

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 1-1/2 X 1-1/2 UTILITY ANGLE

**MARINO\WARE PART #** 112CJ20

## PROPERTIES:

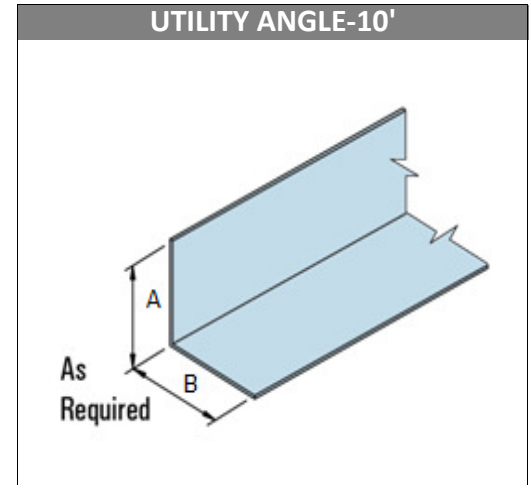
|                  |               |                           |        |
|------------------|---------------|---------------------------|--------|
| Leg A (in)       | 1-1/2         | Yield Strength Fy (KSI)   | 33     |
| Leg B (in)       | 1-1/2         | Tensile Strength Fu (KSI) | 45     |
| Mils             | 33            | Design Thickness (in)     | 0.0346 |
| Available Finish | G40, G60, G90 | Minimum Thickness (in)    | 0.0329 |
|                  |               | Gauge                     | 20 STR |

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

|  |        |
|--|--------|
| Cross Sectional Area: <b>A</b> (in <sup>2</sup> )                | 0.1012 |
| Weight of Member: <b>(lb/ft)</b>                                 | 0.3441 |
| Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )       | 0.0376 |
| Section Modulus: <b>S<sub>x-t</sub></b> (in <sup>3</sup> )       | 0.0354 |
| Section Modulus: <b>S<sub>x-b</sub></b> (in <sup>3</sup> )       | 0.0354 |
| Gross Section Modulus: <b>S<sub>y-l</sub></b> (in <sup>3</sup> ) | 0.0176 |
| Gross Section Modulus: <b>S<sub>y-r</sub></b> (in <sup>3</sup> ) | 0.0170 |
| Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> ) | 0.0090 |

09.22.16 Non Structural Metal Framing  
05.40.00 Cold-Formed Metal Framing



## CODES & STANDARDS

- AISI S100, IBC 20105, 2018, 2021 compliant
- ASTM C955 & AISI S240 (33 mil - 118 mil)
- ASTM C645 & AISI S220 (18 mil - 33 mil)
- Galvanized steel sheet meets ASTM A1003 or A653

## GREEN INFO

- LEED credits available
- Contact Technical Services for more information.