

Deep-Dek® 7.5 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							
			16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"	28' - 0"	30' - 0"
18/20 0.0474"/ 0.0358"	12"	S	2127	2095	2069	2048	2030	2015	2001	1990
		G'	76.1	82.5	88.4	93.9	99.1	103.9	108.4	112.6
	18"	S	1657	1618	1587	1561	1539	1520	1504	1490
		G'	71.2	76.5	81.4	85.9	90.0	93.9	97.4	100.7
	24"	S	1386	1344	1310	1282	1258	1238	1220	1205
		G'	67.2	71.8	75.9	79.7	83.1	86.1	89.0	91.6
36"	S	1093	1048	1011	981	956	934	916	900	
	G'	61.4	64.9	67.9	70.6	72.9	75.0	76.9	78.6	
18/18 0.0474"/ 0.0474"	12"	S	2438	2401	2372	2347	2327	2309	2294	2281
		G'	127.2	134.3	140.6	146.1	151.1	155.6	159.7	163.4
	18"	S	1900	1855	1819	1789	1764	1743	1724	1708
		G'	112.1	117.2	121.5	125.2	128.5	131.5	134.1	136.4
	24"	S	1589	1541	1501	1469	1442	1419	1399	1382
		G'	101.4	105.0	108.1	110.7	112.9	114.9	116.6	118.1
36"	S	1253	1201	1159	1124	1095	1071	1050	1031	
	G'	87.1	89.0	90.6	91.8	92.8	93.6	94.3	94.9	
18/16 0.0474"/ 0.0598"	12"	S	2714	2674	2641	2614	2591	2572	2555	2540
		G'	168.2	173.6	178.2	182.1	185.5	188.5	191.1	193.4
	18"	S	2115	2066	2025	1992	1964	1941	1920	1902
		G'	140.2	143.2	145.6	147.6	149.3	150.8	152.0	153.1
	24"	S	1770	1716	1672	1636	1606	1580	1558	1539
		G'	122.1	123.6	124.8	125.7	126.5	127.1	127.7	128.1
36"	S	1395	1337	1291	1252	1220	1192	1169	1148	
	G'	99.9	99.9	99.7	99.6	99.3	99.1	98.9	98.7	
16/18 0.0598"/ 0.0474"	12"	S	2714	2674	2641	2614	2591	2572	2555	2540
		G'	129.2	137.7	145.4	152.3	158.6	164.3	169.5	174.4
	18"	S	2115	2066	2025	1992	1964	1941	1920	1902
		G'	116.6	123.1	128.8	133.8	138.3	142.4	146.1	149.4
	24"	S	1770	1716	1672	1636	1606	1580	1558	1539
		G'	107.2	112.3	116.6	120.4	123.8	126.7	129.3	131.7
36"	S	1395	1337	1291	1252	1220	1192	1169	1148	
	G'	94.3	97.4	100.1	102.3	104.1	105.7	107.1	108.3	
16/16 0.0598"/ 0.0598"	12"	S	2982	2937	2901	2871	2846	2825	2806	2790
		G'	180.6	188.2	194.7	200.3	205.2	209.6	213.5	216.9
	18"	S	2323	2269	2225	2188	2158	2132	2109	2090
		G'	154.4	159.1	163.1	166.4	169.3	171.7	173.9	175.8
	24"	S	1944	1884	1836	1797	1764	1735	1711	1690
		G'	136.7	139.6	142.0	144.0	145.7	147.1	148.3	149.3
36"	S	1533	1469	1418	1375	1340	1310	1284	1261	
	G'	114.2	115.1	115.8	116.2	116.6	116.8	117.0	117.1	
16/14 0.0598"/ 0.0747"	12"	S	3290	3241	3201	3168	3140	3117	3096	3078
		G'	219.8	224.5	228.4	231.7	234.5	236.9	238.9	240.8
	18"	S	2563	2503	2455	2414	2381	2352	2327	2306
		G'	178.6	180.6	182.1	183.4	184.4	185.3	186.0	186.6
	24"	S	2145	2079	2026	1983	1946	1915	1888	1865
		G'	152.9	153.4	153.7	153.9	154.0	154.1	154.1	154.1
36"	S	1691	1621	1564	1517	1478	1445	1416	1391	
	G'	122.7	121.6	120.6	119.8	119.0	118.2	117.6	117.0	
14/16 0.0747"/ 0.0598"	12"	S	3290	3241	3201	3168	3140	3117	3096	3078
		G'	189.4	199.1	207.6	215.1	221.8	227.7	233.1	237.9
	18"	S	2563	2503	2455	2414	2381	2352	2327	2306
		G'	165.8	172.5	178.1	183.0	187.3	191.1	194.4	197.4
	24"	S	2145	2079	2026	1983	1946	1915	1888	1865
		G'	149.1	153.8	157.7	161.0	163.8	166.2	168.3	170.2
36"	S	1691	1621	1564	1517	1478	1445	1416	1391	
	G'	127.2	129.5	131.3	132.6	133.8	134.7	135.4	136.0	
14/14 0.0747"/ 0.0747"	12"	S	3584	3530	3487	3451	3421	3395	3373	3354
		G'	242.1	249.2	255.2	260.3	264.6	268.4	271.7	274.7
	18"	S	2793	2727	2674	2630	2594	2562	2535	2512
		G'	201.2	204.9	207.9	210.4	212.5	214.3	215.8	217.1
	24"	S	2336	2265	2207	2160	2120	2086	2057	2031
		G'	174.7	176.5	177.9	178.9	179.8	180.5	181.0	181.5
36"	S	1842	1766	1704	1653	1610	1574	1543	1516	
	G'	142.6	142.3	141.8	141.4	140.9	140.5	140.1	139.7	

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: S/L Screws #10			G' = Stiffness Factor (kips/in.)							
ATTACHMENT PATTERN: 24 / 3										
GAGE	SIDE LAP SPACING	FACTOR	DECK SPAN - C to C SUPPORT							
			16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"	28' - 0"	30' - 0"
18/20 0.0474"/ 0.0358"	6"	S	839	803	774	750	730	713	699	686
		G'	73.4	79.3	84.8	89.8	94.5	98.8	102.9	106.7
	12"	S	594	557	527	503	483	465	450	438
		G'	63.3	67.3	70.9	74.1	77.0	79.6	82.0	84.2
	18"	S	511	474	444	419	399	381	366	353
		G'	56.8	59.7	62.2	64.4	66.3	68.0	69.5	70.8
	24"	S	469	432	402	377	357	339	324	311
		G'	52.3	54.5	56.2	57.7	59.0	60.1	61.1	61.9
18/18 0.0474"/ 0.0474"	6"	S	1049	1008	975	948	925	906	889	875
		G'	118.8	125.0	130.3	135.1	139.3	143.1	146.5	149.6
	12"	S	728	685	651	623	599	580	563	548
		G'	91.6	94.4	96.8	98.8	100.6	102.1	103.4	104.5
	18"	S	618	575	541	512	489	469	451	437
		G'	77.0	78.3	79.4	80.2	80.9	81.4	81.9	82.3
	24"	S	563	520	485	457	433	413	396	381
		G'	67.9	68.4	68.7	68.9	69.0	69.0	69.1	69.1
18/16 0.0474"/ 0.0598"	6"	S	1263	1218	1181	1151	1126	1105	1086	1071
		G'	152.2	156.6	160.3	163.4	166.1	168.4	170.5	172.3
	12"	S	862	814	776	745	718	696	677	661
		G'	106.6	107.6	108.4	109.0	109.5	109.9	110.3	110.6
	18"	S	724	676	637	606	579	557	537	521
		G'	85.4	85.2	84.9	84.7	84.4	84.2	83.9	83.7
	24"	S	655	606	567	536	509	486	467	450
		G'	73.2	72.3	71.5	70.8	70.2	69.6	69.1	68.7
16/18 0.0598"/ 0.0474"	6"	S	1094	1048	1011	981	956	934	916	900
		G'	122.3	129.8	136.6	142.7	148.1	153.1	157.6	161.8
	12"	S	771	724	686	654	628	606	587	571
		G'	98.4	102.5	106.1	109.1	111.8	114.1	116.2	118.1
	18"	S	661	613	575	544	517	495	476	459
		G'	84.7	87.1	89.1	90.7	92.1	93.2	94.2	95.1
	24"	S	606	558	519	488	461	439	420	403
		G'	75.8	77.2	78.2	79.0	79.7	80.2	80.6	80.9
16/16 0.0598"/ 0.0598"	6"	S	1307	1257	1217	1184	1156	1133	1113	1095
		G'	165.9	172.2	177.5	182.1	186.2	189.7	192.8	195.6
	12"	S	904	851	809	775	746	722	701	683
		G'	121.1	123.3	125.0	126.4	127.6	128.6	129.5	130.2
	18"	S	765	713	670	636	607	582	561	543
		G'	99.0	99.5	99.8	100.0	100.1	100.2	100.2	100.2
	24"	S	696	643	600	566	536	512	491	472
		G'	85.8	85.4	85.0	84.5	84.1	83.7	83.3	83.0
16/14 0.0598"/ 0.0747"	6"	S	1560	1506	1461	1425	1395	1369	1347	1328
		G'	196.1	199.7	202.7	205.2	207.4	209.2	210.7	212.1
	12"	S	1061	1003	957	918	887	860	837	817
		G'	131.7	131.9	132.0	132.0	132.0	131.9	131.9	131.8
	18"	S	889	830	783	745	713	686	662	642
		G'	103.6	102.6	101.7	100.9	100.2	99.5	99.0	98.5
	24"	S	802	743	696	657	625	598	574	554
		G'	87.8	86.2	84.8	83.6	82.6	81.7	80.9	80.2
14/16 0.0747"/ 0.0598"	6"	S	1358	1302	1258	1221	1191	1165	1142	1123
		G'	176.3	184.6	191.8	198.1	203.7	208.7	213.2	217.2
	12"	S	952	894	848	810	779	752	729	709
		G'	134.1	137.7	140.7	143.2	145.3	147.1	148.7	150.1
	18"	S	813	755	709	670	639	612	588	568
		G'	111.9	113.4	114.6	115.5	116.2	116.8	117.2	117.6
	24"	S	743	685	638	600	568	541	518	498
		G'	98.2	98.6	98.7	98.8	98.7	98.7	98.5	98.4
14/14 0.0747"/ 0.0747"	6"	S	1610	1550	1501	1462	1429	1400	1376	1355
		G'	218.8	224.5	229.2	233.2	236.6	239.6	242.2	244.5
	12"	S	1107	1044	993	952	918	888	863	841
		G'	152.3	153.5	154.3	155.0	155.5	155.9	156.3	156.5
	18"	S	934	871	820	778	743	714	688	666
		G'	121.7	121.2	120.6	120.1	119.6	119.2	118.8	118.4
	24"	S	847	784	732	691	656	626	600	578
		G'	104.1	102.7	101.5	100.4	99.4	98.5	97.8	97.1

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.

Deep-Dek® 7.5 Cellular



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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							
			16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"	28' - 0"	30' - 0"
18/20 0.0474"/ 0.0358"	12"	S	2268	2229	2198	2173	2151	2133	2117	2104
		G'	76.2	82.5	88.5	94.0	99.1	103.9	108.4	112.7
	18"	S	1723	1679	1644	1615	1591	1570	1553	1537
		G'	71.2	76.6	81.5	86.0	90.1	94.0	97.5	100.8
	24"	S	1425	1379	1342	1312	1286	1265	1246	1230
		G'	67.3	71.9	76.1	79.8	83.2	86.3	89.1	91.7
36"	S	1113	1065	1027	995	969	946	927	911	
	G'	61.6	65.1	68.1	70.8	73.1	75.2	77.1	78.8	
18/18 0.0474"/ 0.0474"	12"	S	2599	2555	2520	2491	2466	2445	2427	2411
		G'	127.3	134.4	140.7	146.3	151.3	155.8	159.8	163.5
	18"	S	1975	1925	1884	1851	1823	1800	1780	1762
		G'	112.4	117.4	121.7	125.5	128.8	131.7	134.3	136.6
	24"	S	1633	1581	1539	1504	1475	1450	1429	1410
		G'	101.7	105.3	108.4	111.0	113.2	115.2	116.9	118.4
36"	S	1276	1221	1177	1141	1111	1085	1063	1044	
	G'	87.5	89.4	90.9	92.2	93.2	94.0	94.7	95.2	
18/16 0.0474"/ 0.0598"	12"	S	2894	2846	2806	2773	2746	2723	2703	2685
		G'	168.4	173.9	178.5	182.4	185.7	188.7	191.3	193.6
	18"	S	2199	2143	2098	2061	2031	2004	1982	1962
		G'	140.6	143.6	146.0	148.0	149.7	151.1	152.3	153.4
	24"	S	1819	1760	1713	1675	1642	1615	1591	1570
		G'	122.5	124.1	125.2	126.2	126.9	127.5	128.0	128.5
36"	S	1421	1360	1311	1270	1237	1208	1184	1162	
	G'	100.5	100.4	100.3	100.1	99.8	99.6	99.6	99.6	
16/18 0.0598"/ 0.0474"	12"	S	2894	2846	2806	2773	2746	2723	2703	2685
		G'	129.3	137.8	145.5	152.4	158.7	164.4	169.7	174.5
	18"	S	2199	2143	2098	2061	2031	2004	1982	1962
		G'	116.8	123.3	129.0	134.0	138.6	142.6	146.3	149.6
	24"	S	1819	1760	1713	1675	1642	1615	1591	1570
		G'	107.5	112.6	116.9	120.7	124.0	127.0	129.6	131.9
36"	S	1421	1360	1311	1270	1237	1208	1184	1162	
	G'	94.6	97.8	100.4	102.6	104.5	106.1	107.4	108.6	
16/16 0.0598"/ 0.0598"	12"	S	3179	3126	3082	3046	3016	2991	2969	2950
		G'	180.9	188.4	194.9	200.5	205.5	209.8	213.7	217.2
	18"	S	2415	2354	2305	2264	2230	2202	2177	2155
		G'	154.8	159.5	163.4	166.8	169.6	172.1	174.2	176.1
	24"	S	1998	1934	1882	1839	1804	1773	1747	1725
		G'	137.2	140.1	142.5	144.4	146.1	147.5	148.6	149.7
36"	S	1561	1493	1440	1395	1358	1327	1300	1277	
	G'	114.8	115.7	116.4	116.8	117.1	117.3	117.4	117.5	
16/14 0.0598"/ 0.0747"	12"	S	3508	3449	3401	3361	3328	3300	3275	3254
		G'	220.2	224.9	228.8	232.1	234.8	237.2	239.3	241.1
	18"	S	2665	2597	2543	2498	2461	2429	2402	2378
		G'	179.2	181.1	182.7	183.9	184.9	185.7	186.4	187.0
	24"	S	2204	2133	2076	2029	1990	1957	1928	1903
		G'	153.6	154.0	154.3	154.5	154.6	154.6	154.6	154.6
36"	S	1722	1648	1588	1539	1499	1464	1434	1408	
	G'	123.5	122.4	121.3	120.4	119.6	118.8	118.1	117.5	
14/16 0.0747"/ 0.0598"	12"	S	3508	3449	3401	3361	3328	3300	3275	3254
		G'	189.6	199.4	207.8	215.3	222.0	227.9	233.3	238.1
	18"	S	2665	2597	2543	2498	2461	2429	2402	2378
		G'	166.1	172.8	178.5	183.4	187.7	191.4	194.7	197.7
	24"	S	2204	2133	2076	2029	1990	1957	1928	1903
		G'	149.6	154.3	158.2	161.4	164.2	166.6	168.8	170.6
36"	S	1722	1648	1588	1539	1499	1464	1434	1408	
	G'	127.9	130.1	131.9	133.2	134.3	135.2	135.9	136.5	
14/14 0.0747"/ 0.0747"	12"	S	3821	3757	3705	3662	3625	3595	3568	3545
		G'	242.6	249.7	255.6	260.6	265.0	268.8	272.1	275.0
	18"	S	2903	2829	2770	2722	2681	2646	2616	2590
		G'	201.8	205.5	208.5	210.9	213.0	214.8	216.3	217.6
	24"	S	2401	2324	2262	2211	2168	2132	2100	2073
		G'	175.4	177.2	178.5	179.5	180.4	181.0	181.6	182.0
36"	S	1876	1795	1730	1677	1633	1595	1562	1534	
	G'	143.5	143.1	142.6	142.1	141.6	141.1	140.7	140.3	

NOTES: Data is prepared in accordance with SDI's DIAPHRAGM DESIGN MANUAL, DDM03
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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							
			16' - 0"	18' - 0"	20' - 0"	22' - 0"	24' - 0"	26' - 0"	28' - 0"	30' - 0"
18/20 0.0474"/ 0.0358"	6"	S	849	812	782	757	737	720	705	692
		G'	73.5	79.4	84.8	89.9	94.6	98.9	103.0	106.8
	12"	S	599	562	531	506	486	468	453	440
		G'	63.5	67.5	71.1	74.3	77.2	79.8	82.2	84.4
	18"	S	515	477	447	422	401	383	368	355
		G'	57.1	60.0	62.4	64.6	66.5	68.2	69.7	71.1
24"	S	473	435	405	380	359	341	326	313	
	G'	52.6	54.8	56.5	58.1	59.3	60.4	61.4	62.2	
18/18 0.0474"/ 0.0474"	6"	S	1063	1020	986	958	935	915	898	883
		G'	119.0	125.2	130.5	135.3	139.5	143.3	146.7	149.8
	12"	S	734	691	656	627	603	583	566	551
		G'	92.0	94.8	97.2	99.2	100.9	102.4	103.7	104.8
	18"	S	623	580	544	516	492	471	454	439
		G'	77.5	78.8	79.8	80.7	81.3	81.9	82.3	82.7
24"	S	568	524	489	460	436	415	398	383	
	G'	68.4	68.9	69.2	69.4	69.5	69.5	69.5	69.5	
18/16 0.0474"/ 0.0598"	6"	S	1282	1235	1197	1166	1140	1118	1099	1082
		G'	152.6	157.0	160.6	163.7	166.4	168.7	170.8	172.6
	12"	S	870	821	782	750	723	701	681	665
		G'	107.2	108.2	108.9	109.5	110.0	110.4	110.7	110.9
	18"	S	730	681	642	610	583	560	540	523
		G'	86.1	85.8	85.5	85.2	84.9	84.7	84.4	84.2
24"	S	660	611	571	539	512	489	470	453	
	G'	73.9	73.0	72.2	71.4	70.8	70.2	69.7	69.2	
16/18 0.0598"/ 0.0474"	6"	S	1107	1060	1022	991	965	943	924	907
		G'	122.4	130.0	136.8	142.8	148.3	153.3	157.8	161.9
	12"	S	778	729	691	659	632	610	591	574
		G'	98.7	102.9	106.4	109.5	112.1	114.5	116.5	118.4
	18"	S	666	618	579	547	520	498	479	462
		G'	85.2	87.6	89.5	91.1	92.5	93.7	94.6	95.5
24"	S	611	562	523	491	464	442	422	406	
	G'	76.4	77.7	78.8	79.6	80.2	80.7	81.1	81.4	
16/16 0.0598"/ 0.0598"	6"	S	1326	1274	1232	1198	1169	1145	1124	1106
		G'	166.2	172.5	177.8	182.4	186.4	190.0	193.1	195.9
	12"	S	912	858	816	781	751	727	705	687
		G'	121.7	123.8	125.5	126.9	128.1	129.1	129.9	130.6
	18"	S	772	718	675	640	610	586	564	546
		G'	99.7	100.2	100.4	100.6	100.7	100.7	100.7	100.7
24"	S	701	648	605	569	540	515	493	475	
	G'	86.6	86.2	85.7	85.2	84.8	84.3	83.9	83.5	
16/14 0.0598"/ 0.0747"	6"	S	1585	1528	1482	1444	1412	1386	1363	1343
		G'	196.6	200.2	203.2	205.7	207.8	209.6	211.1	212.5
	12"	S	1071	1012	964	925	893	866	842	822
		G'	132.5	132.6	132.6	132.6	132.6	132.5	132.4	132.3
	18"	S	896	837	789	750	717	690	666	645
		G'	104.5	103.4	102.4	101.6	100.8	100.1	99.5	99.0
24"	S	809	749	701	662	629	601	578	557	
	G'	88.7	87.1	85.6	84.4	83.3	82.3	81.5	80.8	
14/16 0.0747"/ 0.0598"	6"	S	1375	1318	1272	1234	1203	1176	1153	1133
		G'	176.6	184.9	192.1	198.4	204.0	209.0	213.4	217.4
	12"	S	960	901	854	816	784	756	733	713
		G'	134.6	138.2	141.2	143.7	145.8	147.6	149.2	150.6
	18"	S	820	761	713	675	642	615	592	571
		G'	112.6	114.1	115.3	116.1	116.8	117.4	117.8	118.2
24"	S	749	690	643	604	572	544	521	500	
	G'	99.1	99.4	99.5	99.5	99.5	99.3	99.2	99.0	
14/14 0.0747"/ 0.0747"	6"	S	1633	1571	1520	1479	1445	1416	1391	1369
		G'	219.3	225.0	229.7	233.7	237.1	240.0	242.6	244.9
	12"	S	1117	1053	1001	959	924	894	868	846
		G'	153.1	154.2	155.0	155.7	156.1	156.5	156.8	157.1
	18"	S	942	877	826	783	748	718	692	670
		G'	122.7	122.1	121.5	120.9	120.4	119.9	119.4	119.0
24"	S	854	789	738	695	660	629	604	581	
	G'	105.2	103.7	102.4	101.3	100.2	99.3	98.5	97.8	

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.