
SIGNS AND SUPPORT SYSTEM

Any product that meets the requirements of Alberta Transportation Standard Specifications for Highway Construction, [Specification 5.18](#) Supply of Permanent Highway Signs, Posts and Bases or Highway Maintenance Specifications, [Specification 54.12](#) Supply of Permanent Highway Signs; [Specification 54.13](#) Maintenance of Highway Signs; qualifies under this section.

STANDARD SIGNS

Aluminum for standard signs shall be a minimum of 2 mm flat sheet tension leveled, sign grade aluminum and shall conform to the requirements of ASTM B209M, "Specification for Aluminum and Aluminum-Alloy Sheet and Plate", Alloys 6061-T6 or 5052-H38.

NON-STANDARD SIGN

Extruded Aluminum panels for major signs, shall be Alcan Shape # 73247 with anodize treatment and shall conform to ASTM B221M "Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes", Alloys 6061-T6 or 6063-T5.

- Plywood – Sanded one side $\frac{3}{4}$ " 100/100 or 120/120 Hi-Density

BACKING

<u>PROVEN PRODUCTS</u>	<u>TRIAL PRODUCTS</u>	<u>POTENTIAL PRODUCTS</u>
	FiberLoc Sign System Expiry Date: December 2012 REPORT	

REFLECTIVE SHEETING

REGULATORY/WARNING/INFORMATION SIGNS

Reflective sheeting shall meet or exceed minimum requirements as specified in ASTM-D4956 Performance Requirements Type III or Type IV High Intensity Retro-reflective Sheeting.

PROPRIETARY

<i>PROVEN PRODUCTS</i>	<i>TRIAL PRODUCTS</i>	<i>POTENTIAL PRODUCTS</i>
3M (High Intensity Grade) (3800)		NIKKALITE Ultralite Grade II (Expiry Date: April 2012)
3M High Intensity Prismatic 3M 3930sheeting REPORT		
6000 HP (Avery Dennison) REPORT		
Avery Dennison T7500 Series		

TEMPORARY ORANGE WORK ZONE/CONSTRUCTION SIGNS

The orange portion of all signs and barricades shall be fully reflectorized using High Brightness, Retroreflective unmetalized, Prismatic Sheeting Material which incorporates durable, transparent, fluorescent pigment and meets the brightness requirements as specified in ASTM D4956 Type VIII sheeting material.

<i>PROVEN PRODUCTS</i>	<i>TRIAL PRODUCTS</i>	<i>POTENTIAL PRODUCTS</i>
3M Durable Fluorescent (3924S)		
Avery Dennison Fluorescent Orange (w-7514)		Avery Dennison (Omni-Cube) Fluorescent Orange T-11514 (Expiry Date: Feb 2014)
3M Diamond Grade Cubed 4084 Series (DG ³)		

All other colours shall meet or exceed the minimum requirements as specified in ASTM-D4956 Performance Requirements Type III or Type IV High Intensity Retroreflective Sheeting.

SCHOOL ZONE AND SCHOOL CROSS WALK AHEAD SIGNS

Reflective sheeting shall meet or exceed minimum requirements as specified in ASTM-D4956 Performance Requirements Type IX or XI Unmetalized Cube Corner Microprismatic Retroreflective Element Material.

PROPRIETARY

<i>PROVEN PRODUCTS</i>	<i>TRIAL PRODUCTS</i>	<i>POTENTIAL PRODUCTS</i>
3M Diamond Grade Series 3983 (Fluorescent Yellow Green)		
3M Diamond Grade Cubed 4083 Series(DG³) Fluorescent Yellow-Green		Avery Dennison Fluorescent Yellow-Green Omni-Cube T- 11513 (Expiry Date: Feb 2014)

SPECIALIZED APPLICATIONS

**STOP, YIELD, WRONG WAY, DO NOT ENTER SIGNS
AND OVERHEAD SIGNS WITHOUT ILLUMINATION**

Reflective sheeting shall meet or exceed minimum requirements as specified in ASTM-D4956 Performance Requirements Type IX or XI Unmetalized Cube Corner Microprismatic Retroreflective Element Material.

<i>PROVEN PRODUCTS</i>	<i>TRIAL PRODUCTS</i>	<i>POTENTIAL PRODUCTS</i>
3M Diamond Grade (VIP) Series (3990)		
3M Diamond Grade Cubed 4000 Series (DG³)		Avery Dennison T-11500 Series (Expiry Date: Feb 2014)

WARNING SIGNS ([DESIGN BULLETIN #50/2007](#))

Reflective sheeting shall meet or exceed minimum requirements as specified in ASTM-D4956 Performance Requirements Type IX or XI Unmetalized Cube Corner Microprismatic Retroreflective Element Material.

<i>PROVEN PRODUCTS</i>	<i>TRIAL PRODUCTS</i>	<i>POTENTIAL PRODUCTS</i>
3M Vinyl Roll Up RS-33 Fluorescent Pink		
3M Diamond Grade Cubed 4081 Series (DG ³) Fluorescent Yellow	Solar Flashing Beacons (Expiry Date: Jan 2013)	
3M, Diamond Grade (VIP) (3981) Fluorescent Yellow		Avery Dennison T-11511 Fluorescent Yellow (Expiry Date: Feb 2014)

BASES

Any product that meets the requirements of Alberta Transportation Specification TEB 1.83 Breakaway Ground Mounted Bases Steel I-Beam Posts qualifies under this section.

<i><u>PROVEN PRODUCTS</u></i>	<i><u>TRIAL PRODUCTS</u></i>	<i><u>POTENTIAL PRODUCTS</u></i>

CLUSTER FRAMES

Any product that meets the requirements of Alberta Transportation Specification TEB 1.71A C-Cluster Frame qualifies under this section.

The Frames shall be painted with rust resistant aluminum paint or a metal primer and aluminum paint suitable to the Engineer.

SUPPORTS

BREAKAWAY STEEL

Any product that meets the requirements of Alberta Transportation Specification TEB 1.82 Breakaway Ground Mounted Bases Steel I-Beam Posts qualifies under this section.

PROPRIETARY

<i><u>PROVEN PRODUCTS</u></i>	<i><u>TRIAL PRODUCTS</u></i>	<i><u>POTENTIAL PRODUCTS</u></i>
Steel "W" or "S" shapes with breakaway slip base		
		Rib-Bak U-Channel Sign Post System (Expiry Date: February 2012)
		SLIP-SAFE Supreme Rib-Bak (Expiry Date: Sept 2014)
		LAP-SPLICE Supreme Rib-Bak U-Channel (Expiry Date: Sept 2014)
		SLIP-SAFE Supreme Rib-Bak U-Channel 360 (Expiry Date: Sept 2014)

BREAKAWAY

PROPRIETARY

<u><i>PROVEN PRODUCTS</i></u>	<u><i>TRIAL PRODUCTS</i></u>	<u><i>POTENTIAL PRODUCTS</i></u>

POST SUPPORT

PROPRIETARY

<u><i>PROVEN PRODUCTS</i></u>	<u><i>TRIAL PRODUCTS</i></u>	<u><i>POTENTIAL PRODUCTS</i></u>
Break Safe Support System		

WOOD POSTS

Wood posts shall be pine or spruce No. 2 or better, as per NLGA, CCA (Copper, Chromate, Arsenate) pressure treated in accordance with CSA 080. Material shall be free from wane.

<u><i>PROVEN PRODUCTS</i></u>	<u><i>TRIAL PRODUCTS</i></u>	<u><i>POTENTIAL PRODUCTS</i></u>
Wood 100 mm x 100 mm		
Wood 150 mm x 200 mm		
Wood 100 mm x 150 mm		

STEEL POSTS

<u><i>PROVEN PRODUCTS</i></u>	<u><i>TRIAL PRODUCTS</i></u>	<u><i>POTENTIAL PRODUCTS</i></u>
		Steel U Posts or Flanged Channel
		Steel Pipe (Schedule 40)
		Square Steel Tube
		Aluminum Type X

MOUNTING HARDWARE

All bolts and hardware shall be galvanized.