



## Type III Barricade with X-Tube Uprights & Angle Iron Feet – Material Specifications

### 1) Design

The Barricade Panel shall be a minimum of 8.200 inches wide, 0.835 inches tall, comprised of two flat surfaces to accommodate application of retro-reflective sheeting, supported by seven (7) internal I-beams, and made of high-impact polyolefins conforming to the following material specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 1505	0.95
Hardness (min.)	D 1525	60 D
Tensile Strength, PSI @ break	D 638	5,000
Elongation @ break, %	D 638	800
Flexural Stiffness	D 638	100,000
Low Temperature, Brittleness Point	D 746	- 76 degrees F

### 2) Vertical Uprights

The vertical uprights shall be 1.75 inches square, 5'0" or 5'4" in length depending upon if a light is to be attached or not, and comprised of four (4) 0.110" thick outside walls defining a square tube, supported by two (2) 0.055" thick internal reinforcing cross-beams extending corner to corner, conforming to the following material specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 792	1.45
Hardness (min.)	D 2240	80 Shore D
Tensile Strength, PSI @ yield	D 638	6,000
Elongation @ break, %	D 638	800
Flexural Modulus (min.)	D 790	400,000
Notched Izod Impact Strength (73°, 1/8")	D 746	23 ft-lbs/inch

Barricade uprights shall be constructed of a UV-stabilized, outdoor-grade rigid engineered polymer and color. The color shall be solid white throughout and stabilized to resist UV degradation.

### 3) Mounting Holes

Barricade uprights shall be pre-drilled to facilitate rapid assembly of complete Type III barricade units. The 5'0" inch version shall be drilled with a hole at the base to allow attachment to barricade feet with a quick release pin, and three (3) holes in the upper



section to allow attachment of three T3B panels; the 5'4" inch version shall have an additional hole at the top to mount a light.

4) Footings

The footings of the barricade assembly shall be 2" x 14-gauge angle iron steel 6-feet in length, with a welded 6" vertical sleeve into which the 1.75" upright fits.

5) Materials and Colors

T3B panels and vertical uprights shall be constructed of UV-stabilized polymers and colors. The color shall be solid throughout and stabilized to resist UV degradation. The footings shall be powder-coated white to resist rusting in the field.

6) Lengths

Barricade panels shall be available in lengths of 4, 6, 8, 10 and 12 feet.

7) Packaging

T3B panels shall be packaged in pallets of 225 pieces.

8) NCHRP 350 Acceptance

The complete barricade assembly shall be fully crash-tested and meet requirements for **Category 2** devices as specified in **NCHRP Report # 350**. All barricade products shall have the acceptance of the U.S. Department of Transportation, Federal Highway Administration. Certifications of acceptance to these standards must be supplied upon request.

9) MASH-16 Compliance

The complete barricade assembly shall be fully crash-tested by an A2LA-certified testing facility and meet requirements for Test Level 3 devices as specified in **Manual for Assessing Safety Hardware (MASH) 2016**. Test reports and certifications of compliance with these standards must be supplied by the manufacturer upon request.

10) Quality

The barricade panel shall be manufactured by an ISO 9001 certified firm in good standing; evidence of ISO compliance shall be presented as a pre-condition for acceptance for use.

11) Manufacturer

The device above is manufactured by Pexco LLC/ Davidson Traffic Control Products, Tacoma, WA USA, phone (253) 284-8000, facsimile (253) 284-8080, email [hwysales@pexco.com](mailto:hwysales@pexco.com)