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**LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
SPECIFICATIONS**

**ASSEMBLED BARRICADES AND LEGS**

**DESCRIPTION:**

This specification is for the purchase of assembled Type III barricades which includes panels and attached uprights. Also shall include the assembled barricade legs which consist of the base, riser and collapsible bracket.

**MATERIALS:**

**Panels:**

The panels shall be  $0.850 \pm 0.015$ " x  $8.250 \pm 0.050$ ". All other dimensions shall conform to the requirements on Figure 1. Each panel shall have two flat surfaces in order to properly apply the required sheeting with the core having seven internal I-beams.

The panels shall be fabricated from high-impact polyolefins. Panel lengths shall be  $8.00' \pm 0.25"$ .

The material shall conform to the following requirements:

Requirement	ASTM Specification	Value
Specific Gravity, min.	D1505	0.950
Hardness, min.	D1525	60D
Tensile Strength, min., psi	D638	5,000
Elongation at Break., min, %	D638	800
Flexural Stiffness, min., psi	D638	100,000
Brittleness Point, min., °F	D746	-76

The panels shall be covered with orange/white Barricade Type III Reflective Sheeting that conforms to ASTM D4956 and is listed on the AML (Approved Materials List) for Reflective Sheeting Type III for Temporary Signs, Barricades &

Channelizing Devices. One side shall be striped for left and the other side for right. Both the substrate and color shall be stabilized to resist UV degradation.

**Posts:**

Perforated steel posts shall conform to the standard specifications for hot rolled carbon steel, structural quality, ASTM A570, Grade 50. Average minimum yield strength after cold-forming is 60,000 psi. The cross section of the post shall be square tube formed and carefully rolled to size and shall be welded by high frequency resistance welding and externally scarfed to agree with corner radii and dimensional tolerances. Steel posts shall be manufactured from hot-dipped galvanized steel conforming to ASTM A653, G90, Structural Quality, Grade 50, Class 1. The weld shall be hot zinc coated after the scarfing operation. The steel shall be coated with a chromate conversion coating and a clear organic polymer topcoat. Both the interior and the exterior of the posts shall be galvanized.

Size	Specified Thickness, in.	Thickness Tolerance, in.	Min. Weight (lb/ft)
1 3/4 in. x 1 3/4 in. x 5 ft. Upright. Used to attach Barricade Panels, Figure 1	0.083	± 0.008	1.50
2 in. x 2 in. x 5 ft. Base, Figure 2	0.083	± 0.008	1.74
2 in. x 2 in. x 1 ft. Base Stub, Figure 2	0.083	± 0.008	1.74

Holes shall be  $7/16 \pm 1/64$  inch in diameter on 1-inch centers on all four sides the length of the post. Holes shall be on the centerline of each side in true alignment and opposite each other directly and diagonally. Holes shall be spaced so that when telescoping the sections together, the holes will line-up on all four sides.

The length of each post shall have a permissible length tolerance of  $\pm 1/4$  inch. The thickness shall have a permissible tolerance of  $\pm 0.010$  inch.

The finished posts shall be straight and have a smooth, uniform finish. It shall be possible to telescope all consecutive sizes of square tubes freely and for not less than 10 feet of their length without the necessity of matching any particular face to any other face. All holes and ends shall be free from burrs and ends shall be cut square.

Tolerances on outside sizes shall be as follows:

Nominal Outside Dimensions (in.)	Outside Tolerances (in.)
1 3/4 x 1 3/4	± 0.008
2 x 2	± 0.008

Variation in wall thickness shall be  $\pm 0.008$  inch.

Convexity and concavity when measured in the center of the flat sides shall be within  $\pm 0.010$  inch, determined at the corner.

Squareness of the sides and twist shall conform to the following table.

Nominal Outside Dimensions (in.)	Squareness Tolerance (in.)	Twist Permissible in 3 feet (in.)
1 3/4 x 1 3/4	$\pm 0.010$	0.062
2 x 2	$\pm 0.012$	0.062

Variation in straightness shall be 1/16 inch in 3 feet.

Standard outside corner radius shall be  $5/32 \pm 1/64$  inch.

**Collapsible Assembly Bracket:**

Completed barricade legs should have a collapsible bracket to allow the finished barricade to fold from impact.

**General:**

The barricade panels and uprights shall be assembled prior to shipment and shipped as indicated below. The legs shall also be assembled prior to shipment and consist of the base, base stub and collapsible bracket and shipped as indicated.

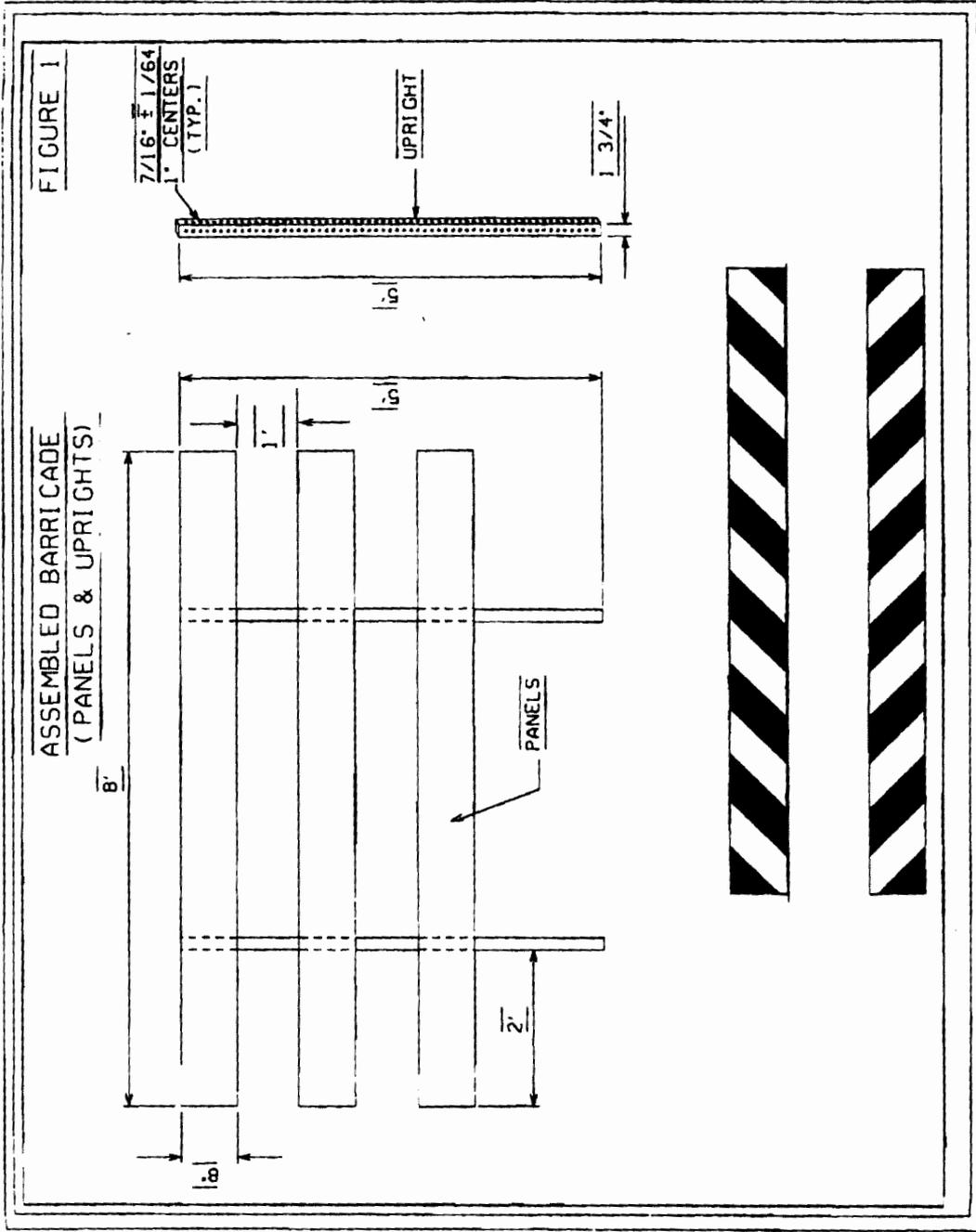
The complete barricade unit shall meet NCHRP 350.

**Packaging/Shipping:**

The Barricade Panels with uprights attached shall be shipped separately on pallets and banded. The legs, which include the base, rise, and collapsible bracket shall be assembled, placed on a pallet and banded. The pallet(s) shall be marked with the P.O. number and "LA DOTD".

10039 (01-18-0100) – Panels, plastic, .850" x 8.250" x 8'

10040 (01-18-0101) – Legs consist of base 2" x 2" x 5', Base Stub 2" x 2" x 1', and collapsible Assembly Brackets



ASSEMBLED BARRICADE  
(BASE, STUB, COLLAPSIBLE BRACKET & LEGS)

FIGURE 2

