

Deep-Dek® 4.5 Cellular



a unit of **CSI**

Allowable Diaphragm Shear

SUPPORT CONNECTION: 1/2" Effective Weld Diameter			S = Allowable Diaphragm Shear (lbs/foot)							
SIDELAP CONNECTION: 1-1/2" Seam Welds			G' = Stiffness Factor (kips/in.)							
ATTACHMENT PATTERN: 24 / 3										
GAGE	SIDE LAP SPACING	FACTOR	DECK SPAN - C to C SUPPORT							
			12' - 0"	14' - 0"	16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"
20/20 0.0358" / 0.0358"	12"	S	1878	1834	1800	1773	1752	1680*	1412*	1203*
		G'	84.6	92.5	99.3	105.4	110.9	115.8	120.2	124.1
	18"	S	1499	1444	1403	1370	1343	1321	1303	1203*
		G'	77.4	83.5	88.7	93.1	97.0	100.5	103.5	106.2
	24"	S	1278	1219	1174	1138	1109	1085	1065	1048
		G'	72.0	76.9	80.9	84.2	87.1	89.6	91.8	93.7
20/18 0.0358" / 0.0474"	12"	S	2218	2166	2127	2095	2069	1782*	1498*	1276*
		G'	129.3	136.1	141.7	146.3	150.2	153.5	156.4	159.0
	18"	S	1770	1706	1657	1618	1587	1561	1498*	1276*
		G'	111.0	115.1	118.3	120.8	122.9	124.6	126.1	127.3
	24"	S	1510	1440	1386	1344	1310	1282	1258	1238
		G'	98.9	101.3	103.0	104.4	105.4	106.2	106.9	107.4
18/20 0.0474" / 0.0358"	12"	S	2218	2166	2127	2095	2069	2048	2030	1733*
		G'	82.7	91.7	99.7	107.0	113.7	119.8	125.4	130.5
	18"	S	1770	1706	1657	1618	1587	1561	1539	1520
		G'	77.4	84.8	91.4	97.2	102.4	107.1	111.3	115.1
	24"	S	1510	1440	1386	1344	1310	1282	1258	1238
		G'	73.3	79.6	85.0	89.7	93.9	97.5	100.8	103.7
18/18 0.0474" / 0.0474"	12"	S	2543	2483	2438	2401	2372	2347	2156*	1838*
		G'	136.8	146.2	154.2	161.0	166.9	172.0	176.5	180.5
	18"	S	2029	1956	1900	1855	1819	1789	1764	1743
		G'	120.9	127.4	132.6	137.0	140.7	143.8	146.5	148.8
	24"	S	1731	1651	1589	1541	1501	1469	1442	1419
		G'	109.8	114.3	117.9	120.7	123.0	124.9	126.5	127.9
18/16 0.0474" / 0.0598"	12"	S	2832	2765	2714	2674	2641	2614	2267*	1931*
		G'	178.9	185.6	190.9	195.2	198.8	201.8	204.3	206.5
	18"	S	2260	2178	2115	2066	2025	1992	1964	1931*
		G'	149.9	153.2	155.7	157.6	159.1	160.3	161.3	162.1
	24"	S	1928	1838	1770	1716	1672	1636	1606	1580
		G'	131.4	132.8	133.6	134.2	134.6	134.8	135.0	135.1
16/18 0.0598" / 0.0474"	12"	S	2832	2765	2714	2674	2641	2614	2591	2484*
		G'	139.7	151.3	161.3	170.1	177.8	184.6	190.7	196.2
	18"	S	2260	2178	2115	2066	2025	1992	1964	1941
		G'	126.2	134.9	142.2	148.3	153.6	158.2	162.2	165.8
	24"	S	1928	1838	1770	1716	1672	1636	1606	1580
		G'	116.5	123.1	128.5	132.9	136.6	139.8	142.5	144.9
16/16 0.0598" / 0.0598"	12"	S	3110	3038	2982	2937	2901	2871	2846	2611*
		G'	193.3	203.0	210.9	217.4	222.9	227.6	231.7	235.2
	18"	S	2482	2392	2323	2269	2225	2188	2158	2132
		G'	165.8	171.6	176.0	179.6	182.4	184.8	186.8	188.6
	24"	S	2117	2019	1944	1884	1836	1797	1764	1735
		G'	147.6	150.9	153.3	155.1	156.5	157.6	158.5	159.2
16/14 0.0598" / 0.0747"	12"	S	3432	3351	3290	3241	3201	3168	3140	2742*
		G'	232.9	238.3	242.5	245.8	248.4	250.6	252.4	254.0
	18"	S	2739	2639	2563	2503	2455	2414	2381	2352
		G'	190.4	192.1	193.3	194.0	194.6	195.0	195.3	195.6
	24"	S	2336	2228	2145	2079	2026	1983	1946	1915
		G'	164.4	164.0	163.6	163.0	162.5	162.0	161.6	161.2
14/16 0.0747" / 0.0598"	12"	S	3432	3351	3290	3241	3201	3168	3140	3117
		G'	203.9	216.7	227.5	236.5	244.3	251.0	256.9	262.1
	18"	S	2739	2639	2563	2503	2455	2414	2381	2352
		G'	178.9	187.4	194.2	199.8	204.5	208.4	211.8	214.7
	24"	S	2336	2228	2145	2079	2026	1983	1946	1915
		G'	161.6	167.4	171.8	175.2	178.0	180.3	182.2	183.8
14/14 0.0747" / 0.0747"	12"	S	3739	3651	3584	3530	3487	3451	3421	3395
		G'	258.0	266.7	273.5	279.0	283.5	287.3	290.5	293.3
	18"	S	2984	2875	2793	2727	2674	2630	2594	2562
		G'	215.4	219.4	222.4	224.6	226.4	227.8	228.9	229.8
	24"	S	2545	2427	2336	2265	2207	2160	2120	2086
		G'	188.4	189.7	190.5	190.9	191.2	191.3	191.4	191.4

NOTES: Data is prepared in accordance with SDI's DIAPHRAGM DESIGN MANUAL, DDM03
 S values have been divided by a Safety Factor of 3 to obtain (ASD) Diaphragm Shear values for seismic loading (worst case).
 The following Safety Factors shown are from Table D5 of 2004 Supplement AISI Specifications.
Seismic: $\phi = .55$ for LRFD and $\Omega = 3.00$ for ASD for welds.
Wind: $\phi = .70$ for LRFD and $\Omega = 2.35$ for ASD for welds.
Other: $\phi = .60$ for LRFD and $\Omega = 2.65$ for ASD for welds.
 Calculations are based on a "SINGLE SPAN CONDITION". For "Other Span Conditions" contact the Metal Dek Group for additional information.
 $F_y = 40$ ksi and $F_u = 55$ ksi
 * Indicates Shear Buckling controls. A Safety Factor of 2.00 was used as referenced in SDI DDM03.

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Allowable Diaphragm Shear

SUPPORT CONNECTION: 1/2" Effective Weld Diameter		S = Allowable Diaphragm Shear (lbs/foot)								
SIDELAP CONNECTION: S/L Screws #10		G' = Stiffness Factor (kips/in.)								
ATTACHMENT PATTERN: 24 / 3										
GAGE	SIDE LAP SPACING	FACTOR	DECK SPAN - C to C SUPPORT							
			12' - 0"	14' - 0"	16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"
20/20 0.0358" / 0.0358"	6"	S	875	824	785	755	731	711	694	680
		G'	80.4	87.4	93.4	98.8	103.5	107.7	111.5	114.9
	12"	S	637	584	543	512	487	466	449	434
		G'	66.4	70.4	73.6	76.3	78.6	80.6	82.3	83.8
	24"	S	514	460	419	387	361	340	323	308
		G'	53.2	54.6	55.6	56.4	56.9	57.2	57.5	57.7
20/18 0.0358" / 0.0474"	6"	S	1102	1042	997	961	933	909	890	873
		G'	118.3	123.8	128.4	132.1	135.2	137.9	140.2	142.2
	12"	S	790	727	679	642	612	587	567	550
		G'	87.2	88.8	90.0	90.9	91.6	92.2	92.6	93.0
	24"	S	628	564	515	477	447	422	401	383
		G'	63.4	62.6	61.9	61.2	60.5	60.0	59.4	59.0
18/20 0.0474" / 0.0358"	6"	S	945	884	839	803	774	750	730	713
		G'	79.6	87.8	95.2	101.8	107.7	113.2	118.2	122.7
	12"	S	705	642	594	557	527	503	483	465
		G'	68.8	74.2	78.8	82.8	86.3	89.3	92.0	94.4
	24"	S	581	517	469	432	402	377	357	339
		G'	57.6	60.4	62.5	64.2	65.5	66.6	67.5	68.2
18/18 0.0474" / 0.0474"	6"	S	1170	1101	1049	1008	975	948	925	906
		G'	127.3	135.3	142.1	147.8	152.7	156.9	160.6	163.9
	12"	S	855	782	728	685	651	623	599	580
		G'	98.7	102.1	104.8	106.9	108.6	110.0	111.2	112.2
	24"	S	692	618	563	520	485	457	433	413
		G'	74.7	74.9	74.9	74.7	74.4	74.1	73.8	73.5
18/16 0.0474" / 0.0598"	6"	S	1397	1321	1263	1218	1181	1151	1126	1105
		G'	161.2	166.5	170.7	174.0	176.8	179.1	181.0	182.7
	12"	S	1003	923	862	814	776	745	718	696
		G'	114.1	114.9	115.3	115.6	115.7	115.8	115.8	115.9
	24"	S	799	717	655	606	567	536	509	486
		G'	80.6	78.7	77.2	75.8	74.6	73.6	72.7	72.0
16/18 0.0598" / 0.0474"	6"	S	1230	1152	1094	1048	1011	981	956	934
		G'	131.7	141.9	150.7	158.2	164.8	170.7	175.8	180.5
	12"	S	912	832	771	724	686	654	628	606
		G'	106.4	111.7	116.0	119.5	122.4	124.8	126.9	128.7
	24"	S	749	667	606	558	519	488	461	439
		G'	83.5	85.0	85.9	86.4	86.7	86.9	87.0	87.1
16/16 0.0598" / 0.0598"	6"	S	1456	1371	1307	1257	1217	1184	1156	1133
		G'	176.7	184.7	191.1	196.3	200.7	204.4	207.6	210.4
	12"	S	1059	970	904	851	809	775	746	722
		G'	130.1	132.4	134.0	135.2	136.1	136.8	137.4	137.8
	24"	S	854	764	696	643	600	566	536	512
		G'	94.5	93.3	92.1	90.9	89.9	89.0	88.2	87.5
16/14 0.0598" / 0.0747"	6"	S	1723	1630	1560	1506	1461	1425	1395	1369
		G'	206.7	210.8	213.9	216.4	218.3	219.9	221.3	222.4
	12"	S	1232	1134	1061	1003	957	918	887	860
		G'	140.8	140.2	139.5	138.9	138.4	137.9	137.5	137.1
	24"	S	977	877	802	743	696	657	625	598
		G'	96.7	93.7	91.2	89.1	87.4	86.0	84.7	83.6
14/16 0.0747" / 0.0598"	6"	S	1522	1429	1358	1302	1258	1221	1191	1165
		G'	188.9	199.8	208.8	216.3	222.7	228.2	233.0	237.2
	12"	S	1122	1025	952	894	848	810	779	752
		G'	144.6	148.8	152.1	154.6	156.6	158.3	159.6	160.8
	24"	S	917	818	743	685	638	600	568	541
		G'	108.3	108.1	107.6	107.0	106.3	105.7	105.1	104.6
14/14 0.0747" / 0.0747"	6"	S	1787	1686	1610	1550	1501	1462	1429	1400
		G'	232.0	238.8	244.1	248.3	251.8	254.7	257.1	259.2
	12"	S	1293	1187	1107	1044	993	952	918	888
		G'	163.3	163.9	164.1	164.2	164.2	164.2	164.1	164.0
	24"	S	1037	929	847	784	732	691	656	626
		G'	114.8	111.9	109.5	107.4	105.7	104.2	102.9	101.7

NOTES: Data is prepared in accordance with SDI's DIAPHRAGM DESIGN MANUAL, DDM03
 S values have been divided by a Safety Factor of 3 to obtain (ASD) Diaphragm Shear values for seismic loading (worst case).
 The following Safety Factors shown are from Table D5 of 2004 Supplement AISI Specifications.
Seismic: $\phi = .55$ for LRFD and $\Omega = 3.00$ for ASD for welds.
Wind: $\phi = .70$ for LRFD and $\Omega = 2.35$ for ASD for welds.
Other: $\phi = .60$ for LRFD and $\Omega = 2.65$ for ASD for welds.
 Calculations are based on a "SINGLE SPAN CONDITION". For "Other Span Conditions" contact the Metal Dek Group for additional information.
 $F_y = 40$ ksi and $F_u = 55$ ksi
 * Indicates Shear Buckling controls. A Safety Factor of 2.00 was used as referenced in SDI DDM03.

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Allowable Diaphragm Shear

SUPPORT CONNECTION: 1/2" Effective Weld Diameter		S = Allowable Diaphragm Shear (lbs/foot)								
SIDELAP CONNECTION: 1-1/2" Seam Welds		G' = Stiffness Factor (kips/in.)								
ATTACHMENT PATTERN: 24 / 4										
GAGE	SIDE LAP SPACING	FACTOR	DECK SPAN - C to C SUPPORT							
			12' - 0"	14' - 0"	16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"
20/20 0.0358"/ 0.0358"	12"	S	2015	1961	1919	1887	1861	1680*	1412*	1203*
		G'	84.7	92.6	99.5	105.6	111.0	115.9	120.3	124.3
	18"	S	1567	1505	1458	1421	1392	1367	1347	1203*
		G'	77.5	83.6	88.8	93.3	97.2	100.6	103.7	106.4
	24"	S	1321	1256	1206	1167	1136	1111	1089	1071
		G'	72.2	77.1	81.1	84.5	87.3	89.8	92.0	93.9
20/18 0.0358"/ 0.0474"	12"	S	2380	2316	2268	2229	2156*	1782*	1498*	1276*
		G'	129.5	136.4	141.9	146.5	150.4	153.8	156.6	159.2
	18"	S	1851	1778	1723	1679	1644	1615	1498*	1276*
		G'	111.4	115.4	118.6	121.1	123.2	124.9	126.4	127.6
	24"	S	1561	1483	1425	1379	1342	1312	1286	1265
		G'	99.3	101.7	103.4	104.8	105.8	106.6	107.2	107.8
18/20 0.0474"/ 0.0358"	12"	S	2380	2316	2268	2229	2198	2173	2033*	1733*
		G'	82.8	91.7	99.8	107.1	113.8	119.9	125.5	130.6
	18"	S	1851	1778	1723	1679	1644	1615	1591	1570
		G'	77.5	84.9	91.5	97.3	102.5	107.2	111.4	115.3
	24"	S	1561	1483	1425	1379	1342	1312	1286	1265
		G'	73.4	79.7	85.2	89.9	94.1	97.7	101.0	103.9
18/18 0.0474"/ 0.0474"	12"	S	2728	2655	2599	2555	2520	2491	2156*	1838*
		G'	137.0	146.4	154.4	161.2	167.1	172.2	176.7	180.7
	18"	S	2122	2038	1975	1925	1884	1851	1823	1800
		G'	121.2	127.7	132.9	137.3	141.0	144.1	146.8	149.1
	24"	S	1789	1701	1633	1581	1539	1504	1475	1450
		G'	110.2	114.7	118.3	121.1	123.4	125.3	126.9	128.3
18/16 0.0474"/ 0.0598"	12"	S	3038	2957	2894	2846	2806	2697*	2267*	1931*
		G'	179.3	186.0	191.3	195.6	199.1	202.1	204.6	206.8
	18"	S	2363	2270	2199	2143	2098	2061	2031	1931*
		G'	150.4	153.7	156.2	158.0	159.5	160.7	161.7	162.5
	24"	S	1992	1894	1819	1760	1713	1675	1642	1615
		G'	132.0	133.4	134.2	134.7	135.1	135.3	135.4	135.5
16/18 0.0598"/ 0.0474"	12"	S	3038	2957	2894	2846	2806	2773	2746	2484*
		G'	139.8	151.5	161.5	170.3	178.0	184.8	190.9	196.4
	18"	S	2363	2270	2199	2143	2098	2061	2031	2004
		G'	126.5	135.2	142.4	148.6	153.9	158.5	162.5	166.0
	24"	S	1992	1894	1819	1760	1713	1675	1642	1615
		G'	116.8	123.5	128.9	133.3	137.0	140.2	142.9	145.2
16/16 0.0598"/ 0.0598"	12"	S	3337	3248	3179	3126	3082	3046	3016	2611*
		G'	193.7	203.4	211.3	217.8	223.3	227.9	232.0	235.5
	18"	S	2595	2493	2415	2354	2305	2264	2230	2202
		G'	166.4	172.1	176.5	180.0	182.9	185.3	187.3	189.0
	24"	S	2188	2080	1998	1934	1882	1839	1804	1773
		G'	148.3	151.6	153.9	155.7	157.1	158.1	159.0	159.7
16/14 0.0598"/ 0.0747"	12"	S	3682	3583	3508	3449	3401	3361	3218*	2742*
		G'	233.5	238.9	243.0	246.2	248.9	251.0	252.8	254.4
	18"	S	2863	2750	2665	2597	2543	2498	2461	2429
		G'	191.2	192.8	193.9	194.7	195.2	195.6	195.9	196.1
	24"	S	2414	2295	2204	2133	2076	2029	1990	1957
		G'	165.3	164.9	164.3	163.7	163.2	162.6	162.2	161.7
14/16 0.0747"/ 0.0598"	12"	S	3682	3583	3508	3449	3401	3361	3328	3300
		G'	204.2	217.1	227.8	236.9	244.6	251.4	257.2	262.4
	18"	S	2863	2750	2665	2597	2543	2498	2461	2429
		G'	179.3	187.9	194.7	200.3	205.0	208.9	212.2	215.1
	24"	S	2414	2295	2204	2133	2076	2029	1990	1957
		G'	162.3	168.0	172.4	175.8	178.6	180.9	182.8	184.3
14/14 0.0747"/ 0.0747"	12"	S	4011	3904	3821	3757	3705	3662	3625	3595
		G'	258.6	267.2	274.0	279.5	284.0	287.8	290.9	293.7
	18"	S	3119	2996	2903	2829	2770	2722	2681	2646
		G'	216.2	220.2	223.1	225.3	227.0	228.4	229.5	230.4
	24"	S	2630	2500	2401	2324	2262	2211	2168	2132
		G'	189.3	190.6	191.3	191.7	191.9	192.0	192.0	192.0

NOTES: Data is prepared in accordance with SDI's DIAPHRAGM DESIGN MANUAL, DDM03
 S values have been divided by a Safety Factor of 3 to obtain (ASD) Diaphragm Shear values for seismic loading (worst case).
 The following Safety Factors shown are from Table D5 of 2004 Supplement AISI Specifications.
Seismic: $\phi = .55$ for LRFD and $\Omega = 3.00$ for ASD for welds.
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Other: $\phi = .60$ for LRFD and $\Omega = 2.65$ for ASD for welds.
 Calculations are based on a "SINGLE SPAN CONDITION". For "Other Span Conditions" contact the Metal Dek Group for additional information.
 $F_y = 40$ ksi and $F_u = 55$ ksi

* Indicates Shear Buckling controls. A Safety Factor of 2.00 was used as referenced in SDI DDM03.

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Allowable Diaphragm Shear

SUPPORT CONNECTION: 1/2" Effective Weld Diameter		S = Allowable Diaphragm Shear (lbs/foot)								
SIDELAP CONNECTION: S/L Screws #10		G' = Stiffness Factor (kips/in.)								
ATTACHMENT PATTERN: 24 / 4										
GAGE	SIDE LAP SPACING	FACTOR	DECK SPAN - C to C SUPPORT							
			12' - 0"	14' - 0"	16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"
20/20 0.0358"/ 0.0358"	6"	S	890	837	796	765	740	719	702	687
		G'	80.5	87.5	93.6	98.9	103.7	107.9	111.7	115.1
	12"	S	644	590	548	516	490	469	452	437
		G'	66.6	70.6	73.9	76.6	78.9	80.9	82.6	84.0
	24"	S	519	464	422	390	364	343	325	310
		G'	53.6	55.1	56.1	56.8	57.3	57.6	57.9	58.1
20/18 0.0358"/ 0.0474"	6"	S	1123	1060	1012	975	946	921	901	883
		G'	118.6	124.1	128.7	132.4	135.5	138.1	140.4	142.4
	12"	S	800	735	686	648	617	592	571	553
		G'	87.7	89.3	90.5	91.4	92.1	92.6	93.0	93.3
	24"	S	634	569	519	481	450	424	403	385
		G'	64.1	63.3	62.5	61.8	61.1	60.5	59.9	59.4
18/20 0.0474"/ 0.0358"	6"	S	959	896	849	812	782	757	737	720
		G'	79.7	87.9	95.3	101.9	107.9	113.3	118.3	122.8
	12"	S	712	648	599	562	531	506	486	468
		G'	69.0	74.4	79.1	83.1	86.5	89.6	92.3	94.7
	24"	S	587	522	473	435	405	380	359	341
		G'	58.0	60.8	62.9	64.6	65.9	67.0	67.9	68.6
18/18 0.0474"/ 0.0474"	6"	S	1190	1118	1063	1020	986	958	935	915
		G'	127.5	135.6	142.4	148.1	152.9	157.2	160.9	164.2
	12"	S	864	790	734	691	656	627	603	583
		G'	99.2	102.6	105.3	107.4	109.1	110.5	111.6	112.6
	24"	S	699	624	568	524	489	460	436	415
		G'	75.5	75.7	75.6	75.3	75.0	74.7	74.4	74.1
18/16 0.0474"/ 0.0598"	6"	S	1423	1343	1282	1235	1197	1166	1140	1118
		G'	161.7	167.0	171.1	174.4	177.2	179.5	181.4	183.1
	12"	S	1015	932	870	821	782	750	723	701
		G'	114.9	115.6	116.0	116.2	116.3	116.3	116.3	116.3
	24"	S	807	723	660	611	571	539	512	489
		G'	81.6	79.7	78.0	76.6	75.4	74.3	73.4	72.6
16/18 0.0598"/ 0.0474"	6"	S	1249	1168	1107	1060	1022	991	965	943
		G'	132.0	142.2	150.9	158.5	165.1	170.9	176.1	180.7
	12"	S	922	840	778	729	691	659	632	610
		G'	106.9	112.2	116.5	119.9	122.8	125.2	127.3	129.1
	24"	S	756	673	611	562	523	491	464	442
		G'	84.3	85.7	86.6	87.1	87.4	87.6	87.7	87.7
16/16 0.0598"/ 0.0598"	6"	S	1481	1393	1326	1274	1232	1198	1169	1145
		G'	177.2	185.1	191.5	196.7	201.1	204.8	208.0	210.8
	12"	S	1071	980	912	858	816	781	751	727
		G'	130.9	133.1	134.7	135.8	136.7	137.4	137.9	138.3
	24"	S	862	770	701	648	605	569	540	515
		G'	95.6	94.3	93.0	91.8	90.8	89.8	88.9	88.2
16/14 0.0598"/ 0.0747"	6"	S	1756	1659	1585	1528	1482	1444	1412	1386
		G'	207.5	211.5	214.5	216.9	218.8	220.4	221.7	222.8
	12"	S	1247	1147	1071	1012	964	925	893	866
		G'	141.8	141.1	140.4	139.7	139.1	138.6	138.1	137.7
	24"	S	987	885	809	749	701	662	629	601
		G'	98.0	94.8	92.2	90.1	88.3	86.8	85.4	84.3
14/16 0.0747"/ 0.0598"	6"	S	1547	1449	1375	1318	1272	1234	1203	1176
		G'	189.3	200.2	209.2	216.7	223.1	228.6	233.4	237.6
	12"	S	1135	1035	960	901	854	816	784	756
		G'	145.3	149.6	152.8	155.3	157.3	158.9	160.2	161.3
	24"	S	926	825	749	690	643	604	572	544
		G'	109.4	109.1	108.6	107.9	107.3	106.6	106.0	105.4
14/14 0.0747"/ 0.0747"	6"	S	1820	1713	1633	1571	1520	1479	1445	1416
		G'	232.7	239.5	244.7	248.9	252.4	255.2	257.6	259.7
	12"	S	1308	1199	1117	1053	1001	959	924	894
		G'	164.4	164.9	165.1	165.1	165.1	164.9	164.8	164.7
	24"	S	1048	937	854	789	738	695	660	629
		G'	116.2	113.2	110.7	108.5	106.7	105.1	103.7	102.5

NOTES: Data is prepared in accordance with SDI's DIAPHRAGM DESIGN MANUAL, DDM03
 S values have been divided by a Safety Factor of 3 to obtain (ASD) Diaphragm Shear values for seismic loading (worst case).
 The following Safety Factors shown are from Table D5 of 2004 Supplement AISI Specifications.
Seismic: $\phi = .55$ for LRFD and $\Omega = 3.00$ for ASD for welds.
Wind: $\phi = .70$ for LRFD and $\Omega = 2.35$ for ASD for welds.
Other: $\phi = .60$ for LRFD and $\Omega = 2.65$ for ASD for welds.
 Calculations are based on a "SINGLE SPAN CONDITION". For "Other Span Conditions" contact the Metal Dek Group for additional information.
 $F_y = 40$ ksi and $F_u = 55$ ksi
 * Indicates Shear Buckling controls. A Safety Factor of 2.00 was used as referenced in SDI DDM03.