DIVISION: 09 00 00 – FINISHES
Section: 09 22 00 – Supports for Plaster and Gypsum Board
Section: 09 22 16 – Non-Structural Metal Framing

REPORT HOLDER:
ClarkDietrich Building Systems, LLC
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West Chester, OH 45069
(888) 437-3244
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REPORT SUBJECT:
ProSTUD® Cold-Formed Steel Studs
ProTRAK® Cold-Formed Steel Tracks

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:
- 2018 International Building Code® (IBC)
- 2018 International Residential Code® (IRC)
- 2017 Florida Building Code - Building (FBC-B)
  (see Section 9)
- 2017 Florida Building Code - Residential (FBC-R)
  (see Section 9)
- 2016 California Building Code (CBC)
  (see Section 9)
- 2016 California Residential Code (CRC)
  (see Section 9)

NOTE: This report references 2018 IBC and IRC Code sections with [FBC and CBC] Code sections shown in brackets where they differ.

1.2 ProSTUD and ProTRAK have been evaluated for the following properties:
- Structural
- Acoustical
- Fire Resistance

1.3 ProSTUD and ProTRAK have been evaluated for use as interior nonload-bearing (nonstructural), gypsum board sheathed walls and ceilings in compliance with Sections 2210.1 and 2508 of the IBC, FBC-B, and CBC, and Sections R603 and R702.3 of the IRC, FBC-R, and CRC.

2.0 STATEMENT OF COMPLIANCE

ProSTUD and ProTRAK comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0

3.0 DESCRIPTION

3.1 General – ProSTUD steel framing members are “C” shaped members with three evenly spaced grooves in each flange. ProSTUD members have offsets in the web, and diamond embosses on the center of the web of 2-1/2” and deeper members. The flanges of the ProSTUD members may be formed with or without knurling. ProTRAK steel framing members are “U” shaped members without a flange stiffener. ProTRAK members may be formed with or without two evenly spaced grooves in each flange and the flanges may be formed with or without a hem. ProTRAK members may be formed with or without a web offset or the diamond emboss. The flanges of ProSTUD and ProTRAK members may be formed with or without knurling. See Figures 1-3. The ProSTUD framing system products that are recognized in this report are limited to the products whose designations are found in Table 2.

3.2 ProSTUD and ProTRAK framing members (studs and tracks) are fabricated from steel coil conforming to the mechanical and chemical properties of ASTM A1003. Steel grades for each ProSTUD and ProTRAK framing member designations and specifications are recognized. See Table 2. The ProSTUD and ProTRAK members have a protective coating which conforms to AISI S220 [ASTM C645 for FBC and CBC] and have a protective coating conforming to Specification A653/A653M–G40 minimum or have a protective coating which provides an equivalent corrosion resistance to a G40 coating. ProSTUD and ProTRAK members’ equivalent corrosion resistance coatings are designated G40EQ or G40EQ DiamondPlus™.
3.3 ProSTUD is available in steel design thicknesses of 0.0158", 0.0190", 0.0200", 0.0312", and 0.0346". The framing members are available in depths of 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2" and 6". The 18-mil ProSTUD is not recognized for 3-1/2" and 5-1/2" depths. See Figure 1 for stud profiles and Table 2 for recognized product designations.

3.4 ProTRAK thicknesses correspond to the stud thicknesses. See Figure 3 for track profiles and Table 2 for recognized product designations.

3.5 ProSTUD is pre-punched with knockouts spaced every 48 inches throughout the stud length and shall not be located less than 10 inches from the end of the member to the near edge of the web knockout. Punch-out hole dimensions are as indicated in Figure 4 for each stud depth.

3.6 Fasteners for attachment of gypsum wall board to framing shall be a minimum #6 Type S drywall screws complying with SAE J78 and ASTM C1002. Fasteners are spaced a maximum of 16 inches on center for 16 in. or 12 in. stud spacing; and 12 inches on center for 24 in. stud spacing.

3.7 Gypsum wallboard for composite assemblies shall comply with ASTM C1396 and be 5/8" thick Type X gypsum, manufactured by American, CertainTeed, Georgia Pacific, Continental, National, PABCO, or United States Gypsum.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Reference the ClarkDietrich Building Systems ProSTUD Product Catalog (attached) for design capacities, where only the following pages are within the scope of this report:

4.1.1 ProSTUD and ProTRAK Section Properties on pages 6-10.

4.1.2 ProSTUD and ProTRAK Screw Connection Values on page 11.

4.1.3 ProSTUD Composite Limiting Height tables and instructions on pages 13-14. When composite limiting heights are used the interior nonload-bearing wall assemblies shall be limited to interior installations where the superimposed axial load is zero pounds.

4.1.4 ProSTUD Non-Composite Limiting Height tables on pages 15-16. Per AISI S220 [ASTM C645 for FBC and CBC], nonstructural wall studs manufactured from steel with a minimum measured thickness of 0.0179" (18 mil) may have a superimposed vertical load, exclusive of sheathing materials, not exceeding 100 lb/ft, or a superimposed vertical load not exceeding 200 lbs. per stud.

4.1.5 ProSTUD Sound Assemblies identified in the tables on pages 17-18 provide the Sound Transmission Class (STC) required for air-borne sound according to IBC Section 1206.2 [1207.2 for FBC and CBC] and IRC Section AK102 where STC ratings are not less than 50 and 45, respectively.

4.1.6 ProSTUD Fire Rated Assemblies identified in the tables on page 19. ProSTUD and ProTRAK framing meet requirements for use in fire-resistance rated assemblies in accordance with IBC, FBC and CBC Section 703.2 when used in accordance with UL Certification CIKV.R26512 and related UL Design Nos.

4.1.7 ProSTUD Allowable Ceiling Span tables on page 21.

4.2 For construction governed by the FBC High Velocity Hurricane Zone (HVHZ), the wall height is limited to the height at the L/240 deflection level.

4.3 Non-loadbearing (nonstructural) wall heights are determined by the lesser of the limiting conditions which include wall deflection, shear strength, web crippling strength, or flexural strength of the stud.

5.0 INSTALLATION

5.1 ProSTUD and ProTRAK must be installed in accordance with the manufacturer’s published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer’s instructions must be available on the jobsite during installation.

5.2 Framing shall be in accordance with the code requirements, AISI S220 [ASTM C645 for FBC and CBC] and ASTM C754.

5.3 Fire rated assemblies shall be in accordance with the applicable UL Design No. from UL Certification CIKV.R26512.
5.4 Sound rated assemblies shall be in accordance with the wall assembly description given in the sound transmission test report correlating with the sound assembly from pages 21 in the attached product catalog.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer’s published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 All designs and calculations shall be prepared by a licensed design professional according to the requirements in the jurisdiction where the project is located.

6.3 Jobsite manufacturing of studs or tracks is outside the scope of this report.

6.4 The minimum base steel thickness of the section delivered to the jobsite must be a minimum of 95% of the design thickness.

6.5 The ProSTUD and ProTRAK Framing identified in this report is manufactured in accordance with the manufacturer’s approved quality control system with inspections by Intertek.

7.0 SUPPORTING EVIDENCE

7.1 Manufacturer’s drawings and installation instructions.

7.2 Reports of testing and engineering analysis demonstrating compliance with AISI S220-15 [AISI S220-11], North American Standard for Cold-formed Steel Framing – Nonstructural Members.

7.3 Reports of evaluation and engineering analysis demonstrating compliance with AISI S100-16 [AISI S100-12 for FBC and CBC], North American Specification for the Design of Cold-Formed Steel Structural Members.

7.4 Reports of testing and engineering analysis demonstrating compliance with ICC-ES AC46, Acceptance Criteria for Cold-Formed Steel Framing Members, revised April 2015.

7.5 Reports of testing and evaluation of G40EQ and G40EQ DiamondPlus coating to verify equivalent corrosion resistance to G40 coated specimens per the requirements of AISI 220-15 [ASTM C645-13 for FBC and CBC].

7.6 Reports of acoustical testing in accordance with ASTM E90-04, Testing Standard for Air-Borne Sound Transmission Loss of Building Partitions and Elements.

7.7 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

8.0 IDENTIFICATION

ProSTUD and ProTRAK produced in accordance with this report shall be identified with labeling at a maximum spacing of 96 inches that includes the following information:

8.1 The manufacturers name, logo, or initials;

8.2 The ProSTUD and ProTRAK framing designation;

8.3 Minimum base steel thickness (uncoated) in decimals or mils;

8.4 Yield strength;

8.5 Galvanization coating designation G40, G40EQ or G40EQ DiamondPlus.

8.6 The Intertek Code Compliance Research Report identification and number, “Intertek CCRR-0207”

8.7 ProSTUD and ProTRAK Framing to be used in fire-resistance rated assemblies shall be labeled in accordance with UL certification CIKV.R26512.
8.8 Bundles of like members shall be identified with the Intertek identification mark and Code Compliance Research Report number as shown:

9.0 ADDITIONAL CODES

9.1 FLORIDA BUILDING CODE

9.1.1 Scope of Evaluation: The ProSTUD and ProTRAK were evaluated for compliance with the 2017 Florida Building Code – Building and Florida Building Code – Residential.

9.1.2 Conclusion: The ProSTUD and ProTRAK, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2017 Florida Building Code – Building and Florida Building Code – Residential, including the High-Velocity Hurricane Zone provisions.

9.2 CALIFORNIA BUILDING CODE

9.2.1 Scope of Evaluation: The ProSTUD and ProTRAK were evaluated for compliance with the 2016 California Building Code and California Residential Code.

9.2.2 Conclusion: The ProSTUD and ProTRAK, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2016 California Building Code and California Residential Code.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.
### TABLE 1 - CODE REFERENCED STANDARDS

<table>
<thead>
<tr>
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<th>2018 IBC</th>
<th>2017 FBC</th>
<th>2016 CBC</th>
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<td>AISI S100-07</td>
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<td>ASTM C645-13</td>
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<tr>
<td></td>
<td></td>
<td>Section 10</td>
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### TABLE 2 - PROSTUD AND PROTRAK SPECIFICATIONS<sup>1</sup>

<table>
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<tr>
<th>ClarkDietrich Designation</th>
<th>Min. Base Steel Thickness</th>
<th>Min. Yield Strength (ksi)</th>
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<td>0.0150&quot; (15-mil)</td>
<td>NS 50</td>
</tr>
<tr>
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<td>NS 70</td>
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<tr>
<td>ProSTUD 20 LTD</td>
<td>0.0190&quot; (19-mil)</td>
<td>NS 65</td>
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<tr>
<td>ProSTUD 30</td>
<td>0.0296&quot; (30-mil)</td>
<td>NS 33</td>
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<tr>
<td>ProSTUD 33</td>
<td>0.0329&quot; (33-mil)</td>
<td>NS 33</td>
</tr>
<tr>
<td>ProTRAK 25</td>
<td>0.0150&quot; (15-mil)</td>
<td>NS 50</td>
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<tr>
<td>ProTRAK 20&lt;sup&gt;2&lt;/sup&gt;</td>
<td>0.0181&quot; (18-mil)</td>
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<tr>
<td>ProTRAK 33</td>
<td>0.0329&quot; (33-mil)</td>
<td>NS 33</td>
</tr>
</tbody>
</table>

<sup>1</sup> ProSTUD and ProTRAK are available in depths of 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2" and 6".

<sup>2</sup> 18-mil Pro Stud 20 and ProTRAK 20 are available in depths of 1-5/8", 2-1/2", 3-5/8", 4", and 6".
### FIGURE 1 – PROSTUD SECTION PROFILES

<table>
<thead>
<tr>
<th>Section</th>
<th>Minimum Thickness</th>
<th>Return Lip</th>
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<td>162S125</td>
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<td>0.250&quot;</td>
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<td>250S125</td>
<td>0.019&quot;</td>
<td>0.250&quot;</td>
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<tr>
<td>350S125</td>
<td>0.019&quot;</td>
<td>0.250&quot;</td>
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<td>362S125</td>
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<td>0.250&quot;</td>
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<td>400S125</td>
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<tr>
<td>600S125</td>
<td>0.019&quot;</td>
<td>0.250&quot;</td>
</tr>
</tbody>
</table>

### 1-5/8" & 2-1/2" Studs

- See Table for Return Lip Dimensions

### 3-1/2", 3-5/8", 4", 5-1/2" & 6" Studs

- See Table for Return Lip Dimensions
FIGURE 2 – WEB EMBOSSEMENT DETAIL
(No embossment on 1-5/8” studs)

FIGURE 3 – PROTRAK SECTION PROFILE
FIGURE 4 – PUNCH-OUT HOLE DIMENSIONS
The ProSTUD® Drywall Framing System can be called many things. Strong. Versatile. Fast. And without a doubt—revolutionary. But one of the biggest benefits to keep in mind is this: ProSTUD was developed, tested and approved by pros in the field who demanded nothing less than achieving absolute ease of use. Its performance has also been proven by the most extensive laboratory evaluations available. All of which means ProSTUD comes with complete confidence and no questions about code compliance. With the backing of online, mobile and data-rich BIM resources, there’s no better example of a broader vision at work.

ProSTUD, in fact, is just one example of how ClarkDietrich can reinforce your efforts to design and build more intelligently. Yes, we’re known as a manufacturer of extensively tested, code-compliant steel framing products, but we offer so much more. Our products perform as a system. We support a range of efforts for smarter installation and design. We provide the expertise of a versatile engineering services team. And we do it all on a nationwide scale.

We’ve put together an incredible array of resources to help you be successful on any project, regardless of size or complexity. Within this catalog you’ll discover the multiple advantages ProSTUD has to offer, as well as detailed information on the product lineup, limiting heights, sound and fire assemblies, and more.

Ultimately, your choice of ProSTUD doesn’t come down to the integrity of the product alone, or even its ease of use. You’re also looking to the strength of the company that stands behind it. Count on the expertise, services and full support of ClarkDietrich today—and far into the future.


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<td>Code Compliance and Certification</td>
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</table>
What is an Equivalent (EQ) Drywall Stud?

Gage equivalent drywall framing must meet the minimum performance requirements of conventional drywall framing as defined by the Steel Framing Industry Association (SFIA) and the Steel Stud Manufacturers Association (SSMA). The industry’s “EQ” product of choice, ProSTUD®, employs roll-forming and steel-making technology, exceeding the performance of conventional drywall framing for allowable moment and screw connection strength. When comparing drywall framing systems, it is important to keep in mind Life Safety, System Performance and Connections. The ProSTUD Drywall Framing System provides peace of mind for all three important functions by providing the right selection of products and product data for every application.

Life Safety
Life Safety is the primary concern and duty of all construction and design professionals. For interior drywall framing members, bending strength is the criteria most important to the strength of a wall or ceiling. AISI defines bending or flexural strength by Allowable Moment. The corresponding chart compares the bending strength of ProSTUD and conventional drywall studs.

System Performance
Given ProSTUD’s strength and versatility, it’s important to know the performance of the ProSTUD member under your project’s specific criteria. This catalog will provide guidance in a variety of assemblies and load criteria, based on current building codes. Additional data is available at clarkdietrich.com.

Connections
In addition to sufficient member strength, it’s important to know how connections will perform. Connections can be critical to the capacity and safety of an assembly, but they are also important for the attachment of calcium, sheathing, handrails, and other accessories to steel framing. The tables below compare the screw performance of ProSTUD to conventional drywall framing. This performance relationship to conventional studs can be applied to a variety of fasteners and connections.

Along with connection capacity, conventional framing members are required to meet performance criteria for screw spinout. ProSTUD was developed with screw performance in mind. High-strength steel, flange stiffening grooves, web embossments, and knurling features combine to provide the best performance per thickness, exceeding the requirements of ASTM C642.
Construction Advantages

- High-strength steel combined with low-profile flange stiffening grooves and double offset web planking increases strength and provides greater limiting heights.
- Diamond-embossed web creates stiffness, reducing flange fade and screw spinout during drywall installation.
- Strong, lightweight stud and track cuts and handles easier than conventional flat steel studs.
- Flange grooves provide sight line for drywall alignment and aid in positioning screws at drywall joints to maintain the 3/8" edge requirement.
- Web and leg enhancements in ProTRAK® provide straight and rigid legs, making it the best choice for framing walls, headers, sills, and bulkheads.

Design Advantages

- Designed to meet the additional strength requirements of today's building codes (IBC 2015, ASI1, NAASPEC 5100, ICC-ES AC86 (2015)).
- UL Classified and listed in over 50 designs, including U419, V438, and chase wall assemblies.
- Exceptional sound performance in over 50 tested sound assemblies.
- Can contribute LEED® points in LEED v4 or LEED 2009. EPD and HPD verifications also available.
- National availability.

ProSTUD®

- Web Widths: 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2" and 6"
- Flange: 1-1/4"
- Return Lip: varies by stud size
- Material Thicknesses:
  - ProSTUD 25 / 15mil (25ga EQ) 50ksi
  - ProSTUD 20 / 19mil (20ga EQ) 65ksi
  - ProSTUD 30MIL 33ksi
  - ProSTUD 33MIL 33ksi
- Available G40EQ, G40 (CP60 available as special order)
- G40EQ DiamondPlus™ available for 15mil & 19mil only. Contact your ClarkDietrich Sales Representative for market availability.

ProTRAK

- Web Widths: 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2" and 6"
- Legs: 1", 1-1/4", 1-1/2", 2", 1-1/2", and 3"
- Material Thicknesses:
  - ProTRAK 25 / 15mil (25ga EQ) 50ksi
  - ProTRAK 20 / 19mil (20ga EQ) 50ksi
  - ProTRAK 30MIL 33ksi
  - ProTRAK 33MIL 33ksi
- Available G40EQ, G40 (CP60 available as special order)
- G40EQ DiamondPlus™ available for 15mil & 19mil only. Contact your ClarkDietrich Sales Representative for market availability.

The technical content of this literature is affected by MIV and superseded all previous information.

clarkdietrich.com

Pub. No. C3-ProSTUD 4/17

*Except in 5-1/8"
### 4. PHYSICAL AND STRUCTURAL PROPERTIES

#### ProStud® 25 DRYWALL STUD

| Member     | Design thickness (in) | f_y (ksi) | G m'^2 | A_s (in'^2) | L (in) | I_y (in'^4) | J_y (in'^3) | M_y (in'^3-ksi) | V_y (ksi) | V_y' (ksi) | V_y'' (ksi) | I_x (in'^4) | J_x (in'^3) | X_c (in) | X_c' (in) | X_c'' (in) | I_z (in'^4) | J_z (in'^3) | Y_c (in) | Y_c' (in) | Y_c'' (in) | I_{z'} (in'^4) | J_{z'} (in'^3) | G'_{z'} (ksi) | G_{z'} (ksi) | G_{z'}' (ksi) | G_{z'}'' (ksi) | G_{z'}''' (ksi) | G'_{z'}''' (ksi) | G'''_{z'}''' (ksi) |
|------------|-----------------------|-----------|--------|-------------|--------|-------------|------------|---------------|-----------|------------|-------------|-------------|------------|--------|----------|----------|-------------|------------|-------------|----------|----------|----------|-------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 16P90D25-15 | 0.158                 | 50        | 0.086  | 0.29     | 0.089   | 0.022   | 0.021   | 0.059     | 0.044   | 1196       | 147      | 141          | 0.0706         | 0.0735 | 0.0765 | 0.0795 | 0.0821 | 0.0851 | 0.0879 | 0.0906 | 0.0934 | 0.0963 | 0.1002 | 0.1048 | 0.1096 | 0.1144 | 0.1193 | 0.1243 | 0.1293 | 0.1344 | 0.1395 | 0.1446 | 0.1499 | 0.1552 |
| 25P90D25-15 | 0.158                 | 50        | 0.086  | 0.29     | 0.089   | 0.022   | 0.021   | 0.059     | 0.044   | 1196       | 147      | 141          | 0.0706         | 0.0735 | 0.0765 | 0.0795 | 0.0821 | 0.0851 | 0.0879 | 0.0906 | 0.0934 | 0.0963 | 0.1002 | 0.1048 | 0.1096 | 0.1144 | 0.1193 | 0.1243 | 0.1293 | 0.1344 | 0.1395 | 0.1446 | 0.1499 | 0.1552 |
| 36P90D25-15 | 0.158                 | 50        | 0.086  | 0.29     | 0.089   | 0.022   | 0.021   | 0.059     | 0.044   | 1196       | 147      | 141          | 0.0706         | 0.0735 | 0.0765 | 0.0795 | 0.0821 | 0.0851 | 0.0879 | 0.0906 | 0.0934 | 0.0963 | 0.1002 | 0.1048 | 0.1096 | 0.1144 | 0.1193 | 0.1243 | 0.1293 | 0.1344 | 0.1395 | 0.1446 | 0.1499 | 0.1552 |
| 40P90D25-15 | 0.158                 | 50        | 0.086  | 0.29     | 0.089   | 0.022   | 0.021   | 0.059     | 0.044   | 1196       | 147      | 141          | 0.0706         | 0.0735 | 0.0765 | 0.0795 | 0.0821 | 0.0851 | 0.0879 | 0.0906 | 0.0934 | 0.0963 | 0.1002 | 0.1048 | 0.1096 | 0.1144 | 0.1193 | 0.1243 | 0.1293 | 0.1344 | 0.1395 | 0.1446 | 0.1499 | 0.1552 |
| 60P90D25-15 | 0.158                 | 50        | 0.086  | 0.29     | 0.089   | 0.022   | 0.021   | 0.059     | 0.044   | 1196       | 147      | 141          | 0.0706         | 0.0735 | 0.0765 | 0.0795 | 0.0821 | 0.0851 | 0.0879 | 0.0906 | 0.0934 | 0.0963 | 0.1002 | 0.1048 | 0.1096 | 0.1144 | 0.1193 | 0.1243 | 0.1293 | 0.1344 | 0.1395 | 0.1446 | 0.1499 | 0.1552 |

#### Notes:
- Calculated properties are based on AISI S201-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-13, North American Standard for Cold-Formed Steel Framing - Non-Structural Members.
- Effective properties incorporate the strength increase from the coldwork of forming as applicable per AISI/ASTM A795.
- Tabulated gross properties, including sectional properties, are based on full-swept cross sections of the stud, except for dimensions.
- Tabulated net properties, including torsional properties, are based on full-swept cross sections of the track.
- Effect of coldwork, use the effective moment of inertia.
- Allowable moment includes cold work of forming.
- Allowable moment is taken at the lowest value based on local or distortional buckling. Distortional buckling strength is based on k=0.5.
- Web depth for track sections is equal to stud nominal height plus two times the design thickness plus the bend radius. Values on nonstructural track sections are ignored.
- Web height to thickness ratio exceeds 200. Web stiffeners are required at bearing points.
- Web height to thickness ratio exceeds 260. Web stiffeners are required at bearing and intermediate points.

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Intertek
545 E. Algonquin Road • Arlington Heights • Illinois • 60005intertek.com/building

Version: 21 December 2017

SFT-CCRR-OP-40b
### Physical and Structural Properties

#### ProSTUD® 20 DRYWALL STUD

<table>
<thead>
<tr>
<th>Member</th>
<th>Design Location (c)</th>
<th>Effective Section Properties at Ty</th>
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<tr>
<td></td>
<td>(mm)</td>
<td>(kN/m²)</td>
</tr>
<tr>
<td>162PDS125-19</td>
<td>0.0200</td>
<td>65</td>
</tr>
<tr>
<td>250PDS125-19</td>
<td>0.0200</td>
<td>65</td>
</tr>
<tr>
<td>362PDS125-19</td>
<td>0.0200</td>
<td>65</td>
</tr>
<tr>
<td>400PDS125-19</td>
<td>0.0200</td>
<td>65</td>
</tr>
<tr>
<td>800PDS125-19</td>
<td>0.0200</td>
<td>65</td>
</tr>
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</table>

#### ProTRAK® 20 DRYWALL TRACK

<table>
<thead>
<tr>
<th>Member</th>
<th>Design Location (c)</th>
<th>Effective Section Properties at Ty</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mm)</td>
<td>(kN/m²)</td>
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<tr>
<td>162PDT125-19</td>
<td>0.0200</td>
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<tr>
<td>250PDT125-19</td>
<td>0.0200</td>
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<tr>
<td>362PDT125-19</td>
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<tr>
<td>400PDT125-19</td>
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</tr>
<tr>
<td>800PDT125-19</td>
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<td>50</td>
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</tbody>
</table>

### Notes:
- Calculated properties are based on AISI S100 12, North American Specification for Design of Cold-Formed Steel Structural Members and A500 15, North American Standard for Cold-Formed Steel Sections - Structural Members.
- Effective properties incorporate the strength increase from the cold-work of forming as applicable per AISI A7.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the stud, away from punchouts.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the track.
- For deflection calculations, use the effective section of gross properties.
- Allowable moment includes cold work of forming.
- Allowable moment is taken as the lowest value based on local or distortion strength. Distortion strength is based on k = 0.9.
- Wall depth for track sections is equal to the nominal depth plus the design thickness plus the bend radius. The number of structural track sections is given.
- Wall thickness to thickness ratio exceeds 3.6. Wall stiffness is required at bearing and intermediate points.

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intertek.com/building

Version: 21 December 2017
SFT-CCRR-OP-40b
### ProSTUD 3 5/16" DRYWALL STUD

<table>
<thead>
<tr>
<th>Member</th>
<th>Design thickness (in)</th>
<th>Area (in²)</th>
<th>Weight (lb)</th>
<th>Ix (in⁴)</th>
<th>Iy (in⁴)</th>
<th>J (in⁴)</th>
<th>Pe (kips)</th>
<th>pF (ksi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16SP012253</td>
<td>0.0435</td>
<td>33</td>
<td>0.152</td>
<td>0.070</td>
<td>0.679</td>
<td>0.027</td>
<td>0.456</td>
<td>0.014</td>
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</tbody>
</table>

### ProTRAK 3 5/16" DRYWALL TRACK

<table>
<thead>
<tr>
<th>Member</th>
<th>Design thickness (in)</th>
<th>Area (in²)</th>
<th>Weight (lb)</th>
<th>Ix (in⁴)</th>
<th>Iy (in⁴)</th>
<th>J (in⁴)</th>
<th>Pe (kips)</th>
<th>pF (ksi)</th>
</tr>
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<tbody>
<tr>
<td>16SP012253</td>
<td>0.0435</td>
<td>33</td>
<td>0.152</td>
<td>0.070</td>
<td>0.679</td>
<td>0.027</td>
<td>0.456</td>
<td>0.014</td>
</tr>
</tbody>
</table>

**Notes:**
- Calculated properties are based on AISI G-20. North American Specification for Design of Cold-Formed Steel Structural Members and AISI COR-9: North American Standard for Cold-Formed Steel Framing—Non-Structural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabled gross properties, including torsional properties, are based on full-unreduced cross-section of the stud, away from punchouts.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross-section of the track.
- For deflection calculations, the effective moment of inertia, the effective moment of inertia includes cold work of forming.
- Allowable moment includes cold work of forming.

---

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intertek.com/building
**8 CONNECTIONS**

<table>
<thead>
<tr>
<th>Member designation</th>
<th>Thickness (in)</th>
<th>Design thickness (%)</th>
<th>Yield (ksi)</th>
<th>Ultimate (ksi)</th>
<th>8 x Screw (0.115 in, 5/16 Head)</th>
<th>8 x Screw (0.318 in, 5/16 Head)</th>
<th>10 x Screw (0.190 in, 3/16 Head)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFC-15</td>
<td>15</td>
<td>0.0158</td>
<td>50</td>
<td>50</td>
<td>52 62 123 31 56 62 123 37 56 67 134 43</td>
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<td></td>
</tr>
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<td>64</td>
<td>66 125 235 61 73 179 235 83 210 111 271 75</td>
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<td>63</td>
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<td>55</td>
<td>56 151 122 243 61 164 122 240 72 177 132 335 94</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Allowable screw connection capacities are based on Section E-4 of the AFI S600-12 Specification.
- When connecting materials of different yield strengths or tensile strengths, use the lowest value. Tabulated values assume ten sheets of equal thickness are connected.
- Screw shear and tension capacities were developed using published screw manufacturer data and evaluation reports available at the time of publication.
- Screw capacities are based on Allowable Strength Design (ASD) and include a safety factor of 2.0.
- When multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least three times the nominal diameter (d).
- Screws are assumed to have a center-to-center spacing of at least three times the nominal diameter (d) of the screw.
- Tensile capacity is based on the lower of pullout capacity or shear capacity to ensure design strength.
- Screw capacities are governed by a conservative estimate of screw capacity, not by shear strength.
- For higher capacity values, especially for screw strength, use specific screws from specific manufacturer. See manufacturer’s data for specific allowable values and installation instructions.
WHICH ProSTUD® LIMITING HEIGHTS TABLE SHOULD I USE?

ProSTUD, like any interior drywall stud, may be used in a variety of applications including walls, ceilings, and soffits. While some conditions may require the expertise of a design professional, many assemblies can be selected based on tabulated data. Using the diagrams below, locate the required assembly and follow the instructions for selecting the proper ProSTUD member.

Composite Assemblies
Composite limiting height data can be applied to walls where gypsum board is installed on both flanges of the stud for the full height of the wall. ProSTUD composite data is based on the 2015 International Building Code, and was tested and analyzed in accordance with the most recent version of AC36 (2015). Composite limiting height tables for ProSTUD members are available starting on page 10 of this catalog. In addition, a comprehensive offering is available at clarkdietrich.com.

Non-Composite Assemblies
Non-composite conditions are common in small structures. When the gypsum board stops at the ceiling level, but the stud continues to the deck, it is a non-composite condition. While there may be advantages to consulting Technical Services or a Design Professional, many conditions can be covered by limiting heights tables shown in this catalog or at clarkdietrich.com. When in doubt, call our complimentary Technical Services Hotline at 888-437-3244.

Chase Walls or Furred Walls
Chase and furred walls are common, but the conditions vary greatly depending on the building requirements. While non-composite tables may be used conservatively, when in doubt, contact our Technical Services Hotline at 888-437-3244 for chase wall designs.

Ceilings
Interior ceilings are often supported by ProSTUD framing. The design criteria varies greatly based on the weight of the ceiling, bracing, and support points. You'll find a partial listing of ceiling span tables on page 18; visit clarkdietrich.com/ProSTUD for more comprehensive data.

clarkedietrich.com
### Composite - 5/8" Type X

<table>
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<tr>
<th>Width (in)</th>
<th>Stud member</th>
<th>Design thickness (in)</th>
<th>Yield strength (psi)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L/100</td>
<td>L/240</td>
<td>L/100</td>
</tr>
<tr>
<td>1 3/8</td>
<td>ProSTUD 25</td>
<td>0.0181</td>
<td>16</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>HOPD0125-15</td>
<td></td>
<td>16</td>
<td>125</td>
<td>125</td>
<td>125</td>
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<tr>
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<td></td>
<td>24</td>
<td>11 2&quot;</td>
<td>11 2&quot;</td>
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<td>135</td>
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<td>HOPD0125-15</td>
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<td>HOPD0125-15</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24</td>
<td>11 2&quot;</td>
<td>11 2&quot;</td>
</tr>
<tr>
<td>5 3/4</td>
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<td></td>
<td></td>
<td>24</td>
<td>11 2&quot;</td>
<td>11 2&quot;</td>
</tr>
</tbody>
</table>

**Notes:**
- Allowable composite limiting heights were determined according to ICC ESAC6-2015.
- Additional composite wall testing and analysis requirements of the SFP Code Compliance Certification Program were observed.
- In accordance with current building codes and AISI design standards, the 1/3" increment for strengths not used.
- The composite limiting heights provided in the tables are based on a single layer of 5/8" Type X Gypsum Board from the following manufacturers:
  - American, CertainTeed, Georgia-Pacific, Continental, National, NVRCO, and USG.

For more information, contact Clark Interlake, Inc.
### ProSTUD Composite Limiting Heights

#### S/8" Type X Gypsum Board

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<tr>
<th></th>
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<th></th>
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<td>50</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L/240</td>
<td>15</td>
<td>18%</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>L/360</td>
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<td>18%</td>
</tr>
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</tr>
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<td></td>
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<td>18%</td>
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<td>18%</td>
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<tr>
<td></td>
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<td></td>
<td>L/240</td>
<td>24</td>
<td>18%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L/360</td>
<td>24</td>
<td>18%</td>
</tr>
</tbody>
</table>

**Notes:**
- Allowable composite limiting heights were determined in accordance with ICC ESAC86-2016.
- Additional composite wall testing and analysis requirements of the SFA Code Compliance Certification Program were observed.
- In accordance with current building codes and AISC design standards, the 1/2" stress increase for strength was not used.
- The composite limiting heights provided in the table are based on a single layer of S/8" Type X Gypsum Board from the following manufacturers:
  - Armstrong, Ceiling, gypsum, ceiling, National, RAIC, and USG.
- The gypsum board must be applied full length in the vertical orientation to each stud flange and installed in accordance with ASTM C954 using minimum No. 6 Type S drywall screws spaced as listed below:
  - Screws spaced a minimum of 16 in. on center framing members spaced at 16 in. or 12 in. o.c.
  - Screws spaced a minimum of 12 in. on center framing members spaced at 12 in. or 12 in. o.c.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C954.
- Stud and bearing must be a minimum of 1/4 in.
- Adjacent to the height value indicates that the flexural stress controls the allowable wall height.
- Adjacent to the height value indicates that shearfracture controls the allowable wall height.

[clark@intertek.com](mailto:clark@intertek.com)

The technical content of this statement is effective 4/14/17 and supersede all previous information.

Pub. No. CD-RevSTU4010

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**Additional Information:**

Intertek provides testing and inspection services related to building materials, products, and systems. For more information, visit [intertek.com/building](http://intertek.com/building).
## Table: ProSTUD Non-Composite Limiting Heights

<table>
<thead>
<tr>
<th>Depth (in)</th>
<th>Stud number</th>
<th>Yield strength (ksi)</th>
<th>Lateral Load (psf)</th>
<th>2nd Floor</th>
<th>3rd Floor</th>
<th>4th Floor</th>
<th>5th Floor</th>
<th>6th Floor</th>
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<td>5.8 ft</td>
</tr>
<tr>
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<td>2SPD</td>
<td>0.0158</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0200</td>
<td>30</td>
<td>16</td>
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<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
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<td>0.0200</td>
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<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
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<td>3X</td>
<td>0.0312</td>
<td>30</td>
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<td>7.4 ft</td>
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<td>5.8 ft</td>
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<tr>
<td>1-5</td>
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<td>24</td>
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<td>5.8 ft</td>
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</tr>
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</tr>
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<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2X</td>
<td>0.0158</td>
<td>30</td>
<td>12</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0158</td>
<td>30</td>
<td>24</td>
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<td>6.1 ft</td>
<td>5.8 ft</td>
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<tr>
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<td>16</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<td>30</td>
<td>12</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
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<tr>
<td>1-5</td>
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<td>0.0158</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
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<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0200</td>
<td>30</td>
<td>16</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0200</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>3X</td>
<td>0.0312</td>
<td>30</td>
<td>12</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
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<td>0.0346</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
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<td>30</td>
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<td>7.4 ft</td>
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<td>5.8 ft</td>
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<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0158</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0200</td>
<td>30</td>
<td>16</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>2SPD</td>
<td>0.0200</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>3X</td>
<td>0.0312</td>
<td>30</td>
<td>12</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
<tr>
<td>1-5</td>
<td>3X</td>
<td>0.0346</td>
<td>30</td>
<td>24</td>
<td>9 ft</td>
<td>7.4 ft</td>
<td>6.1 ft</td>
<td>5.8 ft</td>
</tr>
</tbody>
</table>

**Notes:**
- Heights are based on AISI S100:12, North American Specification and AISI S200:15, North American Standard for Cold-Formed Steel Framing.
- Non-Composite limiting heights are applicable when the unbraced length is less than or equal to Lc.
- Heights are limited by moment, deflection, shear, and web crippling (assuming 5% strain).
- Web: Web height to thickness ratio exceeds 200. Web stiffeners are required at bearing points.
- *Height heights are not achieved by using web bearing stiffeners. See full ProSTUD non-composite chart at clarkdietrich.com*
<table>
<thead>
<tr>
<th>ProSTUD Non-Composite Limiting Heights</th>
<th>ClarkDietrich ProSTUD Non-Composite Limiting Heights – BRACED AT 48&quot; O.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Member</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td>ProSTUD 25</td>
<td>162/PD0135-15</td>
</tr>
<tr>
<td>ProSTUD 20</td>
<td>162/PD125-19</td>
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<tr>
<td>ProSTUD 10ML</td>
<td>162/PD139-30</td>
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<tr>
<td>ProSTUD 13ML</td>
<td>162/PD139-33</td>
</tr>
</tbody>
</table>

**Notes:**
- Heights are based on AISI S100-13, North American Specification and AISI S200-13, North American Standard for Cold-Formed Steel Framing: Nonstructural Members, using load projections.
- Above listed Non-Composite Limiting Heights are applicable when the braced length is less than or equal to Lc.
- Heights are limited by moment, deflection, drift, and web crippling (assuming "f" or inelastic bearing).
- Heights are based on thickness ratio of 2:1 and effective cover of 4.75 in (closed to 11.9 cm). See full ProSTUD non-composite shear charts at clarkdietrich.com.

Pub. No.: CD-RSTUD4/7

clarkdietrich.com

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### Sound Testing

#### ProSTUD® 3-5/8" Sound Assemblies

<table>
<thead>
<tr>
<th>Partition type</th>
<th>Assembly description</th>
<th>STC Rating / Test Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-5/8&quot; ProSTUD @ 24&quot; o.c.</td>
<td>1 layer 5/8&quot; Type X GWB on each side</td>
<td></td>
</tr>
<tr>
<td></td>
<td>43</td>
<td>TL13-190</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>TL13-189</td>
</tr>
<tr>
<td></td>
<td>49</td>
<td>TL13-187</td>
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<td></td>
<td>54</td>
<td>TL13-194</td>
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<td>TL13-192</td>
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<tr>
<td></td>
<td>62</td>
<td>TL13-191</td>
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<tr>
<td>3-1/2&quot; R-13 unulated insulation</td>
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<td>38</td>
<td>TL13-190</td>
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<tr>
<td></td>
<td>41</td>
<td>TL13-189</td>
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<td>49</td>
<td>TL13-201</td>
</tr>
<tr>
<td></td>
<td>54</td>
<td>TL13-200</td>
</tr>
</tbody>
</table>

#### Notes:
- Sound Assemblies are certified by Wireless Acoustics, Inc.
- NVTAP Accredited for ASTM E90 & E49, ISO Certified.
- See STC test reports at www.clarksinsich.com/ProSTUD for detailed requirements of construction of wall assembly.
- Values are the same for R-13 insulation.

*Centers techDataTech Services at 888-467-3244 for questions about ProSTUD sound assemblies.*

---

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intertek.com/building
### ProSTUD 1-5/8" STUD CHASE SOUND ASSEMBLIES

<table>
<thead>
<tr>
<th>Gypsum type</th>
<th>Side A</th>
<th>Side B</th>
<th>Insulation type</th>
<th>Stud spacing</th>
<th>STC Rating</th>
<th>Test report</th>
<th>Partition type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; Type X</td>
<td>1 layer</td>
<td>1 layer</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>50</td>
<td>TL09-580</td>
<td>1 Similar</td>
</tr>
<tr>
<td>5/8&quot; Type X</td>
<td>1 layer</td>
<td>2 layers</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>55</td>
<td>TL09-591</td>
<td>1 Similar</td>
</tr>
<tr>
<td>5/8&quot; Type X</td>
<td>2 layers</td>
<td>2 layers</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>61</td>
<td>TL09-602</td>
<td>1</td>
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### ProSTUD 2-1/2" STUD CHASE SOUND ASSEMBLIES

<table>
<thead>
<tr>
<th>Gypsum type</th>
<th>Side A</th>
<th>Side B</th>
<th>Insulation type</th>
<th>Stud spacing</th>
<th>STC Rating</th>
<th>Test report</th>
<th>Partition type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; Type X</td>
<td>1 layer</td>
<td>1 layer</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>50</td>
<td>TL09-583</td>
<td>2 Similar</td>
</tr>
<tr>
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<td>2 layers</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>63</td>
<td>TL09-594</td>
<td>2 Similar</td>
</tr>
<tr>
<td>5/8&quot; Type X</td>
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<td>2 layers</td>
<td>R-13' unfaced</td>
<td>24&quot;</td>
<td>65</td>
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### ProSTUD 3-5/8" STUD CHASE SOUND ASSEMBLIES

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<th>Gypsum type</th>
<th>Side A</th>
<th>Side B</th>
<th>Insulation type</th>
<th>Stud spacing</th>
<th>STC Rating</th>
<th>Test report</th>
<th>Partition type</th>
</tr>
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<tbody>
<tr>
<td>5/8&quot; Type X</td>
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<td>1 layer</td>
<td>R-13' unfaced</td>
<td>16&quot;</td>
<td>49</td>
<td>TL09-587</td>
<td>3</td>
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<tr>
<td>5/8&quot; Type X</td>
<td>1 layer</td>
<td>2 layers</td>
<td>R-13' unfaced</td>
<td>16&quot;</td>
<td>52</td>
<td>TL09-598</td>
<td>3 Similar</td>
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<td>5/8&quot; Type X</td>
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<td>16&quot;</td>
<td>56</td>
<td>TL09-599</td>
<td>3 Similar</td>
</tr>
</tbody>
</table>

**Notes:**
- Sound Assemblies are certified by Western Electric Acoustic Laboratories.
- NVAP certified for ASTM E90 & E413, ISO Certified.
- See STC test reports at www.claudekaisch.com/ProSTUD for detailed requirements of construction of wall assembly.
- Values are the same for R-11 insulation.
- Contact CLA for Technical Services at 866-437-2244 for questions about ProSTUD sound assemblies.
- The technical context of this literature is effective 11/17 and superseded all previous information.
# UL® FIRE TESTING

## ProSTUD® SINGLE STUD WALL—FIRE ASSEMBLIES

<table>
<thead>
<tr>
<th>UL design no.</th>
<th>Hourly rating</th>
<th>ProSTUD minimum thickness</th>
<th>ProSTUD maximum thickness</th>
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</thead>
<tbody>
<tr>
<td>U328</td>
<td>3</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-4/8&quot;</td>
</tr>
<tr>
<td>U407</td>
<td>10 or 1</td>
<td>ProSTUD 25 (10mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U408</td>
<td>2</td>
<td>ProSTUD 20 (10mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U411</td>
<td>2</td>
<td>ProSTUD 25 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U412</td>
<td>2</td>
<td>ProSTUD 20 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U419</td>
<td>1, 2, 3 or 4</td>
<td>ProSTUD 25 (15mil)</td>
<td>(See Table 1 for details)</td>
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<tr>
<td>U421</td>
<td>1</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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<tr>
<td>U437</td>
<td>4</td>
<td>ProSTUD 25 (15mil)</td>
<td>3-5/16&quot;</td>
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<tr>
<td>U439</td>
<td>1 or 4</td>
<td>ProSTUD 25 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U442</td>
<td>1</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U452</td>
<td>2</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U454</td>
<td>2</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U463</td>
<td>1 or 4</td>
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<td>3-5/16&quot;</td>
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<td>U465</td>
<td>1</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U478</td>
<td>1, 2 or 3</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U482</td>
<td>2</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U490</td>
<td>2</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U496</td>
<td>2</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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## ProSTUD CHASE OR DOUBLE STUD—FIRE ASSEMBLIES

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<thead>
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<th>UL design no.</th>
<th>Hourly rating</th>
<th>ProSTUD minimum thickness</th>
<th>ProSTUD maximum thickness</th>
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</thead>
<tbody>
<tr>
<td>U328</td>
<td>2</td>
<td>ProSTUD 26 (16mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U438</td>
<td>1, 2 or 3</td>
<td>ProSTUD 25 (15mil)</td>
<td>3-5/16&quot;</td>
</tr>
<tr>
<td>U444</td>
<td>2</td>
<td>ProSTUD 20 (15mil)</td>
<td>3-5/16&quot;</td>
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<tr>
<td>U446</td>
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<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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<td>U451</td>
<td>2</td>
<td>ProSTUD 25 (15mil)</td>
<td>3-5/16&quot;</td>
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<td>U454</td>
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<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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<tr>
<td>U501</td>
<td>1</td>
<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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<td>U458</td>
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<td>ProSTUD 30 (15mil)</td>
<td>3-5/16&quot;</td>
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<td>U496</td>
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<td>ProSTUD 30 (15mil)</td>
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<td>U502</td>
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<td>3-5/16&quot;</td>
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## ProSTUD TABLE 1: MINIMUM DEPTH OF ProSTUD REQUIRED

<table>
<thead>
<tr>
<th>Hourly rating</th>
<th>Min. stud depth (in.)</th>
<th>No. of layers and thickness of gypsum board</th>
<th>UL V449</th>
<th>UL V438</th>
<th>UL V477</th>
<th>UL V499</th>
<th>UL V498</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2-1/2&quot;</td>
<td>1 layer, 1/2&quot;</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1</td>
<td>3-4/8&quot;</td>
<td>1 layer, 3/8&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>4-5/16&quot;</td>
<td>1 layer, 3/16&quot;</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>3</td>
<td>5-5/16&quot;</td>
<td>1 layer, 3/16&quot;</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>4</td>
<td>6-5/8&quot;</td>
<td>1 layer, 5/8&quot;</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>5</td>
<td>7-1/8&quot;</td>
<td>3 layers, 1/8&quot;</td>
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<td>✔️</td>
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<tr>
<td>6</td>
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<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Notes:
- UL listing for detailed requirements of construction of tested assembly.
- *ProSTUD meets or exceeds the description of the generic stud/track listed in the UL assembly.
DEEP LEG DEFLECTION TRACK SYSTEMS

Head-of-wall vertical deep leg deflection track systems are required to allow the top of the wall stud to float within the top track leg. This condition allows for vertical line load movement of the primary structure without transferring axial loads to the interior drywall studs. A gap (determined by the Engineer of Record) is required between the top of the wall stud and the deflection track. ProSTUD® Drywall Framing studs can be used with the three Deep Leg Track Systems listed below:

ProTRAK® Deep Leg Track
ProTRAK deep leg track is available with leg lengths of 2", 2 1/2" and 3" long.

The wall studs are not fastened to the deflection track, and a row of lateral bracing is required within 12" of the deep leg track to prevent rotation and lateral movement of the studs. The deflection track system must be designed for the end reaction of the wall studs (point loads) and for the specific gap required for vertical deflection.

<table>
<thead>
<tr>
<th>ProTRAK®</th>
<th>Allowable Load (lbs)</th>
<th>Limiting wall height</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>96</td>
<td>107&quot;</td>
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<td>20</td>
<td>77</td>
<td>107&quot;</td>
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<tr>
<td>12ML</td>
<td>52</td>
<td>107&quot;</td>
</tr>
<tr>
<td>22ML</td>
<td>113</td>
<td>107&quot;</td>
</tr>
</tbody>
</table>

Notes:
- Limiting wall heights are based on studs spaced at 16" o.c. and an interior lateral load of 8psf.
- Stud members must be analyzed independently of the track system. Use www.ProSTUD.com to check limiting wall heights for ProSTUD members.
- Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be addressed separately.

Structural Deep Leg Track (18ga & 16ga)
Structural Deep Leg Track systems are installed as the ProTRAK deep leg track system but are designed to handle tall wall systems.

For structural deep leg track allowable loads, contact Technical Services at 888-437-3244 or visit clarkdietrich.com.

Slotted Deflection Track from ClarkDietrich
The slotted deflection track is attached to the wall studs through vertical slots using wafer head screws, creating a positive connection that allows for vertical movement and also eliminates the requirement for lateral bracing near the top of the wall stud.

MaxTrak® Allowable Lateral Loads and Wall Heights

<table>
<thead>
<tr>
<th>MaxTrak®</th>
<th>Allowable Load (lbs)</th>
<th>Limiting wall height</th>
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<tr>
<td>30/6ML</td>
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<tr>
<td>33/6ML</td>
<td>52</td>
<td>15&quot;</td>
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</table>

Notes:
- Allowable loads are based on studs spaced at 16" o.c. and a 1 psf lateral load.
- All minimum wafer head screws shall be used for stud track connection.
- The above table is applicable to ProSTUD members only. ProSTUD allowable loads must be checked.
- Allowable heights are based on 8psf and wall stud spacing at 16" o.c. with a span, gap of 1/8".

Complete information on Allowable Loads is available at clarkdietrich.com.
### ProSTUD® ALLOWABLE CEILING SPANS

<table>
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<tr>
<th>Section</th>
<th>40°F</th>
<th>Lateral Support of Compression Flange</th>
<th>Mid-span joint spacing (in.)</th>
<th>60°F</th>
<th>Lateral Support of Compression Flange</th>
<th>Mid-span joint spacing (in.)</th>
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<td>36</td>
<td>43</td>
</tr>
</tbody>
</table>

**Notes:**

- For unbraced sections, allowable moment is based on 2012 AISI Specification Section C.1.13 with weak axis and torsional unbraced length assumed to be the least span (completely unbraced). For mid-span braced sections, allowable moment based on 2012 AISI Specification Section C.1.12 with weak axis and torsional unbraced length assumed to be one half of the least span (bracing at mid-span).
- Web crippling calculation based on bearing length + 1 inch.
- Web crippling and shear capacity have not been reduced for punctures. If web punctures occur near support members, must be checked for reduced shear and web crippling in accordance with the 2012 AISI Specification.
- Values are for simple span conditions.
- Values different required at supports.

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Version: 21 December 2017 SFT-CCRR-OP-40b
ClarkDietrich LEED® INFORMATION AND REQUIREMENTS

ClarkDietrich Building Systems LEED Services
ClarkDietrich Building Systems, Inc. is an active member of the U.S. Green Building Council with LEED® Accredited Professionals on staff. ClarkDietrich is committed to supplying quality products and continually looking for new ways to develop greener building products and sustainable business practices.

In total, ClarkDietrich products can help your project qualify for up to:
- 8 LEED points under LEED v4 for BD+C
- 7 LEED points under LEED 2009 (LEED-NC Version 2.2 and 3.0)

Environmental Product Declarations (EPD)
ClarkDietrich Building Systems, the largest manufacturer of cold-formed steel framing in North America, announced July 2015 a milestone in its ongoing commitment to supplying high-quality, environmentally responsible products. ClarkDietrich received third-party verified ISO-compliant Environmental Product Declarations (EPDs) for its complete steel product portfolio, including its popular PreSTUD® and ProSTUD® with DiamondPlus™ Steel Framing Systems.

An EPD is a standardized, internationally recognized, comprehensive tool for providing information on a product’s environmental impact. Verified by a third party, information in the document is based on an ISO-compliant Life Cycle Assessment (LCA). This detailed analysis considers all processes in the life cycle of a product, including raw material extraction and refining, energy use and efficiency during manufacture, in addition to transportation methods.

Health Product Declarations (HPDs)
ClarkDietrich also has Health Product Declarations (HPDs) for its complete steel product portfolio. The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents.

ClarkDietrich plant locations:
- Riverside, CA
- Sacramento, CA
- Bens, CT
- Dale City, FL
- Mcdonough, GA
- Kupa, HI
- Rochelle, IL
- Baltimore, MD
- Warren, OH
- Vienna, OH
- Baytown, TX
- Dallas, TX

The technical contents of this literature are effective 04/14/17 and supersede all previous information.

ClarkDietrich
www.clarkdietrich.com

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20 PROSTUD® DRYWALL FRAMING SYSTEM

SUPPORT TOOLS

clarkdietrich.com
Visit to explore company information, design tools, technical documents, services and so much more. Featuring a unique product selector, our website is designed to deliver the details you want with a minimum number of clicks.

iProSTUD.com
Going mobile? With your smartphone in hand, you can perform a fast, easy search, view ProSTUD limiting heights and even email submittal documents.

SubmitalPro®
We built this online technical submittal generator tool to make your job easier. Use it to quickly view data on our products and create your final submittal documents. Access SubmitalPro at clarkdietrich.com or on your desktop or smartphone.

Architectural Specification Review
Over time, project specifications can become outdated. For suggestions on how to improve the performance of your specifications, contact us about a complimentary review at 330-372-5564, ext. 244.

Technical Services
Count on ClarkDietrich Technical Services to respond to a variety of needs, from general questions on industry standards to specifics on accurate sizing. Call us at 888-457-3244.

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