U-Channel (CRC)

**Product Submittal Sheet**

**Technical Services:** 888-437-3244  
**Engineering Services:** 877-832-3206  
**Sales:** 800-543-7140  
clarkdietrich.com

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**Product Category:**

- 1-1/2" U-Channel / CRC - 16ga

**Product Name:**

- 150U50-54 (50ksi) - Unpunched

**Finish:**

- G40EQ, G40, CP60 or G90

**Color Coding:**

- Green

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**Geometric Properties**

- **Web depth:** 1.500 in
- **Leg width:** 0.500 in
- **Design thickness:** 0.0566 in
- **Min. steel thickness:** 0.0538 in
- **Yield stress:** Fy 50 ksi, *Fy with Cold-Work, Fya 55.3 ksi
- **Ultimate, Fu:** 65 ksi

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**Gross Section Properties of Full Section, Strong Axis**

- **Cross sectional area (A):** 0.130 in(^2)
- **Member weight per foot of length:** 0.441 lb/ft
- **Moment of inertia (Ix):** 0.039 in(^4)
- **Radius of gyration (Rx):** 0.549 in
- **Gross moment of inertia (Iy):** 0.003 in(^4)
- **Gross radius of gyration (Ry):** 0.146 in

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**Effective Section Properties, Strong Axis**

- **Moment of inertia for deflection (Ix):** 0.039 in(^4)
- **Section modulus (Sx):** 0.052 in(^3)
- **Allowable bending moment (Ma):** 1.821 in-k
- **Allowable shear force (Va):** 1292 lb

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**Product Data & Ordering Information:**

- **Length:** 16'-0" long pieces (Also available in 10' and 20' lengths)
- **Packaging:** 10 pieces per bundle - 240 pieces per pallet
- **Packaging weight:** 71 lbs/bundle

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**ASTM & Code Standards:**

- **AISI North American Specification [NASPEC] S100-12**
- **Effective properties incorporate the strength increase from the cold work of forming**
- **Structural framing is produced to meet or exceed ASTM C955**
- **Galvanized sheet steel meets or exceeds requirements of ASTM A1003**
- **For installation & storage information refer to ASTM C1007 & C754**
- **For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED**

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**Sustainability Credits:**

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**LEED v4 MR Credit** -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

**LEED 2009 Credit MR 2 & MR 4** -- ClarkDietrich’s steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)