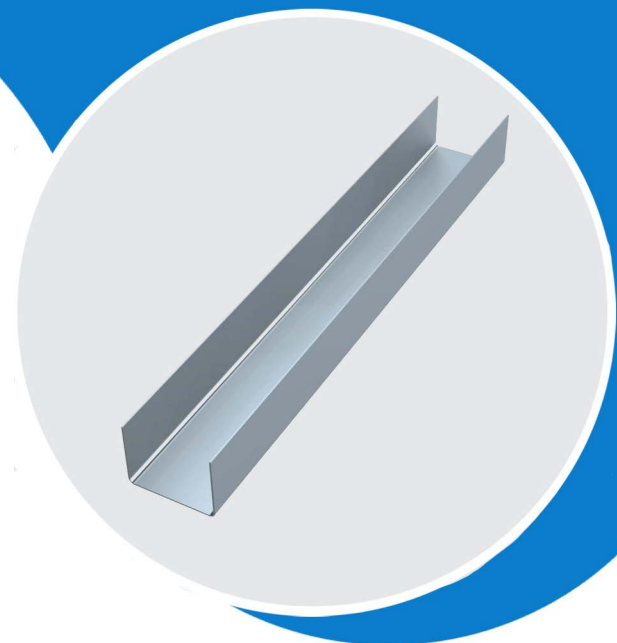


# U-Channels (U)



| MATERIAL                  |        |
|---------------------------|--------|
| Web (in)                  | 1½     |
| Flange (in)               | ½      |
| Yield Strength Fy (KSI)   | 33     |
| Tensile Strength Fu (KSI) | 45     |
| Design Thickness (in)     | 0.0566 |
| Minimum Thickness (mil)   | 54     |
| Gauge                     | 16     |
| Available Finish G60, G90 |        |

## PRODUCT ID

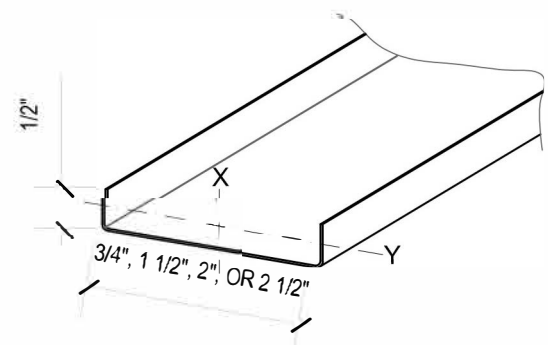
150 U050-54 (1½x½x16ga)

## CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16

| GROSS SECTION PROPERTIES                   |       |
|--------------------------------------------|-------|
| Weight of Member: (lb/ft)                  | 0.441 |
| Cross Sectional Area: A (in <sup>2</sup> ) | 0.130 |
| Moment of Inertia: Ix (in <sup>4</sup> )   | 0.039 |
| Radius of Gyration: Rx (in)                | 0.549 |
| Moment of Inertia: Iy (in <sup>4</sup> )   | 0.003 |
| Radius of Gyration: Ry (in)                | 0.146 |

| EFFECTIVE SECTION PROPERTIES                         |       |
|------------------------------------------------------|-------|
| Moment of Inertia-Deflection: Ixe (in <sup>4</sup> ) | 0.039 |
| Section Modulus: Sxe (in <sup>3</sup> )              | 0.052 |
| Allowable Bending Moment: Ma (in-k)                  | 1.230 |
| Allowable Shear Force: Va (lb)                       | 852   |
| (check web crippling)                                |       |



See Hermes/Hephaistos Technical Manual  
for complete design data