

Deep Leg Deflection Track (Slip Track)

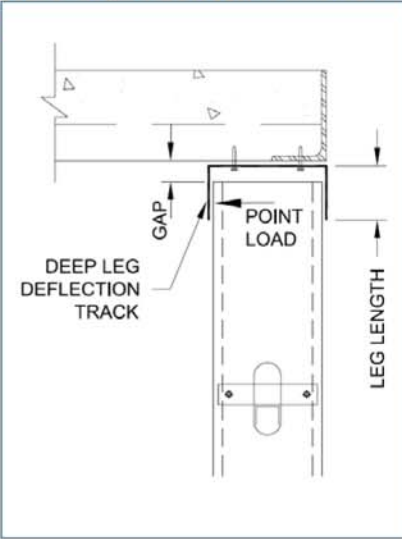
Flat Drywall deflection track for interior walls

A single deep leg track system allows the top of the wall stud to float within the track legs. This connection allows for vertical live load movement of the primary structure without transferring axial loads to the wall 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.

Product Data & Ordering Information:

Material: Yield Strength: Grade 33ksi
 Coating: G40EQ (G40 & G60 available)
 (All material below is flat – not ProSTUD)
 18mils: 25 Gauge, 0.0188" Design Thickness, 0.0179" Min. Thickness
 30mils: 20ga DW, 0.0312" Design Thickness, 0.0296" Min. Thickness

Dimensions: 2", 2-1/2" or 3" legs with an inside depth equal to the depth of the stud
 - Standard depth available: 2-1/2", 3-5/8", 4", 6"
 - Custom depth available by special orders



Deep Leg Deflection Track

ASTM & Code Standards:

- Drywall framing is produced to meet or exceed ASTM C645, A653 and A1003
- Galvanized sheet steel meets or exceeds requirements of ASTM A924
- For installation & storage information refer to ASTM C754
- MSDS & Product Certification

Allowable Deflection Track Point Loads:

2" Leg Deflection Track with 1/2" Gap - Allowable Point Load		
Yield Strength	18mils (25ga) - Flat	30mils (20ga DW) - Flat
33ksi	30	92

2-1/2" Leg Deflection Track with 3/4" Gap - Allowable Point Load		
Yield Strength	18mils (25ga) - Flat	30mils (20ga DW) - Flat
33ksi	20	61

3" Leg Deflection Track with 1" Gap - Allowable Point Load		
Yield Strength	18mils (25ga) - Flat	30mils (20ga DW) - Flat
33ksi	15	46

Calculating slip track point load:
 Point Load =
 (wind pressure PSF) x (spacing FT) x (wall stud length FT) / 2
 Example:
 (5 PSF) x (1.33 FT) x (9.5 FT) / 2 = 31.7 lbs.

- Table notes:
1. Values above are designed for wall stud spacing at 16" o.c.
 2. Drywall is required to extend for the full height of the wall and on both sides of the wall studs.
 3. If the drywall does not extend for the full height of the wall, lateral bracing is required within 18" of the deflection track to prevent wall studs from rotating.
 4. Values are based on equations from AISI North American Standard for CFSF – Wall Stud Design (S211-07)
 5. Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be checked separately.

Deep Leg Deflection Track (Slip Track)

Structural deflection track for interior & exterior walls

A single deep leg track system allows the top of the wall stud to float within the track legs. This connection allows for vertical live load movement of the primary structure without transferring axial loads to the wall studs. 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.

Product Data & Ordering Information:

Material:	Yield Strength:	Grade 33ksi or 50ksi
	Coating:	CP60 per ASTM C955 (G90 Available)
	33mils:	20 Ga. Structural, 0.0346" Design Thickness, 0.0329" Min. Thickness
	43mils:	18 Gauge, 0.0451" Design Thickness, 0.0428" Min. Thickness
	54mils:	16 Gauge, 0.0566" Design Thickness, 0.0538" Min. Thickness
	68mils:	14 Gauge, 0.0713" Design Thickness, 0.0677" Min. Thickness
	97mils:	12 Gauge, 0.1017" Design Thickness, 0.0966" Min. Thickness

Dimensions:	2", 2-1/2" or 3" legs with an inside depth equal to the depth of the stud
	- Standard depths available: 2-1/2", 3-5/8", 4", 6" and 8"
	- Custom depths available by special orders

ASTM & Code Standards:

- Structural framing is produced to meet or exceed ASTM C955, A653 and A1003
- Galvanized sheet steel meets or exceeds requirements of ASTM A924
- ClarkDietrich's structural framing comply with SSMA and ICBO Evaluation Report 4943P
- For installation & storage information refer to ASTM C1007
- MSDS & Product Certification

Allowable Deflection Track Point Loads:

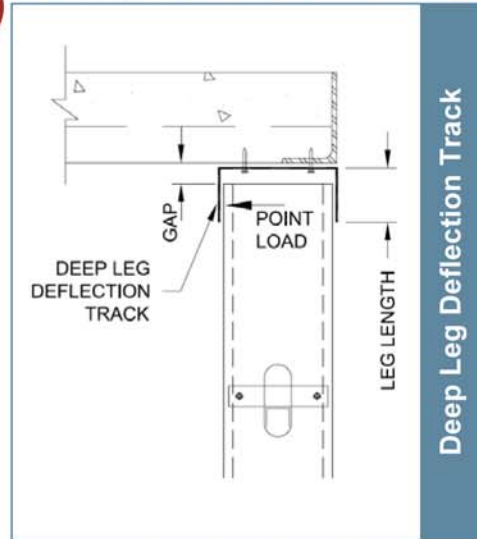
2" Leg Deflection Track with 1/2" Gap - Allowable Point Load					
Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	113	163	213	N/A	N/A
50ksi	N/A	247	323	435	729

2-1/2" Leg Deflection Track with 3/4" Gap - Allowable Point Load					
Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	75	123	158	N/A	N/A
50ksi	N/A	187	240	318	519

3" Leg Deflection Track with 1" Gap - Allowable Point Load					
Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	56	96	129	N/A	N/A
50ksi	N/A	145	195	256	411

Table notes:

1. Values above are designed for wall stud spacing at 16" o.c.
2. Lateral bracing is required within 12" of deflection track to prevent wall studs from rotating.
3. Values are based on equations from AISI North American Standard for CFSF – Wall Stud Design (S211-07)
4. Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be checked separately.



Calculating slip track point load:

Point Load =

(wind pressure PSF) x (spacing FT) x (wall stud length FT) / 2

Example:

(20 PSF) x (1.33 FT) x (15.5 FT) / 2 = 206.6 lbs.

Deep Leg Deflection Track (Slip Track)

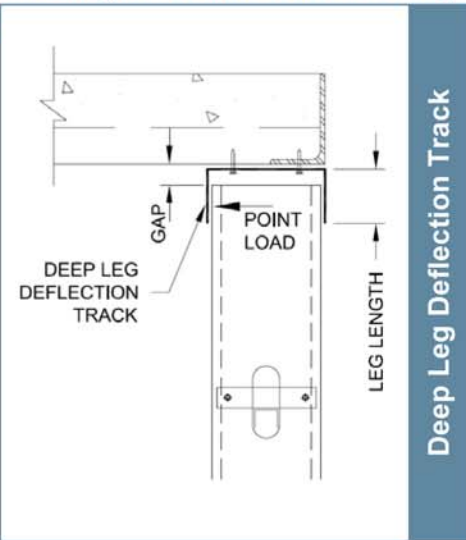
ProTRAK™ deep leg deflection track for interior walls

A single ProTRAK deep leg track system allows the top of the wall stud to float within the track legs. This connection allows for vertical live load movement of the primary structure without transferring axial loads to the wall 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.

Product Data & Ordering Information:

Material: ProTRAK 25 (15mils): 0.0158" Design Thickness, 0.0150" Min. Thickness
 ProTRAK 20 (19mils): 0.0200" Design Thickness, 0.0190" Min. Thickness
 ProTRAK 30mils: 0.0312" Design Thickness, 0.0269" Min. Thickness
 ProTRAK 33mils: 0.0346" Design Thickness, 0.0329" Min. Thickness
Yield Strength: 18mil & 19mil = 50ksi 30mil & 33mil = 33ksi
Coating: G40EQ (G40 & G60 available)

Dimensions: 2", 2-1/2" or 3" legs with an inside depth equal to the depth of the stud
 - Standard depth available: 2-1/2", 3-5/8", 4", 6"
 - Custom depth available by special orders



Deep Leg Deflection Track

ASTM & Code Standards:

- See ProTRAK Submittal for section properties
- Drywall framing is produced to meet or exceed ASTM C645 & C754
- IAPMO #0189 – Evaluation Report
- MSDS & Product Certification

Allowable Deflection Track Point Load and Limiting Wall Height:

Deflection Track System	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 25	36	10'-8"	24	7'-2"	18	5'-4"
ProTRAK 20	57	17'-2"	38	11'-5"	29	8'-7"
ProTRAK 30mil	92	27'-6"	61	18'-4"	46	13'-9"
ProTRAK 33mil	113	33'-10"	75	22'-7"	56	16'-11"

Calculating slip track point load:
Point Load =
 (wind pressure PSF) x (spacing FT) x (wall stud length FT) / 2
Example:
 (5 PSF) x (1.33 FT) x (10.67 FT) / 2 = 35.5 or 36 lbs.

- Table notes:
1. Limiting wall heights are based on studs spaced at 16" o.c. and an interior lateral load of 5psf.
 2. Stud members must be analyzed independently of the track system. Use www.iProSTUD.com to check limiting wall heights of stud members.
 3. Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be checked separately.