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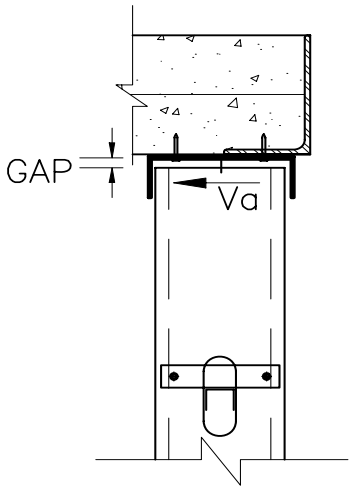
Stud Spacing (in)	16
Gap (in)	0.75
Track Leg Length (in)	2.5
Ω (ASD)	2.80

	25GA	22GA	20GA-D	20GA-S	18GA	16GA	14GA	12GA
t	0.0188	0.0283	0.0312	0.0346	0.0451	0.0566	0.0713	0.1017
Beff	16.00	16.00	16.00	16.00	15.45	12.57	10.50	8.44

Allowable Slip Track Point Load								
Yield Strength	**25GA**	**22GA**	**20GA-D**	**20GA-S**	**18GA**	**16GA**	**14GA**	**12GA**
33	22	50	61	75	123	158	N/A	N/A
50	N/A	N/A	N/A	N/A	187	240	318	519

beff = 0.11 x α^2 x (e^0.5 / t^1.5) + 5.5 x α ≤ S
Pn = (beff x t^2 x Fy)/(4 x e x Ω)
Track Leg Length = (2 * e) + 1

Where:
Pn = Nominal capacity of the slip track leg (kips)
beff = effective width of resisting track flange (in)
t = Nominal thickness of the slip track (in)
Fy = Yeild Strength of track (ksi)
e = Design slip track
α = conversion coefficient: 1.0 when e,t, and S are in (in)
25.4 when e,t, and S are in (mm)
Ω = ASD Factor of Safety 2.8
S = center-to-center spacing of studs (in)



Notes:
1. Values include 1/3 increase in allowable stress for short-term loading.
2. Install one row of lateral bracing within 12" of slip track to prevent studs from rotating.
3. Equations from LGSEA Tech Notes April 2004, and James Gerloff
2004 "Cold-Formed Steel Slip-Track Connection" Master Thesis
located at http://www.msoe.edu/~gerloffj

Calculations for slip track point load (Va in diagram above):
Va=(wind pressure psf)*(spacing ft)*(wall stud length ft)/2
EXAMPLE: (20psf)*(1.33')*(15.5')/2=206.2 #

Wind pressure	20	psf		
Stud Spacing	1.33	ft	(12"o.c.=1'; 16"o.c.=1.33'; ect.)	
Wall Stud Length	20	ft		
=	532	/ 2=	**266**	**Maximum allowable slip track point load (lb)**