**IOWA STATE INDUSTRIES**

 **SPECIFICATIONS FOR U-CHANNEL POSTS**

 **07/07/2020**

1. **2#, 2.5# and 3# Posts must meet the following requirements:**
2. **Steel posts are green baked on alkyd resin, gloss enamel or hot galvanized after fabrication. If galvanized, the coating is applied by the hot dip process at a rate of not less than 2.0 ounces per square foot *(610* g/m²) of actual surface as provided in ASTM A 123.**
3. **Nominal weight of the posts *is* 2.00, 2.5 or 3 pounds or more per foot (meter), before punching, although a variation of 3% under the specified weight (mass) is permitted.**
4. **Posts are U-shaped with flat flanges at the front or open end of the "U”. The faces of the flanges are flat and in the same plane.**
5. **The back of the posts are flat or ribbed or otherwise provide for suitable sign or delineator bearing to a width of at least 1 *1/8* inches (28 mm) parallel to the front flanges.**
6. **The front of the post has a width of 3 inches to 3 *1/2* inches (75 mm to 90 mm).**
7. **The overall depth of the section is 1 13/32 inches to 1 17/32 inches (35 mm to 40 mm).**
8. **The cross section of the posts is symmetrical about the center axis perpendicular to the front and back, and the thickness of metal is reasonably uniform.**
9. **Posts are punched on center line with holes *3/8* inch in diameter on 1 inch (25
mm) centers. Posts are punched the entire length of the post. The top hole is 1 inch (25
mm) from the top of the post. Spacing and alignment of holes is within 1/16 inch (2 mm) of
correct center line and distance. Punching is done so that no cracks radiate from the
holes.**
10. **1.12# Posts must meet the following requirements:**
11. **Steel posts are green baked on alkyd resin, gloss enamel or galvanized after fabrication. If galvanized, the coating is applied by the hot dip process at a rate of not less than 1.0 ounce per square foot (305 g/m²) of actual surface as provided in ASTM A 123.**
12. **The nominal weight of the posts is 1.12 pounds (1.67 kg) or more per foot (meter), before
punching, although a variation of 3% under the specified weight (mass) will be permitted.**
13. **Posts are U-shaped with flat flanges at the front or open end of the “U". The faces of the
flanges are flat and in the same plane.**
14. **The back of the posts are flat or ribbed or otherwise provide for suitable sign or delineator bearing to a width of at least *11/16* inch (18 mm) parallel to the front flanges...**
15. **The front of the post has a minimum width of 2 inches (50 mm).**
16. **The overall depth of the section is at a minimum of *7/8* inch (22 mm).**
17. **The cross section of the posts is symmetrical about the center axis perpendicular to the
front and back, and the thickness of metal is reasonably uniform. The Engineer may allow
minor deviations.**
18. **Posts are punched on center line with holes *3/8* inch in diameter on 1 inch (25
mm) centers. Posts are punched the entire length of the post. The top hole is 1 inch (25
mm) from the top of the post. Spacing and alignment of holes is within 1/16 inch (2 mm) of
correct center line and distance. Punching is done so that no cracks radiate from the
holes.**

 **All Posts are Subject to the final approval of the IDOT.**

 **Packaging: Nested and stacked in bundles as follows:**

**6’ 1.12# Posts – not to exceed 200 pieces.**

**Less than 8’ – not to exceed 100 pieces.**

**8’ or longer – not to exceed 50 pieces.**

 **Shipping: All shipments must be on flatbed trucks only. Loads
 must be tarped.**