



ProSTUD® and ProTRAK® Technical Data

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DRYWALL FRAMING

WHAT IS AN EQ DRYWALL STUD?

Gauge equivalent drywall framing must meet the minimum performance requirements of conventional drywall framing as defined by the Steel Framing Industry Association (SFIA). 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.

ProSTUD® PROFILE INFORMATION

Web Widths: 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4", 5-1/2", & 6"

Flange: 1-1/4"

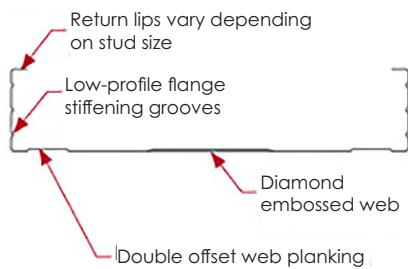
Lip: Varies by stud size



MATERIAL THICKNESSES:

- ProSTUD 25 / 15mil (25ga. EQ) 50ksi
- ProSTUD 20 / 18mil (20ga. EQ) 70ksi
- ProSTUD 30MIL 33ksi
- ProSTUD 33MIL 33ksi

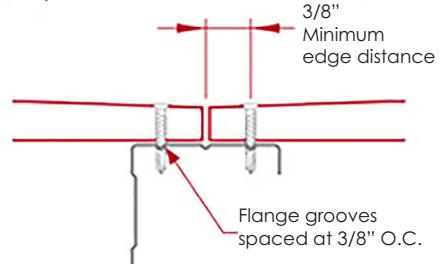
ProSTUD Profile



Shipping / Stacking



Drywall Joint



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," 2-1/2," and 3"



MATERIAL THICKNESSES:

- ProTRAK 25 / 15mil (25ga EQ) 50ksi
- ProTRAK 20 / 18mil (20ga EQ) 50ksi
- ProTRAK 30MIL 33ksi
- ProTRAK 33MIL 33ksi

LIFE SAFETY

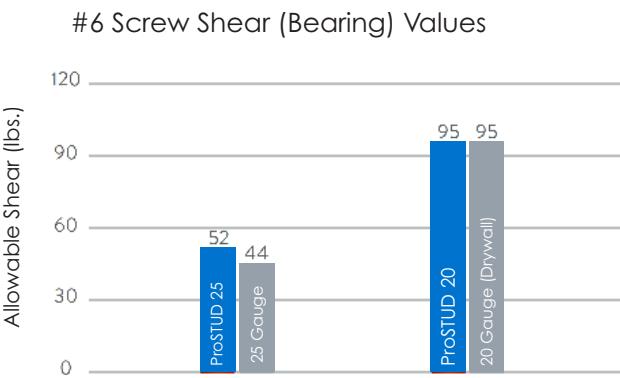
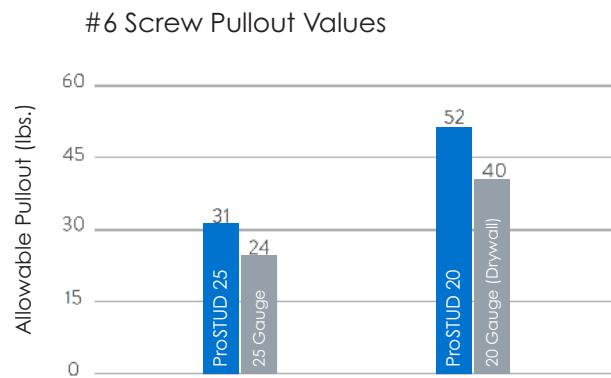
Life Safety is the primary concern and duty of all construction and design professionals. For interior drywall framing members, bending strength is the criteria most important to the strength of a wall or ceiling. AISI defines bending or flexural strength by Allowable Moment. The corresponding chart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

SYSTEM PERFORMANCE

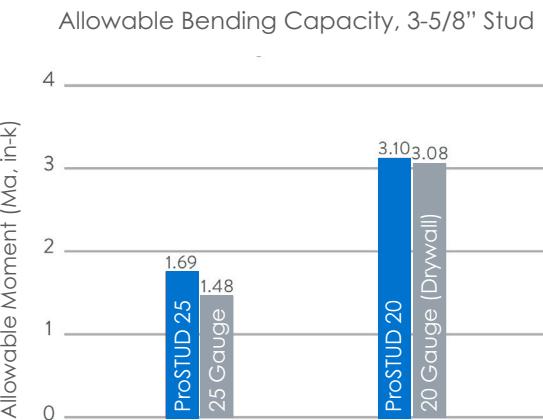
Given ProSTUD's strength and versatility, it is important to know the performance of the ProSTUD under your project's specific criteria. The data contained in this web site will provide guidance in a variety of assemblies and loading criteria, based on current building codes.

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 cabinets, shelving, 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 C645.



ProSTUD® ALLOWABLE SCREW CONNECTIONS

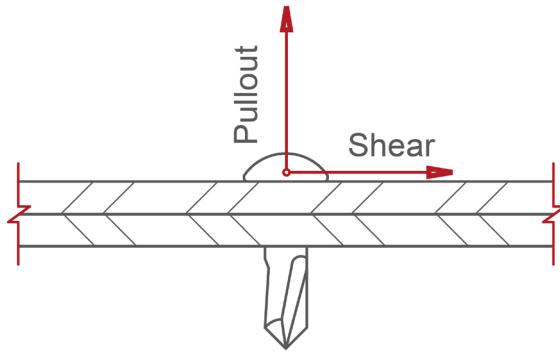
ProSTUD®Screw Design Values

Designation	Thickness, Mils	Design Thickness, in	Yield, Fy	Ultimate, Fu	#6 Screw (0.138" Dia, 5/16" Head)			#7 Screw (0.151" Dia, 5/16" Head)			#8 Screw (0.164" Dia, 5/16" Head)					
					Shear, lbs	1-Side	2-Side	Pullout, lbs	Shear, lbs	1-Side	2-Side	Pullout, lbs	Shear, lbs	1-Side	2-Side	Pullout, lbs
PDS125-15	15	0.0158	50	50	52	62	123	31	54	62	123	34	56	62	123	37
PDS125-18	18	0.0190	70	70	95	104	208	52	100	104	208	57	104	104	208	62
PDS125-30	30	0.0312	33	33	95	80	161	40	99	80	161	44	103	80	161	48
PDS125-33	33	0.0346	33	45	151	122	243	61	158	122	243	67	164	122	243	72

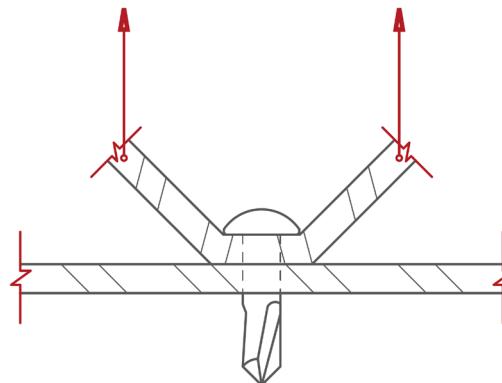
Designation	Thickness, Mils	Design Thickness, in	Yield, Fy	Ultimate, Fu	#10 Screw (0.190" Dia, 0.34" Head)			#12 Screw (0.216" Dia, 0.34" Head)			1/4" Screw (0.250" Dia, 0.409" Head)					
					Shear, lbs	1-Side	2-Side	Pullout, lbs	Shear, lbs	1-Side	2-Side	Pullout, lbs	Shear, lbs	1-Side	2-Side	Pullout, lbs
PDS125-15	15	0.0158	50	50	61	67	134	43	65	67	134	48	70	81	162	56
PDS125-18	18	0.0190	70	70	112	113	226	72	119	113	226	81	128	136	272	94
PDS125-30	30	0.0312	33	33	111	88	175	55	118	88	175	63	127	105	211	73
PDS125-33	33	0.0346	33	45	177	132	265	84	188	132	265	95	203	159	318	110

SCREW CAPACITY TABLE NOTES

- Allowable screw connection capacities are based on Section E4 of the AISI S100-12 Specification.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Screw shear and tension capacities was 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 3.0.
- When multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to screw head (using head diameter).
- For higher screw capacities, especially for screw strength, use specific screws from specific manufacturer. See manufacturer's data for specific allowable values and installation instructions.



Pullout / Shear



2-Sided Pullover

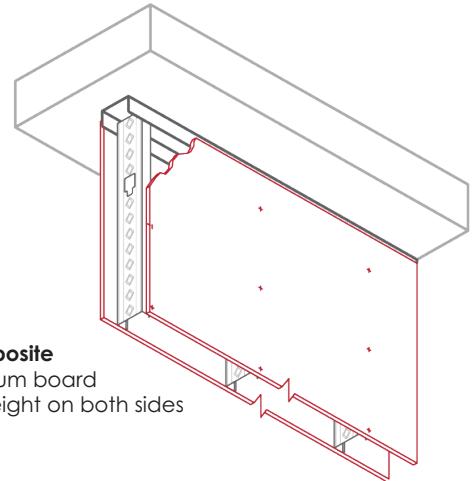
LIMITING HEIGHTS OVERVIEW

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.

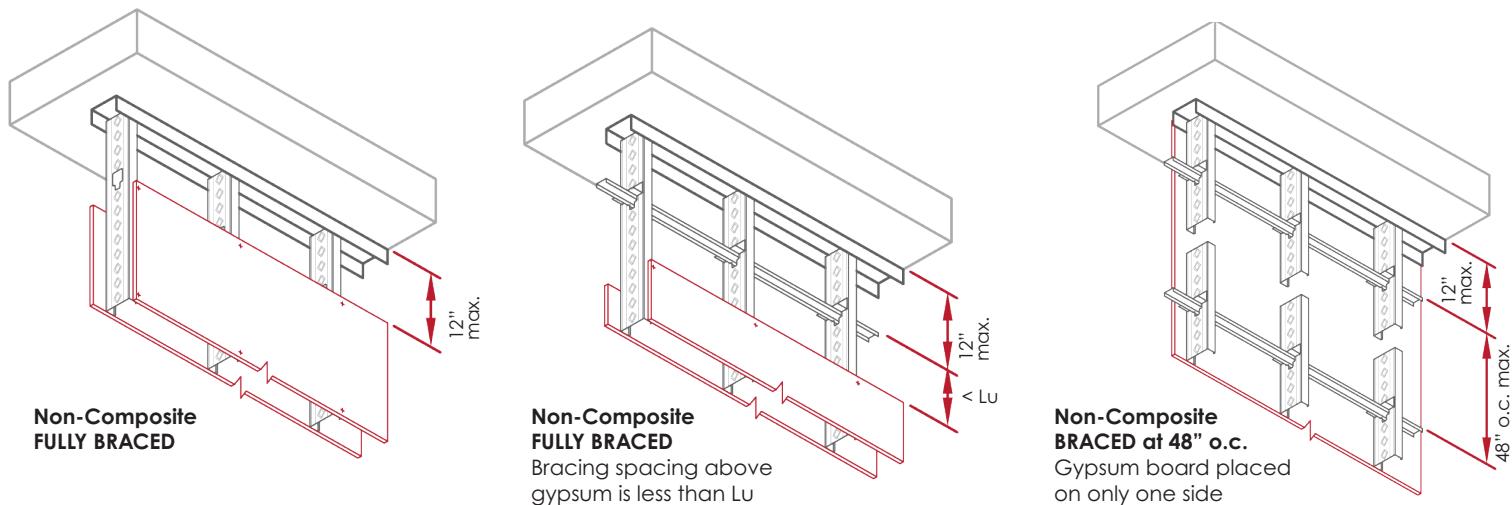
Composite Assemblies

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 AC86 (2015).



Non-Composite Assemblies

Non-composite conditions are common in all structures. When the gypsum board stops at the ceiling level, but the stud continues to the deck, it is a non-composite condition. Wall framing with Resilient Channel (RC) or Sound Clips is a noncomposite design since the screws attaching the gypsum board are not directly attached to the framing.



Distance of unbraced length (Lu) can be found in the physical and structural properties starting on page 5.

Chase Walls or Furred Walls

Chase and furred walls are common, but the conditions vary greatly depending on the building requirements.

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.

ProSTUD® COMPOSITE LIMITING HEIGHTS

ProSTUD® 25 (15mil) Composite Limiting Heights - 5/8" Type X Gypsum Board

Width	Stud Member	Design Thickness (in)	Yield Strength (ksi)	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
1-5/8"	ProSTUD 25 162PDS125-15	0.0158	50	12	14'1"	11'7"	10'1"	12'3"	10'1"	8'7"	11'2"	9'1"	---
				16	12'9"	10'6"	9'0"	11'2"	9'1"	---	10'2"	8'1"	---
				24	11'2"	9'1"	--	9'9"	--	--	8'5"	--	--
2-1/2"	ProSTUD 25 250PDS125-15	0.0158	50	12	17'2"	14'8"	13'0"	15'0"	12'10"	11'4"	13'3" f	11'8"	10'4"
				16	15'7"	13'4"	11'9"	13'3" f	11'8"	10'4"	11'5" f	10'7"	9'1"
				24	13'3" f	11'8"	10'4"	10'10" f	10'2"	8'6"	9'4" f	8'11"	---
3-5/8"	ProSTUD 25 362PDS125-15	0.0158	50	12	21'6"	17'1"	14'11"	18'4" f	14'11"	13'0"	15'10" f	13'7"	11'10"
				16	19'5" f	15'6"	13'7"	15'10" f	13'7"	11'10"	13'9" f	12'4"	10'7"
				24	15'10" f	13'7"	11'10"	12'11" f	11'10"	10'1"	11'2" f	10'7"	9'0"
4"	ProSTUD 25 400PDS125-15	0.0158	50	12	22'8"	18'0"	15'9"	19'1" f	15'9"	13'9"	16'6" f	14'4"	12'6"
				16	20'3" f	16'4"	14'4"	16'6" f	14'4"	12'6"	14'4" f	13'0"	11'3"
				24	16'6" f	14'4"	12'6"	13'6" f	12'6"	10'8"	11'8" f	11'3"	9'6"
6"	ProSTUD 25 600PDS125-15	0.0158	50	12	27'10" f	24'2"	21'5"	22'9" f	21'1"	18'8"	19'8" f	19'2"	17'0"
				16	24'1" f	21'11"	19'5"	19'8" f	19'2"	17'0"	17'1" f	17'1" f	15'5"
				24	19'8" f	19'2"	17'0"	16'1" f	16'1" f	14'9"	13'11" f	13'11" f	13'4"

TABLE NOTES

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2015.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program was 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 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 spaced at 16 in or 12 in on-center.
- Screws spaced a maximum of 12 in on-center to framing members 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.

ProSTUD® COMPOSITE LIMITING HEIGHTS

ProSTUD® 20 (18mil) Composite Limiting Heights - 5/8" Type X Gypsum Board

Width	Stud Member	Design Thickness (in)	Yield Strength (ksi)	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
1-5/8"	ProSTUD20 162PDS125-18	0.019	70	12	13'2"	11'5"	10'0"	11'6"	10'0"	8'5"	10'6"	8'9"	---
				16	12'10"	11'1"	9'9"	11'2"	9'8"	7'11"	10'2"	8'4"	---
				24	11'10"	10'3"	8'6"	10'4"	8'5"	---	9'2"	---	---
2-1/2"	ProSTUD20 250PDS125-18	0.019	70	12	17'5"	14'8"	12'11"	15'3"	12'10"	11'3"	13'10"	11'8"	10'3"
				16	16'8"	14'0"	12'4"	14'6"	12'3"	10'9"	13'2"	11'2" f	9'9"
				24	15'2"	12'10"	11'3"	13'2" f	11'2"	9'10"	11'5" f	10'2"	8'5"
3-5/8"	ProSTUD20 362PDS125-18	0.019	70	12	22'0"	18'2"	15'8"	19'3"	15'10"	13'8"	17'6"	14'5"	12'5"
				16	20'6"	16'10"	14'7"	17'11"	14'9"	12'9"	16'3"	13'5"	11'6"
				24	18'4"	15'1"	13'0"	15'11" f	13'2"	11'4"	13'9" f	12'0"	10'1"
4"	ProSTUD20 400PDS125-18	0.019	70	12	22'9"	18'8"	16'4"	19'11"	16'4"	14'3"	18'1"	14'10"	13'0"
				16	21'4"	17'7"	15'4"	18'8"	15'4"	13'5"	16'11"	13'11"	12'2"
				24	19'3"	15'10"	13'10"	16'7" f	13'10"	12'1"	14'4" f	12'6"	10'9"
6"	ProSTUD20 600PDS125-18	0.019	70	12	32'1"	25'6"	22'3"	28'1"	22'3"	19'5"	24'4" f	20'3"	17'8"
				16	29'10"	23'8"	20'8"	24'10" f	20'8"	18'1"	21'6" f	18'9"	16'5"
				24	25'5" f	21'1"	18'5"	20'9" f	18'5"	16'1"	18'0" f	16'9"	14'6"

TABLE NOTES

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2015.
- Additional composite wall testing and analysis requirements of the SFIA Code Compliance Certification Program was 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 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 spaced at 16 in or 12 in on-center.
- Screws spaced a maximum of 12 in on-center to framing members 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.

ProSTUD® COMPOSITE LIMITING HEIGHTS

ProSTUD® 30mil Composite Limiting Heights - 5/8" Type X Gypsum Board

Width	Stud Member	Design Thickness (in)	Yield Strength (ksi)	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
1-5/8"	ProSTUD 30 162PDS125-30	0.0312	33	12	16'3"	12'11"	11'3"	14'3"	11'3"	9'10"	12'11"	10'3"	8'8"
				16	14'9"	11'9"	10'3"	12'11"	10'3"	8'8"	11'9"	9'2"	---
				24	12'11"	10'3"	8'8"	11'3"	8'8"	---	10'3"	---	---
2-1/2"	ProSTUD 30 250PDS125-30	0.0312	33	12	19'9"	16'3"	14'4"	17'3"	14'2"	12'6"	15'8"	12'11"	11'4"
				16	17'11"	14'9"	13'0"	15'8"	12'11"	11'4"	14'3"	11'9"	10'4"
				24	15'8"	12'11"	11'4"	13'8" ^f	11'3"	9'11"	12'5"	10'3"	8'8"
3-5/8"	ProSTUD 30 362PDS125-30	0.0312	33	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"
4"	ProSTUD 30 400PDS125-30	0.0312	33	12	27'5"	21'9"	19'0"	24'0"	19'0"	16'8"	21'9"	17'4"	15'1"
				16	24'11"	19'10"	17'4"	21'9"	17'4"	15'1"	19'10"	15'9"	13'9"
				24	21'9"	17'4"	15'1"	19'0"	15'1"	13'2"	17'4"	13'9"	11'10"
6"	ProSTUD 30 600PDS125-30	0.0312	33	12	36'7"	29'1"	25'5"	32'0"	25'5"	22'2"	29'1"	23'1"	20'2"
				16	33'3"	26'5"	23'1"	29'1"	23'1"	20'2"	26'5"	20'11"	18'4"
				24	29'1"	23'1"	20'2"	25'5"	20'2"	17'7"	22'6" ^f	18'4"	---

TABLE NOTES

- Allowable composite limiting heights were determined in accordance with ICC-ES AC86-2015.
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- 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 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 spaced at 16 in or 12 in on-center.
- Screws spaced a maximum of 12 in on-center to framing members 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.

ProSTUD® COMPOSITE LIMITING HEIGHTS

ProSTUD® 33mil Composite Limiting Heights - 5/8" Type X Gypsum Board

Width	Stud Member	Design Thickness (in)	Yield Strength (ksi)	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
1-5/8"	ProSTUD 33 162PDS125-33	0.0346	33	12	17'0"	13'6"	11'10"	14'10"	11'10"	10'4"	13'6"	10'9"	9'3"
				16	15'6"	12'3"	10'9"	13'6"	10'9"	9'3"	12'3"	9'9"	---
				24	13'6"	10'9"	9'3"	11'10"	9'3"	---	10'9"	---	---
2-1/2"	ProSTUD 33 250PDS125-33	0.0346	33	12	20'4"	16'9"	14'9"	17'9"	14'7"	12'10"	16'2"	13'3"	11'8"
				16	18'6"	15'2"	13'5"	16'2"	13'3"	11'8"	14'8"	12'1"	10'7"
				24	16'2"	13'3"	11'8"	14'1"	11'7"	10'3"	12'10"	10'7"	9'1"
3-5/8"	ProSTUD 33 362PDS125-33	0.0346	33	12	26'7"	21'2"	18'5"	23'3"	18'5"	16'1"	21'2"	16'9"	14'8"
				16	24'2"	19'2"	16'9"	21'2"	16'9"	14'8"	19'2"	15'3"	13'4"
				24	21'2"	16'9"	14'8"	18'5"	14'8"	12'10"	16'9"	13'4"	11'6"
4"	ProSTUD 33 400PDS125-33	0.0346	33	12	27'10"	22'9"	20'1"	24'3"	19'11"	17'7"	22'1"	18'1"	15'11"
				16	25'3"	20'8"	18'3"	22'1"	18'1"	15'11"	20'1"	16'5"	14'6"
				24	22'1"	18'1"	15'11"	19'3"	15'10"	13'11"	17'6"	14'4"	12'8"
6"	ProSTUD 33 600PDS125-33	0.0346	33	12	36'8"	30'1"	26'6"	32'0"	26'3"	23'2"	29'1"	23'10"	21'0"
				16	33'3"	27'4"	24'1"	29'1"	23'10"	21'0"	26'5"	21'8"	19'1"
				24	29'1"	23'10"	21'0"	25'5"	20'10"	18'4"	23'1"	18'11"	---

TABLE NOTES

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- 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 spaced at 16 in or 12 in on-center.
- Screws spaced a maximum of 12 in on-center to framing members 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.

SOUND TESTING

ProSTUD® 3 - 5/8" Sound Assemblies

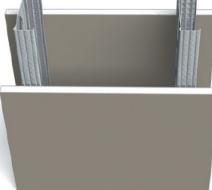
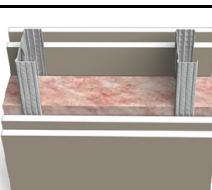
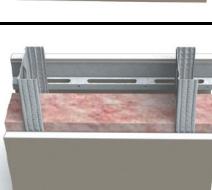
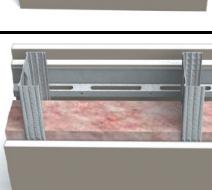
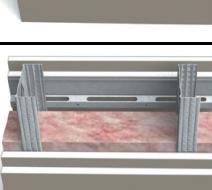
Partition Type	Assembly Description	STC Rating / Test Report			
		ProSTUD 25 (15 mil)	ProSTUD 20 (18 mil)	ProSTUD 30 mil	ProSTUD 33 mil
	3-5/8" ProSTUD 1 layer 5/8" Type X GWB on each side @ 24" o.c.	43 TL09-539	40 TL19-091	37 TL20-412	36 TL13-197
	3-5/8" ProSTUD 3-1/2" R-13 unfaced insulation 1 layer 5/8" Type X GWB on each side @ 24" o.c.	48 TL09-540	47 TL19-094	40 TL20-413	37 TL13-196
	3-5/8" ProSTUD 3-1/2" R-13 unfaced insulation 1 layer 5/8" Type X GWB on one side 2 layers 5/8" Type X GWB on the other side @ 24" o.c.	49 TL13-167	51 TL19-092	40 TL13-202	42 TL13-195
	3-5/8" ProSTUD 3-1/2" R-13 unfaced insulation 2 layers 5/8" Type X GWB on each side @ 24" o.c.	54 TL09-538	52 TL19-093	42 TL13-201	45 TL13-194
	3-5/8" ProSTUD 3-1/2" R-13 unfaced insulation RC-Deluxe w/ 1 layer 5/8" Type X GWB on one side 1 layer 5/8" Type X GWB on the other side @ 24" o.c.	54 TL18-302	53 TL19-097	48 TL20-414	50 TL16-369
	3-5/8" ProSTUD 3-1/2" R-13 unfaced insulation RC-Deluxe w/ 2 layers 5/8" Type X GWB on one side 1 layer 5/8" Type X GWB on the other side @ 24" o.c.	59 TL09-543	58 TL19-096	55 TL20-415	56 TL16-370
	3-5/8" ProSTUD .3-1/2" R-13 unfaced insulation RC-Deluxe w/ 2 layers 5/8" Type X GWB on one side 2 layers 5/8" Type X GWB on the other side @ 24" o.c.	62 TL13-181	60 TL19-095	58 TL20-416	58 TL13-200

TABLE NOTES

- Sound assemblies are certified by Western Electro-Acoustic Laboratories.
- NVLAP accredited for ASTM E90 & E413, ISO Certified.

SOUND TESTING

ProSTUD® 1-5/8" Stud Chase Sound Assemblies

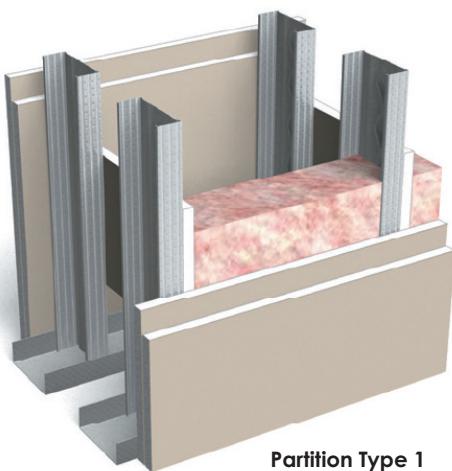
Two Parallel Rows

Gypsum Type	Side A	Side B	Insulation Type	Stud Spacing	STC Rating	Test Report	Partition Type
					ProSTUD 25 (15mil)		
5/8" Type X	1 layer	1 layer	R-13* unfaced	24"	55	TL09-590	1 Similar
5/8" Type X	1 layer	2 layers	R-13* unfaced	24"	59	TL09-591	1 Similar
5/8" Type X	2 layers	2 layers	R-13* unfaced	24"	61	TL09-592	1

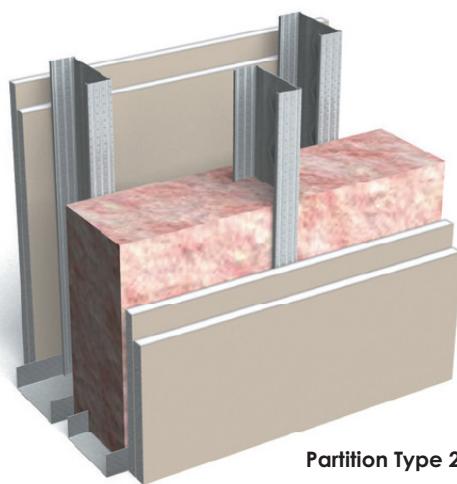
ProSTUD® 2-1/2" Stud Chase Sound Assemblies

Staggered in Oppostive Walls

Gypsum Type	Side A	Side B	Insulation Type	Stud Spacing	STC Rating	Test Report	Partition Type
					ProSTUD 25 (15mil)		
5/8" Type X	1 layer	1 layer	R-13* unfaced*	24"	58	TL09-593	2 Similar
5/8" Type X	1 layer	2 layers	R-13* unfaced*	24"	63	TL09-594	2 Similar
5/8" Type X	2 layers	2 layers	R-13* unfaced*	24"	65	TL09-595	2



Partition Type 1



Partition Type 2

TABLE NOTES

- Sound Assemblies are certified by Western Electro-Acoustic Laboratories.
- NVLAP Accredited for ASTM E90 & E413, ISO Certified.

UL FIRE TESTING

ProSTUD® Single Stud Wall - Fire Assemblies

UL design no.	Hourly Rating	ProSTUD minimum thickness	ProSTUD minimum depth
U403	2	ProSTUD 20 (18mil)	3-5/8"
U407	1/2 or 1	ProSTUD 25 (15mil)	3-5/8"
U408	2	ProSTUD 20 (18mil)	3-5/8"
U411	2	ProSTUD 25 (15mil)	2-1/2"
U412	2	ProSTUD 25 (15mil)	1-5/8"
U419	1, 2, 3 or 4	ProSTUD 25 (15mil)	(See Table 1 below)
U421	2	ProSTUD 25 (15mil)	3-5/8"
U431	4	ProSTUD 20 (18mil)	3-5/8"
U435	3 or 4	ProSTUD 25 (15mil)	1-5/8"
U442*	1	ProSTUD 33MIL	2-1/2"
U450	1 or 3	ProSTUD 20 (18mil)	3-5/8"
U451	1	ProSTUD 20 (18mil)	2-1/2"
U454	2	ProSTUD 20 (18mil)	2-1/2"
U463	3 or 4	ProSTUD 20 (18mil)	1-5/8"
U465	1	ProSTUD 20 (18mil)	3-5/8"
U471	1-1/2	ProSTUD 20 (18mil)	3-5/8"
U475	1, 2 or 3	ProSTUD 20 (18mil)	3-5/8"
U478	3	ProSTUD 20 (18mil)	1-5/8"
U484*	2	ProSTUD 33MIL	2-1/2"
U488*	1	ProSTUD 33MIL	2-1/2"
U490	4	ProSTUD 20 (18mil)	2-1/2"
U491	2	ProSTUD 20 (18mil)	3-5/8"
U494	1	ProSTUD 20 (18mil)	2-1/2"
U495	1 or 2	ProSTUD 20 (18mil)	3-5/8"
U496	1	ProSTUD 20 (18mil)	1-5/8"

UL design no.	Hourly Rating	ProSTUD minimum thickness	ProSTUD minimum depth
V410	2	ProSTUD 20 (18mil)	1-5/8"
V412	2	ProSTUD 20 (18mil)	3-5/8"
V416	1	ProSTUD 20 (18mil)	3-5/8"
V417	1	ProSTUD 20 (18mil)	3-5/8"
V418	2	ProSTUD 20 (18mil)	1-5/8"
V419	2	ProSTUD 20 (18mil)	2-1/2"
V425	1	ProSTUD 20 (18mil)	2-1/2"
V435	1	ProSTUD 20 (18mil)	3-5/8"
V438	1, 2, 3 or 4	ProSTUD 25 (15mil)	(See Table 1 below)
V443	4	ProSTUD 20 (18mil)	3-5/8"
V444	1	ProSTUD 20 (18mil)	3-5/8"
V448	1	ProSTUD 20 (18mil)	3-5/8"
V449	2	ProSTUD 20 (18mil)	3-5/8"
V450	1	ProSTUD 25 (15mil)	3-5/8"
V450	2	ProSTUD 25 (15mil)	2-1/2"
V452	1 or 2	ProSTUD 20 (18mil)	3-5/8"
V453*	1-1/2	ProSTUD 33MIL	6"
V461*	1	ProSTUD 33MIL	3-5/8"
V476	1 or 3	ProSTUD 20 (18mil)	3-5/8"
V477	1, 2, 3 or 4	ProSTUD 25 (15mil)	(See Table 1 below)
V487	2	ProSTUD 20 (18mil)	1-5/8"
V489	1, 2, 3 or 4	ProSTUD 25 (15mil)	(See Table 1 below)
V498	1, 2, 3 or 4	ProSTUD 25 (15mil)	(See Table 1 below)
W411	1/2 or 1	ProSTUD 25 (15mil)	3-5/8"
W415	1 or 2	ProSTUD 20 (18mil)	2-1/2"
W424	1	ProSTUD 25 (15mil)	3-5/8"

ProSTUD® Chase or Double Stud - Fire Assemblies

UL design no.	Hourly Rating	ProSTUD minimum thickness	ProSTUD minimum depth
U420	2	ProSTUD 25 (15mil)	1-5/8"
U436	1, 2, or 3	ProSTUD 20 (18mil)	1-5/8"
U444	2	ProSTUD 25 (15mil)	1-5/8"
U445*	1	ProSTUD 33 (33mil)	1-5/8"
U466	1	ProSTUD 20 (18mil)	2-1/2"
U493	2	ProSTUD 25 (15mil)	2-1/2"
V437	1	ProSTUD 20 (18mil)	1-5/8"

UL design no.	Hourly Rating	ProSTUD minimum thickness	ProSTUD minimum depth
V442	2	ProSTUD 25 (15mil)	1-5/8"
V464	1	ProSTUD 25 (15mil)	3-5/8"
V469*	1	ProSTUD 33 (33mil)	2-1/2"
V469	2	ProSTUD 20 (18mil)	2-1/2"
V488	1 or 2	ProSTUD 20 (18mil)	2-1/2"
V490*	1 or 2	ProSTUD 33 (33mil)	2-1/2"
V496	1 or 2	ProSTUD 20 (18mil)	2-1/2"

ProSTUD® Table 1: Minimum Depth of ProSTUD Required

Hourly Rating	Min. stud depth (in)	No. of layers and thickness of gypsum board	UL U419	UL V438	UL V477	UL V489	UL V498
1	2-1/2"	1 layer, 1/2"	—	—	—	✓	—
1	3-5/8"	1 layer, 5/8"	✓	✓	✓	✓	✓
2	1-5/8"	2 layer, 1/2"	✓	✓	✓	✓	✓
2	1-5/8"	2 layer, 5/8"	✓	—	✓	✓	✓
2	2-1/2"	2 layer, 5/8"	—	✓	—	—	—
3	1-5/8"	3 layer, 1/2"	✓	✓	✓	✓	✓
3	1-5/8"	3 layer, 5/8"	✓	✓	✓	✓	✓
4	1-5/8"	4 layer, 1/2"	✓	✓	✓	✓	✓

TABLE NOTES

- See 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.

ALLOWABLE CEILING SPANS

ProSTUD® ALLOWABLE CEILING SPANS							Deflection Limit L/240						
Section	Fy, ksi	4 psf						6 psf					
		Lateral Support of Compression Flange			Midspan			Lateral Support of Compression Flange			Midspan		
		Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.	Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.	Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.
		12	16	24	12	16	24	12	16	24	12	16	24
162PDS125-15	50	7' 3"	6' 8"	5' 11"	7' 10"	7' 2"	6' 3"	6' 5"	5' 11"	5' 3"	6' 10"	6' 3"	5' 5"
250PDS125-15	50	8' 4"	7' 8"	6' 11"	10' 11"	9' 11"	8' 8"	7' 5"	6' 11"	6' 2"	9' 7"	8' 8"	7' 7"
350PDS125-15	50	9' 1"	8' 5"	7' 6"	12' 7"	11' 6"	10' 2"	8' 2"	7' 6"	6' 8"	11' 1"	10' 2"	8' 10" e
362PDS125-15	50	9' 2"	8' 6"	7' 7"	12' 9"	11' 8"	10' 3"	8' 3"	7' 7"	6' 9"	11' 3"	10' 3"	8' 11" e
400PDS125-15	50	9' 5"	8' 9"	7' 10"	13' 1"	12' 0"	10' 7" e	8' 6"	7' 10"	6' 11" e	11' 7" e	10' 7" e	9' 3" e
550PDS125-15	50	10' 5"	9' 8"	8' 8"	14' 7"	13' 5"	11' 10"	9' 4"	8' 8"	7' 9"	12' 11"	11' 10"	10' 6" e
600PDS125-15	50	10' 8"	9' 10"	8' 10"	15' 0"	13' 9"	12' 2"	9' 6"	8' 10"	7' 11"	13' 3"	12' 2"	9' 11" e
162PDS125-18	70	7' 10"	7' 3"	6' 6"	8' 4"	7' 7"	6' 8"	7' 1"	6' 6"	5' 9"	7' 4"	6' 8"	5' 10"
250PDS125-18	70	9' 0"	8' 5"	7' 7"	11' 9"	10' 8"	9' 4"	8' 2"	7' 7"	6' 9"	10' 3"	9' 4"	8' 2" e
350PDS125-18	70	9' 10"	9' 1"	8' 2"	13' 11"	12' 10"	11' 5"	8' 10"	8' 2"	7' 4"	12' 4"	11' 5"	10' 1" e
362PDS125-18	70	9' 11"	9' 2"	8' 3"	14' 1"	12' 11"	11' 6"	8' 11"	8' 3"	7' 5"	12' 6"	11' 6"	10' 2" e
400PDS125-18	70	10' 2"	9' 5"	8' 6"	14' 6"	13' 4"	11' 10"	9' 2"	8' 6"	7' 8"	12' 11"	11' 10"	10' 6" e
550PDS125-18	70	11' 6" e	10' 7" e	9' 6" e	16' 4" e	15' 1" e	13' 5" e	10' 3" e	9' 6" e	8' 7" e	14' 7" e	13' 5" e	11' 11" e
600PDS125-18	70	11' 10"	10' 11"	9' 10"	16' 10"	15' 6"	13' 10"	10' 7"	9' 10"	8' 10"	15' 0"	13' 10"	12' 3" e
162PDS125-30	33	9' 4"	8' 7"	7' 8"	9' 10"	9' 0"	7' 10"	8' 3"	7' 8"	6' 10"	8' 7"	7' 10"	6' 10" e
250PDS125-30	33	10' 4"	9' 7"	8' 6"	13' 8"	12' 5"	10' 10"	9' 3"	8' 6"	7' 8"	11' 11"	10' 10"	9' 6" e
350PDS125-30	33	11' 2"	10' 4"	9' 3"	16' 0"	14' 10"	13' 4"	10' 0"	9' 3"	8' 4"	14' 5"	13' 4"	11' 11" e
362PDS125-30	33	11' 3"	10' 5"	9' 4"	16' 2"	15' 0"	13' 6"	10' 1"	9' 4"	8' 5"	14' 7"	13' 6"	12' 0" e
400PDS125-30	33	11' 7"	10' 9"	9' 8"	16' 8"	15' 6"	13' 11"	10' 5"	9' 8"	8' 8"	15' 0"	13' 11"	12' 5" e
550PDS125-30	33	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"	11' 6"	10' 8"	9' 7"	16' 7"	15' 4"	13' 9" e
600PDS125-30	33	13' 1"	12' 2"	10' 11"	18' 11"	17' 6"	15' 8"	11' 9"	10' 11"	9' 10"	17' 0"	15' 8"	14' 1" e
162PDS125-33	33	9' 9"	9' 0"	8' 0"	10' 4"	9' 4"	8' 2"	8' 8"	8' 0"	7' 1"	9' 0"	8' 2"	7' 2" e
250PDS125-33	33	10' 9"	9' 11"	8' 10"	14' 3"	12' 11"	11' 3"	9' 7"	8' 10"	7' 11"	12' 5"	11' 3"	9' 10" e
350PDS125-33	33	11' 7"	10' 8"	9' 7"	16' 6"	15' 3"	13' 9"	10' 4"	9' 7"	8' 7"	14' 10"	13' 9"	12' 4" e
362PDS125-33	33	11' 8"	10' 9"	9' 8"	16' 8"	15' 5"	13' 11"	10' 5"	9' 8"	8' 8"	15' 0"	13' 11"	12' 6" e
400PDS125-33	33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 4"	10' 9"	9' 11"	8' 11"	15' 5"	14' 4"	12' 10" e
550PDS125-33	33	13' 3"	12' 3"	11' 0"	19' 0"	17' 7"	15' 10"	11' 10"	11' 0"	9' 10"	17' 1"	15' 10"	14' 3" e
600PDS125-33	33	13' 6"	12' 6"	11' 3"	19' 6"	18' 1"	16' 3"	12' 2"	11' 3"	10' 1"	17' 6"	16' 3"	14' 7" e

TABLE NOTES

- For unbraced sections, allowable moment is based on 2012 AISI Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be the listed span (completely unbraced). For mid-span braced sections, allowable moment based on 2012 AISI Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be one-half of the listed span (bracing at midspan).
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punchouts. If web punchouts 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.
- e - Web stiffeners required at supports.

ALLOWABLE CEILING SPANS

ProSTUD® ALLOWABLE CEILING SPANS								Deflection Limit L/360					
Section	Fy, ksi	4 psf						6 psf					
		Lateral Support of Compression Flange			Midspan			Lateral Support of Compression Flange			Midspan		
		Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.	Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.	Unsupported	Joist Spacing (in) o.c.	Midspan	Joist Spacing (in) o.c.
		12	16	24	12	16	24	12	16	24	12	16	24
162PDS125-15	50	6' 10"	6' 3"	5' 5"	6' 10"	6' 3"	5' 5"	6' 0"	5' 5"	4' 9"	6' 0"	5' 5"	4' 9"
250PDS125-15	50	8' 4"	7' 8"	6' 11"	9' 7"	8' 8"	7' 7"	7' 5"	6' 11"	6' 2"	8' 4"	7' 7"	6' 8"
350PDS125-15	50	9' 1"	8' 5"	7' 6"	12' 5"	11' 4"	9' 11"	8' 2"	7' 6"	6' 8"	10' 10"	9' 11"	8' 8" e
362PDS125-15	50	9' 2"	8' 6"	7' 7"	12' 9"	11' 7"	10' 1"	8' 3"	7' 7"	6' 9"	11' 2"	10' 1"	8' 10" e
400PDS125-15	50	9' 5"	8' 9"	7' 10"	13' 1"	12' 0"	10' 7" e	8' 6"	7' 10"	6' 11" e	11' 7" e	10' 7" e	9' 3" e
550PDS125-15	50	10' 5"	9' 8"	8' 8"	14' 7"	13' 5"	11' 10"	9' 4"	8' 8"	7' 9"	12' 11"	11' 10"	10' 6" e
600PDS125-15	50	10' 8"	9' 10"	8' 10"	15' 0"	13' 9"	12' 2"	9' 6"	8' 10"	7' 11"	13' 3"	12' 2"	9' 11" e
162PDS125-18	70	7' 4"	6' 8"	5' 10"	7' 4"	6' 8"	5' 10"	6' 5"	5' 10"	5' 1"	6' 5"	5' 10"	5' 1"
250PDS125-18	70	9' 0"	8' 5"	7' 7"	10' 3"	9' 4"	8' 2"	8' 2"	7' 7"	6' 9"	9' 0"	8' 2"	7' 2"
350PDS125-18	70	9' 10"	9' 1"	8' 2"	13' 5"	12' 2"	10' 8"	8' 10"	8' 2"	7' 4"	11' 8"	10' 8"	9' 3" e
362PDS125-18	70	9' 11"	9' 2"	8' 3"	13' 9"	12' 6"	10' 11"	8' 11"	8' 3"	7' 5"	12' 0"	10' 11"	9' 6" e
400PDS125-18	70	10' 2"	9' 5"	8' 6"	14' 6"	13' 4"	11' 8"	9' 2"	8' 6"	7' 8"	12' 10"	11' 8"	10' 2" e
550PDS125-18	70	11' 6" e	10' 7" e	9' 6" e	16' 4" e	15' 1" e	13' 5" e	10' 3" e	9' 6" e	8' 7" e	14' 7" e	13' 5" e	11' 11" e
600PDS125-18	70	11' 10"	10' 11"	9' 10"	16' 10"	15' 6"	13' 10"	10' 7"	9' 10"	8' 10"	15' 0"	13' 10"	12' 3" e
162PDS125-30	33	8' 7"	7' 10"	6' 10"	8' 7"	7' 10"	6' 10"	7' 6"	6' 10"	6' 0"	7' 6"	6' 10"	6' 0" e
250PDS125-30	33	10' 4"	9' 7"	8' 6"	11' 11"	10' 10"	9' 6"	9' 3"	8' 6"	7' 8"	10' 5"	9' 6"	8' 3" e
350PDS125-30	33	11' 2"	10' 4"	9' 3"	15' 6"	14' 1"	12' 4"	10' 0"	9' 3"	8' 4"	13' 6"	12' 4"	10' 9" e
362PDS125-30	33	11' 3"	10' 5"	9' 4"	15' 11"	14' 6"	12' 8"	10' 1"	9' 4"	8' 5"	13' 11"	12' 8"	11' 1" e
400PDS125-30	33	11' 7"	10' 9"	9' 8"	16' 8"	15' 6"	13' 9"	10' 5"	9' 8"	8' 8"	15' 0"	13' 9"	12' 0" e
550PDS125-30	33	12' 10"	11' 10"	10' 8"	18' 5"	17' 1"	15' 4"	11' 6"	10' 8"	9' 7"	16' 7"	15' 4"	13' 9" e
600PDS125-30	33	13' 1"	12' 2"	10' 11"	18' 11"	17' 6"	15' 8"	11' 9"	10' 11"	9' 10"	17' 0"	15' 8"	14' 1" e
162PDS125-33	33	9' 0"	8' 2"	7' 2"	9' 0"	8' 2"	7' 2"	7' 10"	7' 2"	6' 3"	7' 10"	7' 2"	6' 3" e
250PDS125-33	33	10' 9"	9' 11"	8' 10"	12' 5"	11' 3"	9' 10"	9' 7"	8' 10"	7' 11"	10' 10"	9' 10"	8' 7" e
350PDS125-33	33	11' 7"	10' 8"	9' 7"	16' 1"	14' 7"	12' 9"	10' 4"	9' 7"	8' 7"	14' 1"	12' 9"	11' 2" e
362PDS125-33	33	11' 8"	10' 9"	9' 8"	16' 6"	15' 0"	13' 2"	10' 5"	9' 8"	8' 8"	14' 5"	13' 2"	11' 6" e
400PDS125-33	33	12' 0"	11' 1"	9' 11"	17' 2"	15' 11"	14' 3"	10' 9"	9' 11"	8' 11"	15' 5"	14' 3"	12' 5" e
550PDS125-33	33	13' 3"	12' 3"	11' 0"	19' 0"	17' 7"	15' 10"	11' 10"	11' 0"	9' 10"	17' 1"	15' 10"	14' 3" e
600PDS125-33	33	13' 6"	12' 6"	11' 3"	19' 6"	18' 1"	16' 3"	12' 2"	11' 3"	10' 1"	17' 6"	16' 3"	14' 7" e

TABLE NOTES

- For unbraced sections, allowable moment is based on 2012 AISI Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be the listed span (completely unbraced). For mid-span braced sections, allowable moment based on 2012 AISI Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be one-half of the listed span (bracing at midspan).
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punchouts. If web punchouts 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.
- e - Web stiffeners required at supports.

ALLOWABLE LATERAL LOADS AND WALL HEIGHTS

ProSTUD® Lateral Loads and Wall Heights

Deflection Track System	Thickness, in	Yield Strength, Fy (ksi)	2" Leg Track with 1/2" Gap		2-1/2" Leg Track with 3/4" Gap		3" Leg Track with 1" Gap	
			Allowable Load	Limiting Wall Height	Allowable Load	Limiting Wall Height	Allowable Load	Limiting Wall Height
ProTRAK-15	0.0158	50	36	10' 8"	24	7' 2"	18	5' 4"
ProTRAK-18	0.0190	50	52	15' 6"	34	10' 4"	26	7' 9"
ProTRAK-30	0.0312	50	92	27' 6"	61	18' 4"	46	13' 9"
ProTRAK-33	0.0346	50	113	33' 10"	75	22' 7"	56	16' 11"

TABLE NOTES

- Limiting wall heights are based on studs spaced at 16" o.c. and an interior lateral load of 5psf.
- Stud members must be analyzed independently of the track system.

DEEP LEG DEFLECTION TRACK SYSTEMS

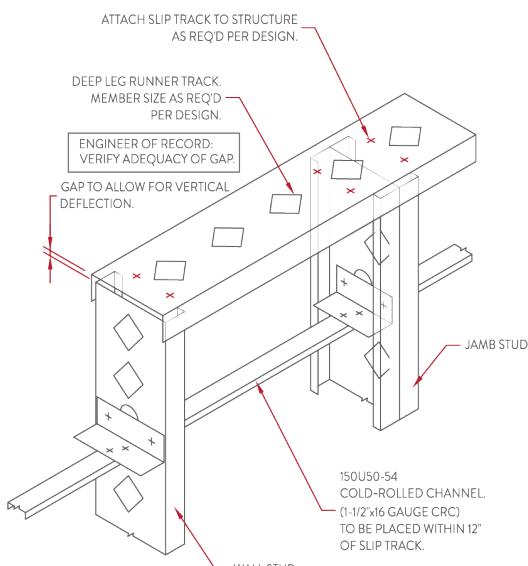
Head-of-wall vertical deep leg deflection track systems are required to allow the top of the wall stud to float within the top track legs. This condition allows for vertical live load movement of the primary structure without transferring axial loads to the interior drywall studs. A gap (determined by 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.

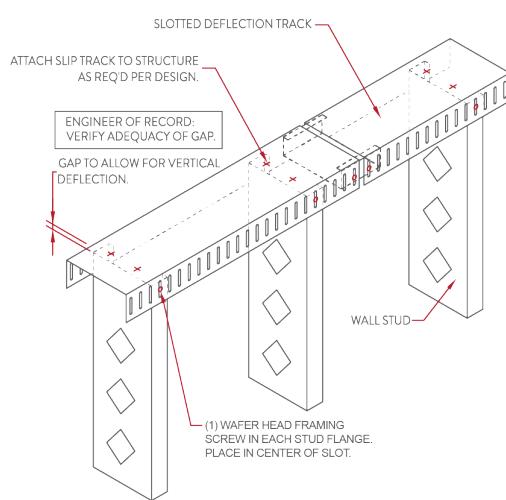
1. DEEP LEG DEFLECTION TRACK DETAIL

WITH LATERAL BRACING WITHIN 12" OF SLIP TRACK



2. SLOTTED TRACK DEFLECTION TRACK DETAIL

WITH TRACK SPLICE



*Details shown are for example only. The engineer of record of the project is responsible for the design of the connection to the structure.

CODE APPROVALS & PERFORMANCE STANDARDS

Mill Steel Company's ProSTUD Drywall Framing System meets or exceeds these applicable performance standards.

AISI S100-12 North American Specification for the Design of Cold-Formed Steel Structural Members

AISI S220-15 North American Standard for Cold-Formed Steel Framing—Nonstructural Members

ASTM AMERICAN SOCIETY FOR TESTING & MATERIALS

A1003 "Material specification for steel sheet mechanical and chemical requirements"

C645 "Standard Specification for Nonstructural Steel Framing Members"

C754 "Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products"

C1002 "Standard Specification for Steel Self Piercing Tapping Screw for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs"

E119 "Standard Test Methods for Fire Tests of Building Construction and Materials"

E72 "Standard Test Methods of Conducting Strength Tests of Panels for Building Construction"

E90 "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements"

UL® Underwriters Laboratories testing standard

UL 263 "Fire Tests of Building Construction and Materials"

Independent product testing and certification

Sound ratings: (WEAL) Western Electro-Acoustic Laboratory

Fire testing: (UL) Underwriters Laboratories Inc.

Multiple UL® design listings for ProSTUD

Over 50 UL Designs. See UL file number R26512 for additional information.

LEED® SERVICES

BUILD GREEN WITH MILL STEEL

Mill Steel Framing is an active member of the U.S. Green Building Council and is committed to supplying quality products that are environmentally responsible. We are continually working to develop greener building products and sustainable business practices. Mill Steel Framing helps contribute points toward LEED® certification. For more details visit www.millsteelframing.com

Mill Steel Framing is a proud member of the Steel Framing Industry Association (SFIA). Check the updated list of Certified Production Facilities at Intertek's website at www.intertek.com. Additional code approvals SFIA (Steel Framing Industry Association).



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