

DIAPHRAGM SHEAR STRENGTH (PLF)

15/16" X 3-3/4" TYPE HF 26
SUPPORT FASTENING:
STITCH FASTENING:
SAFETY FACTOR:

WITH CELLULAR FILL (TYPE II)
3/8" PUDDLE WELDS THRU WELD WASHERS
#10 TEK SCREWS
3.25

FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	SPAN (FT.-IN.)										
		4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0
30/9	0	577	544	517	496	477	462	449	438	428	419	411
	1	607	570	541	517	497	480	466	453	443	433	424
	2	636	596	565	539	517	499	483	469	457	447	437
	3	666	623	588	560	537	517	500	485	472	461	451
	4	695	649	612	582	556	535	517	501	487	475	464
30/5	0	477	455	438	423	411	401	392	385	378	372	367
	1	507	482	461	445	431	419	409	400	393	386	380
	2	537	508	485	466	451	437	426	416	408	400	393
	3	566	534	509	488	470	456	443	432	422	414	406
	4	596	561	532	509	490	474	460	448	437	428	420
30/4	0	448	429	414	402	391	383	375	369	363	358	354
	1	477	455	437	423	411	401	392	384	378	372	367
	2	507	481	461	445	431	419	409	400	393	386	380
	3	536	508	485	466	450	437	426	416	407	400	393
	4	566	534	509	488	470	455	443	432	422	414	406

NOTE: CELLULAR CONCRETE FILL 200 PSI. MINIMUM COMPRESSIVE STRENGTH, MINIMUM TOPPING OF 2" AND POLYSTYRENE THICKNESS UP TO 4".

DIAPHRAGM SHEAR STRENGTH (PLF)

15/16" X 3-3/4" TYPE HF 24
SUPPORT FASTENING:
STITCH FASTENING:
SAFETY FACTOR:

WITH CELLULAR FILL (TYPE II)
3/8" PUDDLE WELDS THRU WELD WASHERS
#10 TEK SCREWS
3.25

FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	SPAN (FT.-IN.)										
		4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0
30/9	0	734	684	643	610	582	559	539	522	506	493	481
	1	774	719	675	639	609	583	562	543	526	512	499
	2	813	754	706	668	635	608	584	564	546	530	516
	3	853	789	738	696	661	632	607	585	566	549	534
	4	892	824	770	725	688	656	629	606	585	567	551
30/5	0	582	549	522	500	481	466	452	441	430	422	414
	1	622	584	553	528	507	490	475	462	450	440	431
	2	661	619	585	557	534	514	497	483	470	459	449
	3	701	654	616	586	560	538	520	504	490	477	466
	4	741	689	648	615	587	563	543	525	510	496	484
30/4	0	537	508	485	466	451	437	426	416	408	400	393
	1	576	543	517	495	477	462	449	437	427	419	411
	2	616	578	548	524	503	486	471	458	447	437	428
	3	665	614	580	553	530	510	494	480	467	456	446
	4	695	649	612	581	556	535	516	501	487	474	464

NOTE: CELLULAR CONCRETE FILL 200 PSI. MINIMUM COMPRESSIVE STRENGTH, MINIMUM TOPPING OF 2" AND POLYSTYRENE THICKNESS UP TO 4".

DIAPHRAGM SHEAR STRENGTH (PLF)

15/16" X 3-3/4" TYPE HF 22
SUPPORT FASTENING:
STITCH FASTENING:
SAFETY FACTOR:

WITH CELLULAR FILL (TYPE II)
5/8" PUDDLE WELDS
#10 TEK SCREWS
3.25

FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	SPAN (FT.-IN.)										
		3-0	3-6	4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0
30/9	0	724	661	613	576	546	522	501	484	470	457	446
	1	489	416	662	619	585	557	534	514	497	483	470
	2	855	772	711	663	624	593	567	544	525	509	495
	3	920	828	759	706	663	628	599	574	553	535	519
	4	985	884	808	749	702	664	632	604	581	561	543
30/5	0	576	533	501	477	457	441	427	416	406	397	390
	1	641	589	550	520	496	476	460	446	434	423	414
	2	706	645	599	563	535	512	492	476	562	449	439
	3	771	701	648	607	574	547	525	506	490	475	463
	4	836	756	697	650	613	583	557	536	517	501	488
30/4	0	531	495	468	447	430	416	405	395	387	380	373
	1	596	551	517	490	469	452	437	425	416	406	398
	2	661	607	566	534	508	487	470	455	443	432	422
	3	726	662	614	577	547	523	502	485	470	458	446
	4	791	718	663	620	586	558	535	515	498	484	471

NOTE: CELLULAR CONCRETE FILL 200 PSI. MINIMUM COMPRESSIVE STRENGTH, MINIMUM TOPPING OF 2" AND POLYSTYRENE THICKNESS UP TO 4".

DIAPHRAGM SHEAR STRENGTH (PLF)

15/16" X 3-3/4" TYPE HF 20
SUPPORT FASTENING:
STITCH FASTENING:
SAFETY FACTOR:

WITH CELLULAR FILL (TYPE II)
5/8" PUDDLE WELDS
#10 TEK SCREWS
3.25

FASTENER LAYOUT	SIDE LAP FASTENING PER SPAN	SPAN (FT.-IN.)										
		3-0	3-6	4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0
30/9	0	1016	911	832	770	721	681	647	619	595	574	555
	1	1095	978	891	823	768	724	687	655	628	605	585
	2	1174	1046	950	876	816	767	726	692	662	637	614
	3	1253	1114	1009	928	863	810	766	728	696	668	644
	4	1332	1181	1069	981	911	853	805	765	730	700	674
30/5	0	770	700	647	606	574	547	524	505	489	475	463
	1	849	768	707	659	621	590	564	542	523	507	493
	2	928	835	766	712	668	633	603	578	557	538	522
	3	1007	903	825	764	716	676	643	615	591	570	552
	4	1086	971	884	817	763	719	682	651	625	602	581
30/4	0	697	637	592	557	529	507	488	471	458	446	435
	1	775	704	651	610	577	550	527	508	491	477	465
	2	854	772	710	662	624	593	566	544	525	509	494
	3	933	840	770	715	671	636	606	581	559	540	524
	4	1012	907	829	768	719	679	645	617	593	572	554

NOTE: CELLULAR CONCRETE FILL 200 PSI. MINIMUM COMPRESSIVE STRENGTH, MINIMUM TOPPING OF 2" AND POLYSTYRENE THICKNESS UP TO 4".