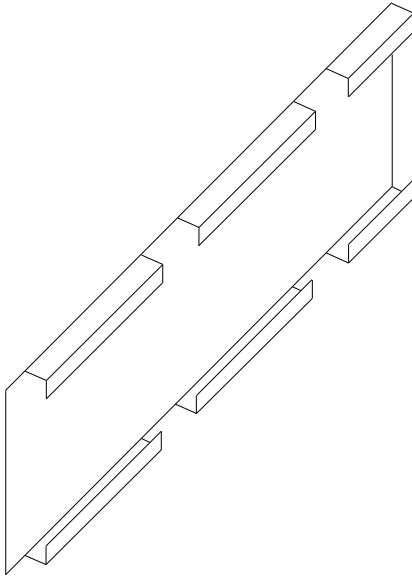
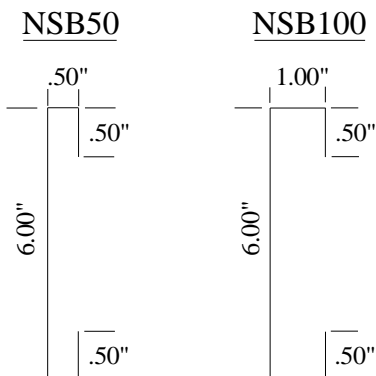




"NSB" Notched Strong Back

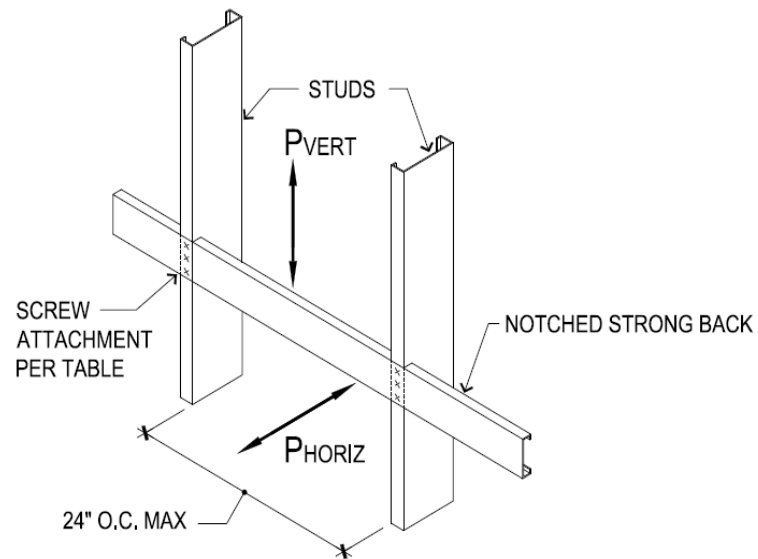


- ❖ "Low Profile" Accommodates Cavity Obstructions
- ❖ Return Lip for Increased Strength



- ❖ Reduced Field "Modifications" and Reinforcement of Field Cut Outs
- ❖ Fastener Attachment per Table

- ❖ Meets Requirements:
- ❖ ADAAG Section 4.26 - (Handrails, Grab Bars, Tub and Shower Seats)
- ❖ OSHA and ICC/A117.1 - Section 609 (Grab Bars) and 610 (Seats) Load Requirements
- ❖ OSHPD 2013 CBC - Standard Backing for Cabinet and Grab Bars (Details ST5.00, ST5.01 and ST5.03)



Patent Pending

- ❖ Notches Stock 16" O.C - (Custom Spacing and Lengths Available)
- ❖ Stock 20ga (33 mil) to 16ga (54 mil) Steel
- ❖ Other Sizes and Gauges available



Allowable Load Capacities

Profile	#10 Screw	Load Direction	Pmax (lb) @	Pmax (lb) @	Pmax (lb) @	Pmax (lb) @	Pmax (lb) @	Pmax (lb) @
			30mil Studs	30mil Studs	43mil Studs	43mil Studs	54mil Studs	54mil Studs
			16" O.C.	24" O.C.	16" O.C.	24" O.C.	16" O.C.	24" O.C.
600NSB50-33	2	Vertical	302	302	354	354	354	354
		Horizontal	84	56	84	56	84	56
600NSB50-33	3	Vertical	453	453	531	531	531	531
		Horizontal	84	56	84	56	84	56
600NSB50-43	3	Vertical	453	453	789	789	789	789
		Horizontal	105	72	105	72	105	72
600NSB50-43	4	Vertical	604	604	1052	1052	1052	1052
		Horizontal	105	72	105	72	105	72
600NSB100-43	3	Vertical	453	453	789	789	789	789
		Horizontal	228	188	282	188	282	188
600NSB100-43	4	Vertical	604	604	1052	1052	1052	1052
		Horizontal	282	188	282	188	282	188
600NSB50-54	3	Vertical	453	453	789	789	1500	1500
		Horizontal	189	128	189	128	189	128
600NSB50-54	4	Vertical	604	604	1052	1052	2000	1534
		Horizontal	189	128	189	128	189	128
600NSB100-54	3	Vertical	453	453	789	789	1500	1500
		Horizontal	228	228	327	327	513	340
600NSB100-54	4	Vertical	604	604	1052	1052	2000	2000
		Horizontal	304	304	436	340	513	340

Section Properties - Per AISI Design Criteria

Profile	Thickness	Thickness	Depth	Flange	Fy	Ixe (min)	Sxe (min)	Iye (min)	Sye (min)
	(ga)	(mils)	(in)	(in)	(ksi)	(in ⁴)	(in ³)	(in ⁴)	(in ³)
600NSB50-33	20	33	6	0.50	33	1.085	0.357	0.007	0.018
600NSB50-43	18	43	6	0.50	33	1.416	.0472	0.009	0.022
600NSB50-54	16	54	6	0.50	50	1.736	0.579	0.101	0.026
600NSB100-43	18	43	6	1.00	33	1.816	0.605	0.046	0.060
600NSB100-54	16	54	6	1.00	50	2.236	0.745	0.056	0.072

Table Notes:

1. Design thickness to be per SSMA; 33mil = 0.0346", 43mil = 0.0451", 54mil = 0.0566"
2. Capacities based on backing member properties only and do not consider stud capacity. Stud design by others.
3. Pmax (point load) is the maximum PVERT or PHORIZ load, and is assumed to act at the mid-span through the centroid (shear center) of the backing member.
4. Analysis assumes a maximum stud spacing of 16" or 24" O/C (refer to chart above)
5. Table values assume vertical and horizontal loads do not occur simultaneously (loads are assumed at worst case condition).
6. All calculations based on 2007 AISI.
7. Properties of NSB backing members for this table have been calculated using CFS version 7.0.0 (RSG Software).
8. Member Analysis assumes that the materials and protective coatings for the cold-formed steel used to manufacture the Notched Strong Back members matches the relevant ASTM requirements used for the production of SSMA members.
9. Minimum screw spacing and edge distance shall not be less than three times the nominal screw diameter (per SSMA)
For #10 screw $3 \times d = 3 \times 0.190" = 0.57"$
10. "Screw Quantity" indicates number of screws from backing to each stud and assumes no loading occurs at adjacent bay simultaneously
11. Screw manufacturer shall confirm that their screws meet the code allowable capacity indicated in the table. Screws shall be per ASTM C1002, or ASTM C954 with coating per ASTM F1941.
12. Architect or Engineer of record to determine profile required and verify adequate connection of profile, wall, and attachment to structure.