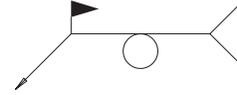


# 2.4 DGB-36 & DGBF-36

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

Diaphragm Shear in pounds per linear foot (plf)



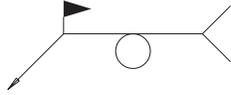
Support Fastener Pattern	Gage	Seam Attach. Spacing	Allowable Shear ( $q_a$ ) (plf), Factored Shear ( $q_f$ ) (plf), and Flexibility Factor (F) ( $10^6$ in/lbs)																			
			Span →	4' - 0"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/4	16 ga	4"	$q_a$	$q_f$	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2134	3414	1763	2821	1482	2371
			F		3.2	-0.1R	3.3	-0.1R	3.3	-0.1R	3.3	+0R										
		6"	$q_a$	$q_f$	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2134	3414	1763	2821	1482	2371
			F		3.6	-0.2R	3.7	-0.2R	3.7	-0.2R	3.7	-0.2R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R
		8"	$q_a$	$q_f$	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2421	3994	2134	3414	1763	2821	1482	2371
			F		4	-0.3R	4.1	-0.3R	4.2	-0.3R	4.2	-0.2R	4.3	-0.2R	4.3	-0.2R	4.3	-0.2R	4.3	-0.2R	4.3	-0.2R
	12"	$q_a$	$q_f$	2206	3641	2137	3526	2087	3444	2050	3382	2021	3335	1998	3297	1980	3266	1763	2821	1482	2371	
		F		4.7	-0.6R	4.9	-0.5R	5	-0.5R	5.1	-0.5R	5.2	-0.4R	5.2	-0.4R	5.3	-0.4R	5.3	-0.4R	5.4	-0.3R	
	18"	$q_a$	$q_f$	1968	3641	1935	3193	1709	2821	1722	2842	1732	2857	1588	2620	1610	2657	1628	2686	1482	2371	
		F		5.5	-0.9R	5.8	-0.9R	6	-0.8R	6.2	-0.8R	6.4	-0.8R	6.5	-0.7R	6.6	-0.7R	6.7	-0.7R	6.7	-0.6R	
	24"	$q_a$	$q_f$	1664	2746	1691	2791	1473	2430	1523	2513	1369	2259	1422	2346	1304	2151	1355	2235	1259	2078	
		F		6.1	-1.2R	6.6	-1.2R	6.9	-1.2R	7.1	-1.1R	7.4	-1.1R	7.5	-1.1R	7.7	-1R	7.8	-1R	7.9	-1R	
	18 ga	4"	$q_a$	$q_f$	1900	3136	1900	3136	1900	3136	1900	3136	1900	3136	1900	3062	1550	2481	1281	2050	1077	1723
			F		4.2	-0.2R	4.3	-0.2R	4.3	-0.2R	4.3	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R
		6"	$q_a$	$q_f$	1900	3136	1900	3136	1900	3136	1900	3136	1900	3136	1900	3062	1550	2481	1281	2050	1077	1723
			F		4.9	-0.4R	5	-0.4R	5	-0.3R	5.1	-0.3R	5.1	-0.3R	5.2	-0.2R	5.2	-0.2R	5.2	-0.2R	5.3	-0.2R
		8"	$q_a$	$q_f$	1863	3074	1864	3075	1788	2950	1800	2970	1746	2881	1761	2906	1550	2481	1281	2050	1077	1723
			F		5.4	-0.6R	5.6	-0.5R	5.7	-0.5R	5.8	-0.5R	5.9	-0.4R	5.9	-0.4R	6	-0.4R	6	-0.4R	6.1	-0.3R
	12"	$q_a$	$q_f$	1597	2635	1531	2527	1485	2450	1450	2392	1423	2347	1401	2312	1384	2283	1281	2050	1077	1723	
		F		6.3	-0.9R	6.6	-0.9R	6.8	-0.9R	7	-0.8R	7.1	-0.8R	7.3	-0.7R	7.4	-0.7R	7.4	-0.7R	7.5	-0.6R	
	18"	$q_a$	$q_f$	1419	2635	1380	2277	1206	1990	1207	1992	1208	1993	1100	1815	1112	1834	1121	1850	1044	1723	
		F		7.3	-1.4R	7.8	-1.4R	8.1	-1.4R	8.5	-1.4R	8.7	-1.3R	8.9	-1.3R	9.1	-1.2R	9.3	-1.2R	9.4	-1.2R	
	24"	$q_a$	$q_f$	1203	1985	1205	1988	1041	1717	1066	1760	953	1573	984	1624	899	1483	930	1534	861	1421	
		F		8	-1.7R	8.6	-1.8R	9.2	-1.9R	9.6	-1.9R	10	-1.8R	10.3	-1.8R	10.6	-1.8R	10.8	-1.8R	11	-1.7R	
20 ga	4"	$q_a$	$q_f$	1121	1850	1121	1850	1121	1850	1121	1850	1121	1850	1121	1850	1025	1640	847	1355	712	1139	
		F		6.1	-0.5R	6.2	-0.4R	6.3	-0.4R	6.4	-0.4R	6.5	-0.3R	6.5	-0.3R	6.5	-0.3R	6.6	-0.3R	6.6	-0.2R	
	6"	$q_a$	$q_f$	1121	1850	1121	1850	1121	1850	1121	1850	1121	1850	1121	1850	1025	1640	847	1355	712	1139	
		F		7	-0.8R	7.3	-0.7R	7.5	-0.7R	7.6	-0.7R	7.7	-0.6R	7.8	-0.6R	7.9	-0.5R	7.9	-0.5R	8	-0.5R	
	8"	$q_a$	$q_f$	1082	1785	1081	1784	1035	1708	1042	1719	1009	1665	1018	1679	993	1638	847	1355	712	1139	
		F		7.8	-1.1R	8.1	-1.1R	8.4	-1R	8.6	-1R	8.8	-0.9R	8.9	-0.9R	9	-0.8R	9.1	-0.8R	9.2	-0.8R	
12"	$q_a$	$q_f$	925	1527	885	1460	857	1413	835	1378	819	1351	806	1329	795	1312	786	1297	712	1139		
	F		8.9	-1.6R	9.5	-1.7R	9.9	-1.6R	10.3	-1.6R	10.6	-1.6R	10.9	-1.5R	11.1	-1.5R	11.3	-1.4R	11.5	-1.4R		
18"	$q_a$	$q_f$	821	1527	797	1315	695	1147	695	1146	694	1145	631	1042	638	1052	643	1060	598	987		
	F		10	-2.2R	10.9	-2.4R	11.6	-2.4R	12.2	-2.5R	12.8	-2.5R	13.2	-2.5R	13.6	-2.4R	13.9	-2.4R	14.2	-2.4R		
24"	$q_a$	$q_f$	697	1151	696	1149	600	990	614	1013	548	904	565	932	515	850	533	879	493	814		
	F		10.8	-2.7R	11.9	-2.9R	12.9	-3.1R	13.7	-3.2R	14.4	-3.2R	15	-3.3R	15.5	-3.3R	16	-3.3R	16.5	-3.3R		
22 ga	4"	$q_a$	$q_f$	805	1329	805	1329	805	1329	805	1329	805	1329	805	1329	779	1247	644	1031	541	866	
		F		7.7	-0.7R	7.9	-0.7R	8.1	-0.6R	8.2	-0.6R	8.3	-0.5R	8.4	-0.5R	8.5	-0.5R	8.5	-0.5R	8.6	-0.4R	
	6"	$q_a$	$q_f$	805	1329	805	1329	805	1329	805	1329	805	1329	803	1324	779	1247	644	1031	541	866	
		F		8.8	-1.2R	9.2	-1.1R	9.5	-1.1R	9.8	-1R	9.9	-1R	10.1	-1R	10.2	-0.9R	10.3	-0.9R	10.4	-0.8R	
	8"	$q_a$	$q_f$	767	1266	766	1264	732	1209	737	1216	713	1177	719	1186	701	1157	644	1031	541	866	
		F		9.7	-1.6R	10.3	-1.6R	10.7	-1.6R	11	-1.5R	11.3	-1.5R	11.6	-1.4R	11.8	-1.4R	11.9	-1.3R	12.1	-1.3R	
12"	$q_a$	$q_f$	655	1081	626	1032	605	997	589	972	577	952	567	936	559	923	553	912	541	866		
	F		11	-2.2R	11.8	-2.3R	12.5	-2.4R	13.1	-2.4R	13.6	-2.4R	14	-2.3R	14.3	-2.3R	14.6	-2.2R	14.9	-2.2R		
18"	$q_a$	$q_f$	582	1081	563	929	490	809	489	807	489	806	444	733	448	739	451	744	420	692		
	F		12.2	-2.9R	13.4	-3.2R	14.4	-3.3R	15.3	-3.4R	16	-3.5R	16.7	-3.6R	17.3	-3.6R	17.8	-3.6R	18.3	-3.5R		
24"	$q_a$	$q_f$	494	815	492	812	424	699	433	714	386	637	397	655	362	598	374	617	346	571		
	F		12.9	-3.4R	14.4	-3.8R	15.7	-4.1R	16.8	-4.3R	17.8	-4.4R	18.7	-4.6R	19.5	-4.7R	20.2	-4.7R	20.9	-4.7R		

B-36 36/4 Support Attachment: 0.5" Effective Dia. Arc Spot Weld Side Seam Attachment: DeltaGrip

# DGB-36 & DGBF-36 2.4

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

Diaphragm Shear in pounds per linear foot (plf)



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/7/4	16 ga	4"	$q_a$	$q_f$	4518	7454	4471	7378	4439	7325	4354	6967	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.2-0.2R		3.2-0.2R		3.2-0.2R		3.2-0.1R		3.2-0.1R		3.2-0.1R		3.2-0.1R		3.3-0.1R		3.3-0.1R	
		6"	$q_a$	$q_f$	3890	6418	3808	6283	3751	6189	3709	6120	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.6-0.4R		3.7-0.3R		3.7-0.3R		3.7-0.3R		3.8-0.2R		3.8-0.2R		3.8-0.2R		3.8-0.2R		3.8-0.2R	
		8"	$q_a$	$q_f$	3413	5631	3417	5638	3229	5329	3260	5379	3132	5167	2634	4215	2134	3414	1763	2821	1482	2371
			F		4-0.5R		4.1-0.5R		4.2-0.5R		4.2-0.4R		4.2-0.4R		4.3-0.3R		4.3-0.3R		4.3-0.3R		4.3-0.3R	
	12"	$q_a$	$q_f$	2786	4596	2645	4365	2548	4205	2477	4087	2423	3998	2380	3927	2134	3414	1763	2821	1482	2371	
		F		4.6-0.9R		4.8-0.8R		5-0.8R		5.1-0.8R		5.1-0.7R		5.2-0.7R		5.3-0.7R		5.3-0.6R		5.3-0.6R		
	18"	$q_a$	$q_f$	2408	4596	2333	3850	1997	3295	2000	3300	2002	3304	1804	2976	1826	3013	1763	2821	1482	2371	
		F		5.4-1.3R		5.7-1.3R		5.9-1.3R		6.1-1.3R		6.3-1.2R		6.4-1.2R		6.5-1.2R		6.6-1.1R		6.7-1.1R		
	24"	$q_a$	$q_f$	1986	3277	1993	3288	1693	2793	1741	2872	1540	2542	1596	2633	1447	2388	1501	2477	1384	2284	
		F		5.9-1.7R		6.4-1.8R		6.7-1.8R		7-1.8R		7.2-1.8R		7.4-1.7R		7.6-1.7R		7.7-1.7R		7.8-1.6R		
	18 ga	4"	$q_a$	$q_f$	3306	5455	3256	5373	3222	5316	3164	5062	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.2-0.4R		4.3-0.3R		4.3-0.3R		4.3-0.3R		4.4-0.2R		4.4-0.2R		4.4-0.2R		4.4-0.2R		4.4-0.2R	
		6"	$q_a$	$q_f$	2785	4596	2706	4465	2651	4374	2610	4307	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.8-0.6R		4.9-0.6R		5-0.6R		5.1-0.5R		5.1-0.5R		5.2-0.4R		5.2-0.4R		5.2-0.4R		5.2-0.4R	
		8"	$q_a$	$q_f$	2420	3994	2405	3969	2253	3718	2267	3740	2165	3572	1914	3062	1550	2481	1281	2050	1077	1723
			F		5.3-0.9R		5.5-0.9R		5.6-0.8R		5.7-0.8R		5.8-0.7R		5.9-0.7R		5.9-0.7R		6-0.6R		6-0.6R	
	12"	$q_a$	$q_f$	1969	3249	1849	3051	1766	2914	1706	2814	1660	2738	1623	2678	1550	2481	1281	2050	1077	1723	
		F		6.1-1.4R		6.5-1.4R		6.7-1.4R		6.9-1.3R		7-1.3R		7.2-1.2R		7.3-1.2R		7.4-1.1R		7.4-1.1R		
	18"	$q_a$	$q_f$	1710	3249	1635	2697	1391	2296	1381	2279	1373	2266	1233	2035	1242	2049	1249	2050	1077	1723	
		F		7-2R		7.5-2R		7.9-2.1R		8.3-2.1R		8.5-2.1R		8.8-2R		9-2R		9.1-2R		9.3-1.9R		
	24"	$q_a$	$q_f$	1427	2355	1406	2319	1190	1963	1208	1994	1063	1754	1094	1805	981	1619	1016	1676	931	1536	
		F		7.6-2.4R		8.3-2.6R		8.8-2.7R		9.3-2.7R		9.7-2.8R		10-2.8R		10.3-2.8R		10.6-2.7R		10.8-2.7R		
20 ga	4"	$q_a$	$q_f$	1918	3164	1887	3113	1865	3077	1849	3050	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		6.1-0.8R		6.2-0.7R		6.3-0.7R		6.4-0.6R		6.4-0.6R		6.5-0.5R		6.5-0.5R		6.6-0.5R		6.6-0.4R		
	6"	$q_a$	$q_f$	1609	2655	1560	2574	1526	2519	1502	2478	1482	2446	1265	2024	1025	1640	847	1355	712	1139	
		F		6.9-1.2R		7.2-1.2R		7.4-1.1R		7.5-1.1R		7.6-1R		7.7-1R		7.8-0.9R		7.9-0.9R		7.9-0.9R		
	8"	$q_a$	$q_f$	1396	2303	1385	2285	1295	2136	1301	2147	1241	2048	1252	2024	1025	1640	847	1355	712	1139	
		F		7.6-1.6R		8-1.6R		8.3-1.6R		8.5-1.6R		8.7-1.5R		8.8-1.5R		9-1.4R		9.1-1.4R		9.2-1.3R		
12"	$q_a$	$q_f$	1136	1874	1064	1756	1014	1674	978	1614	950	1568	929	1532	911	1503	847	1355	712	1139		
	F		8.6-2.3R		9.2-2.4R		9.7-2.5R		10.1-2.5R		10.4-2.4R		10.7-2.4R		10.9-2.4R		11.1-2.3R		11.3-2.3R			
18"	$q_a$	$q_f$	987	1874	941	1553	800	1321	793	1308	787	1299	706	1165	710	1172	714	1178	658	1086		
	F		9.6-3R		10.5-3.3R		11.2-3.5R		11.8-3.6R		12.3-3.6R		12.8-3.7R		13.2-3.7R		13.6-3.7R		13.9-3.7R			
24"	$q_a$	$q_f$	827	1364	811	1338	686	1132	695	1146	606	1000	622	1027	560	924	580	957	531	877		
	F		10.2-3.5R		11.3-3.9R		12.2-4.2R		13-4.4R		13.8-4.6R		14.4-4.7R		15-4.8R		15.5-4.9R		15.9-4.9R			
22 ga	4"	$q_a$	$q_f$	1359	2242	1335	2204	1319	2176	1307	2157	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		7.6-1.2R		7.9-1.1R		8-1.1R		8.2-1R		8.3-0.9R		8.4-0.9R		8.4-0.8R		8.5-0.8R		8.5-0.8R		
	6"	$q_a$	$q_f$	1136	1875	1101	1816	1076	1775	1057	1744	1043	1721	962	1539	779	1247	644	1031	541	866	
		F		8.7-1.8R		9.1-1.8R		9.4-1.7R		9.6-1.7R		9.8-1.6R		10-1.6R		10.1-1.5R		10.2-1.5R		10.3-1.4R		
	8"	$q_a$	$q_f$	985	1625	976	1610	911	1503	915	1509	872	1438	879	1450	779	1247	644	1031	541	866	
		F		9.4-2.3R		10-2.3R		10.5-2.4R		10.8-2.4R		11.1-2.3R		11.4-2.3R		11.6-2.2R		11.8-2.2R		11.9-2.1R		
12"	$q_a$	$q_f$	802	1323	750	1237	713	1177	687	1134	667	1101	651	1075	638	1054	628	1031	541	866		
	F		10.5-3R		11.4-3.3R		12.1-3.4R		12.7-3.5R		13.2-3.5R		13.6-3.6R		14-3.5R		14.3-3.5R		14.6-3.5R			
18"	$q_a$	$q_f$	698	1323	664	1095	564	930	558	920	553	912	496	818	498	822	500	825	461	761		
	F		11.5-3.8R		12.7-4.2R		13.7-4.6R		14.6-4.8R		15.4-5R		16.1-5.1R		16.7-5.2R		17.2-5.3R		17.7-5.3R			
24"	$q_a$	$q_f$	586	966	573	945	482	795	487	804	424	699	436	720	393	648	406	670	372	614		
	F		12.1-4.3R		13.5-4.9R		14.8-5.4R		15.9-5.8R		16.9-6.1R		17.8-6.3R		18.6-6.5R		19.4-6.7R		20-6.8R			

# 2.5 DGB-36 & DGBF-36

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
				$q_a$	$q_f$																			
36/4	16 ga	4"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587		
			F		3.3 +0R	3.3 +0R	3.3 +0R	3.3 +0R	3.3 +0R															
		6"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587
			F		3.9 +0R	3.9 +0R	3.9 +0R	3.9 +0R	3.9 +0R	3.9 +0R														
		8"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587
			F		4.6 +0R	4.6 +0R	4.6 +0R	4.6 +0R	4.6 +0R	4.6 +0R														
	12"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	
		F		5.8 +0R	5.8 +0R	5.8 +0R	5.8 +0R	5.8 +0R																
	18"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	
		F		7.7 +0R	7.7 +0R	7.7 +0R	7.7 +0R	7.7 +0R																
	24"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	986	1587	
		F		9.5 +0R	9.5 +0R	9.5 +0R	9.5 +0R	9.5 +0R																
	18 ga	4"	$q_a$	$q_f$	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268
			F		4.5 +0R	4.5 +0R	4.5 +0R	4.5 +0R	4.5 +0R															
		6"	$q_a$	$q_f$	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268
			F		5.5 +0R	5.5 +0R	5.5 +0R	5.5 +0R	5.5 +0R															
		8"	$q_a$	$q_f$	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268
			F		6.5 +0R	6.5 +0R	6.5 +0R	6.5 +0R	6.5 +0R															
	12"	$q_a$	$q_f$	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	
		F		8.4 +0R	8.4 +0R	8.4 +0R	8.4 +0R																	
	18"	$q_a$	$q_f$	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	788	1268	
		F		11.3 +0R	11.3 +0R	11.3 +0R																		
	24"	$q_a$	$q_f$	785	1264	788	1268	756	1216	787	1268	739	1190	768	1236	729	1174	755	1215	722	1163			
		F		14.2 +0R	14.2 +0R	14.2 +0R																		
20 ga	4"	$q_a$	$q_f$	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	
		F		6.9 +0R	6.9 +0R	6.9 +0R																		
	6"	$q_a$	$q_f$	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	
		F		8.6 +0R	8.6 +0R	8.6 +0R																		
	8"	$q_a$	$q_f$	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	
		F		10.3 +0R	10.3 +0R	10.3 +0R																		
12"	$q_a$	$q_f$	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953	592	953		
	F		13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R	13.8 +0R					
18"	$q_a$	$q_f$	592	953	592	953	568	914	577	929	584	940	551	888	560	902	567	913	543	874				
	F		18.9 -0.1R	18.9 -0.1R	18.9 -0.1R	18.9 -0.1R	18.9 +0R																	
24"	$q_a$	$q_f$	531	855	554	892	501	807	524	844	484	780	505	814	474	763	493	793	466	751				
	F		24 -0.2R	24 -0.1R	24 -0.1R	24 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R	24.1 -0.1R						
22 ga	4"	$q_a$	$q_f$	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	
		F		9.1 +0R	9.1 +0R																			
	6"	$q_a$	$q_f$	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	
		F		11.6 +0R	11.6 +0R																			
	8"	$q_a$	$q_f$	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	
		F		14 +0R	14 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R	14.1 +0R					
12"	$q_a$	$q_f$	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793	493	793		
	F		19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 +0R																
18"	$q_a$	$q_f$	480	793	480	773	438	705	445	716	450	724	421	677	428	689	433	698	412	663				
	F		26.3 -0.2R	26.3 -0.2R	26.4 -0.1R																			
24"	$q_a$	$q_f$	411	662	428	688	382	615	399	643	366	589	382	615	355	572	370	596	348	561				
	F		33.6 -0.4R	33.7 -0.3R	33.7 -0.3R	33.7 -0.3R	33.7 -0.2R	33.8 -0.1R	33.8 -0.1R															



# 2.5 DGB-36 & DGBF-36

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/9	16 ga	4"	$q_a$	$q_f$	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1763	2821	1482	2371		
			F		3.3 +0R																			
		6"	$q_a$	$q_f$	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1763	2821	1482	2371
			F		3.9 +0R																			
		8"	$q_a$	$q_f$	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1763	2821	1482	2371
			F		4.6 +0R																			
		12"	$q_a$	$q_f$	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1971	3174	1763	2821	1482	2371
			F		5.8 +0R																			
		18"	$q_a$	$q_f$	1971	3174	1971	3174	1873	3015	1899	3057	1918	3088	1786	2875	1814	2921	1763	2821	1482	2371	1482	2371
			F		7.6 +0R	7.7 +0R																		
		24"	$q_a$	$q_f$	1776	2859	1835	2954	1628	2621	1698	2734	1547	2491	1614	2599	1496	2408	1558	2508	1461	2352	1461	2352
			F		9.5 +0R																			
	18 ga	4"	$q_a$	$q_f$	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1550	2481	1281	2050	1077	1723	1077	1723
			F		4.5 +0R																			
		6"	$q_a$	$q_f$	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1550	2481	1281	2050	1077	1723	1077	1723
			F		5.5 +0R																			
		8"	$q_a$	$q_f$	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1550	2481	1281	2050	1077	1723	1077	1723
			F		6.5 +0R																			
		12"	$q_a$	$q_f$	1576	2537	1576	2537	1576	2537	1576	2537	1576	2537	1565	2520	1550	2481	1281	2050	1077	1723	1077	1723
			F		8.4 +0R																			
		18"	$q_a$	$q_f$	1526	2537	1509	2429	1344	2163	1357	2185	1367	2200	1260	2028	1279	2059	1281	2050	1077	1723	1077	1723
			F		11.3 +0R																			
		24"	$q_a$	$q_f$	1295	2086	1325	2133	1161	1869	1204	1939	1087	1751	1132	1822	1041	1677	1083	1743	1010	1626	1010	1626
			F		14.2 -0.1R																			
20 ga	4"	$q_a$	$q_f$	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1025	1640	847	1355	712	1139	712	1139	
		F		6.9 +0R																				
	6"	$q_a$	$q_f$	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1025	1640	847	1355	712	1139	712	1139	
		F		8.6 +0R																				
	8"	$q_a$	$q_f$	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1183	1905	1025	1640	847	1355	712	1139	712	1139	
		F		10.3 +0R																				
	12"	$q_a$	$q_f$	1147	1847	1102	1774	1070	1722	1046	1684	1027	1654	1012	1630	1000	1610	847	1355	712	1139	712	1139	
		F		13.7 -0.1R	13.8 +0R																			
	18"	$q_a$	$q_f$	1021	1847	995	1603	873	1405	874	1407	875	1409	798	1285	807	1299	814	1311	712	1139	712	1139	
		F		18.8 -0.2R	18.8 -0.2R	18.8 -0.2R	18.8 -0.1R	18.9 -0.1R																
	24"	$q_a$	$q_f$	868	1397	871	1402	754	1214	773	1245	692	1114	715	1151	653	1052	676	1089	627	1010	627	1010	
		F		23.8 -0.3R	23.9 -0.3R	23.9 -0.3R	23.9 -0.2R	23.9 -0.2R	24 -0.2R	24 -0.2R	24 -0.2R	24 -0.2R	24 -0.2R	24 -0.2R	24 -0.2R	24 -0.1R								
22 ga	4"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	962	1539	779	1247	644	1031	541	866	541	866	
		F		9.1 +0R																				
	6"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	986	1587	962	1539	779	1247	644	1031	541	866	541	866	
		F		11.5 -0.1R	11.6 +0R																			
	8"	$q_a$	$q_f$	986	1587	986	1587	986	1587	986	1587	959	1544	962	1539	779	1247	644	1031	541	866	541	866	
		F		14 -0.1R	14 +0R																			
	12"	$q_a$	$q_f$	888	1429	845	1360	814	1311	791	1274	773	1245	759	1223	748	1204	644	1031	541	866	541	866	
		F		18.8 -0.2R	18.9 -0.2R	18.9 -0.2R	18.9 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R	19 -0.1R							
	18"	$q_a$	$q_f$	790	1429	761	1226	662	1066	658	1060	656	1055	595	958	599	965	603	970	541	866	541	866	
		F		26 -0.5R	26.1 -0.4R	26.2 -0.3R	26.3 -0.2R																	
	24"	$q_a$	$$																					

# DGB-36 & DGBF-36 2.6

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/4	16 ga	4"	$q_a$	$q_f$	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047		
			F		3.2	-0.1R	3.3	-0.1R	3.3	+0R	3.3	+0R												
		6"	$q_a$	$q_f$	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047
			F		3.6	-0.2R	3.7	-0.2R	3.7	-0.2R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.8	-0.1R
		8"	$q_a$	$q_f$	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047
			F		4.1	-0.3R	4.1	-0.3R	4.2	-0.3R	4.2	-0.2R	4.3	-0.2R	4.3	-0.2R	4.3	-0.2R	4.4	-0.2R	4.4	-0.2R	4.4	-0.2R
	12"	$q_a$	$q_f$	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	
		F		4.8	-0.5R	4.9	-0.5R	5.1	-0.5R	5.1	-0.4R	5.2	-0.4R	5.3	-0.4R	5.3	-0.4R	5.4	-0.3R	5.4	-0.3R	5.4	-0.3R	
	18"	$q_a$	$q_f$	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	1271	2047	
		F		5.6	-0.9R	5.9	-0.9R	6.1	-0.8R	6.3	-0.8R	6.4	-0.7R	6.6	-0.7R	6.6	-0.7R	6.7	-0.6R	6.8	-0.6R	6.8	-0.6R	
	24"	$q_a$	$q_f$	1253	2018	1271	2047	1204	1939	1256	2022	1177	1895	1223	1970	1160	1867	1201	1934	1148	1848	1148	1848	
		F		6.3	-1.2R	6.7	-1.2R	7	-1.2R	7.3	-1.1R	7.5	-1.1R	7.7	-1.1R	7.8	-1R	7.9	-1R	8	-0.9R	8	-0.9R	
	18 ga	4"	$q_a$	$q_f$	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657
			F		4.2	-0.2R	4.3	-0.2R	4.3	-0.2R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R
		6"	$q_a$	$q_f$	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657
			F		4.9	-0.4R	5	-0.3R	5.1	-0.3R	5.1	-0.3R	5.2	-0.3R	5.2	-0.2R	5.2	-0.2R	5.3	-0.2R	5.3	-0.2R	5.3	-0.2R
		8"	$q_a$	$q_f$	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657
			F		5.5	-0.6R	5.6	-0.5R	5.7	-0.5R	5.8	-0.4R	5.9	-0.4R	6	-0.4R	6	-0.4R	6	-0.3R	6.1	-0.3R	6.1	-0.3R
	12"	$q_a$	$q_f$	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	1029	1657	
		F		6.4	-0.9R	6.7	-0.9R	6.9	-0.8R	7.1	-0.8R	7.2	-0.8R	7.3	-0.7R	7.4	-0.7R	7.5	-0.6R	7.6	-0.6R	7.6	-0.6R	
	18"	$q_a$	$q_f$	1029	1657	1029	1657	995	1602	1011	1628	1023	1647	967	1557	982	1582	994	1601	952	1533	952	1533	
		F		7.4	-1.4R	7.9	-1.4R	8.3	-1.4R	8.6	-1.3R	8.9	-1.3R	9.1	-1.3R	9.3	-1.2R	9.4	-1.2R	9.5	-1.1R	9.5	-1.1R	
	24"	$q_a$	$q_f$	931	1499	971	1563	879	1415	919	1480	850	1369	887	1429	832	1340	866	1394	820	1320	820	1320	
		F		8.2	-1.8R	8.9	-1.8R	9.4	-1.9R	9.9	-1.9R	10.2	-1.8R	10.5	-1.8R	10.8	-1.8R	11	-1.7R	11.2	-1.7R	11.2	-1.7R	
20 ga	4"	$q_a$	$q_f$	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	712	1139	712	1139	
		F		6.2	-0.4R	6.3	-0.4R	6.4	-0.4R	6.4	-0.3R	6.5	-0.3R	6.5	-0.3R	6.6	-0.3R	6.6	-0.2R	6.6	-0.2R	6.6	-0.2R	
	6"	$q_a$	$q_f$	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	712	1139	712	1139	
		F		7.1	-0.8R	7.4	-0.7R	7.5	-0.7R	7.7	-0.6R	7.8	-0.6R	7.8	-0.5R	7.9	-0.5R	8	-0.5R	8	-0.5R	8	-0.5R	
	8"	$q_a$	$q_f$	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	783	1260	712	1139	712	1139	
		F		7.9	-1.1R	8.3	-1R	8.5	-1R	8.7	-0.9R	8.9	-0.9R	9	-0.9R	9.1	-0.8R	9.2	-0.8R	9.3	-0.7R	9.3	-0.7R	
12"	$q_a$	$q_f$	783	1260	783	1260	783	1260	780	1256	774	1247	770	1239	766	1233	763	1228	712	1139	712	1139		
	F		9.1	-1.6R	9.7	-1.7R	10.2	-1.6R	10.5	-1.6R	10.8	-1.5R	11.1	-1.5R	11.3	-1.4R	11.5	-1.4R	11.6	-1.3R	11.6	-1.3R		
18"	$q_a$	$q_f$	737	1260	735	1183	665	1071	675	1087	682	1098	635	1023	646	1040	654	1054	620	998	620	998		
	F		10.4	-2.3R	11.2	-2.4R	12	-2.5R	12.6	-2.5R	13.1	-2.5R	13.5	-2.4R	13.9	-2.4R	14.2	-2.4R	14.5	-2.3R	14.5	-2.3R		
24"	$q_a$	$q_f$	628	1011	651	1048	578	930	603	972	550	886	575	925	533	858	555	894	521	838	521	838		
	F		11.2	-2.8R	12.3	-3R	13.3	-3.1R	14.1	-3.2R	14.8	-3.3R	15.4	-3.3R	16	-3.3R	16.4	-3.3R	16.9	-3.3R	16.9	-3.3R		
22 ga	4"	$q_a$	$q_f$	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	644	1031	541	866	541	866	
		F		7.8	-0.7R	8	-0.7R	8.2	-0.6R	8.3	-0.6R	8.4	-0.5R	8.4	-0.5R	8.5	-0.5R	8.6	-0.4R	8.6	-0.4R	8.6	-0.4R	
	6"	$q_a$	$q_f$	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	644	1031	541	866	541	866	
		F		9	-1.2R	9.4	-1.1R	9.6	-1.1R	9.9	-1R	10	-1R	10.2	-0.9R	10.3	-0.9R	10.4	-0.8R	10.5	-0.8R	10.5	-0.8R	
	8"	$q_a$	$q_f$	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	656	1056	644	1031	541	866	541	866	
		F		9.9	-1.6R	10.5	-1.6R	10.9	-1.5R	11.2	-1.5R	11.5	-1.4R	11.7	-1.4R	11.9	-1.3R	12.1	-1.3R	12.2	-1.2R	12.2	-1.2R	
12"	$q_a$	$q_f$	640	1030	624	1005	613	987	605	974	599	964	594	956	590	949	586	944	541	866	541	866		
	F		11.3	-2.3R	12.1	-2.4R	12.8	-2.4R	13.4	-2.4R	13.9	-2.3R	14.3	-2.3R	14.6	-2.3R	14.9	-2.2R	15.2	-2.1R	15.2	-2.1R		
18"	$q_a$	$q_f$	574	1030	570	917	509	819	515	829	519	836	480	772	487	784	493	794	464	747	464	747		
	F		12.6	-3R	13.8	-3.2R	14.9	-3.4R	15.7	-3.5R	16.5	-3.5R	17.2	-3.6R	17.7	-3.6R	18.3	-3.5R	18.7	-3.5R	18.7	-3.5R		
24"	$q_a$	$q_f$	487	783	500	805	439	707	457	736	413	666	431	694	397	639	414	666	386	621	386	621		
	F		13.5	-3.5R	15	-3.9R	16.3	-4.2R	17.4	-4.4R	18.4	-4.5R	19.3	-4.6R	20.1	-4.7R	20.8	-4.7R	21.5	-4.8R	21.5	-4.8R		

# 2.6 DGB-36 & DGBF-36

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/7/4	16 ga	4"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2134	3414	1763	2821	1482	2371
			F		3.2	-0.2R	3.2	-0.2R	3.2	-0.1R	3.2	-0.1R	3.2	-0.1R	3.2	-0.1R	3.3	-0.1R	3.3	-0.1R	3.3	-0.1R
		6"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2134	3414	1763	2821	1482	2371
			F		3.6	-0.4R	3.7	-0.3R	3.7	-0.3R	3.7	-0.3R	3.8	-0.2R	3.8	-0.2R	3.8	-0.2R	3.8	-0.2R	3.8	-0.2R
		8"	$q_a$	$q_f$	2520	4057	2542	4093	2492	4012	2515	4049	2477	3988	2497	4021	2134	3414	1763	2821	1482	2371
			F		4	-0.5R	4.1	-0.5R	4.2	-0.4R	4.2	-0.4R	4.3	-0.4R	4.3	-0.4R	4.3	-0.3R	4.3	-0.3R	4.4	-0.3R
	12"	$q_a$	$q_f$	2225	3583	2193	3531	2170	3494	2154	3467	2141	3447	2131	3430	2122	3414	1763	2821	1482	2371	
		F		4.7	-0.9R	4.9	-0.8R	5	-0.8R	5.1	-0.7R	5.2	-0.7R	5.2	-0.7R	5.3	-0.6R	5.3	-0.6R	5.4	-0.6R	
	18"	$q_a$	$q_f$	1981	3583	1994	3210	1790	2881	1830	2947	1860	2995	1726	2779	1763	2838	1763	2821	1482	2371	
		F		5.5	-1.3R	5.8	-1.3R	6	-1.3R	6.2	-1.3R	6.4	-1.2R	6.5	-1.2R	6.6	-1.1R	6.7	-1.1R	6.7	-1.1R	
	24"	$q_a$	$q_f$	1633	2629	1729	2784	1522	2451	1614	2598	1464	2357	1545	2487	1427	2298	1499	2413	1403	2258	
		F		6.1	-1.7R	6.5	-1.8R	6.9	-1.8R	7.1	-1.8R	7.3	-1.7R	7.5	-1.7R	7.7	-1.7R	7.8	-1.6R	7.9	-1.6R	
	18 ga	4"	$q_a$	$q_f$	2058	3314	2058	3314	2058	3314	2058	3314	2058	3314	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.2	-0.4R	4.3	-0.3R	4.3	-0.3R	4.4	-0.3R	4.4	-0.2R	4.4	-0.2R	4.4	-0.2R	4.4	-0.2R	4.4	-0.2R
		6"	$q_a$	$q_f$	2058	3314	2053	3305	2044	3291	2038	3282	2033	3274	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.9	-0.6R	5	-0.6R	5.1	-0.5R	5.1	-0.5R	5.2	-0.5R	5.2	-0.4R	5.2	-0.4R	5.2	-0.4R	5.3	-0.4R
		8"	$q_a$	$q_f$	1908	3072	1928	3105	1874	3017	1895	3050	1855	2987	1874	3018	1550	2481	1281	2050	1077	1723
			F		5.4	-0.9R	5.6	-0.8R	5.7	-0.8R	5.8	-0.8R	5.9	-0.7R	5.9	-0.7R	6	-0.6R	6	-0.6R	6.1	-0.6R
	12"	$q_a$	$q_f$	1639	2639	1604	2582	1579	2542	1561	2513	1547	2491	1536	2473	1527	2458	1281	2050	1077	1723	
		F		6.3	-1.4R	6.6	-1.4R	6.8	-1.3R	7	-1.3R	7.1	-1.2R	7.3	-1.2R	7.4	-1.2R	7.4	-1.1R	7.5	-1.1R	
	18"	$q_a$	$q_f$	1437	2639	1438	2315	1270	2044	1296	2087	1315	2118	1208	1945	1234	1986	1254	2020	1077	1723	
		F		7.2	-2R	7.7	-2.1R	8.1	-2.1R	8.4	-2.1R	8.7	-2.1R	8.9	-2R	9.1	-2R	9.3	-1.9R	9.4	-1.9R	
	24"	$q_a$	$q_f$	1172	1887	1232	1983	1070	1723	1131	1821	1016	1636	1072	1725	983	1583	1032	1662	961	1547	
		F		7.9	-2.5R	8.5	-2.6R	9.1	-2.7R	9.5	-2.8R	9.9	-2.8R	10.3	-2.8R	10.6	-2.8R	10.8	-2.7R	11	-2.7R	
20 ga	4"	$q_a$	$q_f$	1565	2520	1565	2520	1565	2520	1565	2520	1565	2520	1265	2024	1025	1640	847	1355	712	1139	
		F		6.1	-0.7R	6.3	-0.7R	6.3	-0.6R	6.4	-0.6R	6.5	-0.5R	6.5	-0.5R	6.6	-0.5R	6.6	-0.4R	6.6	-0.4R	
	6"	$q_a$	$q_f$	1446	2328	1430	2303	1419	2285	1411	2272	1405	2262	1265	2024	1025	1640	847	1355	712	1139	
		F		7	-1.2R	7.3	-1.2R	7.5	-1.1R	7.6	-1.1R	7.7	-1R	7.8	-1R	7.9	-0.9R	7.9	-0.9R	8	-0.8R	
	8"	$q_a$	$q_f$	1303	2098	1315	2117	1263	2033	1278	2057	1241	1998	1256	2022	1025	1640	847	1355	712	1139	
		F		7.7	-1.6R	8.1	-1.6R	8.4	-1.6R	8.6	-1.5R	8.8	-1.5R	8.9	-1.4R	9.1	-1.4R	9.2	-1.3R	9.2	-1.3R	
12"	$q_a$	$q_f$	1087	1750	1051	1692	1026	1652	1008	1622	994	1600	983	1582	974	1567	847	1355	712	1139		
	F		8.8	-2.3R	9.4	-2.4R	9.9	-2.5R	10.3	-2.5R	10.6	-2.4R	10.9	-2.4R	11.1	-2.3R	11.3	-2.3R	11.5	-2.2R		
18"	$q_a$	$q_f$	941	1750	931	1499	808	1302	820	1321	829	1335	753	1213	768	1236	779	1254	712	1139		
	F		9.9	-3.1R	10.8	-3.4R	11.5	-3.5R	12.1	-3.6R	12.7	-3.7R	13.1	-3.7R	13.5	-3.7R	13.9	-3.7R	14.2	-3.6R		
24"	$q_a$	$q_f$	766	1234	792	1275	680	1094	712	1146	634	1021	665	1071	606	976	634	1021	587	945		
	F		10.6	-3.6R	11.7	-4R	12.7	-4.3R	13.5	-4.5R	14.2	-4.7R	14.8	-4.8R	15.4	-4.9R	15.9	-4.9R	16.4	-4.9R		
22 ga	4"	$q_a$	$q_f$	1290	2076	1281	2062	1274	2052	1270	2044	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		7.7	-1.1R	7.9	-1.1R	8.1	-1R	8.2	-1R	8.3	-0.9R	8.4	-0.9R	8.5	-0.8R	8.5	-0.8R	8.6	-0.7R	
	6"	$q_a$	$q_f$	1135	1827	1117	1799	1105	1779	1096	1765	1089	1754	962	1539	779	1247	644	1031	541	866	
		F		8.8	-1.8R	9.2	-1.8R	9.5	-1.7R	9.7	-1.7R	9.9	-1.6R	10.1	-1.5R	10.2	-1.5R	10.3	-1.4R	10.4	-1.4R	
	8"	$q_a$	$q_f$	1008	1622	1014	1632	966	1555	977	1572	943	1519	955	1537	779	1247	644	1031	541	866	
		F		9.6	-2.3R	10.2	-2.4R	10.7	-2.4R	11	-2.3R	11.3	-2.3R	11.5	-2.2R	11.8	-2.2R	11.9	-2.1R	12.1	-2.1R	
12"	$q_a$	$q_f$	829	1335	795	1280	771	1242	754	1213	740	1192	730	1175	721	1161	644	1031	541	866		
	F		10.8	-3.1R	11.7	-3.3R	12.4	-3.5R	13	-3.5R	13.5	-3.6R	13.9	-3.5R	14.3	-3.5R	14.6	-3.5R	14.9	-3.4R		
18"	$q_a$	$q_f$	716	1335	702	1129	604	973	610	981	613	988	555	893	564	907	571	919	529	852		
	F		11.9	-4R	13.2	-4.4R	14.2	-4.7R	15.1	-4.9R	15.9	-5.1R	16.5	-5.2R	17.1	-5.3R	17.7	-5.3R	18.2	-5.3R		
24"	$q_a$	$q_f$	586	943	597	961	510	820	529	852	470	756	490	788	445	717	464	747	429	690		
	F		12.7	-4.5R	14.1	-5.1R	15.4	-5.6R	16.5	-6R	17.5	-6.3R	18.4	-6.5R	19.3	-6.7R	20	-6.8R	20.7	-6.9R		

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Support Attachment: Hilti X-HSN 24 PAF

Side Seam Attachment: DeltaGrip

# DGB-36 & DGBF-36 2.6

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

Diaphragm Shear in pounds per linear foot (plf)



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/9	16 ga	4"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2134	3414	1763	2821	1482	2371		
			F	3 -0.2R		3.1 -0.1R		3.1 -0.1R		3.1 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		
		6"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2134	3414	1763	2821	1482	2371
			F	3.4 -0.3R		3.5 -0.3R		3.5 -0.2R		3.6 -0.2R		3.6 -0.2R		3.6 -0.2R		3.7 -0.2R		3.7 -0.2R		3.7 -0.2R		3.7 -0.2R		
		8"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2542	4093	2134	3414	1763	2821	1482	2371
			F	3.7 -0.4R		3.8 -0.4R		3.9 -0.4R		4 -0.3R		4 -0.3R		4.1 -0.3R		4.1 -0.3R		4.1 -0.3R		4.1 -0.3R		4.2 -0.3R		
	12"	$q_a$	$q_f$	2542	4093	2542	4093	2542	4093	2542	4093	2514	4047	2489	4007	2134	3414	1763	2821	1482	2371			
		F	4.1 -0.6R		4.3 -0.6R		4.4 -0.6R		4.6 -0.6R		4.7 -0.6R		4.8 -0.5R		4.9 -0.5R		4.9 -0.5R		5 -0.5R					
	18"	$q_a$	$q_f$	2433	4093	2402	3867	2135	3437	2155	3469	2169	3492	1997	3216	2026	3262	1763	2821	1482	2371			
		F	4.5 -0.8R		4.8 -0.9R		5.1 -0.9R		5.3 -0.9R		5.5 -0.9R		5.6 -0.9R		5.8 -0.9R		5.9 -0.9R		6 -0.8R					
	24"	$q_a$	$q_f$	2064	3324	2107	3393	1844	2969	1911	3077	1724	2775	1793	2886	1648	2654	1714	2759	1482	2371			
		F	4.8 -1R		5.2 -1.1R		5.5 -1.1R		5.8 -1.2R		6.1 -1.2R		6.3 -1.2R		6.5 -1.2R		6.7 -1.2R		6.8 -1.2R					
	18 ga	4"	$q_a$	$q_f$	2058	3314	2058	3314	2058	3314	2058	3314	2058	3314	1914	3062	1550	2481	1281	2050	1077	1723		
			F	4 -0.3R		4.1 -0.3R		4.1 -0.3R		4.2 -0.2R		4.2 -0.2R		4.2 -0.2R		4.3 -0.2R		4.3 -0.2R		4.3 -0.2R				
		6"	$q_a$	$q_f$	2058	3314	2058	3314	2058	3314	2058	3314	2058	3314	1914	3062	1550	2481	1281	2050	1077	1723		
			F	4.4 -0.5R		4.6 -0.5R		4.7 -0.4R		4.8 -0.4R		4.8 -0.4R		4.9 -0.4R		5 -0.4R		5 -0.3R		5 -0.3R				
		8"	$q_a$	$q_f$	2058	3314	2058	3314	2058	3314	2058	3314	2058	3314	1914	3062	1550	2481	1281	2050	1077	1723		
			F	4.7 -0.6R		5 -0.6R		5.1 -0.6R		5.3 -0.6R		5.4 -0.6R		5.5 -0.6R		5.6 -0.5R		5.7 -0.5R						
	12"	$q_a$	$q_f$	2010	3236	1933	3112	1878	3023	1837	2957	1805	2906	1780	2865	1550	2481	1281	2050	1077	1723			
		F	5.2 -0.9R		5.6 -0.9R		5.8 -0.9R		6 -0.9R		6.2 -0.9R		6.4 -0.9R		6.5 -0.9R		6.7 -0.9R		6.8 -0.9R					
	18"	$q_a$	$q_f$	1790	3236	1747	2812	1532	2467	1536	2473	1538	2477	1405	2261	1420	2287	1281	2050	1077	1723			
		F	5.7 -1.1R		6.1 -1.2R		6.5 -1.3R		6.9 -1.3R		7.2 -1.4R		7.4 -1.4R		7.7 -1.4R		7.9 -1.4R		8.1 -1.4R					
	24"	$q_a$	$q_f$	1521	2448	1528	2460	1324	2131	1359	2188	1217	1959	1258	2025	1150	1852	1191	1917	1077	1723			
		F	6 -1.3R		6.5 -1.5R		7 -1.6R		7.5 -1.7R		7.9 -1.7R		8.2 -1.8R		8.5 -1.8R		8.8 -1.8R		9.1 -1.9R					
20 ga	4"	$q_a$	$q_f$	1565	2520	1565	2520	1565	2520	1565	2520	1565	2520	1265	2024	1025	1640	847	1355	712	1139			
		F	5.6 -0.5R		5.8 -0.5R		5.9 -0.5R		6 -0.5R		6.1 -0.5R		6.2 -0.4R		6.2 -0.4R		6.3 -0.4R		6.3 -0.4R					
	6"	$q_a$	$q_f$	1565	2520	1565	2520	1565	2520	1565	2520	1565	2520	1265	2024	1025	1640	847	1355	712	1139			
		F	6.1 -0.8R		6.4 -0.8R		6.7 -0.8R		6.8 -0.8R		7 -0.8R		7.1 -0.8R		7.2 -0.8R		7.3 -0.7R		7.4 -0.7R					
	8"	$q_a$	$q_f$	1565	2520	1565	2520	1502	2417	1507	2426	1451	2336	1265	2024	1025	1640	847	1355	712	1139			
		F	6.5 -1R		6.9 -1.1R		7.2 -1.1R		7.5 -1.1R		7.7 -1.1R		7.9 -1.1R		8.1 -1.1R		8.2 -1.1R		8.4 -1R					
12"	$q_a$	$q_f$	1355	2182	1282	2065	1231	1982	1192	1919	1162	1872	1139	1833	1025	1640	847	1355	712	1139				
	F	7 -1.3R		7.6 -1.4R		8.1 -1.5R		8.5 -1.6R		8.8 -1.6R		9.1 -1.6R		9.4 -1.6R		9.6 -1.7R		9.9 -1.6R						
18"	$q_a$	$q_f$	1206	2182	1156	1861	1001	1612	991	1596	984	1584	891	1435	896	1442	847	1355	712	1139				
	F	7.5 -1.6R		8.2 -1.8R		8.8 -2R		9.4 -2.1R		9.9 -2.2R		10.4 -2.3R		10.8 -2.3R		11.1 -2.4R		11.5 -2.4R						
24"	$q_a$	$q_f$	1034	1665	1014	1633	870	1401	879	1416	782	1260	800	1288	728	1172	747	1203	691	1112				
	F	7.8 -1.8R		8.6 -2R		9.3 -2.3R		10 -2.5R		10.6 -2.6R		11.2 -2.8R		11.7 -2.9R		12.2 -3R		12.7 -3R						
22 ga	4"	$q_a$	$q_f$	1312	2112	1312	2112	1312	2112	1312	2112	1218	1948	962	1539	779	1247	644	1031	541	866			
		F	6.9 -0.8R		7.2 -0.8R		7.4 -0.8R		7.5 -0.8R		7.7 -0.7R		7.8 -0.7R		7.9 -0.7R		8 -0.7R		8.1 -0.6R					
	6"	$q_a$	$q_f$	1312	2112	1312	2112	1312	2112	1294	2083	1218	1948	962	1539	779	1247	644	1031	541	866			
		F	7.5 -1.1R		7.9 -1.2R		8.3 -1.2R		8.5 -1.2R		8.8 -1.2R		9 -1.2R		9.2 -1.2R		9.3 -1.1R		9.5 -1.1R					
	8"	$q_a$	$q_f$	1240	1996	1222	1968	1150	1851	1149	1850	1100	1771	962	1539	779	1247	644	1031	541	866			
		F	7.9 -1.3R		8.4 -1.4R		8.9 -1.5R		9.3 -1.6R		9.6 -1.6R		9.9 -1.6R		10.2 -1.6R		10.4 -1.6R		10.6 -1.6R					
12"	$q_a$	$q_f$	1052	1693	984	1584	936	1507	901	1450	873	1406	852	1371	779	1247	644	1031	541	866				
	F	8.4 -1.6R		9.1 -1.8R		9.8 -2R		10.3 -2.1R		10.8 -2.2R		11.3 -2.3R		11.7 -2.3R		12 -2.3R		12.4 -2.4R						
18"	$q_a$	$q_f$	939	1693	888	1430	764	1231	750	1208	740	1191	668	1075	667	1074	644	1031	541	866				
	F	8.9 -1.9R		9.7 -2.2R		10.6 -2.5R		11.3 -2.7R		12 -2.9R		12.6 -3R		13.2 -3.1R		13.7 -3.2R		14.2 -3.3R						
24"	$q_a$	$q_f$	812	1308	784	1262	670	1078	669	1077	591	951	601	968	542	873	557	896	510	822				
	F	9.1 -2.1R		10.1 -2.5R		11 -2.8R		11.9 -3.1R		12.7 -3.3R		13.4 -3.5R		14.1 -3.7R		14.8 -3.9R		15.4 -4R						

# 2.6 DGB-36 & DGBF-36

## 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"	5' - 0"	6' - 0"	7' - 0"	8' - 0"	9' - 0"	10' - 0"	11' - 0"	12' - 0"			
36/4	16 ga	4"	$q_a$ $q_f$	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204
			F	3.1 -0.1R	3.1 -0.1R	3.2 -0.1R	3.2 -0.1R								
		6"	$q_a$ $q_f$	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204
			F	3.5 -0.3R	3.6 -0.2R	3.6 -0.2R	3.7 -0.2R	3.7 -0.1R	3.8 -0.1R						
		8"	$q_a$ $q_f$	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204
			F	3.8 -0.4R	3.9 -0.4R	4 -0.3R	4.1 -0.3R	4.1 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.2R	4.3 -0.2R	
	12"	$q_a$ $q_f$	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	
		F	4.4 -0.6R	4.5 -0.6R	4.7 -0.6R	4.8 -0.5R	4.9 -0.5R	5 -0.5R	5.1 -0.5R	5.1 -0.4R	5.2 -0.4R				
	18"	$q_a$ $q_f$	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1369 2204	1361 2191		
		F	4.9 -0.9R	5.2 -0.9R	5.5 -0.9R	5.7 -0.9R	5.9 -0.9R	6 -0.8R	6.1 -0.8R	6.2 -0.8R	6.3 -0.8R				
	24"	$q_a$ $q_f$	1315 2117	1369 2204	1257 2024	1313 2114	1225 1973	1275 2053	1205 1940	1250 2012	1191 1918				
		F	5.3 -1.1R	5.8 -1.1R	6.1 -1.2R	6.4 -1.2R	6.6 -1.2R	6.8 -1.2R	7 -1.2R	7.2 -1.1R	7.3 -1.1R				
	18 ga	4"	$q_a$ $q_f$	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1077 1723		
			F	4.1 -0.3R	4.2 -0.2R	4.2 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.4 -0.1R	4.4 -0.1R			
		6"	$q_a$ $q_f$	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1077 1723		
			F	4.6 -0.4R	4.8 -0.4R	4.9 -0.4R	4.9 -0.4R	5 -0.3R	5 -0.3R	5.1 -0.3R	5.1 -0.3R	5.1 -0.3R			
		8"	$q_a$ $q_f$	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1077 1723		
			F	5 -0.6R	5.2 -0.6R	5.4 -0.6R	5.5 -0.5R	5.6 -0.5R	5.7 -0.5R	5.8 -0.5R	5.8 -0.5R	5.9 -0.4R			
	12"	$q_a$ $q_f$	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1108 1784	1077 1723			
		F	5.7 -0.9R	6 -0.9R	6.3 -0.9R	6.5 -0.9R	6.6 -0.9R	6.8 -0.9R	6.9 -0.8R	7 -0.8R	7.1 -0.8R				
	18"	$q_a$ $q_f$	1108 1784	1108 1784	1040 1674	1057 1701	1069 1721	1007 1621	1023 1648	1036 1668	990 1593				
		F	6.3 -1.3R	6.8 -1.3R	7.2 -1.4R	7.6 -1.4R	7.8 -1.4R	8.1 -1.4R	8.3 -1.4R	8.5 -1.4R	8.7 -1.3R				
	24"	$q_a$ $q_f$	974 1568	1015 1634	914 1472	956 1540	881 1419	920 1481	860 1385	896 1442	846 1362				
		F	6.7 -1.5R	7.4 -1.6R	7.9 -1.7R	8.4 -1.8R	8.8 -1.8R	9.1 -1.9R	9.4 -1.9R	9.7 -1.9R	9.9 -1.9R				
20 ga	4"	$q_a$ $q_f$	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1355	712 1139			
		F	5.8 -0.5R	6 -0.5R	6.1 -0.5R	6.2 -0.4R	6.3 -0.4R	6.3 -0.4R	6.4 -0.4R	6.4 -0.3R	6.5 -0.3R				
	6"	$q_a$ $q_f$	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1355	712 1139			
		F	6.5 -0.8R	6.8 -0.8R	7 -0.8R	7.2 -0.8R	7.3 -0.7R	7.4 -0.7R	7.5 -0.7R	7.6 -0.6R	7.7 -0.6R				
	8"	$q_a$ $q_f$	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1357	843 1355	712 1139			
		F	7.1 -1.1R	7.4 -1.1R	7.7 -1.1R	8 -1.1R	8.2 -1.1R	8.4 -1R	8.5 -1R	8.7 -1R	8.8 -0.9R				
12"	$q_a$ $q_f$	843 1357	837 1348	825 1329	816 1314	809 1303	803 1294	799 1286	795 1280	712 1139					
	F	7.8 -1.5R	8.4 -1.6R	8.8 -1.6R	9.3 -1.6R	9.6 -1.7R	9.9 -1.6R	10.2 -1.6R	10.4 -1.6R	10.6 -1.6R					
18"	$q_a$ $q_f$	772 1357	768 1237	691 1113	701 1129	708 1140	657 1058	668 1076	677 1090	639 1029					
	F	8.5 -1.9R	9.3 -2.1R	10 -2.2R	10.6 -2.3R	11.1 -2.4R	11.5 -2.4R	12 -2.5R	12.3 -2.5R	12.7 -2.5R					
24"	$q_a$ $q_f$	656 1056	678 1091	599 964	625 1006	568 914	593 954	548 883	571 920	535 861					
	F	8.9 -2.1R	9.9 -2.4R	10.7 -2.6R	11.5 -2.8R	12.1 -3R	12.7 -3.1R	13.3 -3.1R	13.8 -3.2R	14.3 -3.2R					
22 ga	4"	$q_a$ $q_f$	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	644 1031	541 866			
		F	7.3 -0.8R	7.5 -0.8R	7.7 -0.7R	7.9 -0.7R	8 -0.7R	8.1 -0.6R	8.2 -0.6R	8.2 -0.6R	8.3 -0.6R				
	6"	$q_a$ $q_f$	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	644 1031	541 866			
		F	8.1 -1.2R	8.5 -1.2R	8.8 -1.2R	9.1 -1.2R	9.3 -1.1R	9.5 -1.1R	9.6 -1.1R	9.8 -1R	9.9 -1R				
	8"	$q_a$ $q_f$	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	706 1137	644 1031	541 866			
		F	8.6 -1.5R	9.2 -1.5R	9.7 -1.6R	10 -1.6R	10.4 -1.6R	10.6 -1.6R	10.9 -1.5R	11.1 -1.5R	11.3 -1.5R				
12"	$q_a$ $q_f$	671 1080	653 1051	640 1030	630 1015	623 1003	617 993	612 985	608 979	541 866					
	F	9.4 -1.9R	10.2 -2.1R	10.9 -2.2R	11.5 -2.3R	12 -2.3R	12.4 -2.4R	12.8 -2.4R	13.2 -2.4R	13.5 -2.4R					
18"	$q_a$ $q_f$	601 1080	594 956	528 850	533 859	537 865	495 797	502 809	508 819	477 768					
	F	10.1 -2.3R	11.1 -2.6R	12 -2.9R	12.9 -3.1R	13.6 -3.2R	14.3 -3.3R	14.9 -3.4R	15.4 -3.5R	15.9 -3.5R					
24"	$q_a$ $q_f$	508 818	520 837	455 733	473 761	426 686	444 715	408 657	425 684	396 637					
	F	10.5 -2.6R	11.7 -3R	12.8 -3.3R	13.8 -3.6R	14.7 -3.8R	15.5 -4R	16.3 -4.2R	17 -4.3R	17.6 -4.4R					

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Support Attachment: Hilti X-ENP-19 PAF

Side Seam Attachment: DeltaGrip

# DGB-36 & DGBF-36 2.6

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

Diaphragm Shear in pounds per linear foot (plf)



**HILTI**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/7/4	16 ga	4"	$q_a$	$q_f$	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.1-0.2R		3.1-0.2R		3.2-0.2R		3.2-0.2R		3.2-0.2R		3.2-0.2R		3.2-0.2R		3.2-0.1R		3.2-0.1R	
		6"	$q_a$	$q_f$	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.5-0.4R		3.5-0.4R		3.6-0.4R		3.6-0.3R		3.7-0.3R									
		8"	$q_a$	$q_f$	2662	4286	2689	4329	2628	4231	2654	4272	2609	4201	2632	4215	2134	3414	1763	2821	1482	2371
			F		3.8-0.6R		3.9-0.6R		4-0.5R		4.1-0.5R		4.1-0.5R		4.1-0.5R		4.2-0.4R		4.2-0.4R		4.2-0.4R	
	12"	$q_a$	$q_f$	2331	3752	2292	3690	2265	3646	2245	3614	2230	3590	2218	3570	2134	3414	1763	2821	1482	2371	
		F		4.3-0.9R		4.5-0.9R		4.6-0.9R		4.7-0.9R		4.9-0.8R		4.9-0.8R		5-0.8R		5.1-0.8R		5.1-0.8R		5.1-0.7R
	18"	$q_a$	$q_f$	2063	3752	2074	3339	1851	2981	1893	3048	1923	3096	1779	2864	1817	2925	1763	2821	1482	2371	
		F		4.8-1.2R		5.1-1.3R		5.3-1.3R		5.6-1.3R		5.7-1.3R		5.9-1.3R		6-1.3R		6.1-1.3R		6.1-1.3R		6.2-1.3R
	24"	$q_a$	$q_f$	1694	2727	1791	2883	1570	2527	1663	2677	1503	2421	1587	2554	1463	2355	1536	2473	1435	2310	
		F		5.1-1.5R		5.5-1.6R		5.9-1.7R		6.2-1.7R		6.4-1.8R		6.7-1.8R		6.9-1.8R		7-1.8R		7.2-1.8R		7.2-1.8R
	18 ga	4"	$q_a$	$q_f$	2216	3568	2216	3568	2216	3568	2216	3568	2216	3568	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.1-0.4R		4.1-0.4R		4.2-0.4R		4.2-0.3R		4.3-0.3R									
		6"	$q_a$	$q_f$	2184	3516	2169	3492	2159	3475	2151	3463	2145	3454	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.6-0.7R		4.7-0.7R		4.8-0.6R		4.9-0.6R		5-0.6R		5-0.6R		5.1-0.5R		5.1-0.5R		5.1-0.5R	
		8"	$q_a$	$q_f$	2006	3229	2027	3263	1964	3162	1987	3198	1942	3126	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.9-0.9R		5.1-0.9R		5.3-0.9R		5.4-0.9R		5.5-0.9R		5.6-0.8R		5.7-0.8R		5.8-0.8R		5.8-0.8R	
	12"	$q_a$	$q_f$	1709	2752	1668	2685	1639	2639	1618	2605	1601	2578	1589	2558	1550	2481	1281	2050	1077	1723	
		F		5.5-1.3R		5.8-1.4R		6.1-1.4R		6.3-1.4R		6.5-1.4R		6.7-1.4R		6.8-1.3R		6.9-1.3R		6.9-1.3R		7-1.3R
	18"	$q_a$	$q_f$	1492	2752	1490	2398	1309	2108	1335	2150	1354	2180	1240	1996	1266	2038	1281	2050	1077	1723	
		F		6.1-1.7R		6.5-1.8R		7-1.9R		7.3-2R		7.6-2.1R		7.9-2.1R		8.1-2.1R		8.3-2.1R		8.5-2.1R		8.5-2.1R
	24"	$q_a$	$q_f$	1215	1957	1273	2049	1102	1774	1163	1872	1042	1678	1098	1768	1005	1619	1055	1699	980	1578	
		F		6.4-2R		7-2.2R		7.5-2.4R		8-2.5R		8.4-2.6R		8.8-2.7R		9.1-2.7R		9.4-2.7R		9.6-2.8R		9.6-2.8R
20 ga	4"	$q_a$	$q_f$	1685	2714	1685	2714	1685	2714	1683	2710	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		5.7-0.8R		5.9-0.8R		6.1-0.8R		6.2-0.7R		6.2-0.7R		6.3-0.7R		6.3-0.6R		6.4-0.6R		6.4-0.6R		6.4-0.6R
	6"	$q_a$	$q_f$	1520	2447	1501	2416	1487	2395	1478	2379	1470	2367	1265	2024	1025	1640	847	1355	712	1139	
		F		6.4-1.2R		6.7-1.2R		6.9-1.2R		7.1-1.2R		7.2-1.2R		7.4-1.1R		7.5-1.1R		7.5-1.1R		7.6-1R		7.6-1R
	8"	$q_a$	$q_f$	1361	2192	1372	2209	1314	2115	1329	2140	1288	2074	1265	2024	1025	1640	847	1355	712	1139	
		F		6.8-1.5R		7.2-1.6R		7.6-1.6R		7.8-1.6R		8.1-1.6R		8.2-1.6R		8.4-1.6R		8.5-1.6R		8.7-1.5R		8.7-1.5R
12"	$q_a$	$q_f$	1129	1817	1088	1751	1059	1706	1039	1672	1023	1646	1010	1626	1000	1610	847	1355	712	1139		
	F		7.5-2R		8.1-2.2R		8.5-2.3R		9-2.4R		9.3-2.4R		9.6-2.4R		9.9-2.5R		10.1-2.5R		10.4-2.5R		10.4-2.5R	
18"	$q_a$	$q_f$	976	1817	962	1548	833	1340	843	1357	850	1369	771	1242	785	1264	796	1282	712	1139		
	F		8-2.4R		8.8-2.7R		9.5-3R		10.1-3.2R		10.6-3.3R		11.1-3.4R		11.5-3.5R		11.9-3.6R		12.3-3.6R		12.3-3.6R	
24"	$q_a$	$q_f$	796	1281	818	1317	700	1128	731	1177	650	1047	681	1096	620	998	648	1043	599	964		
	F		8.4-2.7R		9.3-3.1R		10.1-3.4R		10.8-3.7R		11.5-4R		12.1-4.2R		12.7-4.3R		13.2-4.5R		13.6-4.6R		13.6-4.6R	
22 ga	4"	$q_a$	$q_f$	1362	2192	1351	2175	1343	2162	1337	2153	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		7.1-1.2R		7.4-1.2R		7.6-1.2R		7.8-1.1R		7.9-1.1R		8-1.1R		8.1-1R		8.2-1R		8.3-1R		8.3-1R
	6"	$q_a$	$q_f$	1188	1912	1167	1879	1152	1855	1142	1838	1133	1825	962	1539	779	1247	644	1031	541	866	
		F		7.8-1.7R		8.3-1.7R		8.6-1.8R		8.9-1.8R		9.1-1.8R		9.3-1.7R		9.5-1.7R		9.7-1.7R		9.8-1.7R		9.8-1.7R
	8"	$q_a$	$q_f$	1049	1689	1054	1697	1001	1611	1011	1628	975	1570	962	1539	779	1247	644	1031	541	866	
		F		8.3-2R		8.9-2.2R		9.4-2.3R		9.8-2.3R		10.1-2.4R		10.4-2.4R		10.7-2.4R		10.9-2.3R		11.1-2.3R		11.1-2.3R
12"	$q_a$	$q_f$	860	1385	822	1323	795	1280	775	1248	760	1224	748	1205	739	1189	644	1031	541	866		
	F		9-2.5R		9.8-2.8R		10.4-3R		11-3.2R		11.5-3.3R		12-3.4R		12.4-3.5R		12.8-3.5R		13.1-3.5R		13.1-3.5R	
18"	$q_a$	$q_f$	743	1385	725	1167	622	1002	626	1008	629	1013	568	914	576	927	583	938	540	866		
	F		9.5-2.9R		10.5-3.4R		11.4-3.8R		12.2-4.1R		12.9-4.3R		13.6-4.5R		14.2-4.7R		14.7-4.8R		15.2-5R		15.2-5R	
24"	$q_a$	$q_f$	609	981	617	994	526	847	544	876	482	776	502	807	455	733	474	763	437	704		
	F		9.9-3.2R		11-3.8R		12-4.2R		13-4.6R		13.8-5R		14.6-5.3R		15.4-5.6R		16.1-5.8R		16.7-6R		16.7-6R	

# 2.6 DGB-36 & DGBF-36

## 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 <sub>a</sub> ) (plf), Factored Shear (q <sub>r</sub> ) (plf), and Flexibility Factor (F) (10 <sup>-6</sup> in/lbs)																				
			Span →	4' - 0"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"			
36/9	16 ga	4"	q <sub>a</sub> q <sub>r</sub>	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2634	4215	2134	3414	1763	2821	1482	2371		
			F	2.9 -0.2R		3 -0.2R		3 -0.2R		3.1 -0.2R		3.1 -0.2R		3.1 -0.1R		3.1 -0.1R		3.1 -0.1R		3.1 -0.1R			
		6"	q <sub>a</sub> q <sub>r</sub>	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2634	4215	2134	3414	1763	2821	1482	2371
			F	3.2 -0.3R		3.3 -0.3R		3.3 -0.3R		3.4 -0.3R		3.4 -0.3R		3.5 -0.3R		3.5 -0.2R		3.6 -0.2R		3.6 -0.2R		3.6 -0.2R	
		8"	q <sub>a</sub> q <sub>r</sub>	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2738	4408	2634	4215	2134	3414	1763	2821	1482	2371
			F	3.3 -0.4R		3.5 -0.4R		3.6 -0.4R		3.7 -0.4R		3.8 -0.4R		3.8 -0.4R		3.9 -0.4R		3.9 -0.4R		3.9 -0.4R		4 -0.3R	
	12"	q <sub>a</sub> q <sub>r</sub>	2738	4408	2738	4408	2694	4338	2647	4262	2611	4204	2582	4157	2134	3414	1763	2821	1482	2371			
		F	3.6 -0.5R		3.8 -0.6R		4 -0.6R		4.1 -0.6R		4.2 -0.6R		4.4 -0.6R		4.4 -0.6R		4.5 -0.6R		4.6 -0.6R		4.6 -0.6R		
	18"	q <sub>a</sub> q <sub>r</sub>	2544	4408	2503	4029	2215	3566	2231	3592	2243	3611	2059	3316	2088	3361	1763	2821	1482	2371			
		F	3.8 -0.7R		4.1 -0.7R		4.4 -0.8R		4.6 -0.8R		4.8 -0.9R		4.9 -0.9R		5.1 -0.9R		5.2 -0.9R		5.3 -0.9R		5.3 -0.9R		
	24"	q <sub>a</sub> q <sub>r</sub>	2158	3474	2192	3530	1912	3078	1976	3182	1778	2863	1846	2972	1694	2728	1760	2821	1482	2371			
		F	4 -0.7R		4.3 -0.9R		4.6 -0.9R		4.9 -1R		5.1 -1R		5.3 -1.1R		5.5 -1.1R		5.7 -1.1R		5.9 -1.2R		5.9 -1.2R		
	18 ga	4"	q <sub>a</sub> q <sub>r</sub>	2216	3568	2216	3568	2216	3568	2216	3568	2216	3568	1914	3062	1550	2481	1281	2050	1077	1723		
			F	3.8 -0.3R		3.9 -0.3R		3.9 -0.3R		4 -0.3R		4.1 -0.3R		4.1 -0.3R		4.1 -0.3R		4.2 -0.2R		4.2 -0.2R		4.2 -0.2R	
		6"	q <sub>a</sub> q <sub>r</sub>	2216	3568	2216	3568	2216	3568	2216	3568	2216	3568	1914	3062	1550	2481	1281	2050	1077	1723		
			F	4 -0.5R		4.2 -0.5R		4.3 -0.5R		4.4 -0.5R		4.5 -0.5R		4.6 -0.4R		4.7 -0.4R		4.7 -0.4R		4.8 -0.4R		4.8 -0.4R	
		8"	q <sub>a</sub> q <sub>r</sub>	2216	3568	2216	3568	2216	3568	2216	3568	2216	3568	1914	3062	1550	2481	1281	2050	1077	1723		
			F	4.2 -0.6R		4.5 -0.6R		4.6 -0.6R		4.8 -0.6R		4.9 -0.6R		5 -0.6R		5.1 -0.6R		5.2 -0.6R		5.3 -0.6R		5.3 -0.6R	
	12"	q <sub>a</sub> q <sub>r</sub>	2102	3384	2014	3242	1951	3141	1904	3065	1868	3007	1839	2960	1550	2481	1281	2050	1077	1723			
		F	4.5 -0.7R		4.8 -0.8R		5.1 -0.8R		5.3 -0.9R		5.5 -0.9R		5.7 -0.9R		5.8 -0.9R		6 -0.9R		6.1 -0.9R		6.1 -0.9R		
	18"	q <sub>a</sub> q <sub>r</sub>	1871	3384	1817	2926	1589	2558	1588	2557	1588	2556	1446	2328	1460	2351	1281	2050	1077	1723			
		F	4.7 -0.9R		5.1 -1R		5.5 -1.1R		5.8 -1.1R		6.1 -1.2R		6.3 -1.3R		6.5 -1.3R		6.8 -1.3R		6.9 -1.4R		6.9 -1.4R		
	24"	q <sub>a</sub> q <sub>r</sub>	1591	2562	1590	2560	1374	2212	1405	2262	1256	2022	1295	2085	1183	1904	1222	1968	1077	1723			
		F	4.9 -0.9R		5.3 -1.1R		5.7 -1.2R		6.1 -1.3R		6.4 -1.4R		6.7 -1.5R		7 -1.6R		7.3 -1.6R		7.5 -1.7R		7.5 -1.7R		
20 ga	4"	q <sub>a</sub> q <sub>r</sub>	1685	2714	1685	2714	1685	2714	1685	2714	1601	2562	1265	2024	1025	1640	847	1355	712	1139			
		F	5.1 -0.5R		5.3 -0.5R		5.5 -0.6R		5.6 -0.5R		5.7 -0.5R		5.8 -0.5R		5.9 -0.5R		6 -0.5R		6 -0.5R		6 -0.5R		
	6"	q <sub>a</sub> q <sub>r</sub>	1685	2714	1685	2714	1685	2714	1685	2714	1601	2562	1265	2024	1025	1640	847	1355	712	1139			
		F	5.5 -0.7R		5.8 -0.8R		6 -0.8R		6.2 -0.8R		6.4 -0.8R		6.5 -0.8R		6.7 -0.8R		6.8 -0.8R		6.9 -0.8R		6.9 -0.8R		
	8"	q <sub>a</sub> q <sub>r</sub>	1667	2684	1651	2658	1562	2515	1565	2520	1504	2421	1265	2024	1025	1640	847	1355	712	1139			
		F	5.7 -0.8R		6 -0.9R		6.3 -1R		6.6 -1R		6.8 -1.1R		7 -1.1R		7.2 -1.1R		7.4 -1.1R		7.5 -1.1R		7.5 -1.1R		
12"	q <sub>a</sub> q <sub>r</sub>	1416	2280	1334	2148	1276	2055	1233	1985	1200	1931	1173	1889	1025	1640	847	1355	712	1139				
	F	5.9 -1R		6.4 -1.1R		6.8 -1.2R		7.2 -1.3R		7.5 -1.4R		7.8 -1.5R		8.1 -1.5R		8.3 -1.6R		8.5 -1.6R		8.5 -1.6R			
18"	q <sub>a</sub> q <sub>r</sub>	1261	2280	1203	1937	1039	1673	1026	1651	1015	1635	918	1478	921	1482	847	1355	712	1139				
	F	6.1 -1.1R		6.7 -1.3R		7.2 -1.5R		7.6 -1.6R		8.1 -1.8R		8.5 -1.9R		8.8 -2R		9.2 -2.1R		9.5 -2.1R		9.5 -2.1R			
24"	q <sub>a</sub> q <sub>r</sub>	1085	1747	1058	1703	906	1458	911	1467	810	1304	825	1328	750	1208	768	1237	709	1139				
	F	6.3 -1.2R		6.9 -1.4R		7.4 -1.6R		7.9 -1.8R		8.4 -2R		8.9 -2.1R		9.3 -2.3R		9.7 -2.4R		10.1 -2.5R		10.1 -2.5R			
22 ga	4"	q <sub>a</sub> q <sub>r</sub>	1412	2274	1412	2274	1412	2274	1412	2274	1218	1948	962	1539	779	1247	644	1031	541	866			
		F	6.2 -0.7R		6.5 -0.8R		6.7 -0.8R		6.9 -0.8R		7.1 -0.8R		7.3 -0.8R		7.4 -0.8R		7.5 -0.8R		7.6 -0.8R		7.6 -0.8R		
	6"	q <sub>a</sub> q <sub>r</sub>	1412	2274	1404	2260	1370	2206	1345	2166	1218	1948	962	1539	779	1247	644	1031	541	866			
		F	6.6 -0.9R		7 -1R		7.3 -1.1R		7.6 -1.1R		7.8 -1.1R		8.1 -1.2R		8.3 -1.2R		8.4 -1.2R		8.6 -1.2R		8.6 -1.2R		
	8"	q <sub>a</sub> q <sub>r</sub>	1296	2087	1273	2050	1194	1922	1191	1917	1137	1831	962	1539	779	1247	644	1031	541	866			
		F	6.8 -1R		7.2 -1.2R		7.6 -1.3R		8 -1.4R		8.3 -1.4R		8.6 -1.5R		8.9 -1.5R		9.1 -1.5R		9.4 -1.6R		9.4 -1.6R		
12"	q <sub>a</sub> q <sub>r</sub>	1099	1770	1024	1649	971	1563	931	1499	901	1450	877	1412	779	1247	644	1031	541	866				
	F	7 -1.2R		7.6 -1.4R		8.1 -1.6R		8.6 -1.7R		9 -1.8R		9.4 -1.9R		9.8 -2R		10.1 -2.1R		10.4 -2.1R		10.4 -2.1R			
18"	q <sub>a</sub> q <sub>r</sub>	983	1770	925	1490	795	1279	777	1251	764	1230	689	1109	687	1105	644	1031	541	866				
	F	7.2 -1.3R		7.9 -1.6R		8.5 -1.8R		9 -2R		9.6 -2.2R		10.1 -2.3R		10.6 -2.5R		11 -2.6R		11.4 -2.7R		11.4 -2.7R			
24"	q <sub>a</sub> q <sub>r</sub>	854	1375	819	1318	698	1124	694	1118	609	980	618	996	557	896	570	918	523	841				
	F	7.3 -1.4R		8 -1.7R		8.7 -1.9R		9.3 -2.2R		9.9 -2.4R		10.5 -2.6R		11 -2.8R		11.6 -2.9R		12.1 -3.1R		12.1 -3.1R			

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Support Attachment: Hilti X-ENP-19 PAF

Side Seam Attachment: DeltaGrip



# DGB-36 & DGBF-36 2.7

## Pneutek SDK61 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/9	16 ga	4"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371				
			F		3.2 -0.1R	3.3 +0R																		
		6"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371		
			F		3.7 -0.2R	3.8 -0.1R																		
		8"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371		
			F		4.1 -0.3R	4.1 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.2R	4.3 -0.2R	4.4 -0.2R	4.4 -0.2R	4.4 -0.1R	4.4 -0.1R	4.4 -0.1R									
	12"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2501	4026	2476	3987	2134	3414	1763	2821	1482	2371	
		F		4.8 -0.5R	4.8 -0.5R	5 -0.5R	5 -0.5R	5.1 -0.5R	5.2 -0.4R	5.3 -0.4R	5.3 -0.4R	5.3 -0.3R	5.4 -0.3R											
	18"	$q_a$	$q_f$	2419	4054	2389	3846	2125	3421	2145	3453	2160	3477	1989	3203	2018	3250	1763	2821	1482	2371			
		F		5.7 -0.9R	5.7 -0.9R	6 -0.8R	6 -0.8R	6.2 -0.8R	6.4 -0.8R	6.4 -0.8R	6.4 -0.8R	6.5 -0.7R	6.5 -0.7R	6.6 -0.7R	6.6 -0.7R	6.7 -0.6R	6.7 -0.6R	6.8 -0.6R						
	24"	$q_a$	$q_f$	2053	3305	2096	3375	1836	2955	1903	3064	1717	2764	1786	2875	1643	2644	1708	2749	1482	2371			
		F		6.4 -1.2R	6.4 -1.2R	6.8 -1.2R	6.8 -1.2R	7.1 -1.2R	7.4 -1.1R	7.4 -1.1R	7.4 -1.1R	7.6 -1.1R	7.6 -1.1R	7.8 -1R	7.8 -1R	7.9 -1R	8 -1R	8 -1R	8 -1R	8.1 -0.9R	8.1 -0.9R	8.1 -0.9R		
	18 ga	4"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.1R	4.4 -0.1R														
		6"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.9 -0.4R	4.9 -0.4R	5 -0.3R	5 -0.3R	5.1 -0.3R	5.2 -0.3R	5.3 -0.2R	5.3 -0.2R												
		8"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		5.5 -0.5R	5.5 -0.5R	5.7 -0.5R	5.7 -0.5R	5.8 -0.5R	5.9 -0.4R	6 -0.4R	6 -0.4R	6 -0.3R	6 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R					
	12"	$q_a$	$q_f$	2016	3245	1938	3120	1882	3031	1841	2964	1809	2912	1783	2871	1550	2481	1281	2050	1077	1723			
		F		6.5 -0.9R	6.5 -0.9R	6.8 -0.9R	6.8 -0.9R	7 -0.8R	7.1 -0.8R	7.1 -0.8R	7.1 -0.8R	7.3 -0.7R	7.3 -0.7R	7.4 -0.7R	7.4 -0.7R	7.5 -0.7R	7.5 -0.7R	7.5 -0.6R	7.5 -0.6R	7.6 -0.6R	7.6 -0.6R	7.6 -0.6R		
	18"	$q_a$	$q_f$	1795	3245	1751	2819	1536	2473	1539	2478	1541	2482	1407	2265	1423	2291	1281	2050	1077	1723			
		F		7.6 -1.4R	7.6 -1.4R	8.1 -1.4R	8.1 -1.4R	8.4 -1.4R	8.7 -1.3R	8.7 -1.3R	8.7 -1.3R	9 -1.3R	9 -1.3R	9.2 -1.2R	9.2 -1.2R	9.4 -1.2R	9.4 -1.2R	9.5 -1.1R	9.5 -1.1R	9.6 -1.1R	9.6 -1.1R	9.6 -1.1R		
	24"	$q_a$	$q_f$	1525	2455	1531	2466	1327	2136	1362	2192	1219	1963	1260	2028	1152	1855	1193	1920	1077	1723			
		F		8.4 -1.8R	8.4 -1.8R	9.1 -1.9R	9.1 -1.9R	9.6 -1.9R	10 -1.8R	10 -1.8R	10 -1.8R	10.4 -1.8R	10.4 -1.8R	10.7 -1.8R	10.7 -1.8R	11.1 -1.7R	11.1 -1.7R	11.2 -1.7R	11.2 -1.7R	11.4 -1.6R	11.4 -1.6R	11.4 -1.6R		
20 ga	4"	$q_a$	$q_f$	1594	2566	1594	2566	1594	2566	1594	2566	1594	2566	1594	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		6.2 -0.4R	6.2 -0.4R	6.3 -0.4R	6.3 -0.4R	6.4 -0.4R	6.5 -0.3R	6.6 -0.3R	6.6 -0.3R	6.6 -0.2R												
	6"	$q_a$	$q_f$	1594	2566	1594	2566	1594	2566	1594	2566	1594	2566	1594	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		7.2 -0.8R	7.2 -0.8R	7.4 -0.7R	7.4 -0.7R	7.6 -0.7R	7.7 -0.6R	7.7 -0.6R	7.7 -0.6R	7.8 -0.6R	7.8 -0.6R	7.9 -0.5R	7.9 -0.5R	8 -0.5R	8 -0.5R	8 -0.5R	8 -0.5R	8.1 -0.4R	8.1 -0.4R	8.1 -0.4R		
	8"	$q_a$	$q_f$	1594	2566	1594	2566	1516	2441	1521	2449	1464	2357	1265	2024	1025	1640	847	1355	712	1139			
		F		8 -1.1R	8 -1.1R	8.4 -1R	8.4 -1R	8.6 -1R	8.8 -0.9R	8.8 -0.9R	8.8 -0.9R	9 -0.9R	9 -0.9R	9.1 -0.8R	9.1 -0.8R	9.2 -0.8R	9.2 -0.8R	9.3 -0.7R	9.3 -0.7R	9.4 -0.7R	9.4 -0.7R	9.4 -0.7R		
12"	$q_a$	$q_f$	1370	2206	1295	2085	1242	1999	1202	1935	1171	1886	1147	1847	1025	1640	847	1355	712	1139				
	F		9.3 -1.6R	9.3 -1.6R	9.9 -1.6R	9.9 -1.6R	10.3 -1.6R	10.7 -1.6R	10.7 -1.6R	10.7 -1.6R	10.9 -1.5R	10.9 -1.5R	11.2 -1.5R	11.2 -1.5R	11.4 -1.4R	11.4 -1.4R	11.6 -1.4R	11.6 -1.4R	11.7 -1.3R	11.7 -1.3R	11.7 -1.3R			
18"	$q_a$	$q_f$	1219	2206	1167	1879	1010	1626	1000	1609	992	1597	898	1446	902	1452	847	1355	712	1139				
	F		10.6 -2.3R	10.6 -2.3R	11.5 -2.4R	11.5 -2.4R	12.2 -2.5R	12.8 -2.5R	12.8 -2.5R	12.8 -2.5R	13.3 -2.5R	13.3 -2.5R	13.7 -2.4R	13.7 -2.4R	14.1 -2.4R	14.1 -2.4R	14.4 -2.3R	14.4 -2.3R	14.7 -2.3R	14.7 -2.3R	14.7 -2.3R			
24"	$q_a$	$q_f$	1046	1684	1025	1650	879	1415	887	1428	789	1270	806	1297	733	1180	752	1211	695	1119				
	F		11.5 -2.8R	11.5 -2.8R	12.7 -3R	12.7 -3R	13.6 -3.2R	14.4 -3.3R	14.4 -3.3R	14.4 -3.3R	15.1 -3.3R	15.1 -3.3R	15.7 -3.3R	15.7 -3.3R	16.3 -3.3R	16.3 -3.3R	16.7 -3.3R	16.7 -3.3R	17.2 -3.2R	17.2 -3.2R	17.2 -3.2R			
22 ga	4"	$q_a$	$q_f$	1344	2165	1344	2165	1344	2165	1344	2165	1218	1948	962	1539	779	1247	644	1031	541	866			
		F		7.9 -0.7R	7.9 -0.7R	8.1 -0.6R	8.1 -0.6R	8.2 -0.6R	8.3 -0.5R	8.3 -0.5R	8.4 -0.5R	8.4 -0.5R	8.5 -0.5R	8.5 -0.5R	8.5 -0.4R	8.5 -0.4R	8.6 -0.4R							
	6"	$q_a$	$q_f$	1344	2165	1344	2165	1334	2148	1311	2111	1218	1948	962	1539	779	1247	644	1031	541	866			
		F		9.1 -1.2R	9.1 -1.2R	9.5 -1.1R	9.5 -1.1R	9.7 -1.1R	10 -1R	10 -1R	10 -1R	10.1 -0.9R	10.1 -0.9R	10.3 -0.9R	10.3 -0.9R	10.4 -0.8R	10.4 -0.8R	10.5 -0.8R	10.5 -0.8R	10.6 -0.8R	10.6 -0.8R	10.6 -0.8R		
	8"	$q_a$	$q_f$	1258	2026	1239	1995	1164	1875	1163	1873	1113	1791	962	1539	779	1247	644	1031	541	866			
		F		10.1 -1.6R	10.1 -1.6R	10.6 -1.6R	10.6 -1.6R	11 -1.5R	11.3 -1.5R	11.3 -1.5R	11.3 -1.5R	11.6 -1.4R	11.6 -1.4R	11.8 -1.3R	11.8 -1.3R	12 -1.3R	12 -1.3R	12.2 -1.2R	12.2 -1.2R	12.3 -1.2R	12.3 -1.2R	12.3 -1.2R		
12"	$q_a$	$q_f$	1067	1718	997	1605	948	1526	911	1466	882	1421	860	1384	779	1247	644	1031	541	866				
	F		11.5 -2.3R	11.5 -2.3R	12.4 -2.4R	12.4 -2.4R	13 -2.4R	13.6 -2.4R	13.6 -2.4R	13.6 -2.4R	14.1 -2.3R	14.1 -2.3R	14.5 -2.3R	14.5 -2.3R	14.8 -2.2R	14.8 -2.2R	15.1 -2.2R	15.1 -2.2R	15.3 -2.1R	15.3 -2.1R	15.3 -2.1R			
18"	$q_a$	$q_f$	953	1718	900	1450	774	1247	759	1222	748	1204	674	1086	674	1084	644	1031	541	866				
	F		12.9 -3.1R	12.9 -3.1R	14.2 -3.3R	14.2 -3.3R	15.2 -3.4R	16.1 -3.5R	16.1 -3.5R	16.1 -3.5R	16.8 -3.6R	16.8 -3.6R	17.5 -3.6R	17.5 -3.6R	18.1 -3.6R	18.1 -3.6R	18.6 -3.5R	18.6 -3.5R	19 -3.5R	19 -3.5R	19 -3.5R			
24"	$q_a$	$q_f$	826	1330	795	1280	679	1093	677	1090	597	960	607	978	547	880	561	903	514	828				
	F		13.9 -3.6R	13.9 -3.6R	15.4 -4R	15.4 -4R	16.7 -4.3R	17.9 -4.5R	17.9 -4.5R	17.9 -4.5R	18.9 -4.6R	18.9 -4.6R	19.8 -4.7R	19.8 -4.7R	20.6 -4.7R	20.6 -4.7R	21.3 -4.8R	21.3 -4.8R	22 -4.8R	22 -4.8R	22 -4.8R			

# DGB-36 & DGBF-36 2.7

## Pneutek SDK61 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/9	16 ga	4"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371				
			F		3.2 -0.1R	3.3 +0R																		
		6"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371		
			F		3.7 -0.2R	3.8 -0.1R																		
		8"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2134	3414	1763	2821	1482	2371		
			F		4.1 -0.3R	4.1 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.2R	4.3 -0.2R	4.4 -0.2R	4.4 -0.2R	4.4 -0.1R	4.4 -0.1R	4.4 -0.1R									
		12"	$q_a$	$q_f$	2518	4054	2518	4054	2518	4054	2518	4054	2518	4054	2501	4026	2476	3987	2134	3414	1763	2821	1482	2371
			F		4.8 -0.5R	4.8 -0.5R	5 -0.5R	5 -0.5R	5.1 -0.5R	5.2 -0.4R	5.3 -0.4R	5.3 -0.4R	5.3 -0.3R	5.4 -0.3R										
		18"	$q_a$	$q_f$	2419	4054	2389	3846	2125	3421	2145	3453	2160	3477	1989	3203	2018	3250	1763	2821	1482	2371		
			F		5.7 -0.9R	5.7 -0.9R	6 -0.8R	6 -0.8R	6.2 -0.8R	6.4 -0.8R	6.4 -0.8R	6.4 -0.8R	6.5 -0.7R	6.5 -0.7R	6.6 -0.7R	6.6 -0.7R	6.7 -0.6R	6.7 -0.6R	6.8 -0.6R					
		24"	$q_a$	$q_f$	2053	3305	2096	3375	1836	2955	1903	3064	1717	2764	1786	2875	1643	2644	1708	2749	1482	2371		
			F		6.4 -1.2R	6.4 -1.2R	6.8 -1.2R	6.8 -1.2R	7.1 -1.2R	7.4 -1.1R	7.4 -1.1R	7.4 -1.1R	7.6 -1.1R	7.6 -1.1R	7.8 -1R	7.8 -1R	7.9 -1R	8 -1R	8 -1R	8 -1R	8.1 -0.9R	8.1 -0.9R	8.1 -0.9R	
	18 ga	4"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.1R	4.4 -0.1R														
		6"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.9 -0.4R	4.9 -0.4R	5 -0.3R	5 -0.3R	5.1 -0.3R	5.2 -0.3R	5.3 -0.2R													
		8"	$q_a$	$q_f$	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	2068	3329	1914	3062	1550	2481	1281	2050	1077	1723
			F		5.5 -0.5R	5.5 -0.5R	5.7 -0.5R	5.7 -0.5R	5.8 -0.5R	5.9 -0.4R	6 -0.4R	6 -0.4R	6 -0.3R	6 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R					
		12"	$q_a$	$q_f$	2016	3245	1938	3120	1882	3031	1841	2964	1809	2912	1783	2871	1550	2481	1281	2050	1077	1723		
			F		6.5 -0.9R	6.5 -0.9R	6.8 -0.9R	6.8 -0.9R	7 -0.8R	7.1 -0.8R	7.1 -0.8R	7.1 -0.8R	7.3 -0.7R	7.3 -0.7R	7.4 -0.7R	7.4 -0.7R	7.5 -0.7R	7.5 -0.7R	7.5 -0.6R	7.5 -0.6R	7.6 -0.6R	7.6 -0.6R	7.6 -0.6R	
		18"	$q_a$	$q_f$	1795	3245	1751	2819	1536	2473	1539	2478	1541	2482	1407	2265	1423	2291	1281	2050	1077	1723		
			F		7.6 -1.4R	7.6 -1.4R	8.1 -1.4R	8.1 -1.4R	8.4 -1.4R	8.7 -1.3R	8.7 -1.3R	8.7 -1.3R	9 -1.3R	9 -1.3R	9.2 -1.2R	9.2 -1.2R	9.4 -1.2R	9.4 -1.2R	9.5 -1.1R	9.5 -1.1R	9.6 -1.1R	9.6 -1.1R	9.6 -1.1R	
		24"	$q_a$	$q_f$	1525	2455	1531	2466	1327	2136	1362	2192	1219	1963	1260	2028	1152	1855	1193	1920	1077	1723		
			F		8.4 -1.8R	8.4 -1.8R	9.1 -1.9R	9.1 -1.9R	9.6 -1.9R	10 -1.8R	10 -1.8R	10 -1.8R	10.4 -1.8R	10.4 -1.8R	10.7 -1.8R	10.7 -1.8R	11.1 -1.7R	11.1 -1.7R	11.2 -1.7R	11.2 -1.7R	11.4 -1.6R	11.4 -1.6R	11.4 -1.6R	
	20 ga	4"	$q_a$	$q_f$	1594	2566	1594	2566	1594	2566	1594	2566	1594	2566	1594	2562	1265	2024	1025	1640	847	1355	712	1139
			F		6.2 -0.4R	6.2 -0.4R	6.3 -0.4R	6.3 -0.4R	6.4 -0.4R	6.5 -0.3R	6.6 -0.2R													
		6"	$q_a$	$q_f$	1594	2566	1594	2566	1594	2566	1594	2566	1594	2566	1594	2562	1265	2024	1025	1640	847	1355	712	1139
			F		7.2 -0.8R	7.2 -0.8R	7.4 -0.7R	7.4 -0.7R	7.6 -0.7R	7.7 -0.6R	7.7 -0.6R	7.7 -0.6R	7.8 -0.6R	7.8 -0.6R	7.9 -0.5R	7.9 -0.5R	8 -0.5R	8 -0.5R	8 -0.5R	8 -0.5R	8.1 -0.4R	8.1 -0.4R	8.1 -0.4R	
		8"	$q_a$	$q_f$	1594	2566	1594	2566	1516	2441	1521	2449	1464	2357	1265	2024	1025	1640	847	1355	712	1139		
			F		8 -1.1R	8 -1.1R	8.4 -1R	8.4 -1R	8.6 -1R	8.8 -0.9R	8.8 -0.9R	8.8 -0.9R	9 -0.9R	9 -0.9R	9.1 -0.8R	9.1 -0.8R	9.2 -0.8R	9.2 -0.8R	9.3 -0.7R	9.3 -0.7R	9.4 -0.7R	9.4 -0.7R	9.4 -0.7R	
		12"	$q_a$	$q_f$	1370	2206	1295	2085	1242	1999	1202	1935	1171	1886	1147	1847	1025	1640	847	1355	712	1139		
			F		9.3 -1.6R	9.3 -1.6R	9.9 -1.6R	9.9 -1.6R	10.3 -1.6R	10.7 -1.6R	10.7 -1.6R	10.7 -1.6R	10.9 -1.5R	10.9 -1.5R	11.2 -1.5R	11.2 -1.5R	11.4 -1.4R	11.4 -1.4R	11.6 -1.4R	11.6 -1.4R	11.7 -1.3R	11.7 -1.3R	11.7 -1.3R	
		18"	$q_a$	$q_f$	1219	2206	1167	1879	1010	1626	1000	1609	992	1597	898	1446	902	1452	847	1355	712	1139		
			F		10.6 -2.3R	10.6 -2.3R	11.5 -2.4R	11.5 -2.4R	12.2 -2.5R	12.8 -2.5R	12.8 -2.5R	12.8 -2.5R	13.3 -2.5R	13.3 -2.5R	13.7 -2.4R	13.7 -2.4R	14.1 -2.4R	14.1 -2.4R	14.4 -2.3R	14.4 -2.3R	14.7 -2.3R	14.7 -2.3R	14.7 -2.3R	
		24"	$q_a$	$q_f$	1046	1684	1025	1650	879	1415	887	1428	789	1270	806	1297	733	1180	752	1211	695	1119		
			F		11.5 -2.8R	11.5 -2.8R	12.7 -3R	12.7 -3R	13.6 -3.2R	14.4 -3.3R	14.4 -3.3R	14.4 -3.3R	15.1 -3.3R	15.1 -3.3R	15.7 -3.3R	15.7 -3.3R	16.3 -3.3R	16.3 -3.3R	16.7 -3.3R	16.7 -3.3R	17.2 -3.2R	17.2 -3.2R	17.2 -3.2R	
22 ga	4"	$q_a$	$q_f$	1344	2165	1344	2165	1344	2165	1344	2165	1344	2165	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		7.9 -0.7R	7.9 -0.7R	8.1 -0.6R	8.1 -0.6R	8.2 -0.6R	8.3 -0.5R	8.3 -0.5R	8.3 -0.5R	8.4 -0.5R	8.4 -0.5R	8.5 -0.5R	8.5 -0.5R	8.5 -0.4R	8.5 -0.4R	8.6 -0.4R						
	6"	$q_a$	$q_f$	1344	2165	1344	2165	1334	2148	1311	2111	1218	1948	962	1539	779	1247	644	1031	541	866			
		F		9.1 -1.2R	9.1 -1.2R	9.5 -1.1R	9.5 -1.1R	9.7 -1.1R	10 -1R	10 -1R	10 -1R	10.1 -0.9R	10.1 -0.9R	10.3 -0.9R	10.3 -0.9R	10.4 -0.8R	10.4 -0.8R	10.5 -0.8R	10.5 -0.8R	10.6 -0.8R	10.6 -0.8R	10.6 -0.8R		
	8"	$q_a$	$q_f$	1258	2026	1239	1995	1164	1875	1163	1873	1113	1791	962	1539	779	1247	644	1031	541	866			
		F		10.1 -1.6R	10.1 -1.6R	10.6 -1.6R	10.6 -1.6R	11 -1.5R	11.3 -1.5R	11.3 -1.5R	11.3 -1.5R	11.6 -1.4R	11.6 -1.4R	11.8 -1.3R	11.8 -1.3R	12 -1.3R	12 -1.3R	12.2 -1.2R	12.2 -1.2R	12.3 -1.2R	12.3 -1.2R	12.3 -1.2R		
	12"	$q_a$	$q_f$	1067	1718	997	1605	948	1526	911	1466	882	1421	860	1384	779	1247	644	1031	541	866			
		F		11.5 -2.3R	11.5 -2.3R	12.4 -2.4R	12.4 -2.4R	13 -2.4R	13.6 -2.4R	13.6 -2.4R	13.6 -2.4R	14.1 -2.3R	14.1 -2.3R	14.5 -2.3R	14.5 -2.3R	14.8 -2.2R	14.8 -2.2R	15.1 -2.2R	15.1 -2.2R	15.3 -2.1R	15.3 -2.1R	15.3 -2.1R		
	18"	$q_a$	$q_f$	953	1718	900	1450	774	1247	759	1222	748	1204	674	1086	674	1084	644	1031	541	866			
		F		12.9 -3.1R	12.9 -3.1R	14.2 -3.3R	14.2 -3.3R	15.2 -3.4R	16.1 -3.5R	16.1 -3.5R	16.1 -3.5R	16.8 -3.6R	16.8 -3.6R	17.5 -3.6R	17.5 -3.6R	18.1 -3.6R	18.1 -3.6R	18.6 -3.5R	18.6 -3.5R	19 -3.5R	19 -3.5R	19 -3.5R		
	24"	$q_a$	$q_f$	826	1330	795	1280	679	1093	677	1090	597	960	607	978	547	880	561	903	514	828			
		F		13.9 -3.6R	13.9 -3.6R	15.4 -4R	15.4 -4R	16.7 -4.3R	17.9 -4.5R	17.9 -4.5R	17.9 -4.5R	18.9 -4.6R	18.9 -4.6R	19.8 -4.7R	19.8 -4.7R	20.6 -4.7R	20.6 -4.7R	21.3 -4.8R	21.3 -4.8R	22 -4.8R	22 -4.8R	22 -4.8R		

# 2.7 DGB-36 & DGBF-36

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/4	16 ga	4"	$q_a$	$q_f$	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959		
			F		3.3	-0.1R	3.3	+0R	3.3	+0R	3.3	+0R	3.3	+0R										
		6"	$q_a$	$q_f$	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959
			F		3.8	-0.1R	3.8	-0.1R	3.8	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	+0R	3.9	+0R	3.9	+0R
		8"	$q_a$	$q_f$	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959
			F		4.3	-0.2R	4.4	-0.2R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R
	12"	$q_a$	$q_f$	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	
		F		5.3	-0.4R	5.4	-0.3R	5.5	-0.3R	5.5	-0.2R	5.5	-0.2R	5.6	-0.2R	5.6	-0.2R	5.6	-0.2R	5.6	-0.2R	5.6	-0.2R	
	18"	$q_a$	$q_f$	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	1217	1959	
		F		6.6	-0.7R	6.8	-0.6R	6.9	-0.5R	7	-0.5R	7.1	-0.5R	7.1	-0.4R	7.2	-0.4R	7.2	-0.4R	7.2	-0.4R	7.3	-0.3R	
	24"	$q_a$	$q_f$	1217	1959	1217	1959	1173	1889	1217	1959	1149	1849	1193	1920	1133	1824	1172	1887	1122	1807			
		F		7.8	-1R	8	-0.9R	8.3	-0.9R	8.4	-0.8R	8.5	-0.7R	8.6	-0.7R	8.7	-0.6R	8.8	-0.6R	8.8	-0.6R	8.8	-0.6R	
	18 ga	4"	$q_a$	$q_f$	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684
			F		4.4	-0.1R	4.4	-0.1R	4.4	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	+0R	4.5	+0R	4.5	+0R	4.5	+0R	4.5	+0R
		6"	$q_a$	$q_f$	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684
			F		5.2	-0.2R	5.3	-0.2R	5.3	-0.2R	5.3	-0.1R	5.4	-0.1R	5.4	-0.1R	5.4	-0.1R	5.4	-0.1R	5.4	-0.1R	5.4	-0.1R
		8"	$q_a$	$q_f$	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684
			F		6	-0.4R	6.1	-0.3R	6.1	-0.3R	6.2	-0.2R	6.2	-0.2R	6.2	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.2R	6.3	-0.2R
	12"	$q_a$	$q_f$	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	1046	1684	
		F		7.4	-0.7R	7.6	-0.6R	7.7	-0.5R	7.8	-0.5R	7.9	-0.4R	7.9	-0.4R	8	-0.4R	8	-0.4R	8	-0.3R	8	-0.3R	
	18"	$q_a$	$q_f$	1046	1684	1046	1684	1005	1618	1021	1644	1033	1663	976	1571	992	1596	1004	1616	961	1547			
		F		9.2	-1.2R	9.5	-1.1R	9.8	-1R	10	-1R	10.1	-0.9R	10.2	-0.8R	10.3	-0.8R	10.4	-0.7R	10.5	-0.7R	10.5	-0.7R	
	24"	$q_a$	$q_f$	940	1514	980	1579	887	1428	928	1493	857	1380	895	1440	839	1350	872	1404	826	1330			
		F		10.7	-1.8R	11.2	-1.7R	11.6	-1.6R	11.9	-1.5R	12.2	-1.4R	12.4	-1.3R	12.5	-1.2R	12.7	-1.2R	12.8	-1.1R	12.8	-1.1R	
20 ga	4"	$q_a$	$q_f$	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	847	1355	712	1139			
		F		6.6	-0.3R	6.6	-0.2R	6.7	-0.2R	6.7	-0.2R	6.7	-0.2R	6.7	-0.1R	6.8	-0.1R	6.8	-0.1R	6.8	-0.1R	6.8	-0.1R	
	6"	$q_a$	$q_f$	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	847	1355	712	1139			
		F		7.9	-0.5R	8	-0.5R	8.1	-0.4R	8.2	-0.4R	8.2	-0.3R	8.3	-0.3R	8.3	-0.3R	8.3	-0.3R	8.4	-0.2R	8.4	-0.2R	
	8"	$q_a$	$q_f$	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	856	1377	847	1355	712	1139			
		F		9.1	-0.8R	9.3	-0.7R	9.5	-0.7R	9.6	-0.6R	9.7	-0.5R	9.7	-0.5R	9.8	-0.5R	9.8	-0.4R	9.9	-0.4R	9.9	-0.4R	
12"	$q_a$	$q_f$	856	1377	846	1361	833	1341	823	1326	816	1314	810	1305	806	1297	802	1291	712	1139				
	F		11.2	-1.5R	11.6	-1.3R	11.9	-1.2R	12.1	-1.1R	12.3	-1.1R	12.5	-1R	12.6	-0.9R	12.7	-0.9R	12.8	-0.8R	12.8	-0.8R		
18"	$q_a$	$q_f$	779	1377	775	1248	697	1122	706	1137	713	1149	662	1066	673	1083	681	1097	643	1036				
	F		13.7	-2.4R	14.5	-2.3R	15.1	-2.2R	15.5	-2.1R	15.9	-2R	16.2	-1.9R	16.4	-1.8R	16.6	-1.7R	16.8	-1.6R	16.8	-1.6R		
24"	$q_a$	$q_f$	662	1065	683	1100	603	971	629	1013	571	920	596	960	551	888	574	925	538	866				
	F		15.7	-3.3R	16.9	-3.3R	17.7	-3.2R	18.4	-3.1R	18.9	-2.9R	19.4	-2.8R	19.8	-2.7R	20.1	-2.6R	20.4	-2.5R	20.4	-2.5R		
22 ga	4"	$q_a$	$q_f$	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	644	1031	541	866			
		F		8.5	-0.5R	8.6	-0.4R	8.7	-0.4R	8.7	-0.3R	8.8	-0.3R	8.8	-0.3R	8.8	-0.2R	8.9	-0.2R	8.9	-0.2R	8.9	-0.2R	
	6"	$q_a$	$q_f$	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	644	1031	541	866			
		F		10.3	-0.9R	10.5	-0.8R	10.7	-0.7R	10.8	-0.6R	10.9	-0.6R	10.9	-0.5R	11	-0.5R	11.1	-0.5R	11.1	-0.4R	11.1	-0.4R	
	8"	$q_a$	$q_f$	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	748	1204	644	1031	541	866			
		F		11.8	-1.3R	12.2	-1.2R	12.5	-1.1R	12.7	-1R	12.8	-0.9R	13	-0.9R	13.1	-0.8R	13.1	-0.8R	13.2	-0.7R	13.2	-0.7R	
12"	$q_a$	$q_f$	696	1120	675	1087	661	1064	650	1046	642	1033	635	1022	629	1013	625	1006	541	866				
	F		14.5	-2.3R	15.2	-2.1R	15.7	-2R	16.1	-1.9R	16.4	-1.8R	16.6	-1.7R	16.8	-1.6R	17	-1.5R	17.2	-1.4R	17.2	-1.4R		
18"	$q_a$	$q_f$	622	1120	613	987	543	874	548	882	551	888	507	816	514	828	520	837	487	785				
	F		17.5	-3.6R	18.7	-3.5R	19.6	-3.4R	20.4	-3.3R	21	-3.2R	21.4	-3R	21.8	-2.9R	22.2	-2.8R	22.5	-2.7R	22.5	-2.7R		
24"	$q_a$	$q_f$	526	846	536	863	468	753	485	781	437	703	454	731	417	671	433	698	403	650				
	F		19.8	-4.7R	21.5	-4.8R	22.8	-4.7R	23.9	-4.7R	24.8	-4.6R	25.5	-4.4R	26.2	-4.3R	26.7	-4.2R	27.2	-4R	27.2	-4R		

# DGB-36 & DGBF-36 2.7

## Pneutek SDK63 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/7/4	16 ga	4"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2134	3414	1763	2821	1482	2371		
			F		3.3 -0.1R		3.3 +0R		3.3 +0R		3.3 +0R		3.3 +0R											
		6"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2134	3414	1763	2821	1482	2371
			F		3.8 -0.2R		3.8 -0.2R		3.8 -0.2R		3.9 -0.1R													
		8"	$q_a$	$q_f$	2434	3919	2434	3919	2413	3885	2434	3919	2400	3864	2419	3895	2134	3414	1763	2821	1482	2371		
			F		4.3 -0.3R		4.4 -0.3R		4.4 -0.3R		4.4 -0.2R		4.4 -0.2R		4.4 -0.2R		4.5 -0.2R		4.5 -0.2R		4.5 -0.2R		4.5 -0.1R	
		12"	$q_a$	$q_f$	2164	3484	2135	3437	2115	3405	2100	3380	2088	3362	2079	3347	2072	3335	1763	2821	1482	2371		
			F		5.3 -0.6R		5.4 -0.6R		5.4 -0.5R		5.5 -0.5R		5.5 -0.4R		5.6 -0.4R		5.6 -0.4R		5.6 -0.4R		5.6 -0.3R		5.6 -0.3R	
		18"	$q_a$	$q_f$	1933	3484	1947	3134	1753	2822	1793	2887	1822	2934	1695	2729	1731	2786	1759	2821	1482	2371		
			F		6.5 -1.2R		6.7 -1.1R		6.9 -1R		7 -0.9R		7.1 -0.8R		7.1 -0.8R		7.2 -0.7R		7.2 -0.7R		7.2 -0.7R		7.3 -0.6R	
		24"	$q_a$	$q_f$	1598	2573	1694	2727	1495	2407	1585	2552	1440	2319	1520	2447	1406	2264	1476	2377	1383	2227		
			F		7.6 -1.7R		7.9 -1.6R		8.2 -1.5R		8.3 -1.4R		8.5 -1.3R		8.6 -1.2R		8.7 -1.1R		8.7 -1.1R		8.7 -1.1R		8.8 -1R	
	18 ga	4"	$q_a$	$q_f$	2092	3368	2092	3368	2092	3368	2092	3368	2092	3368	1914	3062	1550	2481	1281	2050	1077	1723		
			F		4.4 -0.2R		4.4 -0.2R		4.4 -0.2R		4.5 -0.1R													
		6"	$q_a$	$q_f$	2091	3366	2078	3346	2069	3332	2063	3321	2058	3313	1914	3062	1550	2481	1281	2050	1077	1723		
			F		5.2 -0.4R		5.3 -0.4R		5.3 -0.3R		5.3 -0.3R		5.4 -0.2R											
		8"	$q_a$	$q_f$	1930	3107	1950	3139	1894	3049	1915	3083	1875	3018	1894	3049	1550	2481	1281	2050	1077	1723		
			F		6 -0.6R		6.1 -0.6R		6.1 -0.5R		6.2 -0.5R		6.2 -0.4R		6.2 -0.4R		6.3 -0.3R		6.3 -0.3R		6.3 -0.3R		6.3 -0.3R	
		12"	$q_a$	$q_f$	1655	2664	1618	2605	1592	2564	1574	2533	1559	2510	1548	2492	1538	2477	1281	2050	1077	1723		
			F		7.3 -1.2R		7.5 -1.1R		7.7 -1R		7.8 -0.9R		7.8 -0.8R		7.9 -0.8R		7.9 -0.7R		7.9 -0.7R		8 -0.7R		8 -0.6R	
		18"	$q_a$	$q_f$	1449	2664	1449	2333	1278	2058	1305	2100	1324	2132	1215	1956	1241	1998	1262	2031	1077	1723		
			F		9 -2R		9.4 -1.9R		9.7 -1.8R		9.9 -1.6R		10.1 -1.5R		10.2 -1.5R		10.3 -1.4R		10.4 -1.3R		10.4 -1.3R		10.5 -1.2R	
		24"	$q_a$	$q_f$	1182	1902	1241	1997	1077	1734	1138	1832	1022	1646	1077	1735	988	1591	1037	1670	965	1554		
			F		10.4 -2.8R		11 -2.7R		11.5 -2.6R		11.8 -2.5R		12.1 -2.3R		12.3 -2.2R		12.4 -2.1R		12.6 -2R		12.7 -1.9R		12.7 -1.9R	
	20 ga	4"	$q_a$	$q_f$	1711	2755	1711	2755	1707	2748	1702	2741	1601	2562	1265	2024	1025	1640	847	1355	712	1139		
			F		6.5 -0.5R		6.6 -0.4R		6.7 -0.4R		6.7 -0.3R		6.7 -0.3R		6.7 -0.3R		6.7 -0.2R		6.8 -0.2R		6.8 -0.2R		6.8 -0.2R	
		6"	$q_a$	$q_f$	1535	2471	1515	2439	1501	2417	1491	2401	1483	2388	1265	2024	1025	1640	847	1355	712	1139		
			F		7.8 -0.9R		8 -0.8R		8.1 -0.7R		8.2 -0.7R		8.2 -0.6R		8.3 -0.6R		8.3 -0.5R		8.3 -0.5R		8.3 -0.5R		8.3 -0.4R	
		8"	$q_a$	$q_f$	1373	2211	1384	2228	1324	2132	1340	2157	1298	2090	1265	2024	1025	1640	847	1355	712	1139		
			F		9 -1.4R		9.2 -1.3R		9.4 -1.2R		9.5 -1.1R		9.6 -1R		9.7 -0.9R		9.8 -0.8R		9.8 -0.8R		9.8 -0.8R		9.9 -0.7R	
		12"	$q_a$	$q_f$	1137	1831	1095	1764	1066	1717	1045	1682	1028	1656	1016	1635	1005	1618	847	1355	712	1139		
			F		11 -2.4R		11.5 -2.2R		11.8 -2.1R		12 -2R		12.2 -1.8R		12.4 -1.7R		12.5 -1.6R		12.6 -1.6R		12.7 -1.5R		12.7 -1.5R	
		18"	$q_a$	$q_f$	983	1831	968	1559	837	1348	847	1364	855	1376	775	1248	789	1270	800	1287	712	1139		
			F		13.4 -3.7R		14.2 -3.6R		14.8 -3.5R		15.3 -3.4R		15.7 -3.3R		16 -3.1R		16.2 -3R		16.5 -2.9R		16.6 -2.8R		16.6 -2.8R	
		24"	$q_a$	$q_f$	802	1291	823	1326	705	1135	735	1184	654	1053	684	1101	623	1002	650	1047	601	968		
			F		15.2 -4.8R		16.4 -4.9R		17.3 -4.9R		18 -4.8R		18.6 -4.7R		19.1 -4.6R		19.5 -4.5R		19.8 -4.3R		20.1 -4.2R		20.1 -4.2R	
22 ga	4"	$q_a$	$q_f$	1419	2284	1406	2263	1397	2249	1390	2238	1218	1948	962	1539	779	1247	644	1031	541	866			
		F		8.4 -0.8R		8.6 -0.7R		8.7 -0.7R		8.7 -0.6R		8.8 -0.5R		8.8 -0.5R		8.8 -0.4R		8.9 -0.4R		8.9 -0.4R		8.9 -0.4R		
	6"	$q_a$	$q_f$	1229	1979	1205	1941	1189	1914	1177	1895	1167	1880	962	1539	779	1247	644	1031	541	866			
		F		10.2 -1.5R		10.4 -1.4R		10.6 -1.2R		10.7 -1.1R		10.8 -1.1R		10.9 -1R		11 -0.9R		11 -0.8R		11.1 -0.8R		11.1 -0.8R		
	8"	$q_a$	$q_f$	1082	1742	1085	1747	1028	1655	1038	1671	999	1608	962	1539	779	1247	644	1031	541	866			
		F		11.7 -2.2R		12.1 -2.1R		12.4 -1.9R		12.6 -1.8R		12.8 -1.7R		12.9 -1.6R		13 -1.5R		13.1 -1.4R		13.2 -1.3R		13.2 -1.3R		
	12"	$q_a$	$q_f$	885	1424	843	1356	813	1309	792	1275	775	1249	763	1228	752	1211	644	1031	541	866			
		F		14.1 -3.5R		14.9 -3.4R		15.4 -3.3R		15.9 -3.2R		16.2 -3R		16.5 -2.9R		16.7 -2.7R		16.9 -2.6R		17.1 -2.5R		17.1 -2.5R		
	18"	$q_a$	$q_f$	764	1424	743	1196	637	1026	639	1029	641	1032	578	931	586	943	592	953	541	866			
		F		16.9 -5.2R		18.2 -5.3R		19.1 -5.3R		19.9 -5.2R		20.6 -5.1R		21.1 -5R		21.5 -4.8R		21.9 -4.7R		22.2 -4.5R		22.2 -4.5R		
	24"	$q_a$	$q_f$	629	1012	634	1020	539	868	556	895	492	793	511	823	464	747	482	776	444	716			
		F		18.9 -6.6R		20.7 -6.9R		22.1 -7.1R		23.2 -7.1R		24.1 -7.1R		24.9 -7R		25.6 -6.9R		26.2 -6.7R		26.7 -6.6R		26.7 -6.6R		

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Support Attachment: Pneutek SDK63 PAF

Side Seam Attachment: DeltaGrip

# 2.7 DGB-36 & DGBF-36

## 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/9	16 ga	4"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2134	3414	1763	2821	1482	2371		
			F		3.2 -0.1R	3.3 +0R																		
		6"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2134	3414	1763	2821	1482	2371
			F		3.7 -0.2R	3.8 -0.1R																		
		8"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2134	3414	1763	2821	1482	2371
			F		4.1 -0.3R	4.2 -0.3R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.3 -0.2R	4.4 -0.2R	4.4 -0.1R												
		12"	$q_a$	$q_f$	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3919	2434	3918	2134	3414	1763	2821	1482	2371
			F		4.8 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5 -0.5R	5.3 -0.4R	5.3 -0.4R	5.3 -0.4R	5.3 -0.4R	5.4 -0.3R	5.4 -0.3R
		18"	$q_a$	$q_f$	2370	3919	2344	3773	2089	3363	2110	3398	2126	3423	1961	3157	1990	3204	1763	2821	1482	2371	1482	2371
			F		5.7 -0.9R	6 -0.8R	6.7 -0.6R	6.7 -0.6R	6.7 -0.6R	6.7 -0.6R	6.8 -0.6R	6.8 -0.6R												
		24"	$q_a$	$q_f$	2012	3239	2059	3314	1805	2907	1874	3017	1693	2725	1762	2836	1622	2611	1622	2611	1687	2716	1482	2371
			F		6.4 -1.2R	6.8 -1.2R	7.9 -1R	7.9 -1R	7.9 -1R	7.9 -1R	8 -1R	8.1 -0.9R												
	18 ga	4"	$q_a$	$q_f$	2092	3368	2092	3368	2092	3368	2092	3368	2092	3368	1914	3062	1550	2481	1281	2050	1077	1723	1077	1723
			F		4.3 -0.2R	4.4 -0.1R																		
		6"	$q_a$	$q_f$	2092	3368	2092	3368	2092	3368	2092	3368	2092	3368	1914	3062	1550	2481	1281	2050	1077	1723	1077	1723
			F		4.9 -0.4R	5 -0.3R	5.3 -0.2R																	
		8"	$q_a$	$q_f$	2092	3368	2092	3368	2092	3368	2092	3368	2092	3368	1914	3062	1550	2481	1281	2050	1077	1723	1077	1723
			F		5.5 -0.5R	5.7 -0.5R	6 -0.4R	6 -0.4R	6 -0.4R	6 -0.4R	6.1 -0.3R	6.1 -0.3R	6.1 -0.3R											
		12"	$q_a$	$q_f$	2030	3268	1950	3140	1894	3049	1851	2981	1819	2928	1793	2886	1550	2481	1281	2050	1077	1723	1077	1723
			F		6.5 -0.9R	6.8 -0.9R	7.5 -0.7R	7.5 -0.7R	7.5 -0.7R	7.5 -0.7R	7.5 -0.6R	7.6 -0.6R												
		18"	$q_a$	$q_f$	1808	3268	1762	2837	1545	2487	1547	2491	1549	2494	1414	2276	1429	2301	1281	2050	1077	1723	1077	1723
			F		7.6 -1.4R	8.1 -1.4R	9.4 -1.2R	9.4 -1.2R	9.4 -1.2R	9.4 -1.2R	9.5 -1.1R	9.6 -1.1R												
		24"	$q_a$	$q_f$	1536	2473	1541	2481	1334	2148	1369	2204	1225	1973	1266	2038	1157	1863	1197	1928	1077	1723	1077	1723
			F		8.4 -1.8R	9.1 -1.9R	11 -1.7R	11 -1.7R	11 -1.7R	11 -1.7R	11.4 -1.6R	11.4 -1.6R												
	20 ga	4"	$q_a$	$q_f$	1711	2755	1711	2755	1711	2755	1711	2755	1601	2562	1265	2024	1025	1640	847	1355	712	1139	712	1139
			F		6.2 -0.4R	6.3 -0.4R	6.6 -0.3R	6.6 -0.3R	6.6 -0.3R	6.6 -0.3R	6.6 -0.2R	6.6 -0.2R												
		6"	$q_a$	$q_f$	1711	2755	1711	2755	1711	2755	1711	2755	1601	2562	1265	2024	1025	1640	847	1355	712	1139	712	1139
			F		7.2 -0.8R	7.4 -0.7R	7.9 -0.5R	7.9 -0.5R	7.9 -0.5R	7.9 -0.5R	8 -0.5R	8 -0.5R	8.1 -0.4R											
		8"	$q_a$	$q_f$	1682	2709	1665	2681	1574	2535	1577	2539	1515	2439	1265	2024	1025	1640	847	1355	712	1139	712	1139
			F		8 -1.1R	8.4 -1R	9.2 -0.8R	9.2 -0.8R	9.2 -0.8R	9.2 -0.8R	9.3 -0.7R	9.4 -0.7R	9.4 -0.7R											
		12"	$q_a$	$q_f$	1429	2300	1345	2165	1286	2070	1241	1999	1207	1944	1180	1900	1025	1640	847	1355	712	1139	712	1139
			F		9.3 -1.6R	9.9 -1.6R	11.4 -1.4R	11.4 -1.4R	11.4 -1.4R	11.4 -1.4R	11.6 -1.4R	11.7 -1.3R	11.7 -1.3R											
		18"	$q_a$	$q_f$	1273	2300	1213	1952	1047	1685	1033	1663	1022	1645	924	1487	926	1491	847	1355	712	1139	712	1139
			F		10.6 -2.3R	11.5 -2.4R	14.1 -2.4R	14.1 -2.4R	14.1 -2.4R	14.1 -2.4R	14.4 -2.3R	14.7 -2.3R	14.7 -2.3R											
		24"	$q_a$	$q_f$	1096	1764	1067	1717	913	1470	918	1478	815	1313	830	1337	755	1215	773	1244	712	1139	712	1139
			F		11.5 -2.8R	12.7 -3R	16.3 -3.3R	16.3 -3.3R	16.3 -3.3R	16.3 -3.3R	16.7 -3.3R	17.2 -3.2R	17.2 -3.2R											
22 ga	4"	$q_a$	$q_f$	1496	2408	1496	2408	1496	2408	1496	2408	1218	1948	962	1539	779	1247	644	1031	541	866	541	866	
		F		7.9 -0.7R	8.1 -0.6R	8.5 -0.4R	8.5 -0.4R	8.5 -0.4R	8.5 -0.4R	8.6 -0.4R	8.6 -0.4R	8.6 -0.4R												
	6"	$q_a$	$q_f$	1496	2408	1451	2336	1413	2276	1385	2231	1218	1948	962	1539	779	1247	644	1031	541	866	541	866	
		F		9.1 -1.2R	9.5 -1.1R	10.1 -0.9R	10.1 -0.9R	10.3 -0.9R	10.3 -0.9R	10.4 -0.8R	10.5 -0.8R	10.6 -0.8R												
	8"	$q_a$	$q_f$	1341	2159	1313	2115	1228	1977	1223	1970	1166	1877	962	1539	779	1247	644	1031	541	866	541	866	
		F		10.1 -1.6R	10.6 -1.6R	11.8 -1.3R	11.8 -1.3R	12 -1.3R	12 -1.3R	12.2 -1.2R	12.3 -1.2R	12.3 -1.2R												
	12"	$q_a$	$q_f$	1138	1832	1056	1700	999	1608	956	1539	923	1486	897	1444	779	1247	644	1031	541	866	541	866	
		F		11.5 -2.3R	12.4 -2.4R	14.8 -2.2R	14.8 -2.2R	14.8 -2.2R	14.8 -2.2R	15.1 -2.2R	15.3 -2.1R	15.3 -2.1R												
	18"	$q_a$	$q_f$	1019	1832	956	1538	819																

# DGB-36 & DGBF-36 2.7

## Pneutek K64 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/4	16 ga	4"	$q_a$	$q_f$	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1482	2371		
			F	3.3 -0.1R	3.3 +0R																	
		6"	$q_a$	$q_f$	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1482	2371
			F	3.8 -0.1R	3.8 -0.1R	3.8 -0.1R	3.9 -0.1R															
		8"	$q_a$	$q_f$	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1482	2371
			F	4.3 -0.2R	4.4 -0.2R	4.4 -0.1R																
	12"	$q_a$	$q_f$	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1595	2568	1482	2371	
		F	5.3 -0.4R	5.4 -0.3R	5.5 -0.3R	5.5 -0.2R																
	18"	$q_a$	$q_f$	1595	2568	1595	2568	1548	2493	1573	2533	1591	2562	1506	2424	1529	2462	1548	2492	1482	2371	
		F	6.6 -0.7R	6.8 -0.6R	6.9 -0.5R	7 -0.5R	7.1 -0.5R	7.1 -0.4R	7.2 -0.4R													
	24"	$q_a$	$q_f$	1448	2331	1511	2432	1369	2204	1431	2305	1325	2133	1382	2225	1297	2088	1349	2171	1278	2058	
		F	7.8 -1R	8 -0.9R	8.3 -0.9R	8.4 -0.8R	8.5 -0.7R	8.6 -0.7R	8.7 -0.6R	8.8 -0.6R												
	18 ga	4"	$q_a$	$q_f$	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1281	2050	1077	1723
			F	4.4 -0.1R	4.4 -0.1R	4.4 -0.1R	4.5 -0.1R															
		6"	$q_a$	$q_f$	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1281	2050	1077	1723
			F	5.2 -0.2R	5.3 -0.2R	5.3 -0.2R	5.3 -0.1R	5.4 -0.1R														
		8"	$q_a$	$q_f$	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1281	2050	1077	1723
			F	6 -0.4R	6.1 -0.3R	6.1 -0.3R	6.2 -0.2R															
	12"	$q_a$	$q_f$	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1302	2096	1281	2050	1077	1723	
		F	7.4 -0.7R	7.6 -0.6R	7.7 -0.5R	7.8 -0.5R	7.9 -0.4R	7.9 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R
	18"	$q_a$	$q_f$	1254	2096	1253	2018	1139	1834	1157	1862	1170	1883	1093	1760	1111	1789	1126	1812	1068	1720	
		F	9.2 -1.2R	9.5 -1.1R	9.8 -1R	10 -1R	10.1 -0.9R	10.2 -0.8R	10.3 -0.8R	10.4 -0.7R	10.5 -0.7R											
	24"	$q_a$	$q_f$	1073	1727	1114	1793	992	1598	1038	1670	948	1527	991	1595	921	1482	959	1545	902	1452	
		F	10.7 -1.8R	11.2 -1.7R	11.6 -1.6R	11.9 -1.5R	12.2 -1.4R	12.4 -1.3R	12.5 -1.2R	12.7 -1.2R	12.8 -1.1R											
20 ga	4"	$q_a$	$q_f$	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	847	1355	712	1139	
		F	6.6 -0.3R	6.6 -0.2R	6.7 -0.2R																	
	6"	$q_a$	$q_f$	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	847	1355	712	1139	
		F	7.9 -0.5R	8 -0.5R	8.1 -0.4R	8.2 -0.4R	8.2 -0.3R	8.3 -0.3R														
	8"	$q_a$	$q_f$	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	959	1544	847	1355	712	1139	
		F	9.1 -0.8R	9.3 -0.7R	9.5 -0.7R	9.6 -0.6R	9.7 -0.5R															
12"	$q_a$	$q_f$	931	1498	908	1462	891	1435	879	1416	870	1400	862	1388	856	1378	847	1355	712	1139		
	F	11.2 -1.5R	11.6 -1.3R	11.9 -1.2R	12.1 -1.1R	12.3 -1.1R	12.5 -1R	12.6 -0.9R	12.7 -0.9R	12.8 -0.8R												
18"	$q_a$	$q_f$	835	1498	828	1333	739	1189	747	1203	754	1213	696	1120	707	1138	715	1152	673	1083		
	F	13.7 -2.4R	14.5 -2.3R	15.1 -2.2R	15.5 -2.1R	15.9 -2R	16.2 -1.9R	16.4 -1.8R	16.6 -1.7R	16.8 -1.6R												
24"	$q_a$	$q_f$	707	1139	726	1169	638	1026	663	1068	599	965	625	1006	576	927	599	965	559	900		
	F	15.7 -3.3R	16.9 -3.3R	17.7 -3.2R	18.4 -3.1R	18.9 -2.9R	19.4 -2.8R	19.8 -2.7R	20.1 -2.6R	20.4 -2.5R												
22 ga	4"	$q_a$	$q_f$	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	644	1031	541	866	
		F	8.5 -0.5R	8.6 -0.4R	8.7 -0.4R	8.7 -0.3R	8.8 -0.3R															
	6"	$q_a$	$q_f$	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	644	1031	541	866	
		F	10.3 -0.9R	10.5 -0.8R	10.7 -0.7R	10.8 -0.6R	10.9 -0.6R	10.9 -0.5R	11 -0.5R	11.1 -0.5R	11.1 -0.4R											
	8"	$q_a$	$q_f$	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	751	1208	644	1031	541	866	
		F	11.8 -1.3R	12.2 -1.2R	12.5 -1.1R	12.7 -1R	12.8 -0.9R	13 -0.9R	13.1 -0.8R	13.1 -0.8R	13.1 -0.7R											
12"	$q_a$	$q_f$	697	1123	677	1090	662	1066	651	1048	643	1035	636	1024	630	1015	626	1008	541	866		
	F	14.5 -2.3R	15.2 -2.1R	15.7 -2R	16.1 -1.9R	16.4 -1.8R	16.6 -1.7R	16.8 -1.6R	17 -1.5R	17.2 -1.4R												
18"	$q_a$	$q_f$	623	1123	614	989	544	876	549	883	552	889	507	817	515	829	521	838	488	786		
	F	17.5 -3.6R	18.7 -3.5R	19.6 -3.4R	20.4 -3.3R	21 -3.2R	21.4 -3R	21.8 -2.9R	22.2 -2.8R	22.5 -2.7R												
24"	$q_a$	$q_f$	527	848	537	865	469	755	486	782	437	704	455	732	417	672	434	699	404	650		
	F	19.8 -4.7R	21.5 -4.8R	22.8 -4.7R	23.9 -4.7R	24.8 -4.6R	25.5 -4.4R	26.2 -4.3R	26.7 -4.2R	27.2 -4R												

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Support Attachment: Pneutek K64 PAF

Side Seam Attachment: DeltaGrip

# 2.7 DGB-36 & DGBF-36

## Pneutek K64 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/7/4	16 ga	4"	$q_a$	$q_f$	3190	5136	3190	5136	3190	5136	3190	5136	3190	5136	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.3	-0.1R	3.3	+0R	3.3	+0R	3.3	+0R										
		6"	$q_a$	$q_f$	3190	5136	3189	5135	3177	5114	3167	5099	3160	5088	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.8	-0.2R	3.8	-0.2R	3.8	-0.2R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R	3.9	-0.1R
		8"	$q_a$	$q_f$	2967	4777	2998	4827	2915	4692	2946	4744	2886	4647	2634	4215	2134	3414	1763	2821	1482	2371
			F		4.3	-0.3R	4.4	-0.3R	4.4	-0.3R	4.4	-0.2R	4.4	-0.2R	4.4	-0.2R	4.5	-0.2R	4.5	-0.2R	4.5	-0.1R
	12"	$q_a$	$q_f$	2552	4108	2497	4021	2459	3960	2431	3915	2410	3880	2393	3853	2134	3414	1763	2821	1482	2371	
		F		5.3	-0.6R	5.4	-0.6R	5.4	-0.5R	5.5	-0.5R	5.5	-0.4R	5.6	-0.4R	5.6	-0.4R	5.6	-0.3R	5.6	-0.3R	
	18"	$q_a$	$q_f$	2238	4108	2240	3606	1979	3186	2020	3253	2051	3302	1884	3033	1924	3098	1763	2821	1482	2371	
		F		6.5	-1.2R	6.7	-1.1R	6.9	-1R	7	-0.9R	7.1	-0.8R	7.1	-0.8R	7.2	-0.7R	7.2	-0.7R	7.3	-0.6R	
	24"	$q_a$	$q_f$	1826	2940	1919	3090	1669	2687	1764	2840	1586	2553	1672	2692	1534	2470	1611	2594	1482	2371	
		F		7.6	-1.7R	7.9	-1.6R	8.2	-1.5R	8.3	-1.4R	8.5	-1.3R	8.6	-1.2R	8.7	-1.1R	8.7	-1.1R	8.8	-1R	
	18 ga	4"	$q_a$	$q_f$	2604	4192	2604	4192	2604	4192	2604	4192	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.4	-0.2R	4.4	-0.2R	4.4	-0.2R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R	4.5	-0.1R
		6"	$q_a$	$q_f$	2454	3951	2430	3913	2414	3887	2402	3867	2393	3852	1914	3062	1550	2481	1281	2050	1077	1723
			F		5.2	-0.4R	5.3	-0.4R	5.3	-0.3R	5.3	-0.3R	5.4	-0.2R	5.4	-0.2R	5.4	-0.2R	5.4	-0.2R	5.4	-0.2R
		8"	$q_a$	$q_f$	2223	3579	2244	3613	2161	3480	2187	3521	2128	3426	1914	3062	1550	2481	1281	2050	1077	1723
			F		6	-0.6R	6.1	-0.6R	6.1	-0.5R	6.2	-0.5R	6.2	-0.4R	6.2	-0.4R	6.3	-0.3R	6.3	-0.3R	6.3	-0.3R
	12"	$q_a$	$q_f$	1864	3002	1808	2910	1768	2847	1739	2800	1717	2764	1699	2736	1550	2481	1281	2050	1077	1723	
		F		7.3	-1.2R	7.5	-1.1R	7.7	-1R	7.8	-0.9R	7.8	-0.8R	7.9	-0.8R	7.9	-0.7R	8	-0.7R	8	-0.6R	
	18"	$q_a$	$q_f$	1617	3002	1604	2583	1398	2250	1420	2287	1437	2314	1308	2107	1334	2148	1281	2050	1077	1723	
		F		9	-2R	9.4	-1.9R	9.7	-1.8R	9.9	-1.6R	10.1	-1.5R	10.2	-1.5R	10.3	-1.4R	10.4	-1.3R	10.5	-1.2R	
	24"	$q_a$	$q_f$	1316	2119	1365	2198	1175	1891	1233	1985	1100	1772	1156	1861	1055	1698	1105	1779	1024	1648	
		F		10.4	-2.8R	11	-2.7R	11.5	-2.6R	11.8	-2.5R	12.1	-2.3R	12.3	-2.2R	12.4	-2.1R	12.6	-2R	12.7	-1.9R	
	20 ga	4"	$q_a$	$q_f$	1879	3025	1865	3003	1856	2988	1849	2977	1601	2562	1265	2024	1025	1640	847	1355	712	1139
			F		6.5	-0.5R	6.6	-0.4R	6.7	-0.4R	6.7	-0.3R	6.7	-0.3R	6.7	-0.3R	6.7	-0.2R	6.8	-0.2R	6.8	-0.2R
		6"	$q_a$	$q_f$	1651	2657	1624	2615	1606	2586	1593	2564	1583	2548	1265	2024	1025	1640	847	1355	712	1139
			F		7.8	-0.9R	8	-0.8R	8.1	-0.7R	8.2	-0.7R	8.2	-0.6R	8.3	-0.6R	8.3	-0.5R	8.3	-0.5R	8.3	-0.4R
		8"	$q_a$	$q_f$	1464	2357	1472	2371	1402	2257	1418	2282	1369	2204	1265	2024	1025	1640	847	1355	712	1139
			F		9	-1.4R	9.2	-1.3R	9.4	-1.2R	9.5	-1.1R	9.6	-1R	9.7	-0.9R	9.8	-0.8R	9.8	-0.8R	9.9	-0.7R
12"	$q_a$	$q_f$	1204	1938	1153	1857	1118	1800	1092	1759	1073	1727	1057	1702	1025	1640	847	1355	712	1139		
	F		11	-2.4R	11.5	-2.2R	11.8	-2.1R	12	-2R	12.2	-1.8R	12.4	-1.7R	12.5	-1.6R	12.6	-1.6R	12.7	-1.5R		
18"	$q_a$	$q_f$	1040	1938	1018	1638	876	1411	883	1422	889	1431	803	1293	816	1314	826	1330	712	1139		
	F		13.4	-3.7R	14.2	-3.6R	14.8	-3.5R	15.3	-3.4R	15.7	-3.3R	16	-3.1R	16.2	-3R	16.5	-2.9R	16.6	-2.8R		
24"	$q_a$	$q_f$	851	1370	866	1395	739	1190	767	1235	680	1095	709	1142	644	1038	672	1081	620	999		
	F		15.2	-4.8R	16.4	-4.9R	17.3	-4.9R	18	-4.8R	18.6	-4.7R	19.1	-4.6R	19.5	-4.5R	19.8	-4.3R	20.1	-4.2R		
22 ga	4"	$q_a$	$q_f$	1422	2290	1409	2269	1400	2254	1393	2243	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		8.4	-0.8R	8.6	-0.7R	8.7	-0.7R	8.7	-0.6R	8.8	-0.5R	8.8	-0.5R	8.8	-0.4R	8.9	-0.4R	8.9	-0.4R	
	6"	$q_a$	$q_f$	1232	1983	1208	1945	1191	1918	1179	1898	1170	1883	962	1539	779	1247	644	1031	541	866	
		F		10.2	-1.5R	10.4	-1.4R	10.6	-1.2R	10.7	-1.1R	10.8	-1.1R	10.9	-1R	11	-0.9R	11	-0.8R	11.1	-0.8R	
	8"	$q_a$	$q_f$	1084	1745	1087	1750	1029	1657	1040	1674	1000	1611	962	1539	779	1247	644	1031	541	866	
		F		11.7	-2.2R	12.1	-2.1R	12.4	-1.9R	12.6	-1.8R	12.8	-1.7R	12.9	-1.6R	13	-1.5R	13.1	-1.4R	13.2	-1.3R	
12"	$q_a$	$q_f$	886	1427	844	1359	814	1311	793	1277	776	1250	763	1229	753	1212	644	1031	541	866		
	F		14.1	-3.5R	14.9	-3.4R	15.4	-3.3R	15.9	-3.2R	16.2	-3R	16.5	-2.9R	16.7	-2.7R	16.9	-2.6R	17.1	-2.5R		
18"	$q_a$	$q_f$	766	1427	744	1198	638	1027	640	1031	642	1034	579	932	587	944	593	954	541	866		
	F		16.9	-5.2R	18.2	-5.3R	19.1	-5.3R	19.9	-5.2R	20.6	-5.1R	21.1	-5R	21.5	-4.8R	21.9	-4.7R	22.2	-4.5R		
24"	$q_a$	$q_f$	630	1014	635	1022	540	869	557	896	493	794	512	824	464	747	482	777	445	716		
	F		18.9	-6.6R	20.7	-6.9R	22.1	-7.1R	23.2	-7.1R	24.1	-7.1R	24.9	-7R	25.6	-6.9R	26.2	-6.7R	26.7	-6.6R		

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Support Attachment: Pneutek K64 PAF

Side Seam Attachment: DeltaGrip

# DGB-36 & DGBF-36 2.7

## Pneutek K64 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"			
			$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$	$q_a$   $q_f$		
36/9	16 ga	4"	$q_a$   $q_f$	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	2634   4215	2134   3414	1763   2821	1482   2371										
			F	3.2 -0.1R	3.3 -0.1R	3.3 +0R	3.3 +0R	3.3 +0R															
		6"	$q_a$   $q_f$	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	2634   4215	2134   3414	1763   2821	1482   2371								
			F	3.7 -0.2R	3.7 -0.2R	3.7 -0.2R	3.7 -0.2R	3.8 -0.1R															
		8"	$q_a$   $q_f$	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	3190   5136	2634   4215	2134   3414	1763   2821	1482   2371								
			F	4.1 -0.3R	4.2 -0.3R	4.2 -0.3R	4.2 -0.2R	4.3 -0.2R	4.4 -0.2R	4.4 -0.1R													
	12"	$q_a$   $q_f$	3127   5035	3009   4844	2924   4708	2861   4606	2812   4528	2634   4215	2134   3414	1763   2821	1482   2371												
		F	4.8 -0.5R	5 -0.5R	5.1 -0.5R	5.2 -0.4R	5.2 -0.4R	5.3 -0.4R	5.3 -0.3R	5.4 -0.3R	5.4 -0.3R												
	18"	$q_a$   $q_f$	2786   5035	2720   4379	2387   3843	2393   3853	2398   3860	2190   3526	2134   3414	1763   2821	1482   2371												
		F	5.7 -0.9R	6 -0.8R	6.2 -0.8R	6.4 -0.8R	6.5 -0.7R	6.6 -0.7R	6.7 -0.6R	6.8 -0.6R	6.8 -0.6R												
	24"	$q_a$   $q_f$	2366   3809	2379   3830	2062   3319	2117   3409	1897   3054	1961   3157	1794   2888	1763   2821	1482   2371												
		F	6.4 -1.2R	6.8 -1.2R	7.1 -1.2R	7.4 -1.1R	7.6 -1.1R	7.8 -1R	7.9 -1R	8 -1R	8.1 -0.9R												
	18 ga	4"	$q_a$   $q_f$	2604   4192	2604   4192	2604   4192	2604   4192	2422   3876	1914   3062	1550   2481	1281   2050	1077   1723											
			F	4.3 -0.2R	4.3 -0.2R	4.3 -0.1R	4.4 -0.1R																
		6"	$q_a$   $q_f$	2604   4192	2604   4192	2604   4192	2604   4192	2422   3876	1914   3062	1550   2481	1281   2050	1077   1723											
			F	4.9 -0.4R	5 -0.3R	5.1 -0.3R	5.2 -0.3R	5.2 -0.2R	5.2 -0.2R	5.3 -0.2R	5.3 -0.2R	5.3 -0.2R											
		8"	$q_a$   $q_f$	2604   4192	2604   4192	2572   4140	2583   4158	2422   3876	1914   3062	1550   2481	1281   2050	1077   1723											
			F	5.5 -0.5R	5.7 -0.5R	5.8 -0.5R	5.9 -0.4R	5.9 -0.4R	6 -0.4R	6 -0.3R	6.1 -0.3R	6.1 -0.3R											
	12"	$q_a$   $q_f$	2314   3726	2198   3538	2115   3405	2053   3306	2005   3229	1914   3062	1550   2481	1281   2050	1077   1723												
		F	6.5 -0.9R	6.8 -0.9R	7 -0.8R	7.1 -0.8R	7.3 -0.7R	7.4 -0.7R	7.5 -0.7R	7.5 -0.6R	7.6 -0.6R												
	18"	$q_a$   $q_f$	2058   3726	1981   3189	1719   2768	1708   2749	1699   2735	1541   2481	1550   2481	1281   2050	1077   1723												
		F	7.6 -1.4R	8.1 -1.4R	8.4 -1.4R	8.7 -1.3R	9 -1.3R	9.2 -1.2R	9.4 -1.2R	9.5 -1.1R	9.6 -1.1R												
	24"	$q_a$   $q_f$	1760   2834	1736   2795	1492   2403	1513   2436	1348   2170	1381   2224	1258   2026	1281   2050	1077   1723												
		F	8.4 -1.8R	9.1 -1.9R	9.6 -1.9R	10 -1.8R	10.4 -1.8R	10.7 -1.8R	11 -1.7R	11.2 -1.7R	11.4 -1.6R												
20 ga	4"	$q_a$   $q_f$	1918   3088	1918   3088	1918   3088	1918   3088	1601   2562	1265   2024	1025   1640	847   1355	712   1139												
		F	6.2 -0.4R	6.3 -0.4R	6.4 -0.4R	6.5 -0.3R	6.5 -0.3R	6.6 -0.3R	6.6 -0.3R	6.6 -0.2R	6.6 -0.2R												
	6"	$q_a$   $q_f$	1918   3088	1918   3088	1912   3078	1880   3026	1601   2562	1265   2024	1025   1640	847   1355	712   1139												
		F	7.2 -0.8R	7.4 -0.7R	7.6 -0.7R	7.7 -0.6R	7.8 -0.6R	7.9 -0.5R	8 -0.5R	8 -0.5R	8.1 -0.4R												
	8"	$q_a$   $q_f$	1803   2902	1776   2859	1670   2688	1668   2686	1596   2562	1265   2024	1025   1640	847   1355	712   1139												
		F	8 -1.1R	8.4 -1R	8.6 -1R	8.8 -0.9R	9 -0.9R	9.1 -0.8R	9.2 -0.8R	9.3 -0.7R	9.4 -0.7R												
12"	$q_a$   $q_f$	1529   2462	1429   2301	1359   2188	1307   2104	1267   2039	1235   1988	1025   1640	847   1355	712   1139													
	F	9.3 -1.6R	9.9 -1.6R	10.3 -1.6R	10.7 -1.6R	10.9 -1.5R	11.2 -1.5R	11.4 -1.4R	11.6 -1.4R	11.7 -1.3R													
18"	$q_a$   $q_f$	1365   2462	1291   2078	1110   1787	1089   1753	1073   1728	968   1559	967   1557	847   1355	712   1139													
	F	10.6 -2.3R	11.5 -2.4R	12.2 -2.5R	12.8 -2.5R	13.3 -2.5R	13.7 -2.4R	14.1 -2.4R	14.4 -2.3R	14.7 -2.3R													
24"	$q_a$   $q_f$	1182   1904	1139   1834	973   1567	971   1563	860   1385	872   1404	785   1264	806   1298	712   1139													
	F	11.5 -2.8R	12.7 -3R	13.6 -3.2R	14.4 -3.3R	15.1 -3.3R	15.7 -3.3R	16.3 -3.3R	16.7 -3.3R	17.2 -3.2R													
22 ga	4"	$q_a$   $q_f$	1501   2417	1501   2417	1501   2417	1501   2417	1218   1948	962   1539	779   1247	644   1031	541   866												
		F	7.9 -0.7R	8.1 -0.6R	8.2 -0.6R	8.3 -0.5R	8.4 -0.5R	8.5 -0.5R	8.5 -0.4R	8.6 -0.4R	8.6 -0.4R												
	6"	$q_a$   $q_f$	1501   2417	1454   2341	1416   2280	1388   2235	1218   1948	962   1539	779   1247	644   1031	541   866												
		F	9.1 -1.2R	9.5 -1.1R	9.7 -1.1R	10 -1R	10.1 -0.9R	10.3 -0.9R	10.4 -0.8R	10.5 -0.8R	10.6 -0.8R												
	8"	$q_a$   $q_f$	1344   2164	1316   2119	1230   1981	1225   1973	1168   1880	962   1539	779   1247	644   1031	541   866												
		F	10.1 -1.6R	10.6 -1.6R	11 -1.5R	11.3 -1.5R	11.6 -1.4R	11.8 -1.3R	12 -1.3R	12.2 -1.2R	12.3 -1.2R												
12"	$q_a$   $q_f$	1140   1836	1058   1704	1000   1610	957   1541	924   1488	898   1446	779   1247	644   1031	541   866													
	F	11.5 -2.3R	12.4 -2.4R	13 -2.4R	13.6 -2.4R	14.1 -2.3R	14.5 -2.3R	14.8 -2.2R	15.1 -2.2R	15.3 -2.1R													
18"	$q_a$   $q_f$	1021   1836	957   1542	821   1322	800   1289	785   1264	707   1138	703   1132	644   1031	541   866													
	F	12.9 -3.1R	14.2 -3.3R	15.2 -3.4R	16.1 -3.5R	16.8 -3.6R	17.5 -3.6R	18.1 -3.6R	18.6 -3.5R	19 -3.5R													
24"	$q_a$   $q_f$	891   1434	849   1367	724   1165	716   1153	625   1006	633   1019	569   917	582   937	533   859													
	F	13.9 -3.6R	15.4 -4R	16.7 -4.3R	17.9 -4.5R	18.9 -4.6R	19.8 -4.7R	20.6 -4.7R	21.3 -4.8R	22 -4.8R													

# 2.7 DGB-36 & DGBF-36

## Pneutek K66 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"				
36/4	16 ga	4"	$q_a$	$q_f$	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1763	2821	1482	2371		
			F		3.3 -0.1R	3.3 +0R																		
		6"	$q_a$	$q_f$	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1763	2821	1482	2371
			F		3.8 -0.1R	3.8 -0.1R	3.8 -0.1R	3.9 +0R	3.9 +0R	3.9 +0R	3.9 +0R													
		8"	$q_a$	$q_f$	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1763	2821	1482	2371
			F		4.3 -0.2R	4.4 -0.2R	4.4 -0.1R	4.5 -0.1R	4.5 -0.1R	4.5 -0.1R	4.5 -0.1R													
	12"	$q_a$	$q_f$	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1772	2853	1763	2821	1482	2371	
		F		5.3 -0.4R	5.4 -0.3R	5.5 -0.3R	5.5 -0.2R	5.6 -0.2R	5.6 -0.2R	5.6 -0.2R	5.6 -0.2R													
	18"	$q_a$	$q_f$	1772	2853	1772	2853	1648	2653	1675	2696	1694	2727	1594	2567	1620	2608	1641	2641	1482	2371	1482	2371	
		F		6.6 -0.7R	6.8 -0.6R	6.9 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	7 -0.5R	
	24"	$q_a$	$q_f$	1544	2486	1609	2590	1447	2329	1514	2437	1393	2243	1455	2342	1359	2189	1415	2278	1336	2151	1336	2151	
		F		7.8 -1R	8 -0.9R	8.3 -0.9R	8.4 -0.8R																	
	18 ga	4"	$q_a$	$q_f$	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1281	2050	1077	1723
			F		4.4 -0.1R	4.4 -0.1R	4.4 -0.1R	4.5 +0R	4.5 +0R	4.5 +0R	4.5 +0R													
		6"	$q_a$	$q_f$	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1281	2050	1077	1723
			F		5.2 -0.2R	5.3 -0.2R	5.3 -0.2R	5.3 -0.1R	5.3 -0.1R															
		8"	$q_a$	$q_f$	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1362	2192	1281	2050	1077	1723
			F		6 -0.4R	6.1 -0.3R	6.1 -0.3R	6.2 -0.2R	6.3 -0.2R	6.3 -0.2R	6.3 -0.2R	6.3 -0.2R												
	12"	$q_a$	$q_f$	1362	2192	1362	2192	1362	2192	1362	2192	1357	2185	1349	2172	1343	2162	1281	2050	1077	1723	1077	1723	
		F		7.4 -0.7R	7.6 -0.6R	7.7 -0.5R	7.8 -0.5R	7.9 -0.4R	7.9 -0.4R	7.9 -0.4R	7.9 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.4R	8 -0.3R					
	18"	$q_a$	$q_f$	1291	2192	1288	2074	1167	1879	1185	1907	1198	1928	1117	1798	1135	1828	1150	1852	1077	1723	1077	1723	
		F		9.2 -1.2R	9.5 -1.1R	9.8 -1R	10 -1R	10 -1R	10 -1R	10 -1R	10 -1R	10.1 -0.9R	10.2 -0.8R	10.2 -0.8R	10.2 -0.8R	10.3 -0.8R	10.3 -0.8R	10.3 -0.8R	10.3 -0.8R	10.4 -0.7R	10.4 -0.7R	10.5 -0.7R	10.5 -0.7R	
	24"	$q_a$	$q_f$	1101	1773	1142	1838	1015	1634	1060	1707	967	1557	1010	1627	937	1509	977	1573	917	1476	917	1476	
		F		10.7 -1.8R	11.2 -1.7R	11.6 -1.6R	11.9 -1.5R	12.2 -1.4R	12.4 -1.3R	12.4 -1.3R	12.4 -1.3R	12.5 -1.2R	12.5 -1.2R	12.5 -1.2R	12.5 -1.2R	12.7 -1.2R	12.7 -1.2R	12.8 -1.1R	12.8 -1.1R					
20 ga	4"	$q_a$	$q_f$	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	847	1355	712	1139	
		F		6.6 -0.3R	6.6 -0.2R	6.7 -0.2R	6.8 -0.1R	6.8 -0.1R	6.8 -0.1R	6.8 -0.1R														
	6"	$q_a$	$q_f$	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	847	1355	712	1139	
		F		7.9 -0.5R	8 -0.5R	8.1 -0.4R	8.2 -0.3R	8.2 -0.3R	8.2 -0.3R	8.2 -0.3R	8.3 -0.3R	8.4 -0.2R	8.4 -0.2R											
	8"	$q_a$	$q_f$	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	982	1581	847	1355	712	1139	
		F		9.1 -0.8R	9.3 -0.7R	9.5 -0.7R	9.6 -0.6R	9.7 -0.5R	9.7 -0.5R	9.7 -0.5R	9.7 -0.5R	9.8 -0.4R	9.8 -0.4R	9.9 -0.4R	9.9 -0.4R									
12"	$q_a$	$q_f$	945	1521	921	1483	904	1455	891	1434	881	1418	873	1405	866	1395	847	1355	712	1139	712	1139		
	F		11.2 -1.5R	11.6 -1.3R	11.9 -1.2R	12.1 -1.1R	12.3 -1.1R	12.3 -1.1R	12.3 -1.1R	12.3 -1.1R	12.5 -1R	12.5 -1R	12.5 -1R	12.5 -1R	12.6 -0.9R	12.7 -0.9R	12.8 -0.8R	12.8 -0.8R						
18"	$q_a$	$q_f$	847	1521	839	1350	747	1203	756	1217	762	1226	703	1131	713	1149	722	1163	679	1093	679	1093		
	F		13.7 -2.4R	14.5 -2.3R	15.1 -2.2R	15.5 -2.1R	15.9 -2R	15.9 -2R	16.2 -1.9R	16.2 -1.9R	16.4 -1.8R	16.4 -1.8R	16.4 -1.8R	16.4 -1.8R	16.6 -1.7R	16.6 -1.7R	16.8 -1.6R	16.8 -1.6R						
24"	$q_a$	$q_f$	717	1155	735	1184	645	1038	670	1079	605	975	631	1015	581	935	604	973	564	907	564	907		
	F		15.7 -3.3R	16.9 -3.3R	17.7 -3.2R	18.4 -3.1R	18.9 -2.9R	19.4 -2.8R	19.4 -2.8R	19.4 -2.8R	19.8 -2.7R	19.8 -2.7R	19.8 -2.7R	19.8 -2.7R	20.1 -2.6R	20.1 -2.6R	20.4 -2.5R	20.4 -2.5R						
22 ga	4"	$q_a$	$q_f$	801	1289	801	1289	801	1289	801	1289	801	1289	801	1289	779	1247	644	1031	541	866	541	866	
		F		8.5 -0.5R	8.6 -0.4R	8.7 -0.4R	8.7 -0.3R	8.8 -0.2R	8.8 -0.2R	8.8 -0.2R	8.8 -0.2R	8.9 -0.2R	8.9 -0.2R	8.9 -0.2R	8.9 -0.2R									
	6"	$q_a$	$q_f$	801	1289	801	1289	801	1289	801	1289	801	1289	801	1289	779	1247	644	1031	541	866	541	866	
		F		10.3 -0.9R	10.5 -0.8R	10.7 -0.7R	10.8 -0.6R	10.9 -0.6R	10.9 -0.6R	10.9 -0.6R	10.9 -0.6R	11 -0.5R	11 -0.5R	11 -0.5R	11 -0.5R	11.1 -0.5R	11.1 -0.5R	11.1 -0.4R	11.1 -0.4R					
	8"	$q_a$	$q_f$	801	1289	801	1289	801	1289	801	1289	797	1284	801	1289	779	1247	644	1031	541	866	541	866	
		F		11.8 -1.3R	12.2 -1.2R	12.5 -1.1R	12.7 -1R	12.8 -0.9R	12.8 -0.9R	12.8 -0.9R	12.8 -0.9R	13 -0.9R	13 -0.9R	13.1 -0.8R	13.1 -0.8R	13.1 -0.8R	13.1 -0.8R	13.2 -0.7R	13.2 -0.7R					
12"	$q_a$	$q_f$	726	1168	702	1131	686	1104	673	1084	664	1068	656	1056	650	1046	644	1031	541	866	541	866		
	F		14.5 -2.3R	15.2 -2.1R	15.7 -2R	16.1 -1.9R	16.4 -1.8R	16.4 -1.8R	16.6 -1.7R	16.6 -1.7R	16.8 -1.6R	16.8 -1.6R	16.8 -1.6R	16.8 -1.6R	17 -1.5R	17 -1.5R	17.2 -1.4R	17.2 -1.4R						
18"	$q_a$	$q_f$	647	1168	636	1024	561	904	565	910	568	915	521	838	528	850	534	859	499	804	499	804		
	F		17.5 -3.6R	18.7 -3.5R	19.6 -3.4R	20.4 -3.3R	21 -3.2R	21 -3.2R	21.4 -3R	21.4 -3R	21.8 -2.9R	21.8 -2.9R	22.2 -2.8R	22.2 -2.8R	22.5 -2.7R	22.5 -2.7R	22.5 -2.7R	22.5 -2.7R						
24"	$q_a$	$q_f$	547	881	556	895	483	778	500	805	449	723	466	750	427	688	444	715	413	664	413	664		
	F		19.8 -4.7R	21.5 -4.8R	22.8 -4.7R	23.9 -4.7R	24.8 -4.6R	24.8 -4.6R	25.5 -4.4R	25.5 -4.4R	26.2 -4.3R	26.2 -4.3R	26.7 -4.2R	26.7 -4.2R	27.2 -4R	27.2 -4R	27.2 -4R	27.2 -4R						

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# DGB-36 & DGBF-36 2.7

## Pneutek K66 Fasteners to Supports with DeltaGrip® Side Seam Attachment

Diaphragm Shear in pounds per linear foot (plf)



**PNEUTEK**



B PANELS

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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"		
36/7/4	16 ga	4"	$q_a$	$q_f$	3544	5706	3544	5706	3544	5706	3544	5706	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.3 -0.1R	3.3 +0R																
		6"	$q_a$	$q_f$	3473	5592	3448	5552	3431	5524	3418	5503	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F		3.8 -0.2R	3.8 -0.2R	3.8 -0.2R	3.8 -0.2R	3.9 -0.1R													
		8"	$q_a$	$q_f$	3184	5126	3217	5179	3115	5015	3151	5073	3078	4956	2634	4215	2134	3414	1763	2821	1482	2371
			F		4.3 -0.3R	4.4 -0.2R	4.5 -0.1R	4.5 -0.1R														
	12"	$q_a$	$q_f$	2707	4358	2639	4249	2592	4174	2558	4118	2531	4075	2510	4041	2134	3414	1763	2821	1482	2371	
		F		5.3 -0.6R	5.4 -0.6R	5.4 -0.6R	5.4 -0.5R	5.5 -0.5R	5.5 -0.5R	5.5 -0.4R	5.6 -0.4R	5.6 -0.4R	5.6 -0.4R	5.6 -0.3R	5.6 -0.3R	5.6 -0.3R	5.6 -0.3R					
	18"	$q_a$	$q_f$	2361	4358	2355	3791	2068	3329	2107	3393	2137	3440	1955	3147	1995	3213	1763	2821	1482	2371	
		F		6.5 -1.2R	6.7 -1.1R	6.9 -1R	7 -0.9R	7.1 -0.8R	7.2 -0.7R	7.2 -0.7R	7.2 -0.7R	7.2 -0.7R	7.3 -0.6R	7.3 -0.6R	7.3 -0.6R							
	24"	$q_a$	$q_f$	1922	3095	2011	3237	1740	2801	1834	2953	1643	2645	1730	2786	1584	2550	1662	2676	1482	2371	
		F		7.6 -1.7R	7.9 -1.6R	8.2 -1.5R	8.3 -1.4R	8.5 -1.3R	8.6 -1.2R	8.6 -1.2R	8.6 -1.2R	8.6 -1.2R	8.7 -1.1R	8.7 -1.1R	8.8 -1R							
	18 ga	4"	$q_a$	$q_f$	2723	4384	2723	4384	2723	4384	2723	4384	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F		4.4 -0.2R	4.4 -0.2R	4.4 -0.2R	4.4 -0.2R	4.5 -0.1R													
		6"	$q_a$	$q_f$	2531	4075	2505	4033	2486	4003	2473	3981	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F		5.2 -0.4R	5.3 -0.4R	5.3 -0.4R	5.3 -0.3R	5.3 -0.3R	5.3 -0.3R	5.4 -0.2R											
		8"	$q_a$	$q_f$	2285	3678	2305	3712	2216	3568	2242	3610	2179	3509	1914	3062	1550	2481	1281	2050	1077	1723
			F		6 -0.6R	6.1 -0.6R	6.1 -0.5R	6.2 -0.5R	6.2 -0.4R	6.3 -0.3R												
	12"	$q_a$	$q_f$	1908	3072	1847	2973	1804	2905	1773	2854	1748	2815	1729	2784	1550	2481	1281	2050	1077	1723	
		F		7.3 -1.2R	7.5 -1.1R	7.7 -1R	7.8 -0.9R	7.8 -0.8R	7.9 -0.7R	7.9 -0.7R	7.9 -0.7R	7.9 -0.7R	8 -0.7R	8 -0.6R	8 -0.6R							
	18"	$q_a$	$q_f$	1653	3072	1637	2635	1423	2291	1444	2325	1460	2350	1327	2137	1353	2178	1281	2050	1077	1723	
		F		9 -2R	9.4 -1.9R	9.7 -1.8R	9.9 -1.6R	10.1 -1.5R	10.2 -1.5R	10.2 -1.5R	10.2 -1.5R	10.2 -1.5R	10.3 -1.4R	10.4 -1.3R	10.5 -1.2R							
	24"	$q_a$	$q_f$	1346	2167	1392	2242	1196	1925	1253	2018	1117	1799	1172	1887	1069	1721	1119	1801	1036	1668	
		F		10.4 -2.8R	11 -2.7R	11.5 -2.6R	11.8 -2.5R	12.1 -2.3R	12.2 -2.2R													
20 ga	4"	$q_a$	$q_f$	1912	3078	1897	3055	1887	3039	1880	3027	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		6.5 -0.5R	6.6 -0.4R	6.7 -0.4R	6.7 -0.3R	6.7 -0.2R	6.7 -0.2R	6.7 -0.2R	6.7 -0.2R	6.8 -0.2R	6.8 -0.2R									
	6"	$q_a$	$q_f$	1675	2696	1647	2652	1628	2621	1614	2598	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F		7.8 -0.9R	8 -0.8R	8.1 -0.7R	8.2 -0.7R	8.2 -0.6R	8.3 -0.6R	8.3 -0.5R	8.3 -0.5R	8.3 -0.5R	8.3 -0.4R	8.3 -0.4R	8.3 -0.4R							
	8"	$q_a$	$q_f$	1483	2388	1491	2400	1418	2283	1434	2308	1383	2227	1265	2024	1025	1640	847	1355	712	1139	
		F		9 -1.4R	9.2 -1.3R	9.4 -1.2R	9.5 -1.1R	9.6 -1R	9.7 -0.9R	9.8 -0.8R	9.8 -0.8R	9.8 -0.8R	9.8 -0.7R	9.9 -0.7R	9.9 -0.7R							
12"	$q_a$	$q_f$	1218	1961	1165	1876	1129	1818	1102	1775	1082	1742	1066	1716	1025	1640	847	1355	712	1139		
	F		11 -2.4R	11.5 -2.2R	11.8 -2.1R	12 -2R	12.2 -1.8R	12.4 -1.7R	12.5 -1.6R													
18"	$q_a$	$q_f$	1052	1961	1028	1655	884	1424	891	1434	896	1442	809	1303	822	1323	832	1339	712	1139		
	F		13.4 -3.7R	14.2 -3.6R	14.8 -3.5R	15.3 -3.4R	15.7 -3.3R	16 -3.1R	16.2 -3R	16.2 -3R	16.2 -3R	16.5 -2.9R	16.6 -2.8R	16.6 -2.8R								
24"	$q_a$	$q_f$	862	1387	875	1409	746	1202	774	1245	686	1105	715	1150	649	1045	676	1089	624	1005		
	F		15.2 -4.8R	16.4 -4.9R	17.3 -4.9R	18 -4.8R	18.6 -4.7R	19.1 -4.6R	19.5 -4.5R	19.5 -4.5R	19.5 -4.5R	19.8 -4.3R	20.1 -4.2R	20.1 -4.2R								
22 ga	4"	$q_a$	$q_f$	1487	2395	1472	2369	1461	2352	1453	2339	1218	1948	962	1539	779	1247	644	1031	541	866	
		F		8.4 -0.8R	8.6 -0.7R	8.7 -0.7R	8.7 -0.6R	8.8 -0.5R	8.8 -0.5R	8.8 -0.4R	8.8 -0.4R	8.8 -0.4R	8.8 -0.4R									
	6"	$q_a$	$q_f$	1279	2059	1251	2014	1232	1984	1218	1961	1207	1943	962	1539	779	1247	644	1031	541	866	
		F		10.2 -1.5R	10.4 -1.4R	10.6 -1.2R	10.7 -1.1R	10.9 -1R	11 -0.9R	11 -0.9R	11 -0.8R	11.1 -0.8R	11.1 -0.8R	11.1 -0.8R								
	8"	$q_a$	$q_f$	1121	1805	1122	1806	1060	1706	1069	1722	1027	1653	962	1539	779	1247	644	1031	541	866	
		F		11.7 -2.2R	12.1 -2.1R	12.4 -1.9R	12.6 -1.8R	12.8 -1.7R	12.9 -1.6R	13.1 -1.5R	13.1 -1.5R	13.1 -1.4R	13.1 -1.4R	13.2 -1.3R	13.2 -1.3R							
12"	$q_a$	$q_f$	915	1473	868	1397	836	1345	812	1307	794	1278	780	1255	768	1237	644	1031	541	866		
	F		14.1 -3.5R	14.9 -3.4R	15.4 -3.3R	15.9 -3.2R	16.2 -3R	16.5 -2.9R	16.7 -2.7R	16.7 -2.7R	16.7 -2.7R	16.9 -2.6R	17.1 -2.5R	17.1 -2.5R								
18"	$q_a$	$q_f$	791	1473	765	1232	655	1054	656	1055	656	1056	591	951	598	963	604	972	541	866		
	F		16.9 -5.2R	18.2 -5.3R	19.1 -5.3R	19.9 -5.2R	20.6 -5.1R	21.1 -5R	21.5 -4.8R	21.5 -4.8R	21.5 -4.8R	21.9 -4.7R	22.2 -4.5R	22.2 -4.5R								
24"	$q_a$	$q_f$	653	1051	654	1053	555	894	571	919	505	813	523	842	474	763	492	792	453	730		
	F		18.9 -6.6R	20.7 -6.9R	22.1 -7.1R	23.2 -7.1R	24.1 -7.1R	24.9 -7R	25.6 -6.9R	25.6 -6.9R	25.6 -6.9R	26.2 -6.7R	26.7 -6.6R	26.7 -6.6R								

# 2.7 DGB-36 & DGBF-36

## Pneutek K66 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"		5' - 0"		6' - 0"		7' - 0"		8' - 0"		9' - 0"		10' - 0"		11' - 0"		12' - 0"	
36/9	16 ga	4"	$q_a$ $q_f$	3544	5706	3544	5706	3544	5706	3544	5706	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F	3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.2 -0.1R		3.3 -0.1R		3.3 +0R		3.3 +0R		3.3 +0R	
		6"	$q_a$ $q_f$	3544	5706	3544	5706	3544	5706	3544	5706	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F	3.7 -0.2R		3.7 -0.2R		3.7 -0.2R		3.8 -0.1R		3.8 -0.1R									
		8"	$q_a$ $q_f$	3544	5706	3544	5706	3544	5706	3544	5706	3334	5334	2634	4215	2134	3414	1763	2821	1482	2371
			F	4.1 -0.3R		4.2 -0.3R		4.2 -0.2R		4.3 -0.2R		4.3 -0.2R		4.3 -0.2R		4.3 -0.2R		4.4 -0.2R		4.4 -0.1R	
	12"	$q_a$ $q_f$	3333	5365	3189	5134	3087	4970	3010	4847	2951	4752	2634	4215	2134	3414	1763	2821	1482	2371	
		F	4.8 -0.5R		5 -0.5R		5.1 -0.5R		5.2 -0.4R		5.2 -0.4R		5.3 -0.4R		5.3 -0.3R		5.4 -0.3R		5.4 -0.3R		
	18"	$q_a$ $q_f$	2965	5365	2877	4632	2513	4046	2510	4041	2507	4037	2283	3675	2134	3414	1763	2821	1482	2371	
		F	5.7 -0.9R		6 -0.8R		6.2 -0.8R		6.4 -0.8R		6.5 -0.7R		6.6 -0.7R		6.7 -0.6R		6.8 -0.6R		6.8 -0.6R		
	24"	$q_a$ $q_f$	2524	4063	2517	4053	2173	3499	2221	3575	1984	3194	2044	3291	1866	3004	1763	2821	1482	2371	
		F	6.4 -1.2R		6.8 -1.2R		7.1 -1.2R		7.4 -1.1R		7.6 -1.1R		7.8 -1R		7.9 -1R		8 -1R		8.1 -0.9R		
	18 ga	4"	$q_a$ $q_f$	2723	4384	2723	4384	2723	4384	2723	4384	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F	4.3 -0.2R		4.3 -0.2R		4.3 -0.1R		4.4 -0.1R											
		6"	$q_a$ $q_f$	2723	4384	2723	4384	2723	4384	2723	4384	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F	4.9 -0.4R		5 -0.3R		5.1 -0.3R		5.2 -0.3R		5.2 -0.2R		5.2 -0.2R		5.3 -0.2R		5.3 -0.2R		5.3 -0.2R	
		8"	$q_a$ $q_f$	2723	4384	2723	4384	2635	4243	2645	4258	2422	3876	1914	3062	1550	2481	1281	2050	1077	1723
			F	5.5 -0.5R		5.7 -0.5R		5.8 -0.5R		5.9 -0.4R		5.9 -0.4R		6 -0.4R		6 -0.3R		6.1 -0.3R		6.1 -0.3R	
	12"	$q_a$ $q_f$	2376	3826	2251	3624	2162	3481	2096	3374	2044	3292	1914	3062	1550	2481	1281	2050	1077	1723	
		F	6.5 -0.9R		6.8 -0.9R		7 -0.8R		7.1 -0.8R		7.3 -0.7R		7.4 -0.7R		7.5 -0.7R		7.5 -0.6R		7.6 -0.6R		
	18"	$q_a$ $q_f$	2114	3826	2029	3266	1758	2830	1743	2806	1731	2787	1569	2525	1550	2481	1281	2050	1077	1723	
		F	7.6 -1.4R		8.1 -1.4R		8.4 -1.4R		8.7 -1.3R		9 -1.3R		9.2 -1.2R		9.4 -1.2R		9.5 -1.1R		9.6 -1.1R		
	24"	$q_a$ $q_f$	1811	2916	1779	2865	1528	2460	1545	2488	1375	2214	1407	2265	1281	2062	1281	2050	1077	1723	
		F	8.4 -1.8R		9.1 -1.9R		9.6 -1.9R		10 -1.8R		10.4 -1.8R		10.7 -1.8R		11 -1.7R		11.2 -1.7R		11.4 -1.6R		
20 ga	4"	$q_a$ $q_f$	1964	3161	1964	3161	1964	3161	1964	3161	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F	6.2 -0.4R		6.3 -0.4R		6.4 -0.4R		6.5 -0.3R		6.5 -0.3R		6.6 -0.3R		6.6 -0.3R		6.6 -0.2R		6.6 -0.2R		
	6"	$q_a$ $q_f$	1964	3161	1964	3161	1937	3118	1903	3064	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F	7.2 -0.8R		7.4 -0.7R		7.6 -0.7R		7.7 -0.6R		7.8 -0.6R		7.9 -0.5R		8 -0.5R		8 -0.5R		8.1 -0.4R		
	8"	$q_a$ $q_f$	1828	2943	1799	2896	1690	2720	1687	2716	1601	2562	1265	2024	1025	1640	847	1355	712	1139	
		F	8 -1.1R		8.4 -1R		8.6 -1R		8.8 -0.9R		9 -0.9R		9.1 -0.8R		9.2 -0.8R		9.3 -0.7R		9.4 -0.7R		
12"	$q_a$ $q_f$	1551	2496	1448	2331	1375	2213	1321	2126	1279	2059	1246	2006	1025	1640	847	1355	712	1139		
	F	9.3 -1.6R		9.9 -1.6R		10.3 -1.6R		10.7 -1.6R		10.9 -1.5R		11.2 -1.5R		11.4 -1.4R		11.6 -1.4R		11.7 -1.3R			
18"	$q_a$ $q_f$	1385	2496	1307	2105	1124	1809	1101	1773	1084	1745	978	1574	976	1571	847	1355	712	1139		
	F	10.6 -2.3R		11.5 -2.4R		12.2 -2.5R		12.8 -2.5R		13.3 -2.5R		13.7 -2.4R		14.1 -2.4R		14.4 -2.3R		14.7 -2.3R			
24"	$q_a$ $q_f$	1201	1934	1155	1860	986	1588	982	1582	869	1399	880	1417	792	1275	812	1308	712	1139		
	F	11.5 -2.8R		12.7 -3R		13.6 -3.2R		14.4 -3.3R		15.1 -3.3R		15.7 -3.3R		16.3 -3.3R		16.7 -3.3R		17.2 -3.2R			
22 ga	4"	$q_a$ $q_f$	1601	2578	1601	2578	1601	2578	1590	2545	1218	1948	962	1539	779	1247	644	1031	541	866	
		F	7.9 -0.7R		8.1 -0.6R		8.2 -0.6R		8.3 -0.5R		8.4 -0.5R		8.5 -0.5R		8.5 -0.4R		8.6 -0.4R		8.6 -0.4R		
	6"	$q_a$ $q_f$	1567	2523	1508	2427	1465	2359	1433	2307	1218	1948	962	1539	779	1247	644	1031	541	866	
		F	9.1 -1.2R		9.5 -1.1R		9.7 -1.1R		10 -1R		10.1 -0.9R		10.3 -0.9R		10.4 -0.8R		10.5 -0.8R		10.6 -0.8R		
	8"	$q_a$ $q_f$	1396	2248	1363	2194	1270	2045	1262	2032	1201	1933	962	1539	779	1247	644	1031	541	866	
		F	10.1 -1.6R		10.6 -1.6R		11 -1.5R		11.3 -1.5R		11.6 -1.4R		11.8 -1.3R		12 -1.3R		12.2 -1.2R		12.3 -1.2R		
12"	$q_a$ $q_f$	1186	1909	1096	1764	1033	1663	986	1587	950	1529	921	1483	779	1247	644	1031	541	866		
	F	11.5 -2.3R		12.4 -2.4R		13 -2.4R		13.6 -2.4R		14.1 -2.3R		14.5 -2.3R		14.8 -2.2R		15.1 -2.2R		15.3 -2.1R			
18"	$q_a$ $q_f$	1064	1909	993	1599	850	1369	826	1330	808	1301	727	1170	722	1162	644	1031	541	866		
	F	12.9 -3.1R		14.2 -3.3R		15.2 -3.4R		16.1 -3.5R		16.8 -3.6R		17.5 -3.6R		18.1 -3.6R		18.6 -3.5R		19 -3.5R			
24"	$q_a$ $q_f$	932	1500	883	1422	752	1210	740	1192	643	1035	649	1044	584	940	595	958	541	866		
	F	13.9 -3.6R		15.4 -4R		16.7 -4.3R		17.9 -4.5R		18.9 -4.6R		19.8 -4.7R		20.6 -4.7R		21.3 -4.8R		22 -4.8R			

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Support Attachment: Pneutek K66 PAF

Side Seam Attachment: DeltaGrip