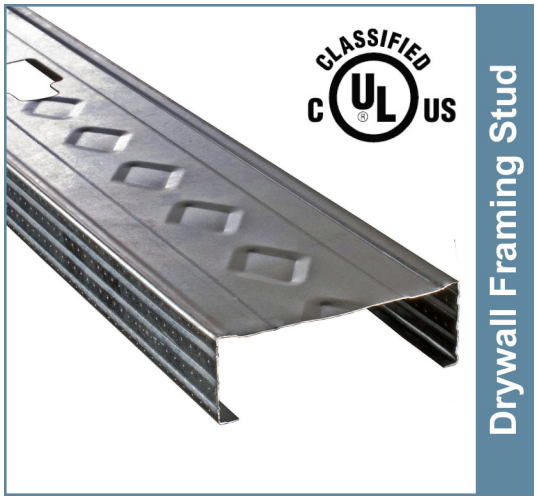
Product Submittal Sheet

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

Product category: ProSTUD® 30MIL Drywall Stud
Product name: **362PDS125-30 33ksi G40EQ - Punched**
3-5/8" ProSTUD 30MIL (30mil)
Coating: G40EQ
Color coding: Pink

09.22.16 (Non-Structural Metal Framing)



Geometric Properties

Web depth	3.625 in	Weight	0.680 lb/ft
Flange width	1.250 in	Punchout width	1.500 in
Stiffening lip	0.250 in	Punchout length	2.500 in
Design thickness	0.0312 in	Minimum thickness	0.0296 in
Yield stress, Fy	33 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.200 in^2
Moment of inertia (Ix)	0.398 in^4
Radius of gyration (Rx)	1.411 in
Gross moment of inertia (Iy)	0.038 in^4
Gross radius of gyration (Ry)	0.434 in

Effective Section Properties, Strong Axis

Effective area (Ae)	0.107 in^2
Moment of inertia for deflection (Ixe)	0.396 in^4
Section modulus (Sxe)	0.170 in^3
Allowable bending moment (Ma)	3,358 in-lbs
Allowable shear force in web (Unpunched) (Vag)	776 lb
Allowable shear force in web (Punched) (Vanet)	457 lb

Torsional Properties

St. Venant torsion constant (J x 1000)	0.0648 in^4
Warping constant (Cw)	0.096 in^6
Distance from shear center to neutral axis (Xo)	-0.820 in
Radii of gyration (Ro)	1.689 in
Torsional flexural constant (Beta)	0.764
Unbraced Length (Lu)	29.7 in

Code Approvals & Performance Standards

Calculated properties are based on:
AISI S100-16 (2020) w/S2-20 - North American Specification for the Design of CFS Structural Members
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2 of AISI S100-16 (2020) w/S2-20.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold work of forming.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

AISI S220-20 North American Standard for CFS Framing - Nonstructural Members
(Compliant to ASTM C645, but IBC replaced with AISI S220 in IBC 2015)
- Section A3 - Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
- Section A4 - Corrosion Protection (Referencing ASTM A653/A653M)
- Section A5 - Products - Thickness, shapes, tolerances, identification
- Section C - Installation - (Referencing ASTM C754)

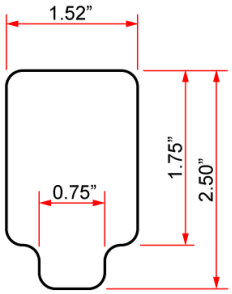
AISI S202-20 - Code of Standard Practice for Cold-Formed Steel Structural Framing
- Section F3 - Delivery, Handling and Storage of Materials

ClarkDietrich's nonstructural framing comply with:
- IBC-2021 - International Building Code
- Intertek CCRR-0207, LA RR #26019, NYC - OTCR
- SFIA Code Compliance Certification Program
- ASTM E72 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs

* Embossments in web are only placed on sections 2-1/2" and wider.

UL® Testing Standard

- UL® 263, ASTM E119
- Over 50 UL® design listings
- UL® file number R26512
- U.S. Patent No. 9,010,070



Non-Structural Punchout

East Coast / Central punch spacing:
Center of punchouts are
12" from lead end, then 48" o.c.

West Coast punch spacing:
Center of punchouts are
24" from lead end, then 24" o.c.

Center of tail end puchout not less than 12" from end of stud.

If custom punchout patterns are required, contact ClarkDietrich Sales or local plant for requests.

Sustainability Credits For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.
LEED v4.1 MR Credit: Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
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).

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3-5/8" ProSTUD 30MIL (30mil)

3-5/8" ProSTUD 30MIL (30mil) Drywall Stud - Head-of-Wall (HOW) Composite Limiting Heights

With 30mil 2-1/2" Leg MaxTRAK + (1 layer) 5/8" Type X Gypsum Board each side

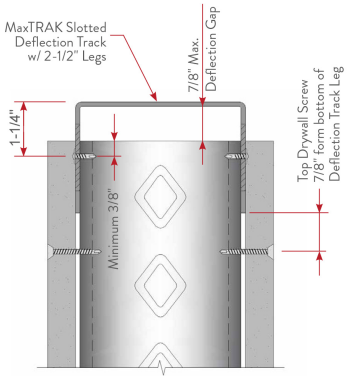
Spacing (inches)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	24'-0"	19'-8"	17'-2"	21'-0"	17'-2"	15'-0"	19'-1"	15'-7"	13'-8"
16	22'-4"	18'-4"	16'-1"	19'-6"	16'-1"	14'-0"	17'-9"	14'-7"	12'-8"
24	19'-11"	16'-2"	14'-2"	17'-5"	14'-2"	12'-3"	15'-10"	12'-10"	11'-0"

Head-of-Wall (HOW) Composite Table Notes:

Allowable HOW composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.

- The tests were modified from the standards with the tracks fastened to the test fixture such that the wall stiffness included the track deformation.
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was 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, PABCO, and USG.
- The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws spaced as listed below:
  - Sheathing screws spaced a maximum of 16 in on-center to framing members (including bottom track) when studs spaced at 16 in or 12 in on-center.
  - Sheathing screws spaced a maximum of 12 in on-center to framing members (including bottom track) when studs spaced at 24 in on-center.
- #8 wafer head screws shall be used for attaching the stud to 30mil 2-1/2" Leg MaxTRAK (as top track) adhering to details below:
  - Stud to track connection must be installed as depicted in figure with a maximum gap of 7/8" between the web of the MaxTRAK and end of stud.
  - Slots in the MaxTRAK Legs allows for a total vertical movement of 1-1/2" (+/- 3/4") with screw centered in slots.
  - Screws shall be placed in each flange of the stud at a minimum of 3/8" from the end of the stud.
  - To permit head of wall deflection, gypsum board must not be fastened directly to the MaxTRAK.
- No fasteners are required for attaching the stud to the bottom track except as detailed in ASTM C754.

f Adjacent to the height value indicates that flexural stress controls the allowable wall height.



3-5/8" ProSTUD 30MIL (30mil) Drywall Stud - Head-of-Wall (HOW) Composite Limiting Heights

With 30mil 2-1/2" Deep Leg Deflection Track + (1 layer) 5/8" Type X Gypsum Board each side

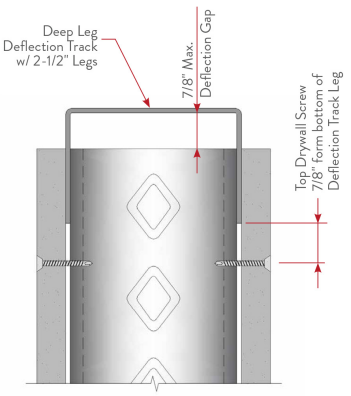
Spacing (inches)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	23'-11"	19'-8"	17'-2"	20'-10"	17'-2"	15'-0"	19'-0"	15'-7"	13'-8"
16	22'-3"	18'-4"	16'-1"	19'-6"	16'-1"	14'-0"	17'-8"	14'-7"	12'-8"
24	19'-11"	16'-2"	14'-2"	17'-5"	14'-2"	12'-3"	15'-10"	12'-10"	11'-0"

Head-of-Wall (HOW) Composite Table Notes:

Allowable HOW composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.

- The tests were modified from the standards with the tracks fastened to the test fixture such that the wall stiffness included the track deformation.
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was 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, PABCO, and USG.
- The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws spaced as listed below:
  - Sheathing screws spaced a maximum of 16 in on-center to framing members (including bottom track) when studs spaced at 16 in or 12 in on-center.
  - Sheathing screws spaced a maximum of 12 in on-center to framing members (including bottom track) when studs spaced at 24 in on-center.
- No fasteners are required for attaching the stud to the Deflection Track at the top except as detailed in ASTM C754:
  - Stud to track connection must be installed as depicted in figure with a maximum gap of 7/8" between the web of the Deflection Track and end of stud.
  - To permit head of wall deflection, gypsum board must not be fastened directly to the Deflection Track.
- No fasteners are required for attaching the stud to the bottom track except as detailed in ASTM C754.
- A Spazzer Spacing Bar (or bridging & bracing) shall be installed in the punchouts immediately adjacent to the top Deflection Track to hold studs in place.

f Adjacent to the height value indicates that flexural stress controls the allowable wall height.



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3-5/8" ProSTUD 30MIL (30mil) Drywall Stud - FULL COMPOSITE Limiting Heights (AC86-2019)

With 1-1/4" leg non-deflection track + (1 layer) 5/8" Type X Gypsum Board each side

Spacing	5 psf			7.5 psf			10 psf		
(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	25'-8"	20'-5"	17'-10"	22'-5"	17'-10"	15'-7"	20'-5"	16'-2"	14'-2"
16	23'-4"	18'-6"	16'-2"	20'-5"	16'-2"	14'-2"	18'-6"	14'-8"	12'-10"
24	20'-5"	16'-2"	14'-2"	17'-10"	14'-2"	12'-3"	16'-2"	12'-10"	11'-0"

FULL Composite Table Notes:

- Allowable composite limiting heights were tested in accordance with AISI S916 and ICC-ES AC86.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program were also observed.
- In accordance with current building codes and AISI design standards, the 1/3 Stress Increase for strength was 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, PABCO, and USG.
- The gypsum board must be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws spaced as listed below:
- Screws spaced a maximum of 16 in on-center to framing members (including top & bottom track] spaced at 16 in or 12 in on-center.
- Screws spaced a maximum of 12 in on-center to framing members (including top & bottom track] spaced at 24 in on-center.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.
- Stud end bearing must be a minimum of 1 inch.
- f: Adjacent to the height value indicates that flexural stress controls the allowable wall height.
- s: Adjacent to the height value indicates that shear/end reaction controls the allowable wall height.

3-5/8" ProSTUD 30MIL (30mil) Drywall Stud - NON-COMPOSITE Limiting Heights (FULLY BRACED)

Spacing	5 psf			7.5 psf			10 psf		
(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	21'-2"	17'-4"	15'-2"	17'-3"	15'-2"	13'-3"	15'-0"	13'-9"	12'-0"
16	18'-4"	15'-9"	13'-9"	15'-0"	13'-9"	12'-0"	12'-11"	12'-6"	10'-11"
24	15'-0"	13'-9"	12'-0"	12'-3"	12'-0"	10'-6"	10'-7"	10'-7"	9'-6"

Non-Composite (Fully Braced) Table Notes:

- Heights are based on AISI S100, North American Specification, and AISI S220, North American Standard for Cold-Formed Steel Framing - Nonstructural Members, using steel properties alone.
- Above listed Non-Composite Limiting Heights are applicable when the unbraced length is less than or equal to Lu.
- Heights are limited by moment, deflection, shear, and web crippling (assuming 1" end reaction bearing].

3-5/8" ProSTUD 30MIL (30mil) Drywall Stud - NON-COMPOSITE Limiting Heights (BRACED at 48" o.c.)

Spacing	5 psf			7.5 psf			10 psf		
(inches)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
12	20'-0"	17'-4"	15'-2"	16'-4"	15'-2"	13'-3"	14'-1"	13'-9"	12'-0"
16	17'-3"	15'-9"	13'-9"	14'-1"	13'-9"	12'-0"	12'-3"	12'-3"	10'-11"
24	14'-1"	13'-9"	12'-0"	11'-6"	11'-6"	10'-6"	10'-0"	10'-0"	9'-6"

Non-Composite (Braced at 48" o.c.) Table Notes:

- Heights are based on AISI S100, North American Specification, and AISI S220, North American Standard for Cold-Formed Steel Framing - Nonstructural Members, using steel properties alone.
- Above listed Non-Composite Limiting Heights are based on discreet stud bracing at 4 ft o.c.
- Heights are limited by moment, deflection, shear, and web crippling (assuming 1" end reaction bearing].

Project Information
Name:
Address:

Contractor Information
Name:
Contact:
Phone:
Fax:

Architect Information
Name:
Contact:
Phone:
Fax: