

## 4" 25ga ClarkDietrich Shaftwall System

### ClarkDietrich CT Cavity Shaftwall System

ClarkDietrich CT Cavity Shaftwall Studs are high-performance members engineered to maintain shaftwall integrity. CT Studs are designed for use with 1" thick gypsum 24" wide liner panels. Gypsum liner panels are inserted into the "T" portion of the stud and are friction fit. The system is finished with fire rated gypsum board to complete and achieve the designated fire rating.

ClarkDietrich J-Tabbed Track is used at the floor and ceiling in shaftwall assemblies. CT studs and gypsum shaftliner panels are friction fit between the top and bottom J-Tabbed Track. J-Tabbed Tracks have unequal legs. The longer leg (available in 2-1/4" and 3") is installed on the shaft side providing a backstop for easy installation of the liner panel. Three-inch leg track is typically used as jamb struts around closure details, including duct and door openings, abutments and intersections.

#### Product Data & Ordering Information:

| Member                            | Minimum Thickness     | Design Thickness |
|-----------------------------------|-----------------------|------------------|
| CT Stud & J-Tabbed Track/J-Runner | 25ga, 22mils, 0.0219" | 0.0231"          |

All material is produced with a coating of: G40EQ (G40/G60 available).

#### CT Stud Structural Properties:

| Member                    | Product code | Weight (lb/ft) | Area (in <sup>2</sup> ) | Ix (in <sup>4</sup> ) | Sx (in <sup>3</sup> ) | Steel Fy (ksi) | Pcs/Skid |
|---------------------------|--------------|----------------|-------------------------|-----------------------|-----------------------|----------------|----------|
| 4" CT Stud (25ga, 22mils) | CTN4         | 0.622          | 0.199                   | 0.480                 | 0.209                 | 33             | 160      |

#### ASTM & Code Standards:

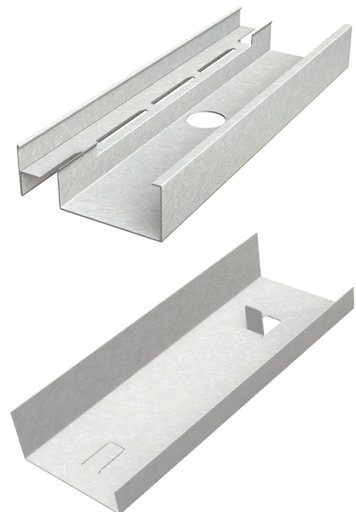
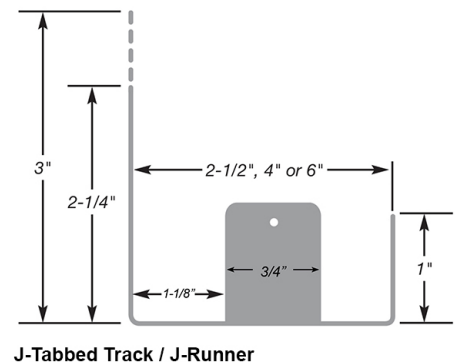
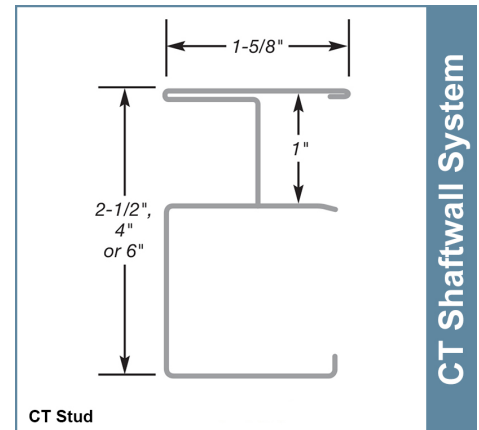
- Shaftwall products are produced to meet or exceed ASTM C645 and A1003
- UL Design No. U417, U428, U429, U497, U498, V455 and V473
- PEI Assembly Evaluation Report AER-12061
- SDS & Product Certification Information is available at [www.clarkdietrich.com/SupportDocs](http://www.clarkdietrich.com/SupportDocs)

#### Limiting Heights - Design Pressure:

| Deflection | 5 psf  | 7.5 psf  | 10 psf   | 15 psf  |
|------------|--------|----------|----------|---------|
| L/120      | 21'-8" | 16'-6" * | 12'-5" * | 8'-3" * |
| L/240      | 16'-0" | 13'-7"   | 12'-1"   | 8'-3" * |
| L/360      | 13'-7" | 11'-6"   | 10'-4"   | 8'-3" * |

See heights & installation notes in PEI AER-12061 report or on [www.clarkdietrich.com/shaftwall](http://www.clarkdietrich.com/shaftwall).

#### 09.22.16 (Non-Structural Metal Framing)



#### Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://www.clarkdietrich.com/LEED)

**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](mailto:info@clarkdietrich.com) / 888-437-3244)

#### Project Information

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#### Contractor Information

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#### Architect Information

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