

**Super Versa-Dek® 6.5LS Acoustical
ALLOWABLE DIAPHRAGM SHEAR VALUES**

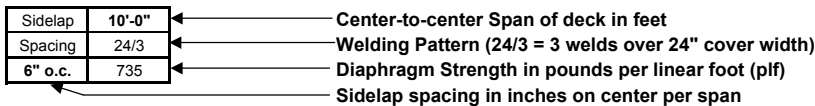


**5/8" DIAMETER PUDDLE WELDS AT SUPPORTS
WELDED SIDELAPS**

		20 Gauge Super Versa-Dek® 6.5LS Acoustical													
Sidelap Spacing		Span (ft), 24/3 Attachment Pattern													
o.c.	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"
6"	960	953	948	944	941	938	935	933	931	930	928	927	926	925	924
8"	906	895	887	880	874	870	865	862	859	856	853	851	849	847	846
10"	858	843	832	822	814	807	802	797	792	788	785	782	779	776	774
12"	816	798	783	771	761	753	745	739	734	729	724	721	717	714	711
15"	763	741	722	707	695	684	675	667	660	654	649	644	640	636	632
18"	721	695	674	656	642	630	619	610	602	595	589	583	578	574	570
20"	697	669	646	628	612	599	588	578	570	562	556	550	544	540	535
24"	659	627	602	581	564	549	537	526	517	509	501	495	489	484	479
30"	615	580	552	529	510	494	481	469	459	450	442	435	428	423	417
32"	604	568	539	514	493	476	462	450	439	430	423	416	410	404	399
36"	584	546	515	480	459	442	428	416	405	396	389	382	376	370	365

		18 Gauge Super Versa-Dek® 6.5LS Acoustical													
Sidelap Spacing		Span (ft), 24/3 Attachment Pattern													
o.c.	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"
6"	1231	1225	1221	1217	1214	1211	1209	1207	1205	1203	1201	1200	1199	1198	1197
8"	1151	1142	1135	1129	1123	1119	1114	1111	1108	1105	1102	1100	1098	1096	1094
10"	1079	1067	1057	1048	1040	1034	1028	1023	1019	1015	1011	1008	1005	1002	1000
12"	1016	1001	988	977	968	959	952	946	940	935	931	927	923	920	917
15"	938	918	902	888	876	866	857	849	842	836	831	825	821	817	813
18"	874	852	833	817	804	792	781	772	764	757	751	745	740	735	730
20"	839	815	795	778	763	750	739	730	721	713	706	700	695	689	685
24"	781	754	732	713	697	683	671	660	651	642	635	628	622	616	611
30"	717	687	663	642	624	609	595	584	573	564	556	548	542	536	530
32"	700	669	643	618	599	584	570	559	548	540	532	524	518	512	507
36"	670	636	599	573	555	539	526	515	504	495	488	480	474	468	463

		16 Gauge Super Versa-Dek® 6.5LS Acoustical													
Sidelap Spacing		Span (ft), 24/3 Attachment Pattern													
o.c.	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
6"	1507	1503	1499	1495	1492	1489	1487	1485	1483	1481	1480	1479	1477	1476	1475
8"	1401	1393	1387	1381	1376	1371	1367	1364	1361	1358	1355	1353	1351	1349	1347
10"	1305	1294	1284	1276	1269	1263	1258	1253	1248	1244	1240	1237	1234	1231	1229
12"	1220	1206	1194	1184	1176	1168	1161	1155	1149	1144	1139	1135	1131	1128	1125
15"	1113	1096	1082	1069	1058	1049	1040	1032	1025	1019	1013	1008	1003	999	995
18"	1028	1009	992	977	965	954	944	935	927	920	913	907	902	897	892
20"	981	960	942	926	913	901	890	881	872	864	857	851	845	840	835
24"	904	880	860	843	828	815	803	793	783	775	767	760	754	748	743
30"	818	792	770	752	735	721	708	697	686	677	669	661	654	648	642
32"	795	768	740	720	704	690	677	666	656	647	640	632	626	620	615
36"	751	714	685	666	649	635	623	612	602	593	585	578	572	566	560



Diaphragm design based on "Steel Deck Institute Diaphragm Design Manual, Third Edition". For diaphragm values of other roof deck assemblies, consult the SDI Diaphragm Design Manual or contact the Metal Dek Group™. All calculations are based on a "Single Span Condition". For "Multiple Spans", please contact the Metal Dek Group for additional information.

REV: 03/29/05

**Super Versa-Dek® 6.5LS Acoustical
ALLOWABLE DIAPHRAGM SHEAR VALUES**



**5/8" DIAMETER PUDDLE WELDS AT SUPPORTS
#10x3/4" SIDELAP SCREWS AT SIDELAPS**

Sidelap Spacing	20 Gauge Super Versa-Dek® 6.5LS Acoustical														
	Span (ft), 24/3 Attachment Pattern														
o.c.	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"
6"	733	713	697	684	673	664	656	650	644	639	634	630	627	623	621
8"	660	634	615	598	585	574	564	556	549	543	537	532	528	524	520
10"	607	579	556	538	523	510	499	490	482	475	469	463	458	454	450
12"	558	525	500	481	466	453	443	434	426	419	414	409	404	400	396
15"	493	460	435	416	400	388	377	368	361	354	348	343	339	335	331
18"	449	416	391	372	357	344	334	325	317	310	305	300	295	291	287
20"	427	394	369	350	335	322	312	303	295	289	283	278	273	269	266
24"	395	362	337	318	302	290	279	270	263	256	250	245	241	236	233
30"	362	329	304	285	269	257	246	237	230	223	217	212	208	204	200
32"	354	321	296	277	261	249	238	229	222	215	209	204	200	196	192
36"	340	307	282	263	248	235	225	216	208	201	196	191	186	182	178

Sidelap Spacing	18 Gauge Super Versa-Dek® 6.5LS Acoustical														
	Span (ft), 24/3 Attachment Pattern														
o.c.	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"
6"	913	896	882	871	861	852	845	838	833	828	823	819	815	812	808
8"	805	785	767	753	741	730	721	713	706	699	694	689	684	680	676
10"	729	705	686	670	656	644	634	624	616	609	603	597	592	587	583
12"	659	634	614	597	584	572	562	554	546	539	533	528	523	519	515
15"	572	547	527	511	497	485	476	467	459	453	447	442	437	433	429
18"	515	490	469	453	439	428	418	409	402	395	389	384	379	375	371
20"	486	461	441	424	410	399	389	380	373	366	360	355	350	346	342
24"	442	417	397	381	367	356	346	337	329	323	317	312	307	303	299
30"	399	374	354	338	324	312	302	294	286	280	274	268	264	259	255
32"	388	363	343	327	313	301	291	283	275	269	263	258	253	248	245
36"	370	345	325	309	295	283	273	265	257	251	245	239	235	230	227

Sidelap Spacing	16 Gauge Super Versa-Dek® 6.5LS Acoustical														
	Span (ft), 24/3 Attachment Pattern														
o.c.	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
6"	1101	1087	1075	1064	1055	1048	1041	1034	1029	1024	1019	1015	1011	1008	1004
8"	958	941	926	913	902	892	883	875	868	862	856	851	847	842	838
10"	857	837	820	805	793	782	772	763	755	748	742	736	731	726	721
12"	771	750	733	719	707	696	687	678	671	664	658	652	646	641	636
15"	661	641	624	610	597	587	577	569	562	555	549	544	539	535	531
18"	589	568	551	537	524	514	504	496	489	482	476	471	466	462	458
20"	552	532	515	500	488	477	468	460	452	446	440	435	430	425	421
24"	497	477	460	446	433	423	413	405	398	391	385	380	375	371	367
30"	443	422	405	391	379	368	359	350	343	337	331	325	320	316	312
32"	429	409	392	377	365	354	345	337	329	323	317	312	307	302	298
36"	406	386	369	355	342	332	322	314	307	300	294	289	284	280	276



Diaphragm design based on "Steel Deck Institute Diaphragm Design Manual, Third Edition". For diaphragm values of other roof deck assemblies, consult the SDI Diaphragm Design Manual or contact the Metal Dek Group™. All calculations are based on a "Single Span Condition". For "Multiple Spans", please contact the Metal Dek Group for additional information.

REV: 03/29/05

**Super Versa-Dek® 6.5LS Acoustical
ALLOWABLE DIAPHRAGM SHEAR VALUES**

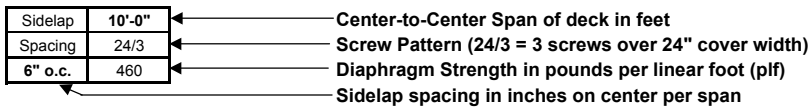


**#12x1-1/4" SUPPORT SCREWS AT SUPPORTS
#10x3/4" SIDELAP SCREWS AT SIDELAPS**

Sidelap		20 Gauge Super Versa-Dek® 6.5LS Acoustical														
Spacing		span (ft), 24/3 Attachment Pattern														
o.c.		6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"
6"		586	579	573	569	565	562	559	557	555	553	551	550	548	547	546
8"		542	531	523	516	510	506	501	498	495	492	490	487	485	484	482
10"		505	492	481	473	465	459	454	450	446	442	439	436	434	432	429
12"		476	460	448	437	429	422	416	410	406	402	398	395	392	389	387
15"		441	423	408	396	386	378	371	365	359	355	350	347	343	340	338
18"		414	394	378	365	354	345	337	330	325	319	315	311	307	304	301
20"		400	379	362	348	337	327	319	312	306	301	296	292	288	285	282
24"		373	347	327	312	300	291	282	275	269	264	260	256	252	249	246
30"		334	308	289	274	262	252	244	237	231	226	221	217	214	211	208
32"		325	299	279	264	252	243	234	227	221	216	212	208	204	201	198
36"		308	283	263	248	236	226	218	211	205	200	196	192	188	185	182

Sidelap		18 Gauge Super Versa-Dek® 6.5LS Acoustical														
Spacing		span (ft), 24/3 Attachment Pattern														
o.c.		8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"
6"		759	753	748	744	740	737	734	732	730	728	726	724	723	722	721
8"		692	683	676	669	664	659	655	651	648	645	643	640	638	636	635
10"		637	626	616	608	601	595	590	585	581	578	574	571	569	566	564
12"		593	579	568	558	550	543	537	532	527	523	519	515	512	509	507
15"		540	524	511	500	491	483	476	470	464	459	455	451	447	444	441
18"		501	483	469	457	446	438	430	423	417	412	407	403	399	395	392
20"		479	461	446	433	423	413	405	398	392	386	381	377	373	369	366
24"		434	414	398	385	374	365	357	350	344	339	334	330	326	323	320
30"		383	363	347	334	323	314	306	299	293	288	283	279	275	272	269
32"		370	350	334	321	310	301	293	286	280	275	270	266	262	259	256
36"		349	329	313	300	289	280	272	265	259	254	249	245	241	238	235

Sidelap		16 Gauge Super Versa-Dek® 6.5LS Acoustical														
Spacing		span (ft), 24/3 Attachment Pattern														
o.c.		10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
6"		944	938	934	930	926	923	921	918	911	914	912	910	909	908	906
8"		853	844	838	832	826	822	818	814	811	808	805	803	801	799	797
10"		777	767	758	751	744	738	733	729	725	721	717	714	711	709	706
12"		716	704	694	685	678	671	665	659	655	650	646	643	639	636	634
15"		645	631	619	609	600	592	585	579	574	569	564	560	556	553	550
18"		591	576	563	552	542	534	526	519	513	508	503	498	494	490	487
20"		563	547	533	521	511	502	494	487	481	475	470	466	461	457	454
24"		502	485	472	460	450	442	434	427	421	416	411	407	403	400	396
30"		438	421	407	396	386	377	370	363	357	352	347	343	339	335	332
32"		422	405	391	380	370	361	354	347	341	336	331	327	323	319	316
36"		395	378	365	353	343	335	327	320	314	309	304	300	296	293	289



Diaphragm design based on "Steel Deck Institute Diaphragm Design Manual, Third Edition". For diaphragm values of other roof deck assemblies, consult the SDI Diaphragm Design Manual or contact the Metal Dek Group™. All calculations are based on a "Single Span Condition". For "Multiple Spans", please contact the Metal Dek Group for additional information.

REV: 03/29/05