DISTANCE FROM THE SURFACE TO THE BOTTOM OF THE SIGN						SUPPL. PANEL**	WITH OR WITHOUT HAZARD LIGHT	NUMBER OF SPRINGS	TELESCOPIC		ALUM. LEGS	STAND WEIGHT POUNDS
			LIGHT-WEIGHT RIGID SIGNS*	1/2" & 5/8" PLYWOOD SIGNS	.125 ALUM. SIGNS	.100 ALUM. SIGNS	.080 ALUM. SIGNS	MAST				LEGS			
SS548UCR	3	13"								0	X			23	
SS548UCRA	3	13"								0	X		X	16	
SS548UC	2	21"								2	X			33	
SS548UCA	2	21"								2	X		X	24	
SS560UCA	4	5'						21"		2	X	X	X	31	
SS1	10	14"	14"	14"			14"	14"		0				20	
SS548	6	19" - 21"	19" - 21"					19" - 21"		2		X		39	
SS548A	6	19" - 21"	19" - 21"					19" - 21"		2		X	X	32	
SS548C	5	19" - 21"	19" - 21"					19" - 21"		2	X	X		39	
SS548CA	5	19" - 21"	19" - 21"					19" - 21"		2	X	X	X	32	
SS548E	7	19" - 21", 5'	19" - 21"					19" - 21"	21"	2	X		X	41	
SS548AE		19" - 21", 5'	19" - 21"					19" - 21"	21"	2	X		X	35	
SS548ETL	7	19" - 21", 5'	19" - 21"					19" - 21"	21"	2	X	X		41	
SS548AETL		19" - 21", 5'	19" - 21"					19" - 21"	21"	2	X	X	X	34	
SS548EE		19" - 21", 5'	19" - 21", 5'	5'	5'	5'	5'	19" - 21", 5'	21"	2	X	X		48	
SS560	8	5' - 7'	5'	5'	5'	5'	5'	5'	21"	2	X	X		53	
SS560A	8	5' - 7'	5'	5'	5'	5'	5'	5'	21"	2	X	X	X	41	
SS560E		5' - 7'	5'	5'	5'	5'	5'	5'	21"	2	X	X		55	
SS560AE		5' - 7'	5'	5'	5'	5'	5'	5'	21"	2	X	X	X	43	
SS560EE	9	5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	21"	2	X	X		55	
SS560AEE		5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	5' - 7'	21"	2	X	X	X	44	








\* Includes Endurance, 6.35 mm solid plastic, Fluted Plastic, HDPE "waffleboard" and 2mm - 4mm aluminum composite laminates (such as ALPOLIC® 350)

\*\* Supplemental panels may be roll-up, 2mm aluminum composite or 10mm fluted plastic up to 48" x 30"

# Sign Stands

Ultra compact  
with springs

**SS548UC**  
**SS548UCA**  
Designed only  
for roll-up signs

-  Key features of the ultra compact design are versatility, size, weight and flexing motion that spills wind while maximizing readability
-  Great for any work zone application including secondary, primary and interstate
-  Universal clamping system holds any roll-up sign securely
-  Telescopic legs with four positive locking positions: vertical, normal, and two for uneven terrain
-  Two-stage dual spring action insures sign visibility at all times and gives stability in high wind conditions
-  Stands are distinguished by their legs – SS548UC has galvanized steel legs while the SS548UCA legs are aluminum
-  350 Approved with or without flags and/or ballast

**Weight:**  
SS548UC 33 lbs.,  
SS548UCA 24 lbs.  
**Collapsed Dimensions:**  
8" x 8" x 31"  
**Open Dimensions:**  
Min. 31" x 60"  
Max. 48" x 96" (Legs Extended)  
**Height to Bottom of Sign:**  
21"  
**Sign Capacity:**  
30" x 30" to 60" x 60"  
**Finish:**  
**SS548UC** –  
Zinc & Flo Coat Galvanized  
**SS548UCA** –  
Zinc & Aluminum



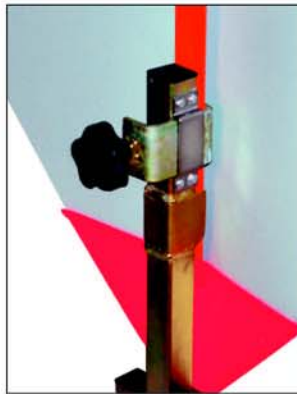
Springs in action



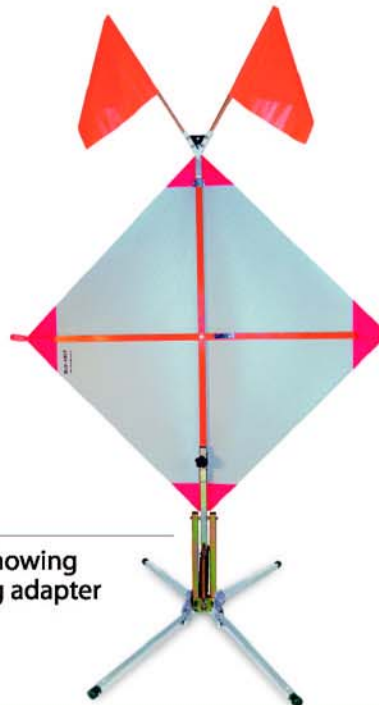
SS548UCA with roll-up sign and optional bolt-on flag adapter, all NCHRP 350 Approved



Easy to carry and transport



Universal clamping system with Comfort Grip soft rubber knob



Back view showing optional flag adapter with flags



Kick release legs drop down and do not require bending or stooping











Telescopic legs have skid-proof rubber tips

NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100

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**Weight:**  
 SS548UCR 23 lbs.,  
 SS548UCRA 16 lbs.  
**Collapsed Dimensions:**  
 7" x 8" x 30"  
**Open Dimensions:**  
 Min. 32" x 57"  
 Max. 49" x 94" (Legs Extended)  
**Height to Bottom of Sign:**  
 13" (Diamond Shape Sign)  
**Sign Capacity:**  
 30" x 30" to 48" x 60"  
**Finish:**  
 SS548UCR –  
 Zinc & Flo Coat Galvanized  
 SS548UCRA –  
 Zinc & Aluminum

-  Key features: compact, lightweight and no spring design
-  Stands derive wind resistance from the vertical sign rib, which flexes to spill the wind as it hits the sign
-  Perfect for secondary roads and short-term interstate projects (moving operations)
-  Our most user friendly stand, because it is so lightweight and easy to handle
-  Stainless steel guide plate provides smooth clamping motion as sign is tightened to the stand
-  Telescopic legs with four positive locking positions: vertical, normal, and two for uneven terrain
-  Stands are distinguished by their legs – SS548UCR has galvanized steel legs while the SS548UCRA legs are aluminum
-  350 Approved with or without flags and/or ballast

**Sign  
 Stands**  
 Ultra compact  
 without springs

**SS548UCR  
 SS548UCRA**  
 Designed only  
 for roll-up signs



Kick release legs for easy leg engagement and disengagement



Universal clamping system holds vertical rib of sign to stand, and Comfort-Grip knob makes it "easy on the hand"



Rectangular signs need third vertical rib to secure to stand, and flex during wind gusts



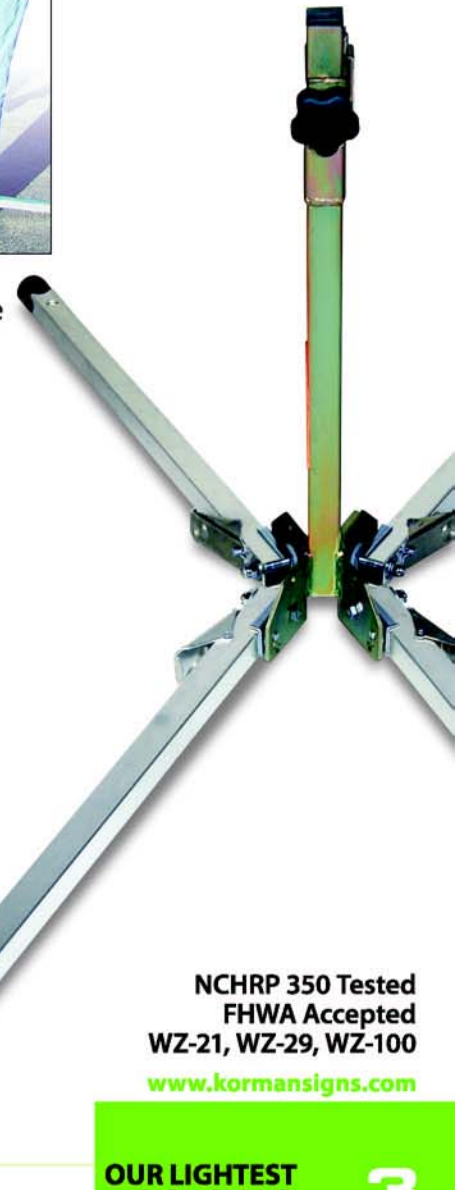
SS548UCR Collapsed View



SS548UCRA with 48" Yield roll-up sign and legs fully extended for maximum stability



Simple design is compact and effective









NCHRP 350 Tested  
 FHWA Accepted  
 WZ-21, WZ-29, WZ-100  
[www.kormansigns.com](http://www.kormansigns.com)

**OUR LIGHTEST  
 SIGN STAND**

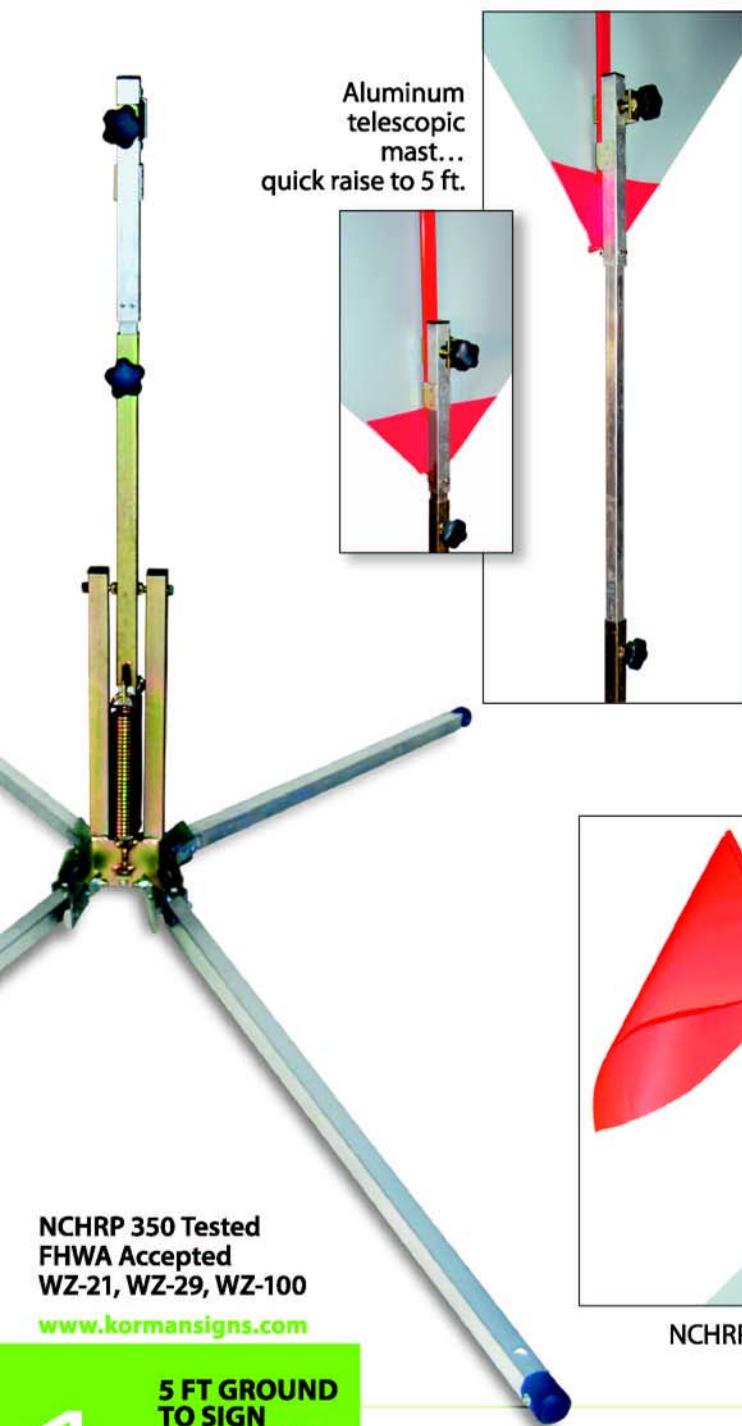
# Sign Stands

Ultra compact  
with springs

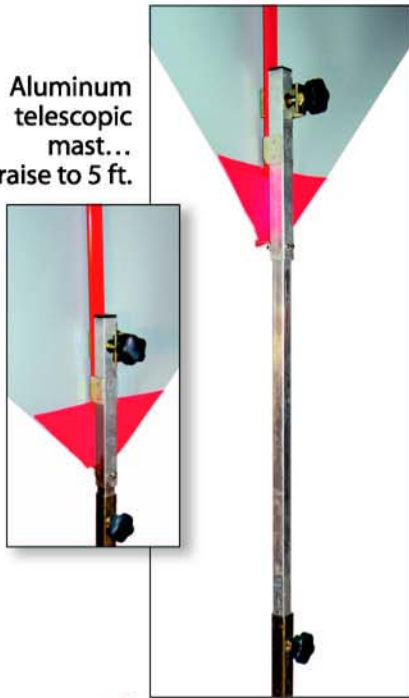
**SS560UCA**  
Designed only  
for roll-up signs

-  Key feature to this compact stand is that it is specifically designed for mounting roll-up signs at a height of five feet
-  Telescopic legs extend to give this stand a wide base, and along with the two stage vertical spring system, makes stability almost like permanent installation
-  Stainless steel guide plate provides smooth clamping motion as sign is tightened to the stand
-  Kick release legs for quick and convenient deployment
-  Optional adapter available to accommodate supplemental sign
-  350 Approved with or without flags or ballast; flag adapter available

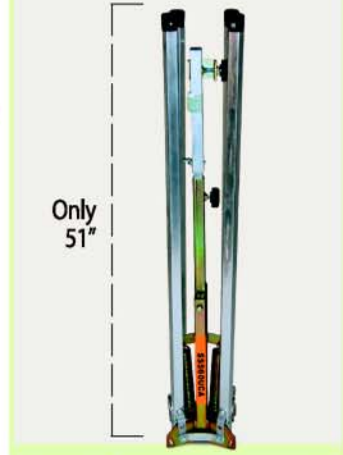
**Weight:**  
SS5560UCA 31 lbs.  
**Collapsed Dimensions:**  
8" x 8" x 51"  
**Open Dimensions:**  
Min. 47" x 95"  
Max. 65" x 133" (Legs Extended)  
**Height to Bottom of Sign:**  
60"  
**Sign Capacity:**  
30" x 30" to 60" x 60"  
**Finish:**  
Zinc & Aluminum



Aluminum telescopic mast... quick raise to 5 ft.



SS560UCA with roll-up sign at 5 ft. and optional flag adapter



Compact for convenient storage



Two-stage spring action insures sign visibility at all times and gives stability in high wind conditions



NCHRP 350 approved optional flag adapter










Snap button provides accurate positioning of sign at 5 ft.

NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100

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**4** 5 FT GROUND TO SIGN CLEARANCE

**Weight:**  
 SS548C 39 lbs.  
 SS548CA 32 lbs.  
**Collapsed Dimensions:**  
 8" x 8" x 39"  
**Open Dimensions:**  
 Min. 31" x 60"  
 Max. 48" x 96" (Legs Extended)  
**Height to Bottom of Sign:**  
 21"  
**Sign Capacity:**  
 30" x 30" to 60" x 60"  
**Finish:**  
 SS548C -  
 Zinc & Flo Coat Galvanized  
 SS548CA -  
 Zinc & Aluminum

-  Key feature: same capability as larger models SS548 & SS548A but more compact and versatile
-  Built-in rigid and roll-up brackets
-  Two-stage dual spring action insures sign visibility at all times and gives stability in high wind conditions
-  Legs have anti-skid rubber tips and snap buttons that activate when leg reaches its maximum extension
-  Conventional x-style footprint sign stand with telescopic mast and telescopic legs, thus reducing collapsed size and giving greater versatility for use on narrow shoulder setups
-  Crash tested in accordance with NCHRP Report 350 with ALPOLIC® 350, other rigid substrates and roll-up signs (see chart, page 1)
-  Stands are distinguished by their legs – SS548C has galvanized steel legs while the SS548CA legs are aluminum

**Sign  
 Stands  
 Compact  
 with springs**

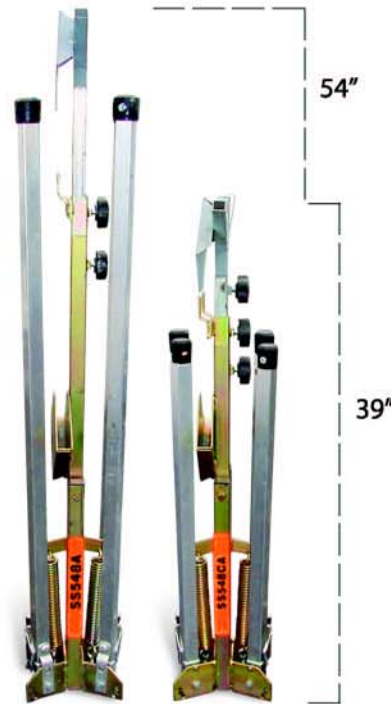
**SS548C  
 SS548CA**  
 Supports roll-up  
 and rigid signs



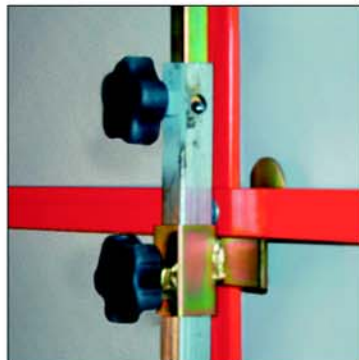
Comfort-Grip soft rubber knobs make for easy tightening and loosening



Built-in flag holders on all KSI rigid stands can hold up to 3 flags



Compare collapsed height of the full-size SS548 (left) with the compact SS548CA



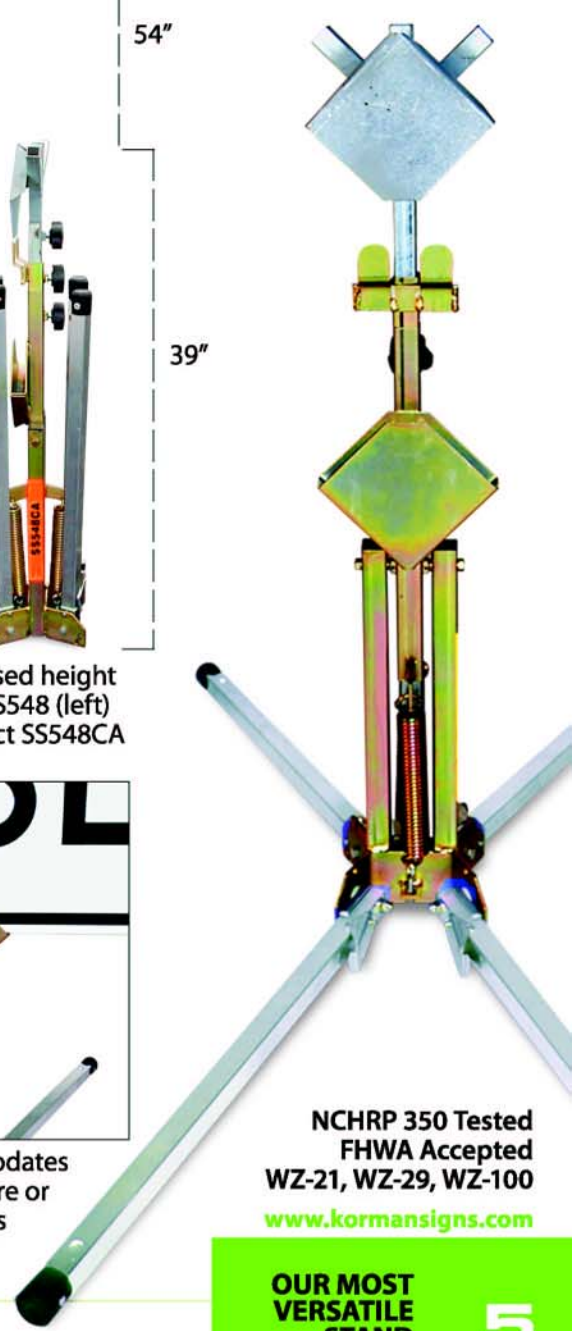
Roll-up bracket holds roll-up sign in place, snap button keeps extended mast at proper position



Large V-clip accommodates diamond shape, square or rectangular rigid signs



V-clips and Offset Bracket allow for various sign applications and thicknesses



NCHRP 350 Tested  
 FHWA Accepted  
 WZ-21, WZ-29, WZ-100  
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**OUR MOST  
 VERSATILE  
 STAND**

# Sign Stands

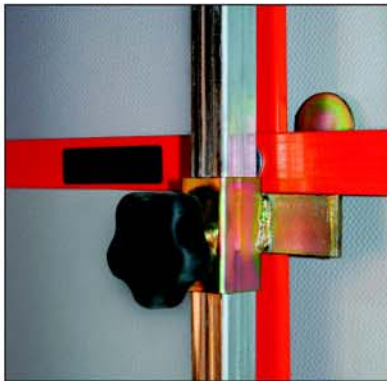
Full-size  
with springs

**SS548**  
**SS548A**

Supports roll-up  
and rigid signs

-  Key feature: workhorse stand of KSI fleet – designed to be versatile and dependable in all work zone applications
-  Built-in mounting brackets conveniently incorporated into the unit in a compact fashion, making setup quick and direct for both rigid and roll-up signs
-  Two-stage dual spring action insures sign visibility at all times and gives stability in high wind conditions
-  Crash tested in accordance with NCHRP Report 350 with ALPOLIC® 350, other rigid substrates and roll-up signs (see chart, page 1)
-  Stands are distinguished by their legs – SS548 has galvanized steel legs while the SS548A legs are aluminum (These legs are standard length – not telescopic)

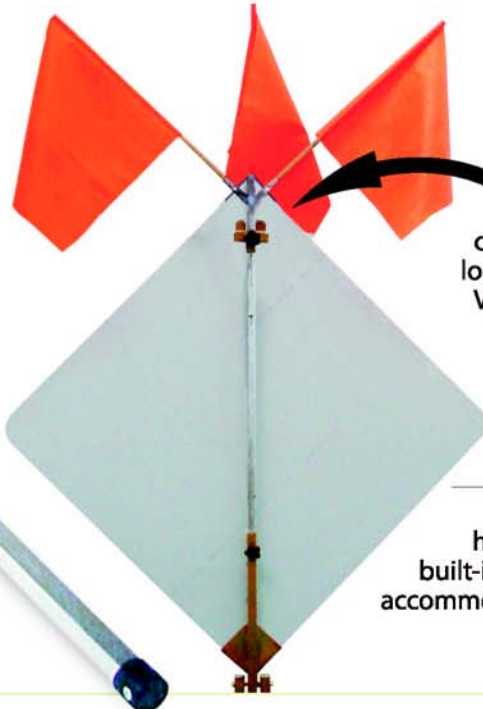
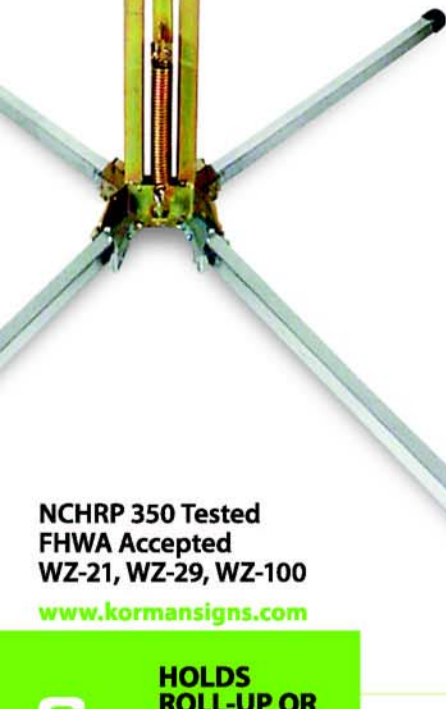
**Weight:**  
SS548 39 lbs.  
SS548A 32 lbs.  
**Collapsed Dimensions:**  
8" x 8" x 54"  
**Open Dimensions:**  
48" x 94"  
**Height to Bottom of Sign:**  
21"  
**Sign Capacity:**  
30" x 30" to 60" x 60" (All shapes)  
**Finish:**  
**SS548**  
Zinc & Flo Coat Galvanized  
**SS548A**  
Zinc & Aluminum



Offset roll-up bracket holds rib in place and soft rubber knob is easy to grip



SS548A with roll-up sign



Roll-up bracket can also be used to lock rigid sign in top V-clip under severe wind conditions

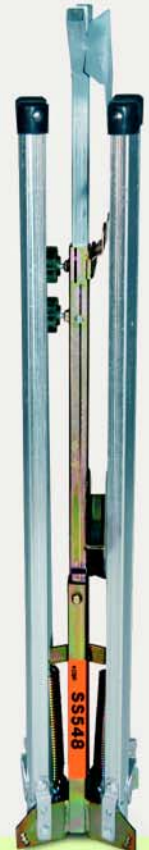
Large V-clips hold rigid sign, and built-in flag adapter can accommodate up to 3 flags

NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100

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6

HOLDS  
ROLL-UP OR  
RIGID SIGNS



SS548 collapses nicely for easy storage and handling



Two-stage dual spring action base with kick release legs



**Weight:**  
 SS548E 41 lbs.  
 SS548ETL 41 lbs.  
**Collapsed Dimensions:**  
 8" x 8" x 73"








**Open Dimensions:**  
 Min. 31" x 60" (SS548ETL Only)  
 Max. 49" x 98"

(Legs Extended - SS548ETL)  
**Height to Bottom of Sign:**

21" Rigid  
 21" & 60" Roll-up

**Sign Capacity:**  
 30" x 30" to 60" x 60"  
 (All Shapes)

**Finish:**  
 SS548E/ETL -  
 Zinc & Flo Coat Galvanized

-  Key feature: same design and versatility as SS548 series but with extended mast giving an additional mounting height of 5 ft. for roll-up signs
-  Built-in rigid and roll-up brackets
-  Extended mast not only enables stand to hold up to 60" x 60" roll-up and rigid signs at 19" clearance but also up to 60" x 60" roll-up sign at 60" (a supplemental sign up to 48" x 30" may be displayed using bolt-on roll-up, sold separately)
-  Crash tested in accordance with NCHRP Report 350 with 2mm ALPOLIC® 350, other rigid substrates and roll-up signs (see chart, page 1)
-  350 Approved with or without flags or ballast and with light
-  SS548E stand has galvanized steel legs  
 SS548ETL has telescopic galvanized steel legs to accommodate narrow shoulder placement
-  Aluminum legs available with KSI model SS548AE

**Sign  
 Stands**  
 Full-size  
 with springs

**SS548E  
 SS548ETL**  
 Supports roll-up  
 and rigid signs



SS548ETL collapsed, shown with telescopic legs extended



Two-stage dual springs



Two-stage dual spring action



Using an additional bolt-on roll-up bracket, supplemental roll-up sign can be added



SS548ETL set up on uneven terrain using various locking positions



SS548E shown with 48" x 48" roll-up at 60" and 48" x 30" ALPOLIC® 350 at 21"



ALPOLIC® 350 rigid supplemental sign (up to 48" x 30") attached using lower V-clip and additional roll-up bracket



SS548E with roll-up at 5 ft. clearance



NCHRP 350 Tested  
 FHWA Accepted  
 WZ-21, WZ-29, WZ-100

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5 FT  
 CLEARANCE ON  
 ROLL-UP SIGNS

# Sign Stands

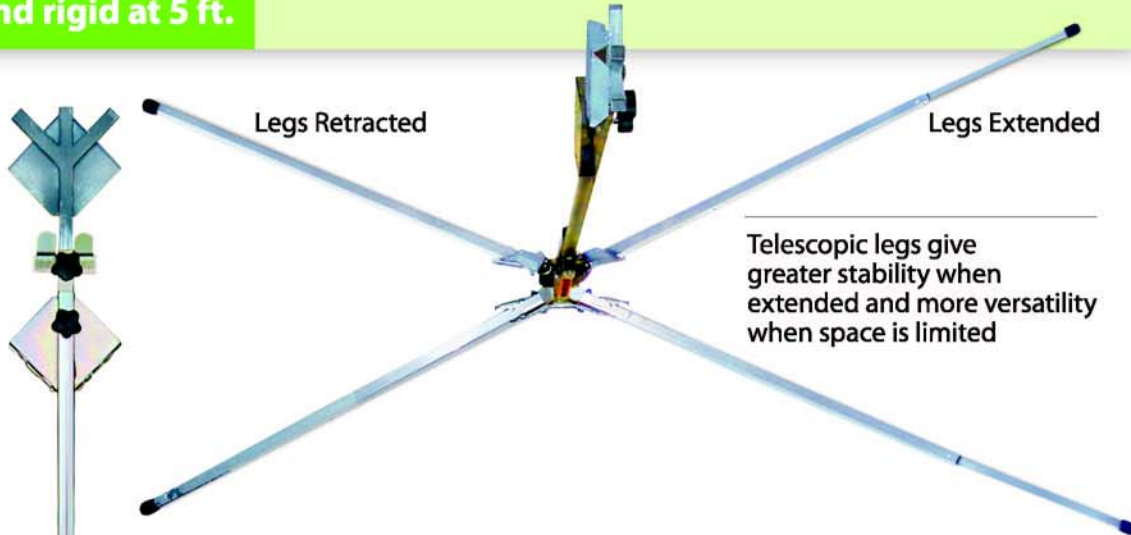
Heavy-duty  
Full-size  
with springs

## SS560 SS560A

Supports roll-up  
and rigid at 5 ft.

-  Key feature: designed for highway applications that require a rigid sign with ground-to-bottom sign clearance of 5 ft. or roll-up at 5 ft. to 7 ft.
-  Crash tested in accordance with NCHRP Report 350 with ALPOLIC® 350, other rigid substrates and roll-up signs (see chart, page 1)
-  Supplemental rigid or roll-up sign can be held under primary sign with additional bolt-on brackets
-  Kick release legs with multiple leg positions for uneven terrain
-  350 Approved with or without flags or ballast and supplemental sign and lights
-  Stands are distinguished by their legs –  
SS560 has galvanized steel legs while the SS560A legs are aluminum

**Weight:**  
SS560 53 lbs.  
SS560A 41 lbs.  
**Collapsed Dimensions:**  
8" x 8" x 76"  
**Open Dimensions:**  
Min. 47" x 97"  
Max. 65" x 133" (Legs Extended)  
**Sign Capacity:**  
30" x 30" to 60" x 60"  
(All Shapes)  
**Finish:**  
SS560 –  
Zinc & Flo Coat Galvanized  
SS560A –  
Zinc & Aluminum



SS560 Collapsed View

SS560 with roll-up supplemental sign – additional bolt-on bracket required for this application



SS560A with rigid sign



Rigid or roll-up brackets are built in to securely hold either type of sign



Rectangular/square roll-up signs are easily attached to stand utilizing roll-up bracket

NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100

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**Weight:**  
SS560EE 55 lbs.






**Collapsed Dimensions:**  
8" x 8" x 91"

**Open Dimensions:**  
Min. 47" x 95"  
Max. 65" x 133" (Legs Extended)

**Height to Bottom of Sign:**  
5 ft. to 7 ft. for roll-up or rigid

**Sign Capacity:**  
30" x 30" to 48" x 60"  
At 5 ft. – 60" x 60"

**Finish:**  
Zinc & Flo Coat Galvanized

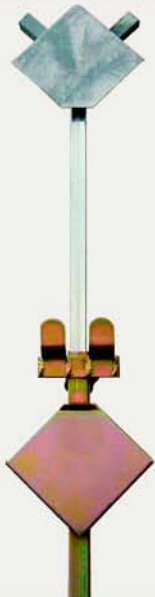
-  SS560EE has been designed to handle roll-up or rigid signs at a 5 ft. to 7 ft. clearance from bottom of sign to ground
-  Use where maximum visibility is required
-  Crash tested in accordance with NCHRP report 350 with ALPOLIC® 350, other rigid substrates and roll-up signs (see chart, page 1)
-  350 Approved for use with flags, ballast and light
-  Rugged construction – built to last

**Sign  
Stands**  
Heavy-duty  
Full-size  
with springs

**SS560EE**  
Supports roll-up  
and rigid signs at  
5 ft. to 7 ft.



SS560EE Collapsed View



Adjustable height  
V-clip supports rigid signs



SS560EE  
with rigid sign  
at 7 ft.

Light and  
supplemental sign  
can be added to  
the SS560EE



Optional bolt-on  
roll-up bracket holds  
supplemental sign

Heavy-duty  
base, pivot and  
spring assembly










NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100

[www.kormansigns.com](http://www.kormansigns.com)

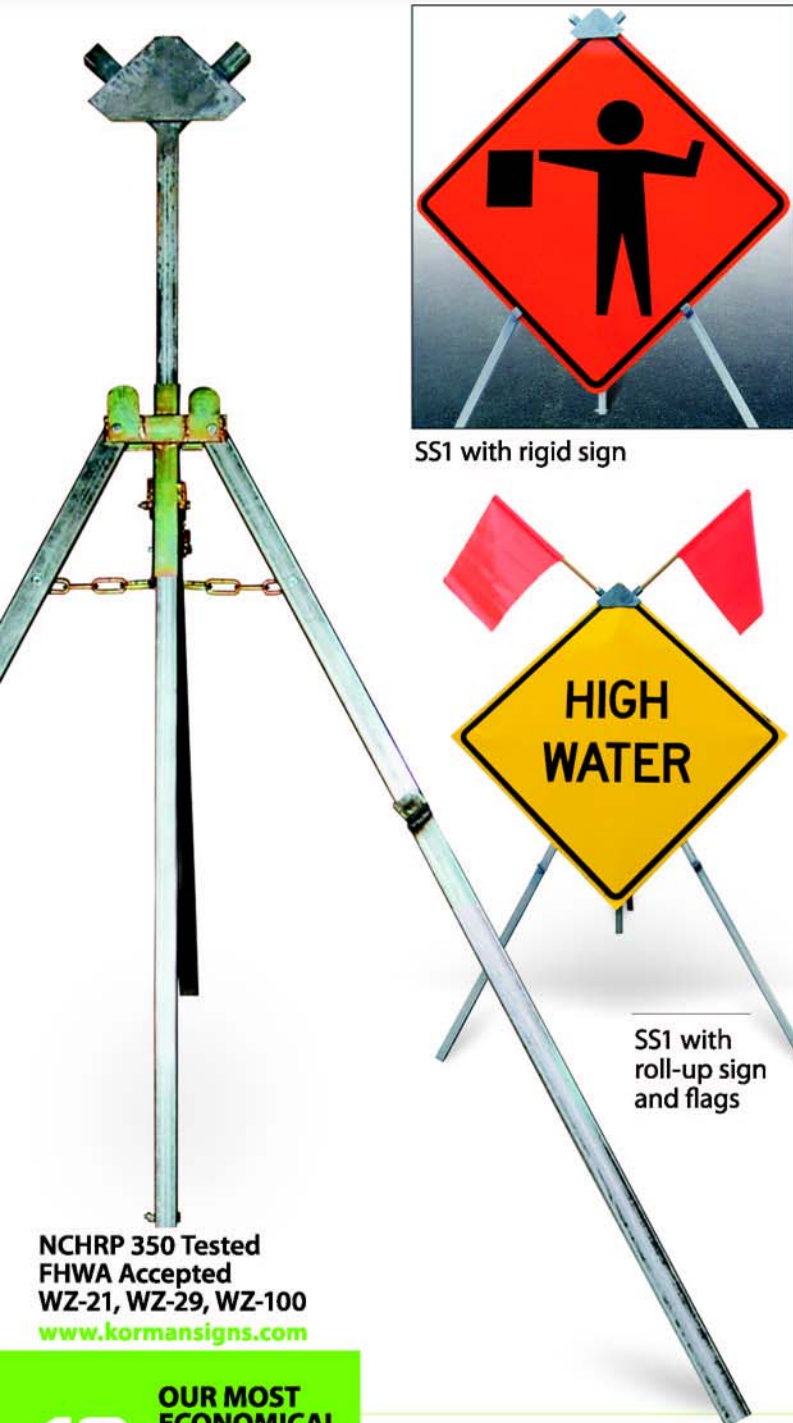
# Sign Stands Tripod

**SS1**

Supports roll-up  
and rigid signs

-  Key feature: most economical stand
-  Collapsible and capable of displaying rigid or roll-up signs
-  Tripod combination of economy, versatility, compactness and practicality – all in one stand
-  Heavy-duty construction and galvanized finish insure a long, hard-working career
-  Crash tested in accordance with NCHRP Report 350 with ALPOLIC® 350, other rigid substrates and roll-up sign (see chart, page 1)
-  350 Approved with or without flags or ballast and with light
-  Dependable performance since its introduction over 30 years ago

**Weight:**  
20 lbs.  
**Collapsed Dimensions:**  
6" x 4" x 54"  
**Open Footprint ID:**  
47" x 52" x 52"  
**Height to Bottom of Sign:**  
13"  
**Sign Capacity:**  
30" x 30" to 48" x 60"  
**Flag Holders:**  
3  
**Finish:**  
Zinc & Flo Coat Galvanized



SS1 with rigid sign



SS1 with  
roll-up sign  
and flags



Roll-up bracket built into design –  
holds horizontal rib in place



350 Approved with sandbag



SS1 collapsed view



Heavy-duty chains control leg  
spread – telescopic mast  
includes bracket with flag holders



Sign clips hold bottom of  
rigid sign in place

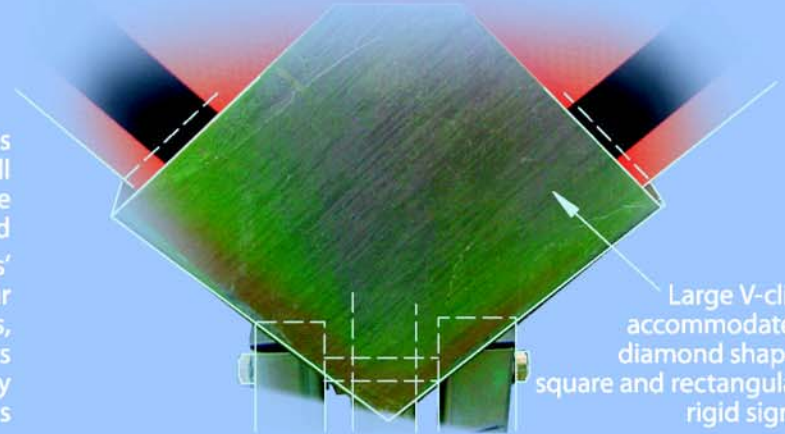
NCHRP 350 Tested  
FHWA Accepted  
WZ-21, WZ-29, WZ-100  
[www.kormansigns.com](http://www.kormansigns.com)

**10** OUR MOST  
ECONOMICAL  
STAND

# EXAMINE THE DISTINCTIVE FEATURES OF KORMAN STANDS



Each stand includes brackets to hold all materials for which the stand was designed  
Other manufacturers' signs can be used in our versatile bracket designs, and optional brackets are available to display supplemental signs



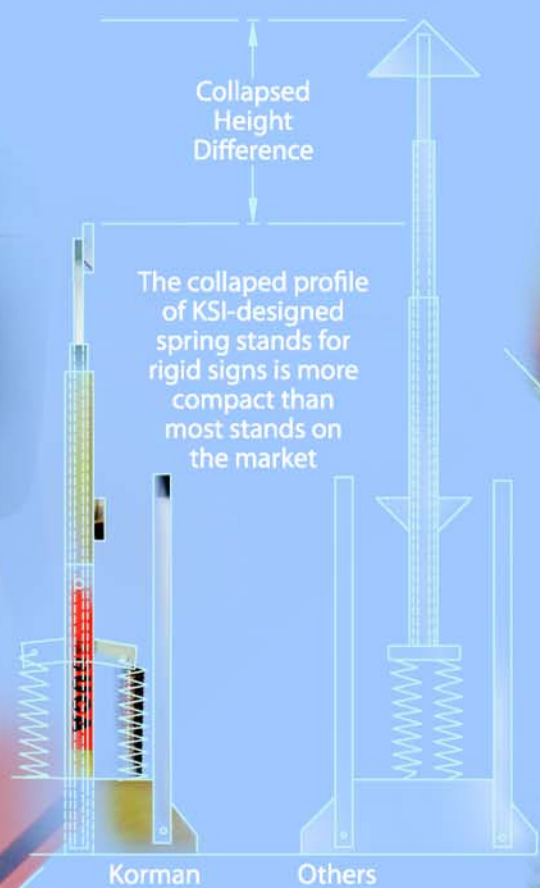
Large V-clip accommodates diamond shape, square and rectangular rigid signs

KSI stands feature snap lock buttons on masts and legs



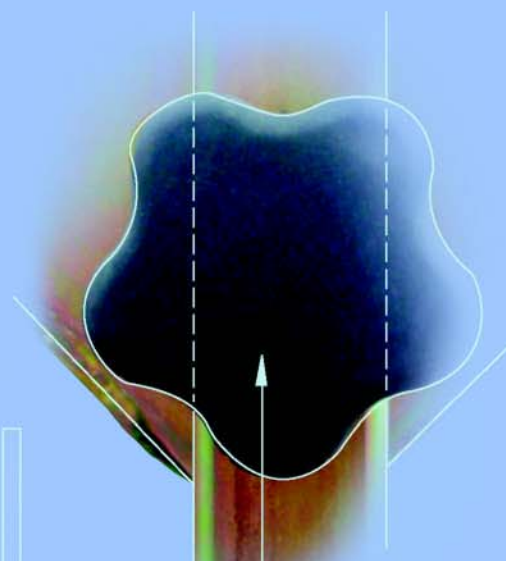
Collapsed Height Difference

The collapsed profile of KSI-designed spring stands for rigid signs is more compact than most stands on the market



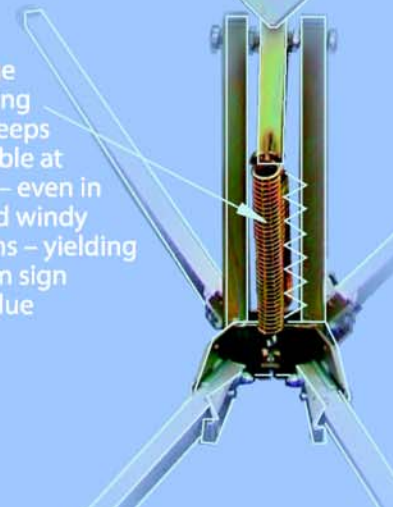
Korman

Others



Comfort grip knobs are provided on all KSI sign stands, making mast height changes easy on the hand

Two-stage Dual Spring system keeps signs visible at all times – even in harsh and windy conditions – yielding maximum sign target value



Kick release legs feature 3 height settings and a storage position








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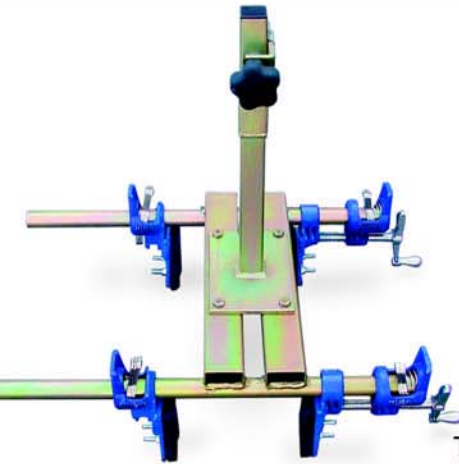
FEATURES YOU CAN USE

# Median Adapters

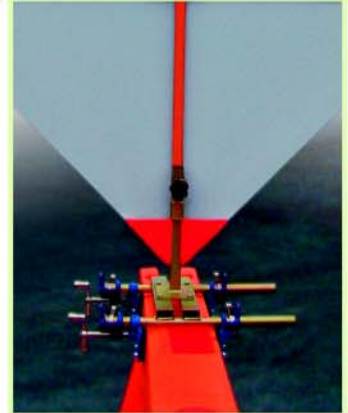
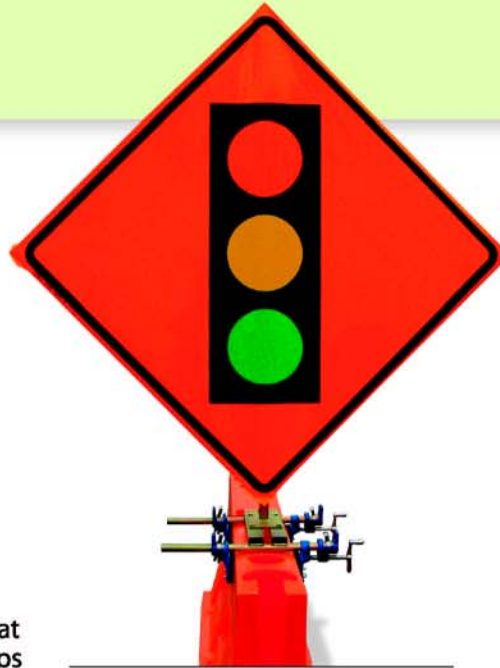
**SSMAUCR**  
**SSMAUC**  
Designed only  
for roll-up signs

-  SSMAUC (this page) and SSMA548 (page 13) are spring-loaded for flexibility in windy conditions. SSMAUC is designed only for roll-up signs while SSMA548 is designed for roll-up or rigid signs
-  SSMAUCR is designed only for roll-up signs and is equipped with stainless steel guide plates, which provide for a smooth clamping motion
-  Tightening and loosening sign is made easy with Comfort-Grip soft rubber knob
-  Use on any permanent concrete, steel or approved temporary barriers (as shown)
-  All median adapters include pony clamps (shown top of next page) that adjust from 4" to 16" wide

**Sign Capacity:**  
SSMAUCR –  
Roll-up signs up to 48" x 60"  
SSMAUC –  
Roll-up signs up to 48" x 60"  
**Finish:**  
SSMAUCR – Zinc  
SSMAUC – Zinc



The SSMAUCR has a springless design that only supports roll-ups



The SSMAUC employs dual, two-stage spring action



Vertical rib is held in place by the universal clamping system and Comfort-Grip knob





**Sign Capacity:**

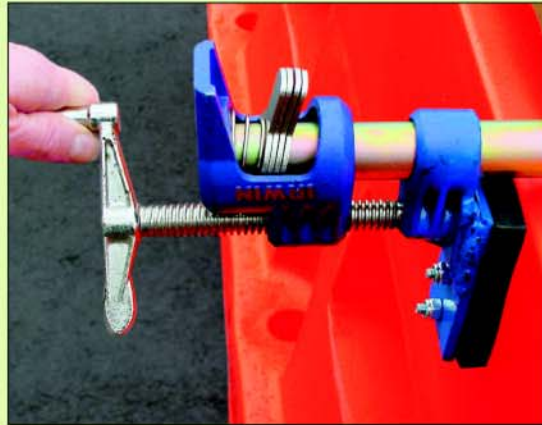
**SSMA2PCM** –  
Roll-up or rigid sign  
up to 48" x 60"

**SSMA548** –  
Roll-up or rigid sign  
up to 48" x 60"

**Finish:**

**SSMA2PCM** –  
Zinc & Flo Coat Galvanized  
**SSMA548** –  
Zinc & Flo Coat Galvanized

-  All median adapters feature pony clamps that provide quick setup and plenty of torque
-  Clamps adjust from 4" to 16" wide applications
-  Rubber grips clutch any surface, and hold secure over long periods of time
-  Models available to fit all applications



# Median Adapters

**SSMA2PCM**  
**SSMA548**  
Supports roll-up  
and rigid signs



SSMA2PCM has a rigid vertical mast that does not flex



The 2-piece telescopic mast of the SSMA2PCM firmly supports roll-up or rigid signs



The versatile spring-loaded SSMA548 supports either roll-up or rigid signs



Similar in design to our SS548 portable sign stand, the SSMA548 handles extreme winds with ease



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# Roll-up Signs

**3M™ Diamond Grade, Vinyl & Mesh**

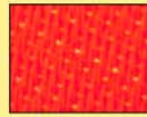


## THREE ROLL-UP SIGN MATERIALS

**DF SERIES**  
3M #RS-20/24 Diamond Grade Wide-Angle Prismatic Lens Reflective  
3-YEAR WARRANTY

**RF SERIES**  
3M #RS-30/34 High-Intensity Vinyl Microprismatic Reflective

**MF SERIES**  
Fluorescent Orange Mesh Non-Reflective For Daytime Use Only



### CONSIDER THESE QUALITIES OF 3M DIAMOND GRADE ROLL-UP SIGNS:

- Unsurpassed reflectivity & angularity values
- Long-lasting visible fluorescent orange color
- Portability
- Surface cleans up easily and is nonabsorbent of most chemicals
- 3-Year warranty
- Product of 50 years of ongoing 3M innovation and engineering
- Closely resembles a rigid Diamond Grade sign due to its smooth, low-wrinkle surface



3M Diamond Grade signs retain surface integrity and reflectivity after numerous cleanings



KSI maintains a large inventory of roll-up signs, screen-printed with a wide variety of legends



NCHRP 350 Accepted  
[www.kormansigns.com](http://www.kormansigns.com)

**14** TEMPORARY WORK ZONE SOLUTIONS

Overlays are available for customizing all roll-up signs – each is equipped with velcro fasteners for application to the front side of signs, and can be adhered to the back side when not in use



Numeric overlay kits provide for multiple distance messages



Sewn-on velcro strips attach message overlay to signs



Sewn-on velcro strips adhere spare overlay to back of sign

Also available in roll-up is 3M #RS-33 Fluorescent Pink for incident management, as recommended in the 2003 MUTCD Chapter 6-1, FHWA and NFPA 1500



KSI provides the option of riveted plastic pockets, available upon request



**CORNER POCKETS**

KSI has been developing and improving upon roll-up signs for more than 30 years.

State-of-the-art, computerized sewing equipment at KSI has brought with it innovations in pocket designs.

For example, 4-ply triangular shaped pockets spread corner stress over a larger area to help prevent failure (40 square inches vs. 5 square inches for plastic pockets).



**DIAMOND GRADE ROLL-UP SIGNS CAN DUPLICATE ANY RIGID SIGN AND ARE AVAILABLE IN MANY SHAPES, SIZES AND COLORS**

**Roll-up Signs**

**3M™ Diamond Grade, Vinyl & Mesh**



Heavy-duty, 4-ply, minimum 14 oz. material, bar-tacked and ...



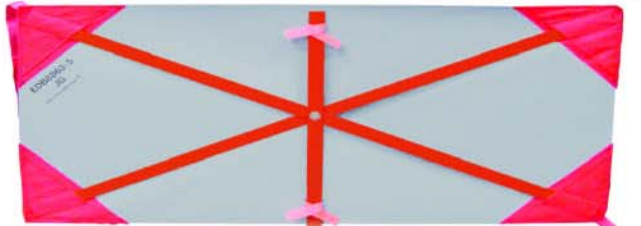
...double-stitched directly to the back of the sign for durability



Printed lot number for quality control



Strip of velcro keeps signs in tightly rolled-up state, and is available for anti-kiting



Rectangular signs have angled pockets for best rib fit, and come with above-shown anti-kiting velcro

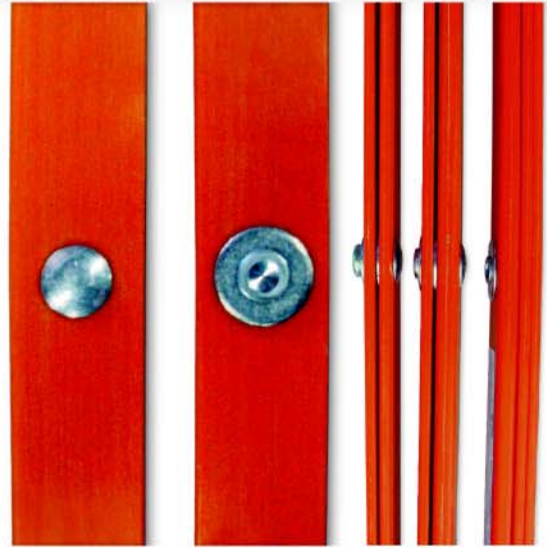


Cloth pockets allow signs to be rolled tightly for stacking and storing, for greater convenience and more efficient use of space

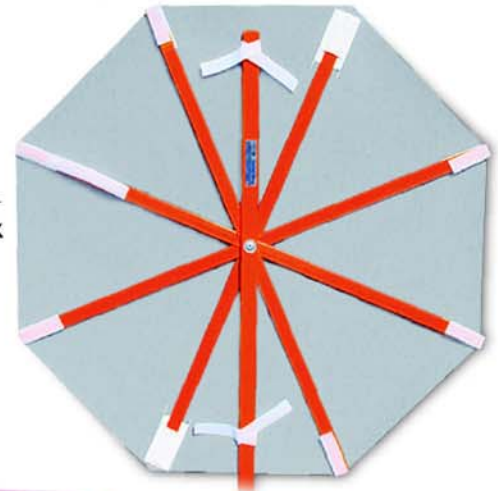
Sign legend is printed on outer edge for ready identification when sign has been rolled for storage and transport (sign bags available)

All signs come with .375" thick vertical ribs to minimize sign deflection when used with ultra-compact stands

Rib ends are radiused and chamfered for smooth assembly and low abrasion



High-quality UV resistant polyester/glass fiber "pultrusion" ribs are joined at the center with a special heavy-duty, low-profile rivet to minimize scuffing and wear; thus lasting the lifetime of the sign they support













NCHRP 350 Accepted  
[www.kormansigns.com](http://www.kormansigns.com)

# Rigid Signs

## ALPOLIC® 350 Composite, Solid Aluminum and Plastic

### CONSIDER THESE ADVANTAGES OF USING ALPOLIC® 350:

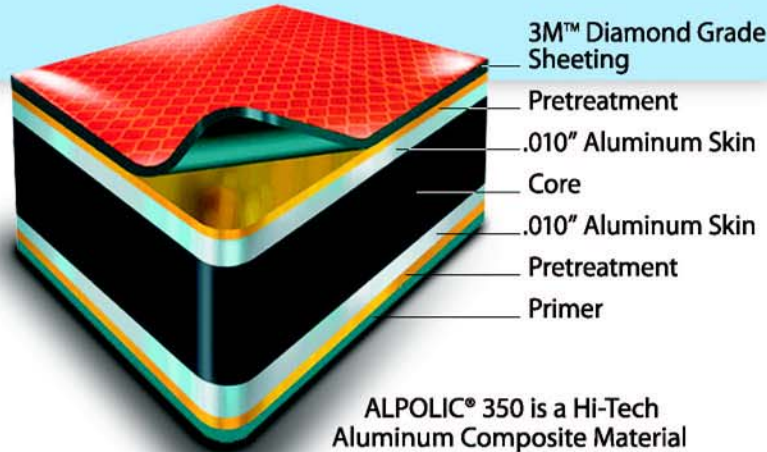
-  Energy absorption characteristics
-  Lightweight – half the weight of .080 aluminum
-  Accepted by major sheeting manufacturers for both permanent and temporary signs
-  Rigidity
-  Outdoor durability
-  Retains its flatness
-  User friendly with ease of fabrication and storage
-  Exceptional reflective performance under wind load
-  Crash safety – low airborne velocity
-  Anti-theft value

**ALPOLIC® 350**  
2mm, 3mm, and 4mm  
Sheets, Blanks

**ALUMINUM**  
.040, .063, .080, .100, and  
.125 Gauge Sheets, Blanks

**PLASTIC**  
10mm and 13mm  
Fluted Sheets, Blanks

ALPOLIC® 350 is protected  
for work zone signs under  
U.S. Patent No. 6,569,510,B1



ALPOLIC® 350 is a Hi-Tech Aluminum Composite Material (ACM) produced by continuously laminating aluminum coil stock to both sides of an extruded thermoplastic core.



Compare 48" & 60" ALPOLIC® 350 signs in portable sign application



Post-mounted ALPOLIC® 350 rigid sign with 3M™ Diamond Grade sheeting

NCHRP 350 Tested  
FHWA Accepted  
WZ-100

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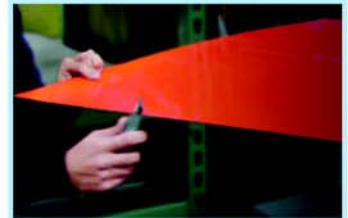


Permanent ALPOLIC® 350 span wire sign application



ALPOLIC® 350 Signs –  
NCHRP 350 approved with Type III Barricades

ALPOLIC signs (2mm) can be direct-mounted to the rails of any NCHRP 350 approved barricade up to 25 sq. ft., per WZ-100 approval letter







ALPOLIC® 350 fabricates using the same equipment as aluminum

**Product Testing:**

All sign and stand assemblies used on the NHS must be subjected to the crash testing criteria set forth in NCHRP Report 350 and its addenda. KSI signs and sign stands are subjected to testing through one or more of the following:

- Langley Wind Tunnel
- Formal Wind/Stress Tests
- Formal and Informal Crash Tests and Wind Tests

**ALPOLIC® 350 – THE VIABLE SOLUTION FOR PERMANENT SIGNING**

-  Save Lives and Reduce Potential Injuries – NCHRP 350 Crashworthy and accepted by FHWA
-  Save Money – Lower cost than solid aluminum
-  Save Your Back – Half the weight of solid aluminum, easier to handle and quicker to install
-  Save Your Sign – Minimize theft (no value at recycle centers) Bullet tolerant (small hole, small dent) Reclaim with hydrostripper for reuse

**Rigid Signs**

**ALPOLIC® 350 Composite, Solid Aluminum and Plastic**



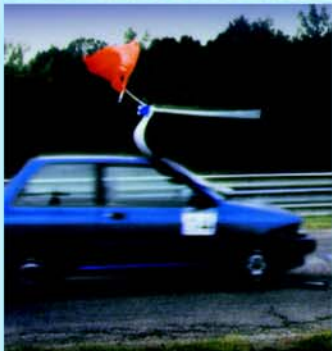
ALPOLIC® 350 (right) outperformed roll-up signs in tests at the Langley Wind Tunnel (above at 15 M.P.H.)



ALPOLIC® 350 was subjected to hurricane force wind testing at ATI



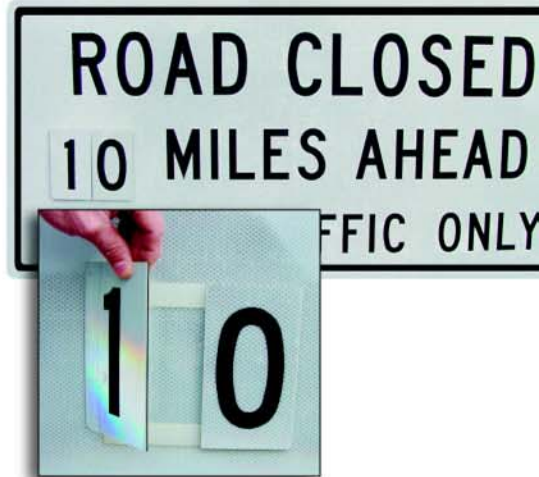
ALPOLIC® 350 For permanent sign solutions



Typical ALPOLIC® 350 impact during crash testing



ALPOLIC® 350 signs and barricade prepared for testing to NCHRP 350 requirements



Overlays are available for rigid signs, attaching to the sign via dual lock tape

KSI stocks a large inventory of standard blanks and can fabricate to customers' specifications

NCHRP 350 Tested  
FHWA Accepted  
WZ-100

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**APPLICABLE RIGID SIGN SOLUTIONS**

# KSI STANDARD WORK ZONE LEGENDS



W3-5



W3-2



W9-2R



W9-2L



W21-5bR



W21-5bL



W37



W236



W3-1



W20-7A



W61



W151



W189



W46



W21-5



W90



W41-8



W21-1A



W54



W20-1



W20-2



W20-3R



W20-05L



W20-05R



R1-1



R1-2



W20-4



W20-5L



W20-5R



W21-1B



W21-4



W21-7



W4-2R



W4-2L



W226



W6-20



W33



W34



W35



VW-20



W266



Wb-20



W3-3



W8-1



W187



W79  
with space for arrow overlay



W10-10



W48



G20-2A



G20-2



W24



W100



W257L



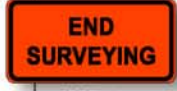
W20-6L



W8-7



W8-9



W64



VW-21



W36



W255



W20-3



W5-5



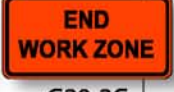
W20-5RZ



W20-5RY



W63



G20-2C

48 X 24



W20-5RV



W20-5RW



W257R



W20-6R



W44



W3-4

### Panel Coverings

3M™ Diamond,  
Prismatic Hi-Intensity,  
Hi-Intensity,  
Engineer Grade

Left or right slant  
pattern on one or both  
sides of barricade








### Panel Construction

1" x 8" Extruded Plastic  
.375" and .5" Fluted Plastic  
24" or 36" length  
8" or 12" depth

### Leg Construction

1.5" x 1.5" x .25"  
Impact Resistant  
HDPE tubing

### THE JAMMER BARRICADE SERIES

-  Available in 24" or 36" wide models, each with either 8" extruded or 8" and 12" fluted plastic panels
-  Side locks hold barricade in secure open position
-  Lightweight and easy to handle
-  36" Type II gives greater visibility and performance
-  Barricade legs intermesh for compact storage and stackability
-  NCHRP 350 approved with or without barricade light (up to 4.4 lbs.), sandbags (up to 100 lbs.) and up to 48" x 48" 2mm ALPOLIC® 350 composite sign
-  Replacement parts are available for repairs and for converting barricade from 24" to 36"

## Type II Barricades

## WBT2 Jammer Series



KSI puts our Type II barricades through the same rigorous crash testing as our other products



Side lock feature assures that barricades will not collapse unintentionally



Optional barricade light attaches easily to barricade with included hardware



Type II Barricades are designed for temporary traffic control applications, and accommodate optional 2mm ALPOLIC® 350 signs up to 48" x 48" mounted on panels



KSI Type II barricades collapse flat, which makes stacking a cinch



Type II barricade with sandbag and attached barricade light








NCHRP 350 Tested  
FHWA Accepted  
WZ-100 Amendment #3

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# Type III Barricades

## WBT3 Series

-  Our Type III barricades are constructed of rugged galvanized square tubing and plastic panels – durable yet lightweight and built to last
-  Skids are connected to the uprights by either hinge plate bracket (The EZ-Kade) or stub weld receiver (The Klassic-Kade)
-  Our Type III barricades are approved to display single 2mm ALPOLIC® 350 composite sign or any combination of signs up to 33 sq. ft. mounted to single or multiple rails, at 12" minimum from ground to bottom of sign per WZ-100 acceptance letter (ALPOLIC® 350 is protected by the following: U.S. Patent No. 6,569,510,B1)
-  Sandbags up to 200 lbs. can be used, or stakes can be conveniently placed through the perforated legs for extra stability
-  Shipped unassembled (includes assembly instructions and hardware)

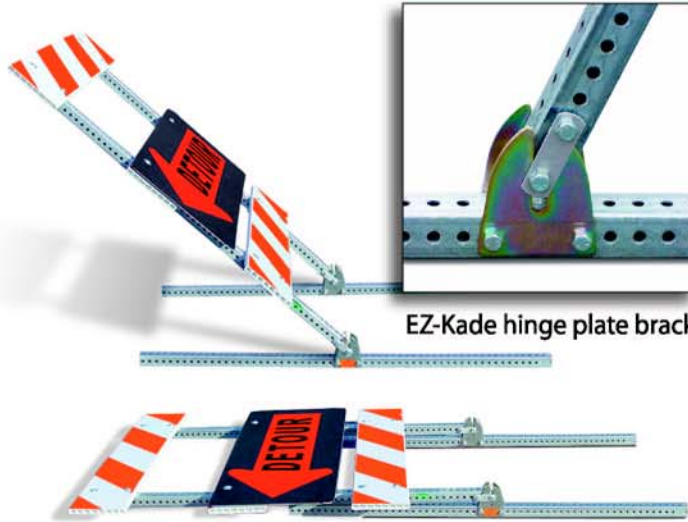
**Panel Coverings**  
 3M™ Diamond,  
 Prismatic Hi-Intensity,  
 Hi-Intensity,  
 Engineer Grade  
 single or double sided

**Panel Construction**  
 8" tall hollow core plastic  
 (in 1" or 2" thicknesses)  
 Also available in .5" fluted plastic, 8", 10" or 12" tall  
 4', 6', 8', 10', 12' lengths

**Frame Construction**  
 Galvanized square  
 perforated tube  
 Hinge plate bracket or  
 Stub weld receiver  
 Optional crossbar

## EZ-Kade

With no tools, parts or pieces to keep track of, The EZ-Kade is our new Quick Release barricade that makes setup and storage a snap – simply lift up and uprights lay down to store



EZ-Kade hinge plate bracket



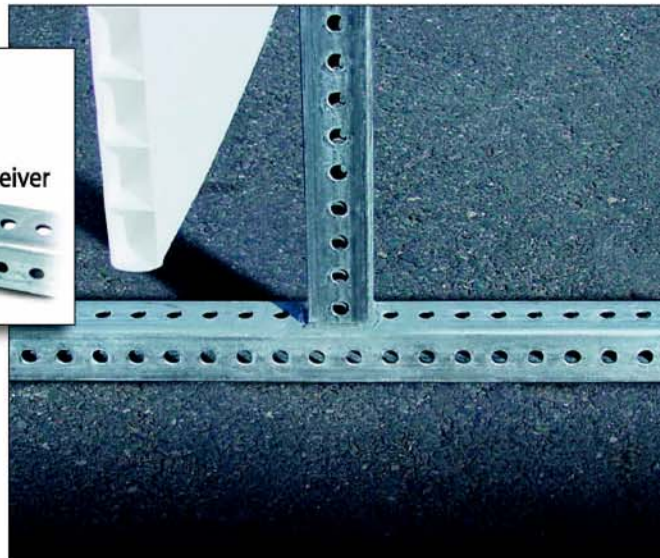
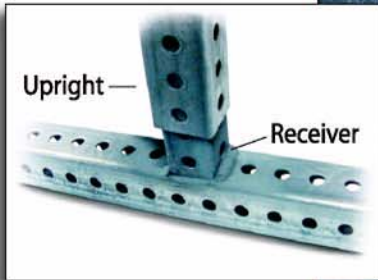
8" hollow core plastic comes in 1" and 2" thicknesses



Rails available in hollow core or .5" fluted plastic

## KLASSIC-KADE TYPE III BARRICADES

Cutaway view illustrates dual support system on Klassic-Kade – receiver is stub welded to skid, upright tubing slides over



NCHRP 350 Tested  
 FHWA Accepted  
 WZ-100

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For extra stability, stakes can be placed through perforations in place of sandbags

**20** EASY TO HANDLE, BUILT TO LAST

## BARRICADE ORDERING OPTIONS

MODELS	BASE CONNECTION	BARRICADE HEIGHTS AND NUMBER OF PANELS	CROSS BAR WITH BRACKETS AND FASTENERS	PANEL MATERIAL	PANEL LENGTH OPTIONS	3M™ SHEETING	WARNING LIGHTS ADAPTERS
EZ-KADE	HINGE PLATE	5' – 3-PANEL 7' – 4-PANEL	Adds Structural Stability  Recommended Especially For Barricades 8' And Over In Length	1" x 8" And 2" x 8" Hollow Extruded Plastic	4' 6' 8' 10' 12'	Diamond Grade High-Intensity Prismatic High-Intensity Engineer Grade Left, Right Or Chevron Pattern Single Or Double-Sided	Adapter Brackets And Bolts Needed To Attach Standard Barricade Lights
CLASSIC-KADE	WELDED STUB			.375" or .5" x 8", 10" or 12" High Fluted Plastic			

# Type III Barricades

## WBT3 Series



Type III barricade with ALPOLIC® 350 signs crash test



Type III barricade with sign blanks mounted for crash test



All KSI Type III barricades have been crash tested and are FHWA Letter WZ-100 #3 accepted



WBT3 Series  
5' high x 8' long barricade with 48" x 30" ALPOLIC® 350 sign mounted to top panel – Chevron Pattern rails are lightweight, strong and durable 1" thick hollow core plastic



WBT3 Series  
7' high x 8' long barricade mounted with 96" x 48" ALPOLIC® 350 sign



WBT3 Series  
7' high x 12' long barricade depicts typical sign setup for interstate detour, with ALPOLIC® 350 signs and lights

NCHRP 350 Tested  
FHWA Accepted  
WZ-100 Amendment #3  
[www.kormansigns.com](http://www.kormansigns.com)

DEPENDABLE  
AND SAFE  
SOLUTIONS **21**

# Accessories

## Traffic safety products



### SAFETY IS OUR PRIORITY

We have developed a full line of transportation safety products to work in tandem with your highway and construction signage

#### Barrels

7.5 lbs. 41.27" height, available with tire ring, plastic sandbag base or molded rubber base  
Certified to meet crashworthy requirements of NCHRP 350 and Federal MUTCD

#### Cones

18", 28" or 36" height  
4" and 6" 3M™ reflective bands available for night time use

All cones meet State and Federal standards

7 lb. Cone Weight available to help stabilize cones in windy conditions

**42" T-Top Delineator** with two yellow reflective bands and 12 lb. base



Stop/Slow Paddle with 7 ft. staff in plastic with 2-piece staff as shown, or metal staff and paddle

Also available in a lightweight roll-up kit (inset photo) for compact storage and easy transport



From warning lights and pavement markers to safety vests and Stop/Slow paddles, we offer everything needed to run safer work zones on interstates, state highways and city streets



Mesh or vinyl flags for increased visibility - 24" flag with 36" staff or 18" flag with 24" staff



ANSI 2 Lime Vests

Orange Mesh Vest

KSI provides the right safety vest for any situation



**Korman Signs**  
INC.

HEADQUARTERS FOR TRANSPORTATION SAFETY AND FLEET GRAPHICS

3029 Lincoln Avenue  
Richmond, Virginia 23228 -4295