

Deep Leg Deflection Track (Slip Track) - Structural

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, 20ga 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.

2" Leg with 1/2" Gap - Allowable Deflection Track Point Loads:

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 with 3/4" Gap - Allowable Deflection Track Point Loads:

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 with 1" Gap - Allowable Deflection Track Point Loads:

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

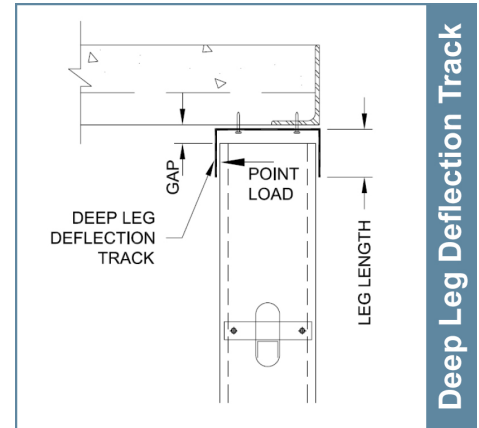
Table Notes:

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.

ASTM & Code Standards:

- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program and ICC-ES ESR-1166P
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs

05.40.00 (Cold-Formed Metal Framing)



Calculating slip track point load:

Point Load (P) =
 (wind pressure PSF) x (spacing FT) x (wall stud length FT) / 2

Example 1: (5 PSF) x (1.33 FT) x (9.5 FT) / 2 = 31.7 lbs.

Project Information

Name:
 Address:

Contractor Information

Name:
 Contact:
 Phone:
 Fax:

Architect Information

Name:
 Contact:
 Phone:
 Fax: