

# Tex-740-I, Sampling Steel for Structures

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## **Section 1**

### **Overview**

Effective dates: August 1999–February 2008.

This method outlines the procedure for sampling structural steel plate over 12 mm (0.5 in.) in thickness, requiring Charpy V-notch testing.

#### **Units of Measurement**

The values given in parentheses (if provided) are not standard and may not be exact mathematical conversions. Use each system of units separately. Combining values from the two systems may result in nonconformance with the standard.

**Section 2**  
**Definitions**

Structural steel plate shall be defined as ASTM A 36, A 575, A 588, and A 709 material for main members, or as A36M50.

**Section 3**  
**Sampling Information**

Samples shall be selected by an authorized representative of TxDOT, and shall be taken only from material designated for TxDOT use.

## Section 4

### Procedures

Sample steel for structures as follows:

<b>Sampling Steel for Structures</b>	
<b>Step</b>	<b>Action</b>
1	Take samples at the fabrication shop from random heats selected from each producing mill for each ASTM designation, grade, and Charpy requirement for that material.
2	<ul style="list-style-type: none"><li>◆ Samples shall be the full thickness of material as rolled.</li><li>◆ Sample quantity shall consist of two 75 mm x 450 mm (3 in. x 18 in.) specimens and one 75 mm x 125 mm (3 in. x 5 in.) specimen for each sample.</li></ul>
3	The direction of rolling shall be along the length of samples, <i>not</i> across.

## **Section 5**

### **Tagging/Labeling, Documenting, and Shipping**

Follow the 'General shop, direction of rolling, and heat number Requirements' as detailed in "Tagging/Labeling, Documenting, and Shipping General Requirements." In addition:

- ◆ tag or mark each sample, in a non-destructive manner, with the name of the fabrication
- ◆ include the name of the producing mill, heat number(s), ASTM designation, size, thickness, and Charpy requirement, on [Form 202](#)
- ◆ wrap each individual sample carefully
- ◆ wrap the bundle to prevent damage during transit.

## **Section 6**

### **Documentation**

Each sample shall be accompanied by the *original* signed and notarized Form D-9-USA-1, "Material Statement," with a mill test report and certifications (reference 'Buy America Documentation Program' section of the CST/M&P '*Material Inspection Guide*').