

**SUMMARY OF WEB CRIPPLING STRENGTH
DEEP-DEK® ACOUSTICAL FAMILY**

WEB CRIPPLING STRENGTH³, Pn/Ω - ASD (lb/ftw)

PROFILE	Deep-Dek 4.5 Acoustical				Deep-Dek 6 Acoustical				Deep-Dek 7.5 Acoustical			
	GAGE				GAGE				GAGE			
BEARING WIDTH												
N, EXTERIOR ¹ (in)	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]
1	375	645	1,008	1,542	352	613	964	1,484	332	584	926	1,433
1.5	423	723	1,123	1,708	397	686	1,074	1,643	374	654	1,031	1,587
2	463	788	1,219	1,847	433	748	1,166	1,778	398	714	1,120	1,716
2.5	499	846	1,304	1,970	441	803	1,248	1,896	405	766	1,198	1,831
3	531	898	1,381	2,082	447	843	1,321	2,003	411	788	1,269	1,934
4	588	990	1,518	2,279	460	863	1,438	2,193	422	807	1,360	2,117
4.5	614	1,032	1,580	2,368	465	873	1,452	2,279	428	816	1,373	2,201
5	638	1,071	1,638	2,453	470	881	1,465	2,360	432	824	1,385	2,256
5.5	662	1,109	1,694	2,533	475	890	1,478	2,385	437	832	1,397	2,274
6	684	1,145	1,747	2,610	480	898	1,490	2,403	441	840	1,409	2,291
BEARING WIDTH												
N, INTERIOR ² (in)	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]	20 [0.0358 IN]	18 [0.0474 IN]	16 [0.0598 IN]	14 [0.0747 IN]
3	673	1,120	1,706	2,554	671	1,117	1,703	2,550	683	1,134	1,725	2,580
3.5	706	1,172	1,782	2,662	705	1,169	1,778	2,658	717	1,187	1,802	2,689
4	737	1,221	1,853	2,763	736	1,218	1,849	2,758	748	1,236	1,873	2,790
4.5	767	1,267	1,919	2,858	765	1,264	1,915	2,852	778	1,282	1,940	2,886
5	794	1,310	1,982	2,947	792	1,307	1,978	2,942	806	1,326	2,004	2,976
5.5	820	1,351	2,042	3,032	818	1,348	2,037	3,026	832	1,368	2,064	3,062
6	845	1,391	2,099	3,113	843	1,387	2,094	3,107	858	1,408	2,122	3,144

NOTE:

- 1) Based on Fastened Exterior One Flange (EOF) loading as described in AISI 2001, Supplement 2004.
- 2) Based on Fastened Interior One Flange (IOF) loading as described in AISI 2001, Supplement 2004.
- 3) Values tabulated are based on ASD design. For LRFD use the following conversion factors; $EOF_{LRFD} = [EOF_{ASD} \times 0.9 \times 1.7]$, $IOF_{LRFD} = [IOF_{ASD} \times 0.85 \times 1.75]$
For LSD use the following conversion factors; $EOF_{LSD} = [EOF_{ASD} \times 0.8 \times 1.7]$, $IOF_{LSD} = [IOF_{ASD} \times 0.75 \times 1.75]$

REFERENCE:

- 1.) AISI North American Specification for the Design of Cold-Formed Steel Structural Members, 2004 Supplement: Section C3.4, Web Crippling

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