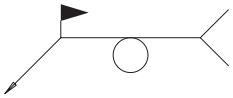
DGN-32 & DGNF-32 3.4

Arc Spot/Seam Welds to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																			
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2349	3758	1856	2969	1503	2405
			q_f																		
			F	3.5	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R
		6"	q_a	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2349	3758	1856	2969	1503	2405
			q_f																		
			F	4	-0.3R	4.1	-0.2R	4.2	-0.2R	4.2	-0.1R	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R
		8"	q_a	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2742	4387	2349	3758	1856	2969	1503	2405
			q_f																		
			F	4.4	-0.4R	4.6	-0.3R	4.7	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R
		12"	q_a	2569	4239	2382	3930	2281	3764	2219	3661	2176	3591	2145	3540	2122	3501	1856	2969	1503	2405
			q_f																		
			F	5.2	-0.6R	5.5	-0.6R	5.7	-0.5R	5.8	-0.4R	5.9	-0.4R	6	-0.4R	6.1	-0.3R	6.1	-0.3R	6.1	-0.3R
		18"	q_a	2240	4239	1889	3117	1905	3143	1749	2885	1640	2707	1687	2783	1612	2660	1553	2563	1503	2405
			q_f																		
			F	6	-1R	6.6	-1R	7	-0.9R	7.2	-0.8R	7.4	-0.8R	7.6	-0.7R	7.7	-0.6R	7.8	-0.6R	7.8	-0.6R
		24"	q_a	1857	3064	1606	2650	1474	2431	1392	2297	1337	2206	1297	2140	1267	2091	1243	2052	1225	2021
			q_f																		
			F	6.6	-1.3R	7.5	-1.3R	8	-1.3R	8.4	-1.2R	8.7	-1.1R	8.9	-1.1R	9.1	-1R	9.3	-1R	9.4	-0.9R
	18 ga	4"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	4.7	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	5	-0.1R
		6"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	5.3	-0.5R	5.6	-0.4R	5.7	-0.3R	5.8	-0.3R	5.8	-0.2R	5.9	-0.2R	5.9	-0.2R	5.9	-0.2R	5.9	-0.2R
		8"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	5.9	-0.7R	6.3	-0.6R	6.5	-0.5R	6.6	-0.5R	6.7	-0.4R	6.8	-0.4R	6.8	-0.3R	6.9	-0.3R	6.9	-0.3R
		12"	q_a	1824	2918	1663	2744	1575	2599	1520	2508	1483	2447	1456	2402	1436	2369	1339	2142	1084	1735
			q_f																		
			F	6.8	-1R	7.5	-1R	7.8	-0.9R	8.1	-0.8R	8.3	-0.8R	8.4	-0.7R	8.5	-0.6R	8.6	-0.6R	8.7	-0.6R
		18"	q_a	1596	2918	1319	2177	1311	2164	1193	1969	1112	1835	1138	1877	1083	1787	1040	1716	1066	1735
			q_f																		
			F	7.8	-1.5R	8.8	-1.6R	9.5	-1.5R	10	-1.5R	10.3	-1.4R	10.6	-1.3R	10.8	-1.2R	11	-1.1R	11.1	-1.1R
		24"	q_a	1335	2203	1127	1859	1018	1679	952	1571	909	1499	877	1447	852	1406	833	1375	818	1350
			q_f																		
			F	8.5	-1.9R	9.9	-2.1R	10.8	-2.1R	11.5	-2.1R	12.1	-2R	12.5	-1.9R	12.8	-1.8R	13.1	-1.7R	13.3	-1.7R
	20 ga	4"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	6.7	-0.5R	7	-0.5R	7.1	-0.4R	7.2	-0.3R	7.3	-0.3R	7.4	-0.3R	7.4	-0.2R	7.4	-0.2R	7.5	-0.2R
		6"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	7.7	-0.9R	8.2	-0.8R	8.5	-0.7R	8.7	-0.6R	8.8	-0.6R	8.9	-0.5R	9	-0.5R	9.1	-0.4R	9.1	-0.4R
		8"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	8.5	-1.2R	9.2	-1.2R	9.7	-1.1R	10	-1R	10.2	-0.9R	10.4	-0.8R	10.5	-0.8R	10.6	-0.7R	10.7	-0.7R
		12"	q_a	1056	1728	956	1578	903	1490	870	1436	848	1399	832	1372	819	1352	810	1336	712	1139
			q_f																		
			F	9.6	-1.8R	10.8	-1.9R	11.6	-1.8R	12.2	-1.7R	12.6	-1.6R	12.9	-1.5R	13.2	-1.5R	13.4	-1.4R	13.6	-1.3R
		18"	q_a	922	1728	759	1253	752	1241	683	1127	636	1049	649	1071	618	1019	593	978	607	1001
			q_f																		
			F	10.7	-2.4R	12.5	-2.7R	13.8	-2.8R	14.7	-2.8R	15.5	-2.7R	16.1	-2.6R	16.6	-2.5R	17	-2.4R	17.3	-2.4R
		24"	q_a	773	1276	647	1067	583	961	544	897	518	855	500	825	486	802	475	784	466	769
			q_f																		
			F	11.5	-2.9R	13.7	-3.3R	15.4	-3.6R	16.7	-3.7R	17.8	-3.7R	18.7	-3.7R	19.4	-3.6R	20	-3.5R	20.5	-3.5R
	22 ga	4"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	8.5	-0.8R	8.9	-0.7R	9.2	-0.7R	9.3	-0.6R	9.5	-0.5R	9.6	-0.5R	9.6	-0.4R	9.7	-0.4R	9.7	-0.4R
		6"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	9.6	-1.3R	10.4	-1.3R	10.9	-1.2R	11.2	-1.1R	11.5	-1R	11.7	-0.9R	11.8	-0.8R	11.9	-0.8R	12	-0.7R
		8"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	767	1233	673	1076	545	872
			q_f																		
			F	10.5	-1.8R	11.6	-1.8R	12.4	-1.7R	12.9	-1.6R	13.3	-1.5R	13.6	-1.4R	13.8	-1.3R	14	-1.2R	14.1	-1.2R
		12"	q_a	746	1231	673	1111	634	1047	610	1007	594	980	582	961	573	946	566	935	545	872
			q_f																		
			F	11.8	-2.4R	13.5	-2.6R	14.7	-2.7R	15.6	-2.6R	16.3	-2.5R	16.8	-2.4R	17.3	-2.3R	17.6	-2.2R	17.9	-2.1R
		18"	q_a	652	1231	535	883	528	872	479	791	445	735	455	750	432	713	414	684	424	700
			q_f																		
			F	12.9	-3.1R	15.4	-3.6R	17.2	-3.9R	18.6	-4R	19.8	-4R	20.7	-4R	21.5	-3.9R	22.1	-3.8R	22.7	-3.7R
		24"	q_a	548	904	455	751	409	675	381	629	363	598	349	577	340	560	332	547	326	537
			q_f																		
			F	13.7	-3.6R	16.6	-4.4R	19	-4.8R	20.9	-5.1R	22.4	-5.3R	23.7	-5.3R	24.9	-5.4R	25.8	-5.3R	26.6	-5.3R

N-32 32/5 Support Attachment: 0.5" Effective Dia. Arc Spot Weld Side Seam Attachment: DeltaGrip

3.5 **DGN-32 & DGNF-32**

No. 12 Self-Drilling Screws to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																					
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			q_f																		
			F	3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R	
		6"	q_a	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			q_f																		
			F	4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R	
		8"	q_a	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			q_f																		
			F	5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R	
		12"	q_a	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			q_f																		
			F	6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R	
		18"	q_a	1478	2380	1398	2251	1443	2323	1396	2247	1360	2190	1394	2245	1368	2203	1347	2168	1373	2211
			q_f																		
			F	8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R	
		24"	q_a	1289	2075	1239	1994	1211	1950	1194	1923	1183	1904	1174	1891	1168	1880	1163	1872	1159	1866
			q_f																		
			F	10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R	
	18 ga	4"	q_a	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			q_f																		
			F	5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R	
		6"	q_a	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			q_f																		
			F	6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R	
		8"	q_a	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			q_f																		
			F	7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R	
		12"	q_a	1182	1903	1182	1903	1179	1898	1172	1887	1167	1879	1164	1874	1161	1870	1159	1866	1084	1735
			q_f																		
			F	9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R	
		18"	q_a	1104	1903	1019	1641	1055	1698	1010	1627	978	1574	1007	1621	983	1582	963	1550	986	1587
			q_f																		
			F	12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R	
		24"	q_a	937	1508	886	1427	859	1383	842	1356	831	1337	822	1324	816	1313	811	1305	807	1299
			q_f																		
			F	15.9 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R	
	20 ga	4"	q_a	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			q_f																		
			F	7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R	
		6"	q_a	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			q_f																		
			F	9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R	
		8"	q_a	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			q_f																		
			F	11.5 +0R		11.5 +0R		11.5 +0R		11.6 +0R		11.6 +0R		11.6 +0R		11.6 +0R		11.6 +0R		11.6 +0R	
		12"	q_a	830	1336	806	1297	793	1276	785	1263	779	1254	775	1248	772	1243	769	1239	712	1139
			q_f																		
			F	15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R	
		18"	q_a	741	1336	666	1072	689	1109	651	1049	624	1005	645	1038	625	1007	609	981	626	1008
			q_f																		
			F	21.2 -0.1R		21.2 -0.1R		21.2 -0.1R		21.2 +0R		21.2 +0R		21.2 +0R		21.2 +0R		21.2 +0R		21.2 +0R	
		24"	q_a	616	992	569	917	544	876	529	851	518	834	510	822	504	812	500	805	496	799
			q_f																		
			F	26.9 -0.2R		26.9 -0.1R		27 -0.1R		27 -0.1R		27 -0.1R		27 -0.1R		27 +0R		27 +0R		27 +0R	
	22 ga	4"	q_a	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	673	1076	545	872
			q_f																		
			F	10.1 +0R		10.1 +0R		10.2 +0R		10.2 +0R		10.2 +0R		10.2 +0R		10.2 +0R		10.2 +0R		10.2 +0R	
		6"	q_a	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	673	1076	545	872
			q_f																		
			F	12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R	
		8"	q_a	739	1190	729	1174	721	1161	717	1154	713	1148	711	1145	709	1142	673	1076	545	872
			q_f																		
			F	15.7 -0.1R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R	
		12"	q_a	644	1037	619	997	606	975	597	961	591	952	587	945	584	940	581	936	545	872
			q_f																		
			F	21.2 -0.1R		21.3 -0.1R		21.3 -0.1R		21.3 +0R		21.3 +0R		21.3 +0R		21.3 +0R		21.3 +0R		21.3 +0R	
		18"	q_a	569	1037	503	810	518	834	486	782	463	745	478	770	462	744	449	722	461	743
			q_f																		
			F	29.5 -0.3R		29.6 -0.2R		29.6 -0.1R		29.6 -0.1R		29.6 -0.1R		29.7 -0.1R		29.7 -0.1R		29.7 -0.1R		29.7 -0.1R	
		24"	q_a	471	758	427	688	404	651	390	628	380	612	373	601	368	592	364	586	360	580
			q_f																		
			F	37.6 -0.5R		37.8 -0.3R		37.9 -0.2R		37.9 -0.2R		38 -0.2R		38 -0.1R		38 -0.1R		38 -0.1R		38 -0.1R	

N-32 32/5 Support Attachment: #12 SD HWH Screw Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.5

No. 12 Self-Drilling Screws to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a | q_f	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			F	3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R		3.7 +0R	
		6"	q_a | q_f	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			F	4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R		4.4 +0R	
		8"	q_a | q_f	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			F	5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R		5.1 +0R	
		12"	q_a | q_f	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			F	6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R		6.5 +0R	
		18"	q_a | q_f	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380	1478	2380
			F	8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R		8.6 +0R	
		24"	q_a | q_f	1478	2380	1478	2380	1454	2340	1414	2276	1386	2232	1366	2199	1351	2175	1339	2155	1329	2139
			F	10.6 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R		10.7 +0R	
	18 ga	4"	q_a | q_f	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			F	5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R		5 +0R	
		6"	q_a | q_f	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			F	6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R		6.1 +0R	
		8"	q_a | q_f	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			F	7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R		7.2 +0R	
		12"	q_a | q_f	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1182	1903	1084	1735
			F	9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R		9.4 +0R	
		18"	q_a | q_f	1182	1903	1182	1903	1182	1903	1182	1903	1151	1854	1182	1903	1146	1846	1115	1796	1084	1735
			F	12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R		12.7 +0R	
		24"	q_a | q_f	1182	1903	1083	1743	1024	1648	987	1589	961	1548	943	1518	929	1495	918	1478	909	1463
			F	15.9 -0.1R		15.9 -0.1R		15.9 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R		16 +0R	
	20 ga	4"	q_a | q_f	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			F	7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R		7.7 +0R	
		6"	q_a | q_f	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			F	9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R		9.6 +0R	
		8"	q_a | q_f	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			F	11.5 +0R		11.5 +0R		11.5 +0R		11.5 +0R		11.5 +0R		11.6 +0R		11.6 +0R		11.6 +0R		11.6 +0R	
		12"	q_a | q_f	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	888	1429	879	1406	712	1139
			F	15.4 -0.1R		15.4 -0.1R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R		15.4 +0R	
		18"	q_a | q_f	888	1429	814	1310	823	1325	764	1231	723	1164	742	1195	713	1148	690	1111	708	1139
			F	21.1 -0.2R		21.1 -0.1R		21.2 -0.1R		21.2 -0.1R		21.2 -0.1R		21.2 -0.1R		21.2 +0R		21.2 +0R		21.2 +0R	
		24"	q_a | q_f	795	1280	701	1129	651	1048	619	997	597	962	582	936	570	917	560	902	553	890
			F	26.8 -0.3R		26.9 -0.2R		26.9 -0.2R		27 -0.1R		27 -0.1R		27 -0.1R		27 -0.1R		27 -0.1R		27 -0.1R	
	22 ga	4"	q_a | q_f	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	673	1076	545	872
			F	10.1 +0R		10.1 +0R		10.1 +0R		10.1 +0R		10.1 +0R		10.2 +0R		10.2 +0R		10.2 +0R		10.2 +0R	
		6"	q_a | q_f	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	673	1076	545	872
			F	12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R		12.9 +0R	
		8"	q_a | q_f	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	739	1190	673	1076	545	872
			F	15.7 -0.1R		15.7 -0.1R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R		15.7 +0R	
		12"	q_a | q_f	739	1190	739	1190	727	1170	707	1138	693	1116	683	1100	675	1087	669	1076	545	872
			F	21.1 -0.2R		21.2 -0.1R		21.2 -0.1R		21.3 -0.1R		21.3 -0.1R		21.3 -0.1R		21.3 +0R		21.3 +0R		21.3 +0R	
		18"	q_a | q_f	725	1190	617	993	617	994	568	915	534	859	546	880	523	842	504	811	516	831
			F	29.3 -0.4R		29.4 -0.3R		29.5 -0.2R		29.6 -0.2R		29.6 -0.1R		29.6 -0.1R		29.6 -0.1R		29.6 -0.1R		29.6 -0.1R	
		24"	q_a | q_f	616	991	532	857	487	785	459	740	440	709	426	687	416	670	408	656	401	646
			F	37.3 -0.7R		37.6 -0.5R		37.7 -0.4R		37.8 -0.3R		37.9 -0.3R		37.9 -0.2R		37.9 -0.2R		37.9 -0.2R		38 -0.2R	

N-32 32/7 Support Attachment: #12 SD HWH Screw Side Seam Attachment: DeltaGrip

3.6 **DGN-32 & DGNF-32**

Hilti X-HSN-24 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																			
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	3.5	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.6	+0R
		6"	q_a q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	4	-0.2R	4.1	-0.2R	4.2	-0.2R	4.2	-0.1R	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R
		8"	q_a q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	4.5	-0.4R	4.6	-0.3R	4.7	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R
		12"	q_a q_f	1907	3070	1901	3061	1883	3031	1871	3012	1863	2999	1857	2990	1853	2983	1849	2969	1503	2405
			F	5.2	-0.6R	5.6	-0.6R	5.8	-0.5R	5.9	-0.4R	6	-0.4R	6	-0.3R	6.1	-0.3R	6.1	-0.3R	6.2	-0.3R
		18"	q_a q_f	1762	3070	1622	2611	1679	2703	1606	2586	1553	2500	1599	2575	1560	2512	1528	2460	1503	2405
			F	6.1	-1R	6.7	-0.9R	7.1	-0.9R	7.3	-0.8R	7.5	-0.7R	7.6	-0.7R	7.7	-0.6R	7.8	-0.6R	7.9	-0.5R
		24"	q_a q_f	1491	2400	1407	2266	1362	2193	1334	2148	1315	2117	1301	2095	1291	2078	1282	2064	1276	2054
			F	6.8	-1.3R	7.6	-1.3R	8.2	-1.3R	8.6	-1.2R	8.8	-1.1R	9.1	-1R	9.2	-1R	9.4	-0.9R	9.5	-0.9R
	18 ga	4"	q_a q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	4.7	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R
		6"	q_a q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	5.4	-0.4R	5.6	-0.4R	5.7	-0.3R	5.8	-0.3R	5.9	-0.2R	5.9	-0.2R	5.9	-0.2R	5.9	-0.2R	6	-0.2R
		8"	q_a q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	6	-0.6R	6.3	-0.6R	6.5	-0.5R	6.6	-0.4R	6.7	-0.4R	6.8	-0.3R	6.9	-0.3R	6.9	-0.3R	6.9	-0.3R
		12"	q_a q_f	1453	2339	1412	2273	1390	2238	1376	2216	1367	2201	1360	2190	1355	2181	1339	2142	1084	1735
			F	7	-1R	7.6	-1R	7.9	-0.9R	8.2	-0.8R	8.4	-0.7R	8.5	-0.7R	8.6	-0.6R	8.7	-0.6R	8.7	-0.5R
		18"	q_a q_f	1299	2339	1170	1884	1210	1949	1145	1844	1099	1769	1135	1827	1101	1772	1073	1728	1084	1735
			F	8	-1.5R	9	-1.6R	9.7	-1.5R	10.1	-1.4R	10.5	-1.3R	10.7	-1.2R	10.9	-1.2R	11.1	-1.1R	11.2	-1R
		24"	q_a q_f	1082	1742	1001	1612	958	1542	931	1499	913	1470	899	1448	889	1432	881	1419	875	1409
			F	8.8	-1.9R	10.2	-2.1R	11.1	-2.1R	11.8	-2R	12.3	-1.9R	12.7	-1.9R	13	-1.8R	13.3	-1.7R	13.5	-1.6R
	20 ga	4"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	6.8	-0.5R	7	-0.4R	7.2	-0.4R	7.3	-0.3R	7.3	-0.3R	7.4	-0.2R	7.4	-0.2R	7.4	-0.2R	7.5	-0.2R
		6"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.8	-0.9R	8.3	-0.8R	8.6	-0.7R	8.7	-0.6R	8.9	-0.6R	9	-0.5R	9	-0.5R	9.1	-0.4R	9.2	-0.4R
		8"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.6	-1.2R	9.3	-1.2R	9.8	-1.1R	10.1	-1R	10.3	-0.9R	10.4	-0.8R	10.6	-0.7R	10.7	-0.7R	10.7	-0.6R
		12"	q_a q_f	983	1583	939	1512	915	1473	900	1449	890	1433	882	1421	877	1411	872	1404	712	1139
			F	9.9	-1.8R	11	-1.9R	11.8	-1.8R	12.4	-1.7R	12.8	-1.6R	13.1	-1.5R	13.3	-1.4R	13.5	-1.3R	13.7	-1.2R
		18"	q_a q_f	865	1583	757	1218	777	1251	726	1168	689	1109	712	1146	686	1104	665	1071	684	1101
			F	11.1	-2.5R	12.9	-2.7R	14.2	-2.8R	15.1	-2.8R	15.8	-2.7R	16.4	-2.6R	16.9	-2.5R	17.2	-2.4R	17.6	-2.3R
		24"	q_a q_f	714	1149	642	1033	604	972	580	934	564	908	552	889	544	875	537	864	531	855
			F	11.9	-3R	14.2	-3.4R	15.9	-3.6R	17.2	-3.7R	18.3	-3.7R	19.1	-3.6R	19.8	-3.6R	20.4	-3.5R	20.9	-3.4R
	22 ga	4"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	8.6	-0.8R	9	-0.7R	9.2	-0.6R	9.4	-0.6R	9.5	-0.5R	9.6	-0.4R	9.7	-0.4R	9.7	-0.4R	9.8	-0.3R
		6"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.8	-1.3R	10.6	-1.2R	11	-1.1R	11.4	-1R	11.6	-0.9R	11.8	-0.9R	11.9	-0.8R	12	-0.7R	12.1	-0.7R
		8"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	10.8	-1.8R	11.9	-1.8R	12.6	-1.7R	13.1	-1.6R	13.4	-1.4R	13.7	-1.3R	13.9	-1.3R	14.1	-1.2R	14.2	-1.1R
		12"	q_a q_f	758	1221	714	1150	690	1111	675	1087	665	1071	658	1059	652	1050	648	1043	545	872
			F	12.1	-2.5R	13.9	-2.7R	15.1	-2.7R	15.9	-2.6R	16.6	-2.5R	17.1	-2.4R	17.5	-2.3R	17.9	-2.2R	18.2	-2.1R
		18"	q_a q_f	663	1221	569	917	580	934	537	864	507	816	523	841	501	807	485	780	498	802
			F	13.4	-3.2R	15.9	-3.7R	17.8	-3.9R	19.2	-4R	20.3	-4R	21.2	-3.9R	22	-3.8R	22.6	-3.7R	23.1	-3.6R
		24"	q_a q_f	547	881	483	777	449	722	427	688	413	665	403	648	395	636	389	626	384	618
			F	14.3	-3.7R	17.3	-4.5R	19.7	-5R	21.6	-5.2R	23.2	-5.3R	24.4	-5.4R	25.5	-5.3R	26.5	-5.3R	27.3	-5.2R

N-32 32/5 Support Attachment: Hilti X-HSN 24 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.6

Hilti X-HSN-24 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a | q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	3.4 -0.2R		3.5 -0.1R		3.5 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 -0.1R	
		6"	q_a | q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	3.8 -0.3R		4 -0.3R		4.1 -0.2R		4.1 -0.2R		4.2 -0.2R		4.2 -0.2R		4.2 -0.1R		4.2 -0.1R		4.2 -0.1R	
		8"	q_a | q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	4.2 -0.4R		4.4 -0.4R		4.6 -0.3R		4.6 -0.3R		4.7 -0.3R		4.8 -0.2R		4.8 -0.2R		4.8 -0.2R		4.8 -0.2R	
		12"	q_a | q_f	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1907	3070	1856	2969	1503	2405
			F	4.7 -0.7R		5.1 -0.6R		5.4 -0.6R		5.6 -0.6R		5.7 -0.5R		5.8 -0.5R		5.9 -0.4R		5.9 -0.4R		6 -0.4R	
		18"	q_a | q_f	1907	3070	1907	3070	1907	3070	1907	3070	1824	2937	1877	3022	1815	2922	1764	2841	1503	2405
			F	5.3 -1R		6 -1R		6.4 -1R		6.7 -0.9R		7 -0.9R		7.1 -0.9R		7.3 -0.8R		7.4 -0.8R		7.5 -0.7R	
		24"	q_a | q_f	1897	3054	1720	2769	1623	2613	1562	2516	1521	2448	1490	2400	1467	2363	1449	2333	1435	2310
			F	5.7 -1.2R		6.6 -1.3R		7.2 -1.3R		7.7 -1.3R		8 -1.3R		8.3 -1.2R		8.5 -1.2R		8.7 -1.2R		8.9 -1.1R	
	18 ga	4"	q_a | q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	4.5 -0.3R		4.7 -0.3R		4.7 -0.2R		4.8 -0.2R		4.8 -0.2R		4.9 -0.1R		4.9 -0.1R		4.9 -0.1R		4.9 -0.1R	
		6"	q_a | q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	5.1 -0.5R		5.3 -0.5R		5.5 -0.4R		5.6 -0.4R		5.7 -0.3R		5.7 -0.3R		5.8 -0.3R		5.8 -0.3R		5.9 -0.2R	
		8"	q_a | q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	5.5 -0.7R		5.9 -0.7R		6.2 -0.6R		6.3 -0.6R		6.5 -0.5R		6.6 -0.5R		6.6 -0.4R		6.7 -0.4R		6.7 -0.4R	
		12"	q_a | q_f	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1544	2485	1339	2142	1084	1735
			F	6.1 -1R		6.8 -1R		7.3 -1R		7.6 -1R		7.8 -0.9R		8 -0.9R		8.1 -0.8R		8.3 -0.8R		8.4 -0.7R	
		18"	q_a | q_f	1544	2485	1429	2301	1447	2330	1345	2166	1273	2049	1307	2105	1257	2024	1216	1958	1084	1735
			F	6.8 -1.4R		7.8 -1.5R		8.5 -1.6R		9 -1.6R		9.5 -1.5R		9.8 -1.5R		10.1 -1.4R		10.3 -1.4R		10.5 -1.3R	
		24"	q_a | q_f	1393	2243	1232	1984	1145	1843	1090	1755	1052	1694	1025	1651	1005	1617	988	1591	975	1570
			F	7.2 -1.6R		8.5 -1.9R		9.4 -2R		10.2 -2.1R		10.8 -2.1R		11.3 -2.1R		11.7 -2R		12 -2R		12.3 -1.9R	
	20 ga	4"	q_a | q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	6.4 -0.6R		6.7 -0.5R		6.9 -0.5R		7 -0.4R		7.1 -0.4R		7.2 -0.4R		7.3 -0.3R		7.3 -0.3R		7.3 -0.3R	
		6"	q_a | q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.1 -0.9R		7.7 -0.9R		8 -0.9R		8.3 -0.8R		8.5 -0.7R		8.6 -0.7R		8.7 -0.6R		8.8 -0.6R		8.9 -0.6R	
		8"	q_a | q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.6 -1.2R		8.4 -1.2R		9 -1.2R		9.3 -1.2R		9.6 -1.1R		9.8 -1R		10 -1R		10.2 -0.9R		10.3 -0.9R	
		12"	q_a | q_f	1080	1728	1080	1728	1080	1728	1060	1706	1036	1668	1019	1641	1006	1620	879	1406	712	1139
			F	8.4 -1.6R		9.6 -1.8R		10.4 -1.9R		11.1 -1.9R		11.5 -1.8R		11.9 -1.8R		12.3 -1.7R		12.5 -1.6R		12.8 -1.6R	
		18"	q_a | q_f	1080	1728	932	1500	926	1492	849	1366	794	1279	812	1307	775	1247	746	1200	712	1139
			F	9 -2R		10.7 -2.4R		11.9 -2.6R		12.9 -2.7R		13.7 -2.8R		14.4 -2.8R		14.9 -2.8R		15.4 -2.7R		15.8 -2.7R	
		24"	q_a | q_f	942	1516	806	1297	732	1179	687	1106	656	1056	633	1020	616	992	603	971	592	953
			F	9.5 -2.3R		11.4 -2.8R		13 -3.2R		14.2 -3.4R		15.3 -3.6R		16.2 -3.7R		17 -3.7R		17.7 -3.7R		18.3 -3.7R	
	22 ga	4"	q_a | q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	7.9 -0.9R		8.5 -0.9R		8.8 -0.8R		9 -0.7R		9.2 -0.7R		9.3 -0.6R		9.4 -0.6R		9.5 -0.5R		9.5 -0.5R	
		6"	q_a | q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	8.7 -1.3R		9.6 -1.3R		10.2 -1.3R		10.6 -1.2R		10.9 -1.2R		11.1 -1.1R		11.3 -1R		11.5 -1R		11.6 -0.9R	
		8"	q_a | q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.3 -1.6R		10.5 -1.8R		11.3 -1.8R		11.9 -1.8R		12.3 -1.7R		12.7 -1.6R		13 -1.6R		13.2 -1.5R		13.4 -1.4R	
		12"	q_a | q_f	771	1233	771	1233	771	1233	771	1233	769	1233	753	1212	741	1192	673	1076	545	872
			F	10.1 -2.1R		11.7 -2.4R		12.9 -2.6R		13.9 -2.7R		14.6 -2.7R		15.3 -2.7R		15.8 -2.6R		16.2 -2.6R		16.6 -2.5R	
		18"	q_a | q_f	771	1233	709	1142	695	1119	631	1016	587	945	596	960	567	912	543	875	545	872
			F	10.7 -2.5R		12.8 -3.1R		14.5 -3.5R		15.9 -3.7R		17.1 -3.9R		18.1 -4R		18.9 -4R		19.7 -4R		20.3 -4R	
		24"	q_a | q_f	736	1186	617	993	551	887	511	823	485	780	466	750	452	727	440	709	431	694
			F	11.1 -2.7R		13.6 -3.5R		15.6 -4.1R		17.3 -4.5R		18.8 -4.8R		20.1 -5R		21.3 -5.2R		22.3 -5.3R		23.2 -5.3R	

N-32 32/7 Support Attachment: Hilti X-HSN 24 PAF Side Seam Attachment: DeltaGrip

3.6 **DGN-32 & DGNF-32**

Hilti X-ENP-19 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																			
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	3.4	-0.2R	3.5	-0.1R	3.5	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R
		6"	q_a q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	3.8	-0.3R	4	-0.3R	4.1	-0.2R	4.1	-0.2R	4.2	-0.2R	4.2	-0.2R	4.2	-0.1R	4.2	-0.1R	4.2	-0.1R
		8"	q_a q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	4.2	-0.4R	4.4	-0.4R	4.6	-0.3R	4.6	-0.3R	4.7	-0.3R	4.8	-0.2R	4.8	-0.2R	4.8	-0.2R	4.8	-0.2R
		12"	q_a q_f	2040	3284	1997	3215	1974	3179	1960	3156	1950	3140	1943	3128	1938	3120	1856	2969	1503	2405
			F	4.7	-0.7R	5.1	-0.6R	5.4	-0.6R	5.6	-0.6R	5.7	-0.5R	5.8	-0.5R	5.9	-0.4R	5.9	-0.4R	6	-0.4R
		18"	q_a q_f	1845	3284	1687	2717	1747	2813	1666	2682	1606	2586	1656	2667	1613	2597	1577	2540	1503	2405
			F	5.3	-1R	6	-1R	6.4	-1R	6.7	-0.9R	6.9	-0.9R	7.1	-0.9R	7.3	-0.8R	7.4	-0.8R	7.5	-0.7R
		24"	q_a q_f	1552	2499	1457	2346	1405	2263	1373	2211	1351	2176	1336	2150	1324	2131	1314	2116	1306	2103
			F	5.7	-1.2R	6.6	-1.3R	7.2	-1.3R	7.6	-1.3R	8	-1.3R	8.3	-1.3R	8.5	-1.2R	8.7	-1.2R	8.8	-1.1R
	18 ga	4"	q_a q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	4.5	-0.3R	4.7	-0.3R	4.7	-0.2R	4.8	-0.2R	4.8	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R
		6"	q_a q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	5.1	-0.5R	5.3	-0.5R	5.5	-0.4R	5.6	-0.4R	5.7	-0.3R	5.7	-0.3R	5.8	-0.3R	5.8	-0.3R	5.9	-0.2R
		8"	q_a q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	5.5	-0.7R	5.9	-0.7R	6.2	-0.6R	6.3	-0.6R	6.5	-0.5R	6.6	-0.5R	6.6	-0.4R	6.7	-0.4R	6.7	-0.4R
		12"	q_a q_f	1523	2452	1475	2374	1448	2332	1432	2306	1421	2288	1413	2274	1406	2264	1339	2142	1084	1735
			F	6.1	-1R	6.8	-1R	7.3	-1R	7.6	-1R	7.8	-0.9R	8	-0.9R	8.1	-0.8R	8.3	-0.8R	8.4	-0.7R
		18"	q_a q_f	1355	2452	1212	1951	1252	2016	1181	1902	1130	1819	1168	1880	1131	1820	1101	1772	1084	1735
			F	6.8	-1.4R	7.8	-1.5R	8.5	-1.6R	9	-1.6R	9.5	-1.5R	9.8	-1.5R	10.1	-1.4R	10.3	-1.4R	10.5	-1.3R
		24"	q_a q_f	1125	1811	1034	1665	985	1586	955	1538	935	1505	920	1481	908	1462	900	1448	892	1437
			F	7.2	-1.6R	8.5	-1.9R	9.4	-2R	10.2	-2.1R	10.8	-2.1R	11.2	-2.1R	11.7	-2R	12	-2R	12.3	-1.9R
	20 ga	4"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	6.4	-0.6R	6.7	-0.5R	6.9	-0.5R	7	-0.4R	7.1	-0.4R	7.2	-0.4R	7.3	-0.3R	7.3	-0.3R	7.3	-0.3R
		6"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.1	-0.9R	7.7	-0.9R	8	-0.9R	8.3	-0.8R	8.5	-0.7R	8.6	-0.7R	8.7	-0.6R	8.8	-0.6R	8.9	-0.6R
		8"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.6	-1.2R	8.4	-1.2R	9	-1.2R	9.3	-1.2R	9.6	-1.1R	9.8	-1R	10	-1R	10.2	-0.9R	10.3	-0.9R
		12"	q_a q_f	1026	1651	974	1569	947	1524	929	1496	917	1477	909	1463	902	1453	879	1406	712	1139
			F	8.4	-1.6R	9.5	-1.8R	10.4	-1.9R	11	-1.9R	11.5	-1.8R	11.9	-1.8R	12.3	-1.7R	12.5	-1.6R	12.8	-1.6R
		18"	q_a q_f	900	1651	781	1258	800	1289	745	1199	705	1136	728	1173	701	1128	678	1092	698	1123
			F	9	-2R	10.6	-2.4R	11.9	-2.6R	12.9	-2.7R	13.7	-2.8R	14.4	-2.8R	14.9	-2.8R	15.4	-2.7R	15.8	-2.7R
		24"	q_a q_f	742	1194	662	1066	620	998	594	956	576	928	563	907	554	891	546	879	540	869
			F	9.4	-2.2R	11.4	-2.8R	12.9	-3.2R	14.2	-3.4R	15.3	-3.6R	16.2	-3.7R	17	-3.7R	17.7	-3.7R	18.3	-3.7R
	22 ga	4"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	7.9	-0.9R	8.4	-0.9R	8.8	-0.8R	9	-0.7R	9.2	-0.7R	9.3	-0.6R	9.4	-0.6R	9.5	-0.5R	9.5	-0.5R
		6"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	8.7	-1.3R	9.6	-1.3R	10.2	-1.3R	10.6	-1.2R	10.9	-1.2R	11.1	-1.1R	11.3	-1.1R	11.5	-1R	11.6	-0.9R
		8"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.3	-1.6R	10.5	-1.8R	11.3	-1.8R	11.9	-1.8R	12.3	-1.7R	12.7	-1.6R	13	-1.6R	13.2	-1.5R	13.4	-1.4R
		12"	q_a q_f	771	1233	739	1190	712	1146	695	1119	683	1100	675	1087	669	1076	664	1068	545	872
			F	10.1	-2R	11.7	-2.4R	12.9	-2.6R	13.9	-2.7R	14.6	-2.7R	15.2	-2.7R	15.8	-2.6R	16.2	-2.6R	16.6	-2.5R
		18"	q_a q_f	689	1233	587	946	596	960	550	886	518	834	534	859	511	823	493	795	507	817
			F	10.7	-2.5R	12.8	-3.1R	14.5	-3.5R	15.9	-3.7R	17.1	-3.9R	18.1	-4R	18.9	-4R	19.6	-4R	20.3	-4R
		24"	q_a q_f	570	917	498	803	461	742	438	705	422	679	411	661	402	647	395	637	390	628
			F	11.1	-2.7R	13.5	-3.5R	15.6	-4.1R	17.3	-4.5R	18.8	-4.8R	20.1	-5R	21.2	-5.2R	22.3	-5.3R	23.2	-5.3R

N-32 32/5 Support Attachment: Hilti X-ENP-19 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.6

Hilti X-ENP-19 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a / q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	3.3 -0.2R		3.4 -0.2R		3.5 -0.2R		3.5 -0.1R		3.5 -0.1R		3.5 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 -0.1R	
		6"	q_a / q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	3.6 -0.3R		3.8 -0.3R		3.9 -0.3R		4 -0.3R		4 -0.2R		4.1 -0.2R		4.1 -0.2R		4.1 -0.2R		4.2 -0.2R	
		8"	q_a / q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	3.8 -0.4R		4.1 -0.4R		4.3 -0.4R		4.4 -0.4R		4.5 -0.4R		4.6 -0.3R		4.6 -0.3R		4.7 -0.3R		4.7 -0.3R	
		12"	q_a / q_f	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	2053	3306	1856	2969	1503	2405
			F	4.2 -0.6R		4.6 -0.7R		4.9 -0.7R		5.1 -0.6R		5.3 -0.6R		5.4 -0.6R		5.5 -0.6R		5.6 -0.5R		5.7 -0.5R	
		18"	q_a / q_f	2053	3306	2053	3306	2053	3306	1973	3176	1877	3022	1931	3109	1864	3001	1809	2913	1503	2405
			F	4.5 -0.8R		5.2 -0.9R		5.6 -1R		6 -1R		6.2 -1R		6.5 -1R		6.7 -1R		6.8 -0.9R		7 -0.9R	
		24"	q_a / q_f	1981	3190	1783	2870	1674	2696	1606	2586	1560	2511	1526	2457	1500	2415	1480	2383	1464	2357
			F	4.7 -0.9R		5.5 -1.1R		6.1 -1.2R		6.6 -1.3R		7 -1.3R		7.3 -1.3R		7.6 -1.3R		7.8 -1.3R		8 -1.3R	
	18 ga	4"	q_a / q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	4.3 -0.3R		4.5 -0.3R		4.6 -0.3R		4.7 -0.3R		4.7 -0.2R		4.8 -0.2R		4.8 -0.2R		4.8 -0.2R		4.8 -0.2R	
		6"	q_a / q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	4.7 -0.5R		5 -0.5R		5.2 -0.5R		5.3 -0.5R		5.4 -0.4R		5.5 -0.4R		5.6 -0.4R		5.6 -0.3R		5.7 -0.3R	
		8"	q_a / q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1339	2142	1084	1735
			F	4.9 -0.7R		5.4 -0.7R		5.7 -0.7R		5.9 -0.7R		6.1 -0.6R		6.2 -0.6R		6.3 -0.6R		6.4 -0.5R		6.5 -0.5R	
		12"	q_a / q_f	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1662	2676	1646	2651	1339	2142	1084	1735
			F	5.3 -0.9R		6 -1R		6.4 -1R		6.8 -1R		7.1 -1R		7.3 -1R		7.5 -1R		7.7 -1R		7.8 -0.9R	
		18"	q_a / q_f	1662	2676	1482	2386	1494	2406	1384	2228	1306	2103	1340	2158	1286	2071	1243	2001	1084	1735
			F	5.6 -1.1R		6.5 -1.3R		7.2 -1.4R		7.8 -1.5R		8.2 -1.6R		8.6 -1.6R		8.9 -1.6R		9.2 -1.6R		9.5 -1.5R	
		24"	q_a / q_f	1456	2344	1277	2056	1180	1900	1120	1803	1078	1736	1048	1688	1026	1651	1008	1623	993	1600
			F	5.9 -1.2R		6.9 -1.5R		7.8 -1.7R		8.5 -1.9R		9.1 -2R		9.6 -2R		10 -2.1R		10.4 -2.1R		10.8 -2.1R	
	20 ga	4"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	5.9 -0.6R		6.3 -0.6R		6.5 -0.6R		6.7 -0.5R		6.8 -0.5R		6.9 -0.5R		7 -0.4R		7.1 -0.4R		7.1 -0.4R	
		6"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	6.4 -0.8R		7 -0.9R		7.4 -0.9R		7.7 -0.9R		7.9 -0.9R		8.1 -0.8R		8.2 -0.8R		8.4 -0.8R		8.5 -0.7R	
		8"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	6.7 -1R		7.4 -1.2R		8 -1.2R		8.4 -1.2R		8.8 -1.2R		9.1 -1.2R		9.3 -1.2R		9.5 -1.1R		9.6 -1.1R	
		12"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1064	1714	1045	1683	1031	1659	879	1406	712	1139
			F	7 -1.3R		8.1 -1.5R		8.9 -1.7R		9.6 -1.8R		10.1 -1.8R		10.6 -1.9R		10.9 -1.9R		11.3 -1.8R		11.5 -1.8R	
		18"	q_a / q_f	1080	1728	966	1555	955	1538	872	1404	814	1311	830	1337	791	1274	760	1224	712	1139
			F	7.4 -1.5R		8.7 -1.9R		9.7 -2.2R		10.7 -2.4R		11.5 -2.5R		12.1 -2.6R		12.7 -2.7R		13.3 -2.8R		13.7 -2.8R	
		24"	q_a / q_f	987	1588	837	1348	757	1218	707	1138	673	1083	648	1043	629	1013	615	990	603	971
			F	7.5 -1.6R		9 -2.1R		10.3 -2.5R		11.4 -2.8R		12.4 -3.1R		13.2 -3.3R		14 -3.4R		14.7 -3.5R		15.3 -3.6R	
	22 ga	4"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	7.2 -0.8R		7.8 -0.9R		8.2 -0.9R		8.5 -0.9R		8.7 -0.8R		8.8 -0.8R		9 -0.7R		9.1 -0.7R		9.2 -0.7R	
		6"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	7.7 -1.1R		8.5 -1.3R		9.1 -1.3R		9.6 -1.3R		10 -1.3R		10.3 -1.3R		10.5 -1.3R		10.7 -1.2R		10.9 -1.2R	
		8"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	8 -1.3R		9 -1.6R		9.8 -1.7R		10.5 -1.8R		11 -1.8R		11.4 -1.8R		11.8 -1.8R		12.1 -1.7R		12.3 -1.7R	
		12"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	757	1219	673	1076	545	872
			F	8.4 -1.5R		9.7 -1.9R		10.8 -2.2R		11.7 -2.4R		12.5 -2.5R		13.1 -2.6R		13.7 -2.7R		14.2 -2.7R		14.6 -2.7R	
		18"	q_a / q_f	771	1233	736	1185	717	1155	649	1045	602	968	610	982	579	932	554	892	545	872
			F	8.7 -1.7R		10.3 -2.3R		11.6 -2.7R		12.8 -3.1R		13.9 -3.3R		14.8 -3.5R		15.7 -3.7R		16.4 -3.8R		17.1 -3.9R	
		24"	q_a / q_f	771	1233	637	1026	566	911	523	843	495	797	475	764	459	739	447	720	438	705
			F	8.8 -1.8R		10.6 -2.5R		12.2 -3.1R		13.6 -3.5R		14.8 -3.9R		16 -4.2R		17 -4.4R		18 -4.7R		18.8 -4.8R	

N-32 32/7 Support Attachment: Hilti X-ENP-19 PAF Side Seam Attachment: DeltaGrip

3.7 **DGN-32 & DGNF-32**

Pneutek SDK61 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																					
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a q_f	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R
		6"	q_a q_f	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	+0R	4.3	+0R	4.3	+0R	4.3	+0R
		8"	q_a q_f	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a q_f	1888	3040	1888	3040	1871	3012	1859	2994	1852	2981	1846	2972	1842	2965	1838	2959	1503	2405
			F	5.9	-0.4R	6	-0.3R	6.1	-0.3R	6.2	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.1R	6.3	-0.1R
		18"	q_a q_f	1751	3040	1614	2598	1670	2689	1598	2574	1546	2489	1592	2563	1553	2501	1522	2450	1503	2405
			F	7.3	-0.8R	7.7	-0.7R	7.9	-0.5R	8	-0.5R	8.1	-0.4R	8.1	-0.4R	8.2	-0.3R	8.2	-0.3R	8.3	-0.3R
		24"	q_a q_f	1483	2388	1401	2256	1357	2184	1329	2140	1310	2110	1297	2088	1286	2071	1278	2058	1271	2047
			F	8.5	-1.2R	9.1	-1R	9.4	-0.9R	9.7	-0.8R	9.8	-0.7R	9.9	-0.6R	10	-0.5R	10.1	-0.5R	10.1	-0.5R
	18 ga	4"	q_a q_f	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	+0R	5	+0R	5	+0R	5	+0R
		6"	q_a q_f	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	5.8	-0.3R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R	6	-0.1R	6.1	-0.1R	6.1	-0.1R
		8"	q_a q_f	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	6.6	-0.4R	6.8	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R	7.1	-0.2R	7.1	-0.1R	7.1	-0.1R
		12"	q_a q_f	1457	2346	1416	2280	1394	2244	1380	2221	1370	2206	1363	2195	1358	2187	1339	2142	1084	1735
			F	8.1	-0.8R	8.5	-0.7R	8.7	-0.5R	8.8	-0.5R	8.9	-0.4R	9	-0.4R	9.1	-0.3R	9.1	-0.3R	9.1	-0.3R
		18"	q_a q_f	1302	2346	1173	1888	1213	1953	1148	1848	1100	1772	1137	1830	1102	1775	1075	1730	1084	1735
			F	10.1	-1.4R	10.8	-1.2R	11.2	-1.1R	11.5	-0.9R	11.7	-0.8R	11.8	-0.7R	11.9	-0.7R	12	-0.6R	12	-0.6R
		24"	q_a q_f	1084	1746	1003	1615	960	1545	933	1501	914	1472	901	1450	891	1434	883	1421	876	1411
			F	11.7	-2R	12.8	-1.8R	13.4	-1.6R	13.9	-1.5R	14.2	-1.3R	14.4	-1.2R	14.6	-1.1R	14.7	-1R	14.8	-0.9R
	20 ga	4"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.3	-0.3R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R
		6"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.7	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R	9.4	-0.2R	9.4	-0.2R	9.4	-0.2R
		8"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	10	-1R	10.5	-0.8R	10.7	-0.7R	10.9	-0.6R	11	-0.5R	11.1	-0.4R	11.1	-0.4R	11.2	-0.4R	11.2	-0.3R
		12"	q_a q_f	994	1600	948	1526	923	1486	907	1461	897	1444	889	1431	883	1422	878	1406	712	1139
			F	12.3	-1.7R	13.1	-1.5R	13.6	-1.3R	13.9	-1.1R	14.2	-1R	14.3	-0.9R	14.5	-0.8R	14.6	-0.7R	14.6	-0.7R
		18"	q_a q_f	873	1600	763	1228	783	1260	730	1176	693	1116	716	1153	689	1110	668	1076	687	1107
			F	14.9	-2.8R	16.5	-2.6R	17.4	-2.3R	18.1	-2.1R	18.5	-1.9R	18.9	-1.7R	19.1	-1.6R	19.4	-1.5R	19.5	-1.4R
		24"	q_a q_f	720	1160	647	1041	608	978	583	939	567	913	555	894	546	879	539	868	533	859
			F	17	-3.7R	19.3	-3.6R	20.7	-3.4R	21.7	-3.2R	22.5	-2.9R	23	-2.7R	23.4	-2.5R	23.8	-2.4R	24.1	-2.2R
	22 ga	4"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.4	-0.6R	9.6	-0.4R	9.7	-0.3R	9.8	-0.3R	9.9	-0.3R	9.9	-0.2R	9.9	-0.2R	10	-0.2R	10	-0.2R
		6"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.3	-1.1R	11.8	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.5R	12.4	-0.5R	12.5	-0.4R	12.5	-0.4R	12.6	-0.3R
		8"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	13	-1.6R	13.8	-1.3R	14.2	-1.1R	14.5	-1R	14.7	-0.9R	14.8	-0.8R	14.9	-0.7R	15	-0.6R	15.1	-0.6R
		12"	q_a q_f	769	1233	722	1163	698	1123	682	1098	671	1081	664	1068	658	1059	653	1052	545	872
			F	15.8	-2.6R	17.2	-2.4R	18	-2.1R	18.6	-1.9R	19	-1.7R	19.3	-1.5R	19.5	-1.4R	19.7	-1.3R	19.9	-1.2R
		18"	q_a q_f	672	1233	575	926	586	943	541	872	510	822	526	847	505	813	488	785	501	807
			F	18.9	-4R	21.4	-3.9R	22.9	-3.7R	24	-3.4R	24.8	-3.2R	25.4	-2.9R	25.8	-2.7R	26.2	-2.5R	26.5	-2.4R
		24"	q_a q_f	554	893	488	785	453	729	431	694	416	670	405	653	397	640	391	630	386	621
			F	21.2	-5.2R	24.7	-5.4R	27	-5.2R	28.6	-5R	29.8	-4.7R	30.8	-4.5R	31.5	-4.2R	32.1	-4R	32.6	-3.8R

N-32 32/5 Support Attachment: Pneutek SDK61 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.7

Pneutek SDK61 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R
		6"	q_a	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	4.1	-0.2R	4.2	-0.1R	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R
		8"	q_a	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	4.6	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1888	3040	1856	2969	1503	2405
			F	5.5	-0.6R	5.8	-0.5R	6	-0.4R	6.1	-0.3R	6.1	-0.3R	6.2	-0.3R	6.2	-0.2R	6.2	-0.2R	6.3	-0.2R
		18"	q_a	1888	3040	1888	3040	1888	3040	1888	3040	1817	2926	1870	3010	1808	2911	1759	2831	1503	2405
			F	6.7	-1R	7.2	-0.8R	7.5	-0.7R	7.7	-0.7R	7.8	-0.6R	7.9	-0.5R	8	-0.5R	8	-0.4R	8.1	-0.4R
		24"	q_a	1886	3037	1712	2756	1617	2603	1557	2506	1516	2440	1486	2392	1463	2356	1445	2327	1431	2304
			F	7.6	-1.3R	8.3	-1.2R	8.8	-1.1R	9.1	-1R	9.3	-0.9R	9.5	-0.8R	9.6	-0.8R	9.7	-0.7R	9.8	-0.7R
	18 ga	4"	q_a	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	4.8	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		6"	q_a	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	5.6	-0.4R	5.8	-0.3R	5.8	-0.2R	5.9	-0.2R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R
		8"	q_a	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	6.3	-0.6R	6.6	-0.5R	6.7	-0.4R	6.8	-0.3R	6.9	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R
		12"	q_a	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1551	2497	1339	2142	1084	1735
			F	7.5	-1R	8	-0.9R	8.3	-0.7R	8.5	-0.7R	8.7	-0.6R	8.8	-0.5R	8.8	-0.5R	8.9	-0.4R	8.9	-0.4R
		18"	q_a	1551	2497	1433	2307	1450	2335	1348	2170	1275	2052	1309	2108	1259	2026	1218	1961	1084	1735
			F	8.9	-1.6R	9.9	-1.5R	10.4	-1.3R	10.8	-1.2R	11.1	-1.1R	11.3	-1R	11.4	-0.9R	11.6	-0.9R	11.7	-0.8R
		24"	q_a	1397	2249	1235	1988	1147	1846	1092	1757	1054	1697	1027	1653	1006	1619	990	1593	976	1572
			F	10	-2.1R	11.3	-2.1R	12.2	-2R	12.8	-1.8R	13.2	-1.7R	13.5	-1.6R	13.8	-1.5R	14	-1.4R	14.2	-1.3R
	20 ga	4"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7	-0.4R	7.2	-0.4R	7.3	-0.3R	7.4	-0.2R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.5	-0.1R
		6"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.2	-0.8R	8.6	-0.7R	8.8	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R
		8"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	9.3	-1.2R	9.9	-1R	10.2	-0.9R	10.5	-0.8R	10.6	-0.7R	10.8	-0.6R	10.8	-0.6R	10.9	-0.5R	11	-0.5R
		12"	q_a	1080	1728	1080	1728	1080	1728	1067	1718	1043	1679	1026	1651	1012	1630	879	1406	712	1139
			F	10.9	-1.9R	12	-1.8R	12.7	-1.6R	13.1	-1.5R	13.5	-1.3R	13.7	-1.2R	13.9	-1.1R	14.1	-1.1R	14.2	-1R
		18"	q_a	1080	1728	940	1513	933	1503	854	1376	799	1287	816	1314	779	1254	749	1206	712	1139
			F	12.7	-2.7R	14.5	-2.8R	15.7	-2.7R	16.5	-2.6R	17.1	-2.4R	17.6	-2.3R	18	-2.1R	18.3	-2R	18.5	-1.9R
		24"	q_a	953	1534	813	1309	738	1189	692	1113	660	1062	637	1025	619	997	606	975	595	958
			F	14	-3.4R	16.4	-3.7R	18.1	-3.7R	19.3	-3.6R	20.2	-3.5R	21	-3.4R	21.6	-3.2R	22.1	-3.1R	22.5	-2.9R
	22 ga	4"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9	-0.7R	9.3	-0.6R	9.5	-0.5R	9.6	-0.4R	9.7	-0.4R	9.8	-0.3R	9.8	-0.3R	9.8	-0.3R	9.9	-0.2R
		6"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	10.5	-1.3R	11.2	-1.1R	11.5	-1R	11.8	-0.8R	12	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.6R	12.3	-0.5R
		8"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.8	-1.8R	12.8	-1.6R	13.4	-1.5R	13.8	-1.3R	14	-1.2R	14.3	-1.1R	14.4	-1R	14.6	-0.9R	14.7	-0.9R
		12"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	759	1221	746	1201	673	1076	545	872
			F	13.7	-2.7R	15.4	-2.6R	16.5	-2.5R	17.2	-2.4R	17.8	-2.2R	18.2	-2.1R	18.5	-1.9R	18.8	-1.8R	19	-1.7R
		18"	q_a	771	1233	718	1156	702	1131	637	1026	592	952	601	967	571	919	547	881	545	872
			F	15.7	-3.7R	18.3	-4R	20.1	-4R	21.4	-3.9R	22.4	-3.8R	23.2	-3.6R	23.8	-3.5R	24.4	-3.3R	24.8	-3.1R
		24"	q_a	748	1205	624	1004	556	895	515	829	488	786	469	755	454	731	443	713	434	698
			F	17	-4.4R	20.4	-5.1R	22.8	-5.3R	24.7	-5.4R	26.2	-5.3R	27.4	-5.2R	28.3	-5R	29.2	-4.9R	29.9	-4.7R

N-32 32/7 Support Attachment: Pneutek SDK61 PAF Side Seam Attachment: DeltaGrip

3.7 **DGN-32 & DGNF-32**

Pneutek SDK63 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)									
		Span →	4' - 0"	6' - 0"	8' - 0"	10' - 0"	12' - 0"	14' - 0"	16' - 0"	18' - 0"	20' - 0"	
32/5	16 ga	4"	q_a 1826	1826	1826	1826	1826	1826	1826	1826	1503	
			q_f 2939	2939	2939	2939	2939	2939	2939	2939	2405	
			F 3.6 -0.1R	3.6 +0R	3.6 +0R	3.6 +0R	3.7 +0R	3.7 +0R	3.7 +0R	3.7 +0R	3.7 +0R	
		6"	q_a 1826	1826	1826	1826	1826	1826	1826	1826	1503	
			q_f 2939	2939	2939	2939	2939	2939	2939	2939	2405	
			F 4.2 -0.1R	4.3 -0.1R	4.3 -0.1R	4.3 -0.1R	4.3 -0.1R	4.3 +0R	4.3 +0R	4.3 +0R	4.3 +0R	
		8"	q_a 1826	1826	1826	1826	1826	1826	1826	1826	1503	
			q_f 2939	2939	2939	2939	2939	2939	2939	2939	2405	
			F 4.8 -0.2R	4.9 -0.2R	4.9 -0.1R	5 -0.1R	5 -0.1R	5 -0.1R	5 -0.1R	5 -0.1R	5 -0.1R	
		12"	q_a 1826	1826	1826	1819	1812	1806	1803	1799	1503	
			q_f 2939	2939	2939	2928	2917	2908	2902	2897	2405	
			F 5.9 -0.4R	6 -0.3R	6.1 -0.3R	6.2 -0.2R	6.3 -0.2R	6.3 -0.2R	6.3 -0.2R	6.3 -0.1R	6.3 -0.1R	
		18"	q_a 1713	1584	1639	1571	1521	1565	1528	1498	1503	
			q_f 2939	2550	2638	2529	2448	2520	2461	2412	2405	
			F 7.3 -0.8R	7.7 -0.7R	7.9 -0.5R	8 -0.5R	8.1 -0.4R	8.1 -0.4R	8.2 -0.3R	8.2 -0.3R	8.3 -0.3R	
		24"	q_a 1455	1378	1337	1311	1293	1280	1271	1263	1257	
			q_f 2343	2219	2152	2111	2082	2061	2046	2033	2023	
			F 8.5 -1.2R	9.1 -1R	9.4 -0.9R	9.7 -0.8R	9.8 -0.7R	9.9 -0.6R	10 -0.5R	10.1 -0.5R	10.1 -0.5R	
	18 ga	4"	q_a 1569	1569	1569	1569	1569	1569	1569	1339	1084	
			q_f 2526	2526	2526	2526	2526	2526	2526	2142	1735	
			F 4.9 -0.1R	4.9 -0.1R	5 -0.1R	5 -0.1R	5 -0.1R	5 +0R	5 +0R	5 +0R	5 +0R	
		6"	q_a 1569	1569	1569	1569	1569	1569	1569	1339	1084	
			q_f 2526	2526	2526	2526	2526	2526	2526	2142	1735	
			F 5.8 -0.3R	5.9 -0.2R	6 -0.2R	6 -0.1R	6 -0.1R	6 -0.1R	6 -0.1R	6.1 -0.1R	6.1 -0.1R	
		8"	q_a 1569	1569	1569	1569	1569	1569	1569	1339	1084	
			q_f 2526	2526	2526	2526	2526	2526	2526	2142	1735	
			F 6.6 -0.4R	6.8 -0.3R	6.9 -0.3R	7 -0.2R	7 -0.2R	7 -0.2R	7.1 -0.2R	7.1 -0.1R	7.1 -0.1R	
		12"	q_a 1468	1426	1403	1389	1379	1372	1366	1339	1084	
			q_f 2364	2296	2259	2236	2220	2209	2200	2142	1735	
			F 8.1 -0.8R	8.5 -0.7R	8.7 -0.5R	8.8 -0.5R	8.9 -0.4R	9 -0.4R	9.1 -0.3R	9.1 -0.3R	9.1 -0.3R	
		18"	q_a 1311	1179	1220	1153	1106	1142	1107	1079	1084	
			q_f 2364	1899	1964	1857	1780	1839	1783	1738	1735	
			F 10.1 -1.4R	10.8 -1.2R	11.2 -1.1R	11.5 -0.9R	11.7 -0.8R	11.8 -0.7R	11.9 -0.7R	12 -0.6R	12 -0.6R	
		24"	q_a 1091	1008	964	936	918	904	894	885	879	
			q_f 1757	1623	1552	1508	1477	1455	1439	1426	1415	
			F 11.7 -2R	12.8 -1.8R	13.4 -1.6R	13.9 -1.5R	14.2 -1.3R	14.4 -1.2R	14.6 -1.1R	14.7 -1R	14.8 -0.9R	
	20 ga	4"	q_a 1080	1080	1080	1080	1080	1080	1080	879	712	
			q_f 1728	1728	1728	1728	1728	1728	1728	1406	1139	
			F 7.3 -0.3R	7.4 -0.2R	7.5 -0.2R	7.5 -0.2R	7.5 -0.1R	7.6 -0.1R	7.6 -0.1R	7.6 -0.1R	7.6 -0.1R	
		6"	q_a 1080	1080	1080	1080	1080	1080	1080	879	712	
			q_f 1728	1728	1728	1728	1728	1728	1728	1406	1139	
			F 8.7 -0.6R	9 -0.5R	9.1 -0.4R	9.2 -0.3R	9.3 -0.3R	9.3 -0.3R	9.4 -0.2R	9.4 -0.2R	9.4 -0.2R	
		8"	q_a 1080	1080	1080	1080	1080	1080	1080	879	712	
			q_f 1728	1728	1728	1728	1728	1728	1728	1406	1139	
			F 10 -1R	10.5 -0.8R	10.7 -0.7R	10.9 -0.6R	11 -0.5R	11.1 -0.4R	11.1 -0.4R	11.2 -0.4R	11.2 -0.3R	
		12"	q_a 1034	982	953	935	923	914	907	879	712	
			q_f 1665	1580	1534	1506	1486	1472	1461	1406	1139	
			F 12.3 -1.7R	13.1 -1.5R	13.6 -1.3R	13.9 -1.1R	14.2 -1R	14.3 -0.9R	14.5 -0.8R	14.6 -0.7R	14.6 -0.7R	
		18"	q_a 907	786	805	748	709	732	704	681	701	
			q_f 1665	1266	1296	1205	1141	1178	1133	1097	1128	
			F 14.9 -2.8R	16.5 -2.6R	17.4 -2.3R	18.1 -2.1R	18.5 -1.9R	18.9 -1.7R	19.1 -1.6R	19.4 -1.5R	19.5 -1.4R	
		24"	q_a 748	667	624	597	579	566	556	548	542	
			q_f 1204	1073	1004	961	932	911	895	882	872	
			F 17 -3.7R	19.3 -3.6R	20.7 -3.4R	21.7 -3.2R	22.5 -2.9R	23 -2.7R	23.4 -2.5R	23.8 -2.4R	24.1 -2.2R	
	22 ga	4"	q_a 771	771	771	771	771	771	771	673	545	
			q_f 1233	1233	1233	1233	1233	1233	1233	1076	872	
			F 9.4 -0.6R	9.6 -0.4R	9.7 -0.3R	9.8 -0.3R	9.9 -0.3R	9.9 -0.2R	9.9 -0.2R	10 -0.2R	10 -0.2R	
		6"	q_a 771	771	771	771	771	771	771	673	545	
			q_f 1233	1233	1233	1233	1233	1233	1233	1076	872	
			F 11.3 -1.1R	11.8 -0.8R	12.1 -0.7R	12.2 -0.6R	12.3 -0.5R	12.4 -0.5R	12.5 -0.4R	12.5 -0.4R	12.6 -0.3R	
		8"	q_a 771	771	771	771	771	771	771	673	545	
			q_f 1233	1233	1233	1233	1233	1233	1233	1076	872	
			F 13 -1.6R	13.8 -1.3R	14.2 -1.1R	14.5 -1R	14.7 -0.9R	14.8 -0.8R	14.9 -0.7R	15 -0.6R	15.1 -0.6R	
		12"	q_a 771	758	728	710	697	688	681	673	545	
			q_f 1233	1221	1173	1143	1122	1107	1096	1076	872	
			F 15.8 -2.6R	17.2 -2.4R	18 -2.1R	18.6 -1.9R	19 -1.7R	19.3 -1.5R	19.5 -1.4R	19.7 -1.3R	19.9 -1.2R	
		18"	q_a 710	602	609	560	527	542	519	500	514	
			q_f 1233	969	981	902	848	873	835	805	827	
			F 18.9 -4R	21.4 -3.9R	22.9 -3.7R	24 -3.4R	24.8 -3.2R	25.4 -2.9R	25.8 -2.7R	26.2 -2.5R	26.5 -2.4R	
		24"	q_a 588	511	471	446	429	417	408	401	395	
			q_f 946	823	758	718	691	671	656	645	636	
			F 21.2 -5.2R	24.7 -5.4R	27 -5.2R	28.6 -5R	29.8 -4.7R	30.8 -4.5R	31.5 -4.2R	32.1 -4R	32.6 -3.8R	

N-32 32/5 Support Attachment: Pneutek SDK63 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.7

Pneutek SDK63 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1503	2405
			F	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R
		6"	q_a	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1503	2405
			F	4.1	-0.2R	4.2	-0.1R	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R
		8"	q_a	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1503	2405
			F	4.6	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1826	2939	1503	2405
			F	5.5	-0.6R	5.8	-0.5R	6	-0.4R	6.1	-0.3R	6.1	-0.3R	6.2	-0.3R	6.2	-0.2R	6.2	-0.2R	6.3	-0.2R
		18"	q_a	1826	2939	1826	2939	1826	2939	1826	2939	1793	2886	1826	2939	1785	2874	1737	2797	1503	2405
			F	6.7	-1R	7.2	-0.8R	7.5	-0.7R	7.7	-0.7R	7.8	-0.6R	7.9	-0.5R	8	-0.5R	8	-0.4R	8.1	-0.4R
		24"	q_a	1826	2939	1684	2711	1594	2566	1537	2474	1498	2412	1469	2366	1448	2331	1431	2304	1417	2282
			F	7.6	-1.3R	8.3	-1.2R	8.8	-1.1R	9.1	-1R	9.3	-0.9R	9.5	-0.8R	9.6	-0.8R	9.7	-0.7R	9.8	-0.7R
	18 ga	4"	q_a	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1339	2142	1084	1735
			F	4.8	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		6"	q_a	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1339	2142	1084	1735
			F	5.6	-0.4R	5.8	-0.3R	5.8	-0.2R	5.9	-0.2R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R
		8"	q_a	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1339	2142	1084	1735
			F	6.3	-0.6R	6.6	-0.5R	6.7	-0.4R	6.8	-0.3R	6.9	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R
		12"	q_a	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1569	2526	1339	2142	1084	1735
			F	7.5	-1R	8	-0.9R	8.3	-0.7R	8.5	-0.7R	8.7	-0.6R	8.8	-0.5R	8.8	-0.5R	8.9	-0.4R	8.9	-0.4R
		18"	q_a	1569	2526	1441	2320	1458	2347	1354	2180	1280	2061	1315	2117	1263	2034	1222	1968	1084	1735
			F	8.9	-1.6R	9.9	-1.5R	10.4	-1.3R	10.8	-1.2R	11.1	-1.1R	11.3	-1R	11.4	-0.9R	11.6	-0.9R	11.7	-0.8R
		24"	q_a	1407	2265	1242	1999	1152	1855	1096	1765	1058	1703	1030	1659	1009	1625	993	1598	979	1577
			F	10	-2.1R	11.3	-2.1R	12.2	-2R	12.8	-1.8R	13.2	-1.7R	13.5	-1.6R	13.8	-1.5R	14	-1.4R	14.2	-1.3R
	20 ga	4"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7	-0.4R	7.2	-0.4R	7.3	-0.3R	7.4	-0.2R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.5	-0.1R
		6"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.2	-0.8R	8.6	-0.7R	8.8	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R
		8"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	9.3	-1.2R	9.9	-1R	10.2	-0.9R	10.5	-0.8R	10.6	-0.7R	10.8	-0.6R	10.8	-0.6R	10.9	-0.5R	11	-0.5R
		12"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1070	1723	1050	1691	1036	1667	879	1406	712	1139
			F	10.9	-1.9R	12	-1.8R	12.7	-1.6R	13.1	-1.5R	13.5	-1.3R	13.7	-1.2R	13.9	-1.1R	14.1	-1.1R	14.2	-1R
		18"	q_a	1080	1728	973	1567	961	1548	877	1412	818	1317	834	1343	794	1279	763	1229	712	1139
			F	12.7	-2.7R	14.5	-2.8R	15.7	-2.7R	16.5	-2.6R	17.1	-2.4R	17.6	-2.3R	18	-2.1R	18.3	-2R	18.5	-1.9R
		24"	q_a	996	1604	844	1358	762	1226	711	1144	676	1089	651	1048	632	1018	617	994	605	975
			F	14	-3.4R	16.4	-3.7R	18.1	-3.7R	19.3	-3.6R	20.2	-3.5R	21	-3.4R	21.6	-3.2R	22.1	-3.1R	22.5	-2.9R
	22 ga	4"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9	-0.7R	9.3	-0.6R	9.5	-0.5R	9.6	-0.4R	9.7	-0.4R	9.8	-0.3R	9.8	-0.3R	9.8	-0.3R	9.9	-0.2R
		6"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	10.5	-1.3R	11.2	-1.1R	11.5	-1R	11.8	-0.8R	12	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.6R	12.3	-0.5R
		8"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.8	-1.8R	12.8	-1.6R	13.4	-1.5R	13.8	-1.3R	14	-1.2R	14.3	-1.1R	14.4	-1R	14.6	-0.9R	14.7	-0.9R
		12"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	770	1233	673	1076	545	872
			F	13.7	-2.7R	15.4	-2.6R	16.5	-2.5R	17.2	-2.4R	17.8	-2.2R	18.2	-2.1R	18.5	-1.9R	18.8	-1.8R	19	-1.7R
		18"	q_a	771	1233	758	1220	735	1183	663	1067	613	988	621	999	588	947	563	906	545	872
			F	15.7	-3.7R	18.3	-4R	20.1	-4R	21.4	-3.9R	22.4	-3.8R	23.2	-3.6R	23.8	-3.5R	24.4	-3.3R	24.8	-3.1R
		24"	q_a	771	1233	654	1053	579	932	533	859	503	810	482	776	466	750	453	729	443	713
			F	17	-4.4R	20.4	-5.1R	22.8	-5.3R	24.7	-5.4R	26.2	-5.3R	27.4	-5.2R	28.3	-5R	29.2	-4.9R	29.9	-4.7R

N-32 32/7 Support Attachment: Pneutek SDK63 PAF Side Seam Attachment: DeltaGrip

3.7 **DGN-32 & DGNF-32**

Pneutek K64 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																					
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R
		6"	q_a q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	+0R	4.3	+0R	4.3	+0R	4.3	+0R
		8"	q_a q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a q_f	2259	3638	2197	3538	2164	3484	2143	3450	2128	3427	2118	3410	2110	3397	1856	2969	1503	2405
			F	5.9	-0.4R	6	-0.3R	6.1	-0.3R	6.2	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.1R	6.3	-0.1R
		18"	q_a q_f	2022	3638	1823	2935	1886	3036	1785	2874	1713	2758	1769	2848	1716	2763	1674	2695	1503	2405
			F	7.3	-0.8R	7.7	-0.7R	7.9	-0.5R	8	-0.5R	8.1	-0.4R	8.1	-0.4R	8.2	-0.3R	8.2	-0.3R	8.3	-0.3R
		24"	q_a q_f	1684	2712	1560	2512	1494	2405	1452	2338	1424	2293	1404	2260	1388	2235	1376	2215	1366	2199
			F	8.5	-1.2R	9.1	-1R	9.4	-0.9R	9.7	-0.8R	9.8	-0.7R	9.9	-0.6R	10	-0.5R	10.1	-0.5R	10.1	-0.5R
	18 ga	4"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	+0R	5	+0R	5	+0R	5	+0R
		6"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	5.8	-0.3R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R	6	-0.1R	6.1	-0.1R	6.1	-0.1R
		8"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	6.6	-0.4R	6.8	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R	7.1	-0.2R	7.1	-0.1R	7.1	-0.1R
		12"	q_a q_f	1680	2704	1611	2593	1574	2533	1550	2496	1534	2470	1523	2452	1514	2437	1339	2142	1084	1735
			F	8.1	-0.8R	8.5	-0.7R	8.7	-0.5R	8.8	-0.5R	8.9	-0.4R	9	-0.4R	9.1	-0.3R	9.1	-0.3R	9.1	-0.3R
		18"	q_a q_f	1482	2704	1304	2100	1343	2162	1257	2024	1196	1926	1236	1990	1193	1920	1158	1864	1084	1735
			F	10.1	-1.4R	10.8	-1.2R	11.2	-1.1R	11.5	-0.9R	11.7	-0.8R	11.8	-0.7R	11.9	-0.7R	12	-0.6R	12	-0.6R
		24"	q_a q_f	1224	1970	1108	1783	1046	1684	1007	1622	981	1580	963	1550	948	1527	937	1509	928	1494
			F	11.7	-2R	12.8	-1.8R	13.4	-1.6R	13.9	-1.5R	14.2	-1.3R	14.4	-1.2R	14.6	-1.1R	14.7	-1R	14.8	-0.9R
	20 ga	4"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.3	-0.3R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R
		6"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.7	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R	9.4	-0.2R	9.4	-0.2R	9.4	-0.2R
		8"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	10	-1R	10.5	-0.8R	10.7	-0.7R	10.9	-0.6R	11	-0.5R	11.1	-0.4R	11.1	-0.4R	11.2	-0.4R	11.2	-0.3R
		12"	q_a q_f	1080	1728	1036	1669	1001	1612	979	1576	964	1552	953	1535	945	1521	879	1406	712	1139
			F	12.3	-1.7R	13.1	-1.5R	13.6	-1.3R	13.9	-1.1R	14.2	-1R	14.3	-0.9R	14.5	-0.8R	14.6	-0.7R	14.6	-0.7R
		18"	q_a q_f	963	1728	826	1329	841	1354	778	1252	734	1181	756	1218	726	1168	701	1129	712	1139
			F	14.9	-2.8R	16.5	-2.6R	17.4	-2.3R	18.1	-2.1R	18.5	-1.9R	18.9	-1.7R	19.1	-1.6R	19.4	-1.5R	19.5	-1.4R
		24"	q_a q_f	795	1280	700	1127	650	1046	619	997	598	963	583	938	571	920	562	905	555	894
			F	17	-3.7R	19.3	-3.6R	20.7	-3.4R	21.7	-3.2R	22.5	-2.9R	23	-2.7R	23.4	-2.5R	23.8	-2.4R	24.1	-2.2R
	22 ga	4"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.4	-0.6R	9.6	-0.4R	9.7	-0.3R	9.8	-0.3R	9.9	-0.3R	9.9	-0.2R	9.9	-0.2R	10	-0.2R	10	-0.2R
		6"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.3	-1.1R	11.8	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.5R	12.4	-0.5R	12.5	-0.4R	12.5	-0.4R	12.6	-0.3R
		8"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	13	-1.6R	13.8	-1.3R	14.2	-1.1R	14.5	-1R	14.7	-0.9R	14.8	-0.8R	14.9	-0.7R	15	-0.6R	15.1	-0.6R
		12"	q_a q_f	771	1233	760	1223	729	1174	711	1144	698	1123	689	1109	681	1097	673	1076	545	872
			F	15.8	-2.6R	17.2	-2.4R	18	-2.1R	18.6	-1.9R	19	-1.7R	19.3	-1.5R	19.5	-1.4R	19.7	-1.3R	19.9	-1.2R
		18"	q_a q_f	711	1233	603	971	610	982	561	903	527	849	543	874	519	836	501	806	514	828
			F	18.9	-4R	21.4	-3.9R	22.9	-3.7R	24	-3.4R	24.8	-3.2R	25.4	-2.9R	25.8	-2.7R	26.2	-2.5R	26.5	-2.4R
		24"	q_a q_f	589	948	512	824	471	759	446	719	430	692	417	672	408	657	401	645	395	636
			F	21.2	-5.2R	24.7	-5.4R	27	-5.2R	28.6	-5R	29.8	-4.7R	30.8	-4.5R	31.5	-4.2R	32.1	-4R	32.6	-3.8R

N-32 32/5 Support Attachment: Pneutek K64 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.7

Pneutek K64 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																	
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a / q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	3.6 -0.1R		3.6 -0.1R		3.6 -0.1R		3.6 +0R		3.6 +0R		3.6 +0R		3.6 +0R		3.7 +0R		3.7 +0R	
		6"	q_a / q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	4.1 -0.2R		4.2 -0.1R		4.2 -0.1R		4.3 -0.1R		4.3 -0.1R		4.3 -0.1R		4.3 -0.1R		4.3 -0.1R		4.3 -0.1R	
		8"	q_a / q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	4.6 -0.3R		4.8 -0.2R		4.8 -0.2R		4.9 -0.2R		4.9 -0.1R		4.9 -0.1R		5 -0.1R		5 -0.1R		5 -0.1R	
		12"	q_a / q_f	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2393	3852	2349	3758	1856	2969	1503	2405
			F	5.5 -0.6R		5.8 -0.5R		6 -0.4R		6.1 -0.3R		6.1 -0.3R		6.2 -0.3R		6.2 -0.2R		6.2 -0.2R		6.3 -0.2R	
		18"	q_a / q_f	2393	3852	2227	3585	2255	3631	2098	3377	1985	3196	2040	3284	1961	3157	1856	2969	1503	2405
			F	6.7 -1R		7.2 -0.8R		7.5 -0.7R		7.7 -0.7R		7.8 -0.6R		7.9 -0.5R		8 -0.5R		8 -0.4R		8.1 -0.4R	
		24"	q_a / q_f	2168	3491	1919	3090	1784	2872	1700	2736	1642	2643	1600	2576	1568	2524	1543	2484	1503	2405
			F	7.6 -1.3R		8.3 -1.2R		8.8 -1.1R		9.1 -1R		9.3 -0.9R		9.5 -0.8R		9.6 -0.8R		9.7 -0.7R		9.8 -0.7R	
	18 ga	4"	q_a / q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	4.8 -0.2R		4.9 -0.1R		4.9 -0.1R		4.9 -0.1R		5 -0.1R		5 -0.1R		5 -0.1R		5 -0.1R		5 -0.1R	
		6"	q_a / q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	5.6 -0.4R		5.8 -0.3R		5.8 -0.2R		5.9 -0.2R		5.9 -0.2R		6 -0.2R		6 -0.1R		6 -0.1R		6 -0.1R	
		8"	q_a / q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	6.3 -0.6R		6.6 -0.5R		6.7 -0.4R		6.8 -0.3R		6.9 -0.3R		6.9 -0.3R		7 -0.2R		7 -0.2R		7 -0.2R	
		12"	q_a / q_f	1824	2918	1824	2918	1824	2918	1824	2918	1794	2888	1767	2844	1694	2711	1339	2142	1084	1735
			F	7.5 -1R		8 -0.9R		8.3 -0.7R		8.5 -0.7R		8.7 -0.6R		8.8 -0.5R		8.8 -0.5R		8.9 -0.4R		8.9 -0.4R	
		18"	q_a / q_f	1824	2918	1602	2579	1600	2575	1470	2367	1379	2220	1411	2272	1349	2172	1300	2092	1084	1735
			F	8.9 -1.6R		9.9 -1.5R		10.4 -1.3R		10.8 -1.2R		11.1 -1.1R		11.3 -1R		11.4 -0.9R		11.6 -0.9R		11.7 -0.8R	
		24"	q_a / q_f	1606	2585	1383	2227	1263	2034	1189	1914	1138	1832	1101	1773	1073	1728	1051	1692	1034	1664
			F	10 -2.1R		11.3 -2.1R		12.2 -2R		12.8 -1.8R		13.2 -1.7R		13.5 -1.6R		13.8 -1.5R		14 -1.4R		14.2 -1.3R	
	20 ga	4"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7 -0.4R		7.2 -0.4R		7.3 -0.3R		7.4 -0.2R		7.4 -0.2R		7.5 -0.2R		7.5 -0.2R		7.5 -0.1R		7.5 -0.1R	
		6"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.2 -0.8R		8.6 -0.7R		8.8 -0.6R		9 -0.5R		9.1 -0.4R		9.2 -0.4R		9.2 -0.3R		9.3 -0.3R		9.3 -0.3R	
		8"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	9.3 -1.2R		9.9 -1R		10.2 -0.9R		10.5 -0.8R		10.6 -0.7R		10.8 -0.6R		10.8 -0.6R		10.9 -0.5R		11 -0.5R	
		12"	q_a / q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1072	1726	879	1406	712	1139
			F	10.9 -1.9R		12 -1.8R		12.7 -1.6R		13.1 -1.5R		13.5 -1.3R		13.7 -1.2R		13.9 -1.1R		14.1 -1.1R		14.2 -1R	
		18"	q_a / q_f	1080	1728	1030	1658	1008	1623	915	1473	850	1368	863	1390	820	1321	786	1266	712	1139
			F	12.7 -2.7R		14.5 -2.8R		15.7 -2.7R		16.5 -2.6R		17.1 -2.4R		17.6 -2.3R		18 -2.1R		18.3 -2R		18.5 -1.9R	
		24"	q_a / q_f	1072	1725	895	1441	798	1285	740	1192	701	1129	674	1085	653	1052	637	1025	623	1003
			F	14 -3.4R		16.4 -3.7R		18.1 -3.7R		19.3 -3.6R		20.2 -3.5R		21 -3.4R		21.6 -3.2R		22.1 -3.1R		22.5 -2.9R	
	22 ga	4"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9 -0.7R		9.3 -0.6R		9.5 -0.5R		9.6 -0.4R		9.7 -0.4R		9.8 -0.3R		9.8 -0.3R		9.8 -0.3R		9.9 -0.2R	
		6"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	10.5 -1.3R		11.2 -1.1R		11.5 -1R		11.8 -0.8R		12 -0.8R		12.1 -0.7R		12.2 -0.6R		12.3 -0.6R		12.3 -0.5R	
		8"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.8 -1.8R		12.8 -1.6R		13.4 -1.5R		13.8 -1.3R		14 -1.2R		14.3 -1.1R		14.4 -1R		14.6 -0.9R		14.7 -0.9R	
		12"	q_a / q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	13.7 -2.7R		15.4 -2.6R		16.5 -2.5R		17.2 -2.4R		17.8 -2.2R		18.2 -2.1R		18.5 -1.9R		18.8 -1.8R		19 -1.7R	
		18"	q_a / q_f	771	1233	759	1222	736	1185	664	1069	614	989	621	1000	589	948	563	906	545	872
			F	15.7 -3.7R		18.3 -4R		20.1 -4R		21.4 -3.9R		22.4 -3.8R		23.2 -3.6R		23.8 -3.5R		24.4 -3.3R		24.8 -3.1R	
		24"	q_a / q_f	771	1233	655	1055	580	933	534	860	504	811	482	776	466	750	453	730	443	714
			F	17 -4.4R		20.4 -5.1R		22.8 -5.3R		24.7 -5.4R		26.2 -5.3R		27.4 -5.2R		28.3 -5R		29.2 -4.9R		29.9 -4.7R	

N-32 32/7 Support Attachment: Pneutek K64 PAF Side Seam Attachment: DeltaGrip

3.7 **DGN-32 & DGNF-32**

Pneutek K66 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

ASC Steel Deck

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																					
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/5	16 ga	4"	q_a q_f	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2349	3758	1856	2969	1503	2405
			F	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R	3.7	+0R
		6"	q_a q_f	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2349	3758	1856	2969	1503	2405
			F	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	+0R	4.3	+0R	4.3	+0R	4.3	+0R
		8"	q_a q_f	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4279	2349	3758	1856	2969	1503	2405
			F	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a q_f	2416	3889	2336	3761	2293	3692	2266	3649	2248	3619	2234	3598	2224	3581	1856	2969	1503	2405
			F	5.9	-0.4R	6	-0.3R	6.1	-0.3R	6.2	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.1R	6.3	-0.1R
		18"	q_a q_f	2147	3889	1916	3085	1979	3186	1865	3002	1783	2870	1842	2966	1783	2871	1735	2794	1503	2405
			F	7.3	-0.8R	7.7	-0.7R	7.9	-0.5R	8	-0.5R	8.1	-0.4R	8.1	-0.4R	8.2	-0.3R	8.2	-0.3R	8.3	-0.3R
		24"	q_a q_f	1780	2866	1633	2630	1555	2503	1506	2424	1473	2371	1448	2332	1430	2303	1416	2279	1404	2261
			F	8.5	-1.2R	9.1	-1R	9.4	-0.9R	9.7	-0.8R	9.8	-0.7R	9.9	-0.6R	10	-0.5R	10.1	-0.5R	10.1	-0.5R
	18 ga	4"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	+0R	5	+0R	5	+0R	5	+0R
		6"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	5.8	-0.3R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R	6	-0.1R	6.1	-0.1R	6.1	-0.1R
		8"	q_a q_f	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			F	6.6	-0.4R	6.8	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R	7.1	-0.2R	7.1	-0.1R	7.1	-0.1R
		12"	q_a q_f	1724	2776	1649	2654	1608	2589	1582	2547	1565	2519	1552	2499	1542	2483	1339	2142	1084	1735
			F	8.1	-0.8R	8.5	-0.7R	8.7	-0.5R	8.8	-0.5R	8.9	-0.4R	9	-0.4R	9.1	-0.3R	9.1	-0.3R	9.1	-0.3R
		18"	q_a q_f	1518	2776	1330	2142	1368	2202	1278	2057	1214	1954	1254	2020	1209	1947	1173	1888	1084	1735
			F	10.1	-1.4R	10.8	-1.2R	11.2	-1.1R	11.5	-0.9R	11.7	-0.8R	11.8	-0.7R	11.9	-0.7R	12	-0.6R	12	-0.6R
		24"	q_a q_f	1253	2017	1129	1817	1063	1711	1022	1646	994	1601	974	1569	959	1544	947	1525	938	1510
			F	11.7	-2R	12.8	-1.8R	13.4	-1.6R	13.9	-1.5R	14.2	-1.3R	14.4	-1.2R	14.6	-1.1R	14.7	-1R	14.8	-0.9R
	20 ga	4"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	7.3	-0.3R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R	7.6	-0.1R
		6"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	8.7	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R	9.4	-0.2R	9.4	-0.2R	9.4	-0.2R
		8"	q_a q_f	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			F	10	-1R	10.5	-0.8R	10.7	-0.7R	10.9	-0.6R	11	-0.5R	11.1	-0.4R	11.1	-0.4R	11.2	-0.4R	11.2	-0.3R
		12"	q_a q_f	1080	1728	1048	1687	1011	1628	988	1591	972	1566	961	1547	952	1533	879	1406	712	1139
			F	12.3	-1.7R	13.1	-1.5R	13.6	-1.3R	13.9	-1.1R	14.2	-1R	14.3	-0.9R	14.5	-0.8R	14.6	-0.7R	14.6	-0.7R
		18"	q_a q_f	975	1728	834	1343	848	1366	784	1262	739	1189	762	1226	730	1176	705	1135	712	1139
			F	14.9	-2.8R	16.5	-2.6R	17.4	-2.3R	18.1	-2.1R	18.5	-1.9R	18.9	-1.7R	19.1	-1.6R	19.4	-1.5R	19.5	-1.4R
		24"	q_a q_f	805	1296	707	1139	656	1056	624	1004	602	969	586	944	575	925	565	910	558	898
			F	17	-3.7R	19.3	-3.6R	20.7	-3.4R	21.7	-3.2R	22.5	-2.9R	23	-2.7R	23.4	-2.5R	23.8	-2.4R	24.1	-2.2R
	22 ga	4"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	9.4	-0.6R	9.6	-0.4R	9.7	-0.3R	9.8	-0.3R	9.9	-0.3R	9.9	-0.2R	9.9	-0.2R	10	-0.2R	10	-0.2R
		6"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	11.3	-1.1R	11.8	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.5R	12.4	-0.5R	12.5	-0.4R	12.5	-0.4R	12.6	-0.3R
		8"	q_a q_f	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			F	13	-1.6R	13.8	-1.3R	14.2	-1.1R	14.5	-1R	14.7	-0.9R	14.8	-0.8R	14.9	-0.7R	15	-0.6R	15.1	-0.6R
		12"	q_a q_f	771	1233	771	1233	748	1204	727	1171	713	1148	703	1131	695	1119	673	1076	545	872
			F	15.8	-2.6R	17.2	-2.4R	18	-2.1R	18.6	-1.9R	19	-1.7R	19.3	-1.5R	19.5	-1.4R	19.7	-1.3R	19.9	-1.2R
		18"	q_a q_f	736	1233	620	998	624	1005	573	922	537	865	552	889	528	849	508	818	522	840
			F	18.9	-4R	21.4	-3.9R	22.9	-3.7R	24	-3.4R	24.8	-3.2R	25.4	-2.9R	25.8	-2.7R	26.2	-2.5R	26.5	-2.4R
		24"	q_a q_f	610	983	527	848	483	778	456	734	438	705	425	684	415	667	407	655	400	645
			F	21.2	-5.2R	24.7	-5.4R	27	-5.2R	28.6	-5R	29.8	-4.7R	30.8	-4.5R	31.5	-4.2R	32.1	-4R	32.6	-3.8R

N-32 32/5 Support Attachment: Pneutek K66 PAF Side Seam Attachment: DeltaGrip

DGN-32 & DGNF-32 3.7

Pneutek K66 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)

PNEUTEK

Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear (q_a) (plf), Factored Shear (q_f) (plf), and Flexibility Factor (F) (10^{-6} in/lbs)																			
			Span →	4' - 0"		6' - 0"		8' - 0"		10' - 0"		12' - 0"		14' - 0"		16' - 0"		18' - 0"		20' - 0"	
32/7	16 ga	4"	q_a	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2349	3758	1856	2969	1503	2405
			q_f																		
			F	3.6	-0.1R	3.6	-0.1R	3.6	-0.1R	3.6	+0R	3.6	+0R	3.6	+0R	3.6	+0R	3.7	+0R	3.7	+0R
		6"	q_a	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2349	3758	1856	2969	1503	2405
			q_f																		
			F	4.1	-0.2R	4.2	-0.1R	4.2	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R	4.3	-0.1R
		8"	q_a	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2658	4280	2349	3758	1856	2969	1503	2405
			q_f																		
			F	4.6	-0.3R	4.8	-0.2R	4.8	-0.2R	4.9	-0.2R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		12"	q_a	2658	4280	2658	4280	2658	4280	2658	4280	2656	4277	2623	4223	2349	3758	1856	2969	1503	2405
			q_f																		
			F	5.5	-0.6R	5.8	-0.5R	6	-0.4R	6.1	-0.3R	6.1	-0.3R	6.2	-0.3R	6.2	-0.2R	6.2	-0.2R	6.3	-0.2R
		18"	q_a	2658	4280	2343	3773	2360	3800	2184	3516	2059	3315	2112	3401	2026	3262	1856	2969	1503	2405
			q_f																		
			F	6.7	-1R	7.2	-0.8R	7.5	-0.7R	7.7	-0.7R	7.8	-0.6R	7.9	-0.5R	8	-0.5R	8	-0.4R	8.1	-0.4R
		24"	q_a	2309	3717	2020	3252	1864	3001	1767	2844	1700	2737	1652	2659	1615	2600	1586	2554	1503	2405
			q_f																		
			F	7.6	-1.3R	8.3	-1.2R	8.8	-1.1R	9.1	-1R	9.3	-0.9R	9.5	-0.8R	9.6	-0.8R	9.7	-0.7R	9.8	-0.7R
	18 ga	4"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	4.8	-0.2R	4.9	-0.1R	4.9	-0.1R	4.9	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R	5	-0.1R
		6"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	5.6	-0.4R	5.8	-0.3R	5.8	-0.2R	5.9	-0.2R	5.9	-0.2R	6	-0.2R	6	-0.1R	6	-0.1R	6	-0.1R
		8"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1694	2711	1339	2142	1084	1735
			q_f																		
			F	6.3	-0.6R	6.6	-0.5R	6.7	-0.4R	6.8	-0.3R	6.9	-0.3R	6.9	-0.3R	7	-0.2R	7	-0.2R	7	-0.2R
		12"	q_a	1824	2918	1824	2918	1824	2918	1824	2918	1824	2918	1795	2890	1694	2711	1339	2142	1084	1735
			q_f																		
			F	7.5	-1R	8	-0.9R	8.3	-0.7R	8.5	-0.7R	8.7	-0.6R	8.8	-0.5R	8.8	-0.5R	8.9	-0.4R	8.9	-0.4R
		18"	q_a	1824	2918	1637	2635	1630	2624	1494	2406	1400	2253	1431	2303	1366	2200	1315	2117	1084	1735
			q_f																		
			F	8.9	-1.6R	9.9	-1.5R	10.4	-1.3R	10.8	-1.2R	11.1	-1.1R	11.3	-1R	11.4	-0.9R	11.6	-0.9R	11.7	-0.8R
		24"	q_a	1650	2657	1415	2278	1288	2074	1209	1947	1155	1860	1116	1797	1087	1750	1064	1712	1045	1682
			q_f																		
			F	10	-2.1R	11.3	-2.1R	12.2	-2R	12.8	-1.8R	13.2	-1.7R	13.5	-1.6R	13.8	-1.5R	14	-1.4R	14.2	-1.3R
	20 ga	4"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	7	-0.4R	7.2	-0.4R	7.3	-0.3R	7.4	-0.2R	7.4	-0.2R	7.5	-0.2R	7.5	-0.2R	7.5	-0.1R	7.5	-0.1R
		6"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	8.2	-0.8R	8.6	-0.7R	8.8	-0.6R	9	-0.5R	9.1	-0.4R	9.2	-0.4R	9.2	-0.3R	9.3	-0.3R	9.3	-0.3R
		8"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	9.3	-1.2R	9.9	-1R	10.2	-0.9R	10.5	-0.8R	10.6	-0.7R	10.8	-0.6R	10.8	-0.6R	10.9	-0.5R	11	-0.5R
		12"	q_a	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	1080	1728	879	1406	712	1139
			q_f																		
			F	10.9	-1.9R	12	-1.8R	12.7	-1.6R	13.1	-1.5R	13.5	-1.3R	13.7	-1.2R	13.9	-1.1R	14.1	-1.1R	14.2	-1R
		18"	q_a	1080	1728	1042	1677	1018	1639	923	1486	857	1379	869	1400	826	1329	791	1274	712	1139
			q_f																		
			F	12.7	-2.7R	14.5	-2.8R	15.7	-2.7R	16.5	-2.6R	17.1	-2.4R	17.6	-2.3R	18	-2.1R	18.3	-2R	18.5	-1.9R
		24"	q_a	1080	1728	904	1456	805	1296	746	1201	706	1137	678	1091	657	1057	640	1031	627	1009
			q_f																		
			F	14	-3.4R	16.4	-3.7R	18.1	-3.7R	19.3	-3.6R	20.2	-3.5R	21	-3.4R	21.6	-3.2R	22.1	-3.1R	22.5	-2.9R
	22 ga	4"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	9	-0.7R	9.3	-0.6R	9.5	-0.5R	9.6	-0.4R	9.7	-0.4R	9.8	-0.3R	9.8	-0.3R	9.8	-0.3R	9.9	-0.2R
		6"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	10.5	-1.3R	11.2	-1.1R	11.5	-1R	11.8	-0.8R	12	-0.8R	12.1	-0.7R	12.2	-0.6R	12.3	-0.6R	12.3	-0.5R
		8"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	11.8	-1.8R	12.8	-1.6R	13.4	-1.5R	13.8	-1.3R	14	-1.2R	14.3	-1.1R	14.4	-1R	14.6	-0.9R	14.7	-0.9R
		12"	q_a	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	771	1233	673	1076	545	872
			q_f																		
			F	13.7	-2.7R	15.4	-2.6R	16.5	-2.5R	17.2	-2.4R	17.8	-2.2R	18.2	-2.1R	18.5	-1.9R	18.8	-1.8R	19	-1.7R
		18"	q_a	771	1233	771	1233	757	1218	680	1096	628	1011	634	1020	600	966	573	922	545	872
			q_f																		
			F	15.7	-3.7R	18.3	-4R	20.1	-4R	21.4	-3.9R	22.4	-3.8R	23.2	-3.6R	23.8	-3.5R	24.4	-3.3R	24.8	-3.1R
		24"	q_a	771	1233	675	1087	595	957	546	879	514	827	491	790	474	762	460	741	449	723
			q_f																		
			F	17	-4.4R	20.4	-5.1R	22.8	-5.3R	24.7	-5.4R	26.2	-5.3R	27.4	-5.2R	28.3	-5R	29.2	-4.9R	29.9	-4.7R

N-32 32/7 Support Attachment: Pneutek K66 PAF Side Seam Attachment: DeltaGrip