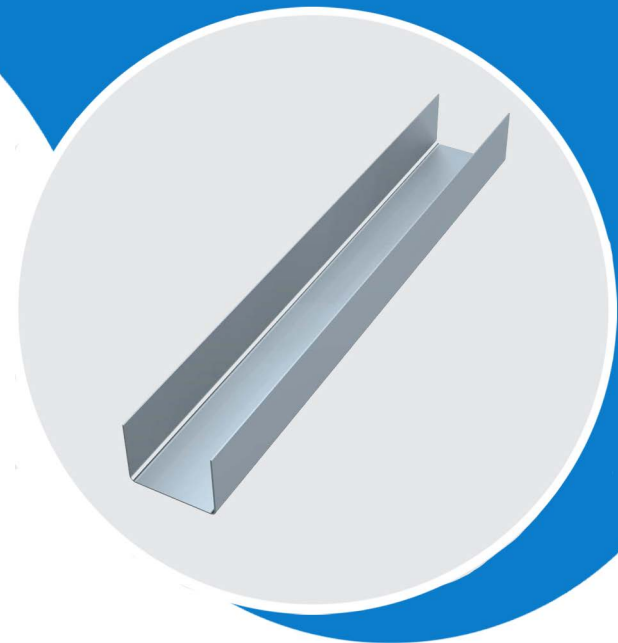


U-Channels (U)

MATERIAL	
Web (in)	2½
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	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.633
Cross Sectional Area: A (in²)	0.186
Moment of Inertia: Ix (in⁴)	0.140
Radius of Gyration: Rx (in)	0.868
Moment of Inertia: Iy (in⁴)	0.003
Radius of Gyration: Ry (in)	0.130

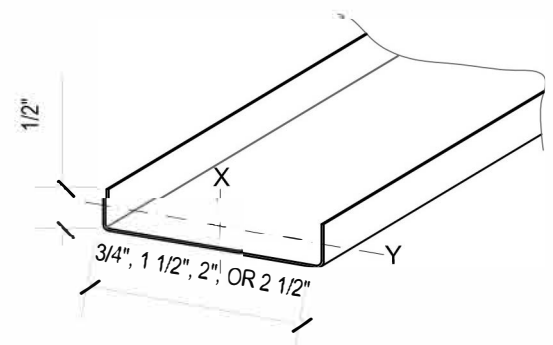
EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.140
Section Modulus: Sxe (in³)	0.112
Allowable Bending Moment: Ma (in-k)	2.648
Allowable Shear Force: Va (lb)	1553
(check web crippling)	



PRODUCT ID
250 U050-54 (2½x½x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data