

DeltaGrip™ System Table of Contents



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DeltaGrip™ System Notes

- The dimension from the first and last sidelap connection within each span is to be no more than one-half of the specified spacing.
- 5/8 inch minimum edge distance for mechanically driven pin and self drilling screws.
- DGB-36 and DGN-24 Deck end lap to be 2 inch nominal +/-1/2 inch over supports, no end lap required for DG2W-36 and DG3W-36.
- For allowable shears, q_a , the allowable stress design safety factor for load combinations including earthquake loads of, $W = 3.0$ with welded connections or $W = 2.5$ for pins or screws, has been applied to tabulated values. Plate like buckling governs allowable shears above and to the right of the heavy line and a safety factor of, $W = 2.65$ has been applied.
- Allowable shear, q_a , and factored shear, q_f , are for diaphragms subject to load combinations that include earthquake loads. Adjustments may be made for load combinations subject to wind loads per AISI Cold Formed Steel Design Manual Section D5.
- Spacing, s , of arc spot welds, pins or screws at marginal support members such as chords and to collector elements such as struts or ties shall have a spacing adequate to transfer the actual ultimate force to the diaphragm. $s = q_f/q_{ult}$ where s is spacing in feet, q_{ult} is actual ultimate shear in plf, q_f is ultimate shear strength of the weld or fastener in lbs per weld or fastener shear strength tables.
- Flexibility factor (F) is in micro-inches per pound. R is the vertical load span of deck units (L_v) divided by the length (L) of the deck unit $R=L_v/L$.
- Interpolation of shear and flexibility values between adjacent spans is permissible and extrapolation outside of tabulated values by up to 2 feet is permissible.
- For all cellular profiles, the first number of the gauge designations (**20/20**) refers to the beam section (corrugated profile). The second number (20/**20**) refers to the pan section (flat plate).
- Shear values for DGBF-36, DGNF-36, DG2WF-36, DG3WF-36 are based on the gauge of the pan.
- Acceptable mechanically driven fasteners:
ITW Buildex Pins
 BX12
 BX14

Hilti High Shear Nails
 X-EDNK-22 THQ12
 X-EDN-19 THQ12
 ENP 2-21 L15
 ENPH 2-21 L15

Pneutek Fasteners
 SDK61075
 SDK63075
 K64062
 K64075
 K66062
 K66075

ITW Buildex self drilling screws:
 12-14 I.C.H. Traxx , Traxx, or TEK self drilling screw
 12-24 I.C.H. Traxx , Traxx, or TEK self drilling screw.

12. DG2W-36 and DG3W-36 Shear values for screws shall be adjusted by factor of 0.8 for 22 and 20 gage, 0.9 for 18 and 16 gage.

AISI Factors of Safety for Diaphragms

Ω	Diaphragm Condition
2.65	for diaphragms for which the failure mode is that of buckling, otherwise;
3.0	for diaphragms welded to the structure subject to earthquake loads, or subject to load combinations which include earthquake loads
2.35	for diaphragms welded to the structure subject to wind loads, or subjected to load combinations which include wind loads
2.5	for diaphragms mechanically connected to the structure subject to earthquake loads, or subject to load combinations which include earthquake loads
2.0	for diaphragms mechanically connected to the structure subject to wind loads, or subjected to load combinations which include wind loads
2.45	for diaphragms connected to the structure by either mechanical fastening or welding subject to load combinations not involving wind or earthquake loads

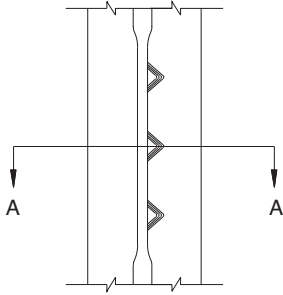
$$q_a = \frac{q_n}{\Omega}$$

Ω Safety Factor (ASD)
 q_n Nominal (ultimate) strength
 q_a Allowable strength (ASD)

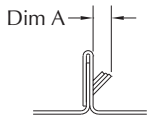
Table D5 from AISI Specifications 1996

DeltaGrip™ Inspection

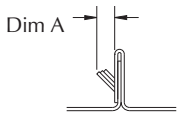
Measureable Inspection Standard



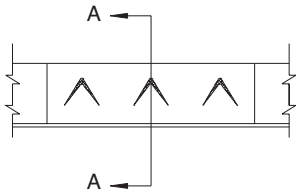
Plan View of DeltaGrip™ Punch



Section of DeltaGrip™ Punch



Section A-A Cposite

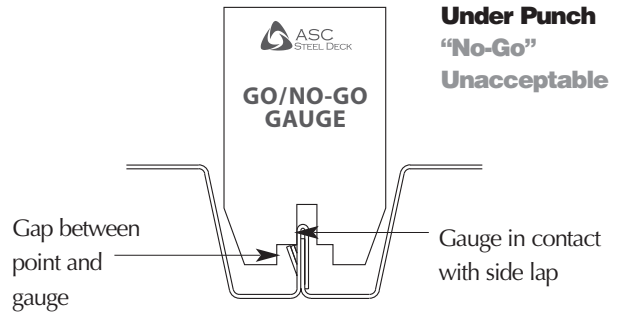
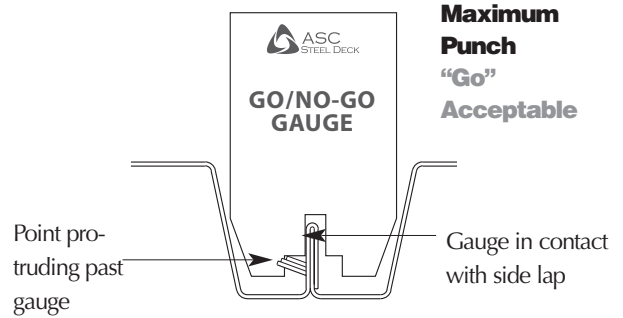
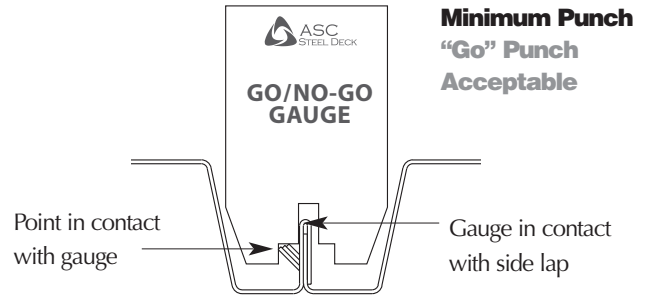


Side View DeltaGrip™ Punch

Schedule Minimum Offset	
Gage	Dim A (in)
22	0.19
21	0.19
20	0.19
19	0.16
18	0.16
16	0.16
For SI 1 inch = 25.4mm	

Go/No-Go Gauge Advantage

Because quality is more than what meets the eye, the Go/No-Go gauge is provided with all ASC DeltaGrip™ projects. It is the Engineer's assurance that each connection meets the high-standards the system was designed for - and the Inspector's guide to ensure that each connection is effective.



Welding Capacities

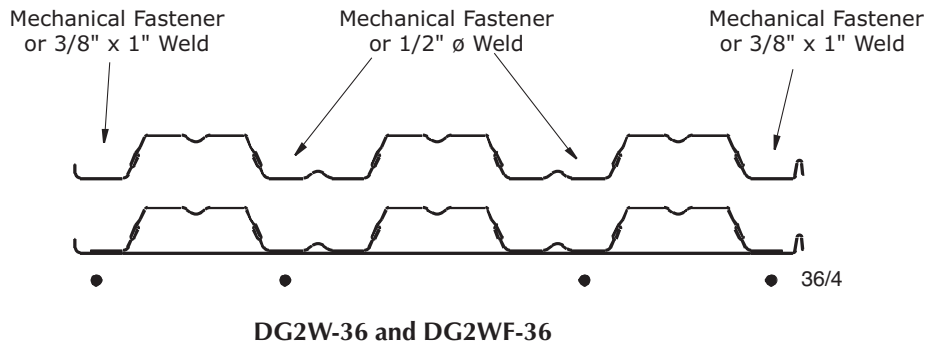
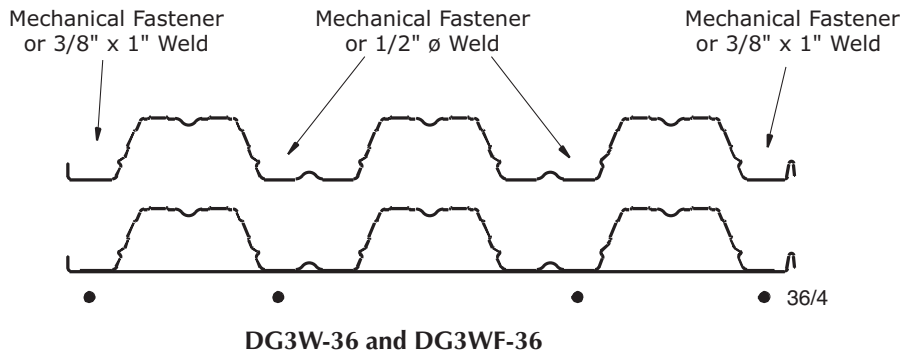
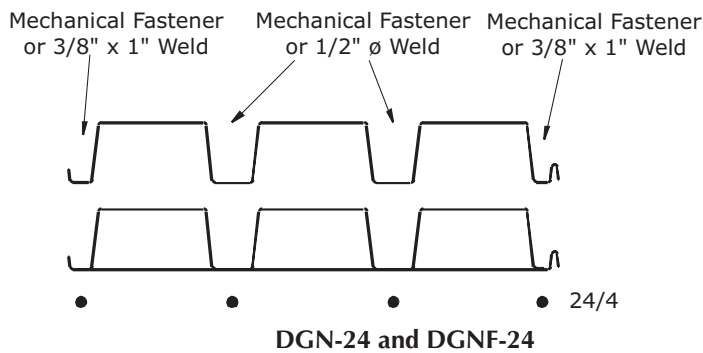
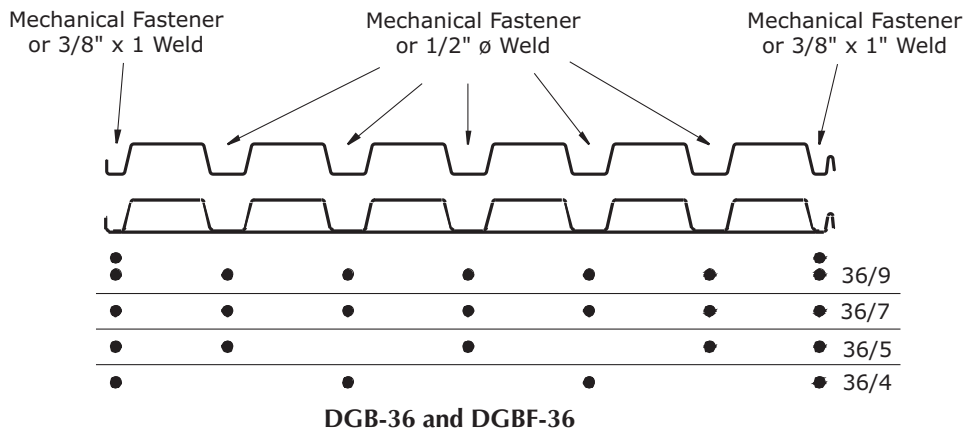
Deck Profile	Gage	Nominal Capacity			
		Arc Spot (puddle) Weld (1/2 in effective diameter)		Arc Seam Weld (3/8 in x 1 in effective width and length)	
		Shear (lbs)	Tensile (lbs)		Shear (lbs)
IBC	UBC				
B, DGB, N, DGN	22	2116	2048	1418	3098
	20	2955	2442	1691	3751
	18	4710	3207	2221	5075
	16	5810	3956	2740	6452
2W, DG2W, 3W, DG3W	22	2002	1988	1377	3001
	21	2532	2252	1560	3434
	20	2820	2383	1650	3652
	19	3950	2837	1965	4425
	18	4635	3156	2186	4985
	16	5738	3907	2706	6359
Deep Deck	20	2595	2048	2010	3161
	18	4011	2712	2662	4314
	16	4965	3358	3295	5503
	14	6193	4188	4110	7143
BF, DGBF, NF, DGNF	20/20	6886	4698	3247	7881
	20/18	7835	5335	3695	9217
	20/16	8836	6082	4212	10714
	18/20	7912	5387	3731	9328
	18/18	8836	6075	4207	10701
	18/16	8836	6958	4819	12238
	16/16	8836	7867	5448	13817
2WF, DG2WF, 3WF, DG3WF	20/20	6807	4635	3210	7773
	20/18	7759	5283	3659	9106
	20/16	8836	6017	4167	10600
	18/20	7844	5341	3699	9229
	18/18	8836	6017	4167	10600
	18/16	8836	6898	4777	12134
	16/16	8836	7805	5406	13710
Cellular Deep deck	20/20	5815	3932	3859	6624
	20/18	6714	4540	4456	7780
	20/16	7647	5171	5075	9173
	18/20	6714	4540	4456	7780
	18/18	7647	5171	5075	9173
	18/16	8767	5928	5818	10501
	16/16	8836	6708	6583	11865

Calculated in accordance with section E of the AISI Cold Formed Steel Design Manual

DeltaGrip System Mechanical Fastener Capacities

Mechanical Fastener Nominal Shear Strength (lbs)										
Mechanical Fastener Type	DGB-36, DGBF-36, DGN-24, and DGNF-24				DG2W, DG2WF, DW3W, AND DG3WF					
	Gage				Gage					
	22	20	18	16	22	21	20	19	18	16
ITW Buildex BX12 Pin	1500	1738	2146	2473	1463	1626	1704	1958	2121	2454
ITW Buildex BX14 Pin	1589	1841	2273	2620	1550	1722	1805	2074	2247	2600
Hilti X-EDNK22-THQ12 Pin	1508	1800	2367	2924	1464	1659	1756	2092	2329	2887
Hilti X-EDN19-THQ12 Pin	1604	1914	2517	3109	1557	1765	1868	2225	2477	3070
Hilti ENPH2-21-L15 Pin	1608	1879	2362	2780	1566	1750	1839	2135	2332	2754
Pneutek SDK61075 Pin	1546	1833	2378	2896	1502	1695	1790	2116	2342	2862
Pneutek SDK63075 Pin	1728	1977	2417	2812	1689	1860	1941	2210	2389	2787
Pneutek K64062 & K64075 Pin	1735	2216	3009	3686	1655	1993	2149	2642	2960	3644
Pneutek K66062 & K66075 Pin	1841	2258	3132	4076	1780	2055	2195	2698	3071	4011
ITW Buildex 12-14 or 12-24 I.C.H. Traxx, Traxx or TEK Self Drilling Screw	1150	1381	1839	2301	1116	1270	1347	1616	1808	2270

Fastener Attachment Patterns

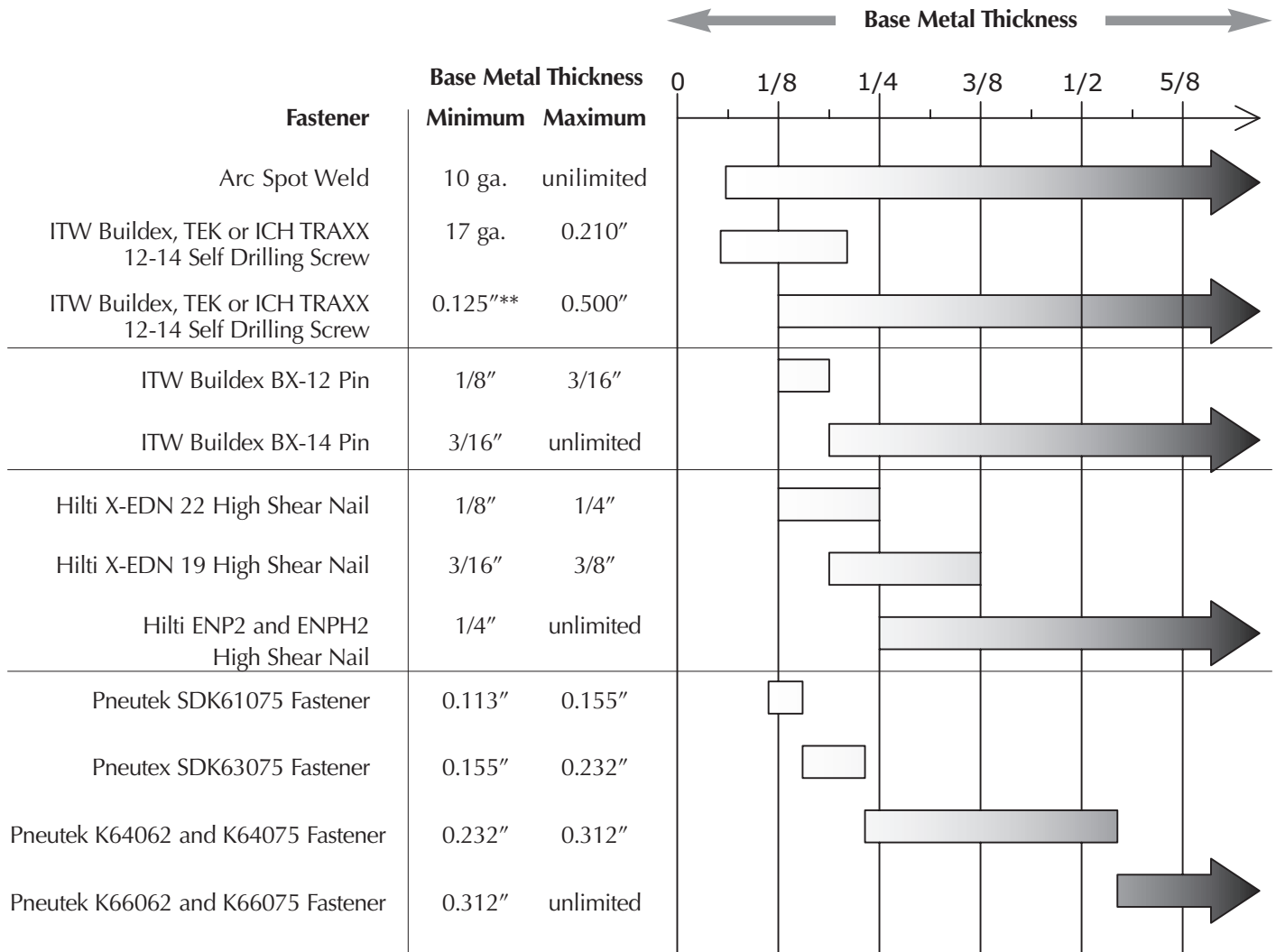


Note: Weld sizes are effective not visible. Refer to AISI Cold-Formed Steel Design Manual or AWS D1.3 for additional welding requirements.

Fastener Selection Chart

The fastener selection chart provides a quick visual aid to select the correct fastener for a given supporting material thickness to attach steel diaphragms. The manufacturers literature and reports

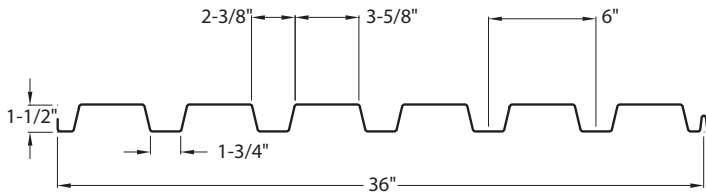
should be consulted for additional information before making a final fastener selection.



*Below 10 ga. is not recommended due to the difficulty of producing a good quality weld.

**Correct drill point must be selected for the base material thickness.

DGB-36



The **DGB-36 profile** has been enhanced via full scale testing to give you the highest diaphragm shear values of any of our prior B-series profiles.

DGB-36 Section Properties

Gage	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
22	1.68	0.178	0.180	0.195
20	2.04	0.220	0.235	0.246
18	2.70	0.302	0.321	0.336
16	3.36	0.379	0.407	0.415

1. Section properties are based on minimum 38 ksi steel (Fy).

DGB-36 Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
22	416	468	520	572	625	677	729
	1007	1103	1213	1363	1513	1663	1813
20	700	776	853	929	1005	1082	1158
	1495	1617	1739	1897	2088	2280	2472
18	1443	1568	1693	1818	1943	2068	2193
	2734	2909	3084	3258	3436	3710	3985
16	2434	2608	2782	2957	3131	3305	3480
	4350	4578	4806	5034	5262	5490	5786

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

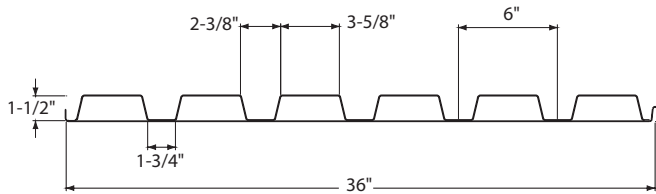
DGB-36 Allowable Total (DL + LL) Uniform Load (psf)

Condition	Gage		Span (ft)								
			4	5	6	7	8	9	10	11	12
SINGLE SPAN	22	Stress	171	109	76	55	42	33	27	22	19
		Deflection	171	93	54	34	22	16	11	8	6
	20	Stress	223	142	99	72	55	44	35	29	24
		Deflection	223	115	66	42	28	19	14	10	8
	18	Stress	304	195	135	99	76	60	48	40	33
		Deflection	304	158	91	57	38	27	19	14	11
	16	Stress	386	247	171	126	96	76	61	51	42
		Deflection	386	199	115	72	48	34	24	18	14
DOUBLE SPAN	22	Stress	185	118	82	60	46	36	29	24	20
		Deflection	185	118	82	60	46	36	28	21	16
	20	Stress	233	149	103	76	58	46	37	30	25
		Deflection	233	149	103	76	58	46	34	26	20
	18	Stress	319	204	141	104	79	63	51	42	35
		Deflection	319	204	141	104	79	63	47	35	27
	16	Stress	394	252	175	128	98	77	63	52	43
		Deflection	394	252	175	128	98	77	59	44	34
TRIPLE SPAN	22	Stress	231	148	102	75	57	45	37	30	25
		Deflection	231	148	101	64	43	30	22	16	12
	20	Stress	292	186	129	95	73	57	46	38	32
		Deflection	292	186	125	79	53	37	27	20	15
	18	Stress	399	255	177	130	99	78	63	52	44
		Deflection	399	255	172	108	72	51	37	28	21
	16	Stress	492	315	219	160	123	97	78	65	54
		Deflection	492	315	217	136	91	64	46	35	27

1. Stress based on allowable flexural stress of 22.8 ksi.
2. Deflection based on maximum deflection of L/240.

3. Adequate bearing must be provided.
4. See page 31 of the *Steel Roof Deck Catalog* for General Notes

DGBF-36



DGBF-36 Section Properties

Gage	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20/20	3.55	0.392	0.282	0.398
20/18	4.08	0.447	0.289	0.435
20/16	5.09	0.484	0.295	0.453
18/20	4.21	0.474	0.426	0.470
18/18	4.73	0.541	0.436	0.561
18/16	5.25	0.615	0.445	0.585
16/16	5.75	0.715	0.612	0.712

1. Section properties are based on minimum 38 ksi steel (Fy).

DGBF-36 Allowable Reactions (plf)

Gage	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
20/20	700	776	853	929	1005	1082	1158
	1495	1617	1739	1897	2088	2280	2472
20/18	700	776	853	929	1005	1082	1158
	1495	1617	1739	1897	2088	2280	2472
20/16	700	776	853	929	1005	1082	1158
	1495	1617	1739	1897	2088	2280	2472
18/20	1443	1568	1693	1818	1943	2068	2193
	2734	2909	3084	3258	3436	3710	3985
18/18	1443	1568	1693	1818	1943	2068	2193
	2734	2909	3084	3258	3436	3710	3985
18/16	1443	1568	1693	1818	1943	2068	2193
	2734	2909	3084	3258	3436	3710	3985
16/16	2434	2608	2782	2957	3131	3305	3480
	4350	4578	4806	5034	5262	5490	5786

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

DGBF-36 Allowable Total (DL + LL) Uniform Load (psf)

Span Condition	Gage		Span (ft)								
			4	5	6	7	8	9	10	11	12
SINGLE SPAN	20/20	Stress	267	171	119	87	66	52	42	35	29
		Deflection	267	171	119	75	50	35	25	19	14
	20/18	Stress	274	175	122	89	68	54	43	36	30
		Deflection	274	175	122	85	57	40	29	22	16
	18/18	Stress	414	265	184	135	103	81	66	54	46
		Deflection	414	265	164	103	69	48	35	26	20
	18/16	Stress	422	270	187	138	105	83	67	55	46
		Deflection	422	270	186	117	78	55	40	30	23
	16/16	Stress	581	372	258	189	145	114	93	76	64
		Deflection	581	372	217	136	91	64	46	35	27
DOUBLE SPAN	20/20	Stress	378	241	168	123	94	74	60	49	42
		Deflection	378	241	168	123	94	74	60	46	35
	20/18	Stress	413	264	183	134	103	81	66	54	45
		Deflection	413	264	183	134	103	81	66	52	40
	18/18	Stress	532	341	236	174	133	105	85	70	59
		Deflection	532	341	236	174	133	105	85	64	49
	18/16	Stress	555	355	247	181	138	109	88	73	61
		Deflection	555	355	247	181	138	109	88	72	56
	16/16	Stress	676	432	300	220	169	133	108	89	75
		Deflection	676	432	300	220	169	133	108	84	65
TRIPLE SPAN	20/20	Stress	418	267	186	136	104	82	66	55	46
		Deflection	418	267	186	136	94	66	48	36	28
	20/18	Stress	428	274	190	140	107	84	68	56	47
		Deflection	428	274	190	140	107	75	55	41	32
	18/18	Stress	647	414	287	211	161	127	103	85	71
		Deflection	647	414	287	195	130	91	66	50	38
	18/16	Stress	660	422	293	215	165	130	105	87	73
		Deflection	660	422	293	215	148	104	76	57	44
	16/16	Stress	845	541	375	276	211	167	135	111	93
		Deflection	845	541	375	257	172	121	88	66	51

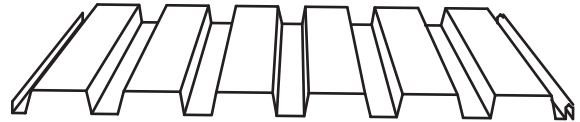
1. Stress based on allowable flexural stress of 22.8 ksi.
2. Deflection based on maximum deflection of L/240.

3. Adequate bearing must be provided.
4. See page 31 of *Steel Roof Deck Catalog* for General Notes

22ga.

DGB-36 and DGBF-36

DeltaGrip System with Arc Spot/Seam Welds



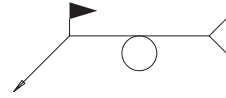
Allowable Diaphragm Shears

(q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners		Deltagrip™ Spacing		Span (ft)									
		(in)	4	5	6	7	8	9	10	11	12		
36/7	4	q_a	1835	1764	1713	1436	1100	869	704	582	489		
		F	7.3-0.9R	7.6-0.9R	7.8-0.8R	7.9-0.8R	8-0.7R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.3-0.5R		
	6	q_a	1587	1491	1422	1370	1100	869	704	582	489		
		F	8.2-1.4R	8.6-1.4R	8.9-1.4R	9.2-1.3R	9.4-1.3R	9.6-1.2R	9.7-1.2R	9.8-1.1R	9.9-1R		
	8	q_a	1432	1357	1243	1212	1100	869	704	582	489		
		F	8.8-1.8R	9.2-1.8R	9.8-1.9R	10-1.8R	10.5-1.8R	10.6-1.7R	11-1.7R	11-1.6R	11.3-1.4R		
	12	q_a	1255	1129	1040	962	900	851	704	582	489		
		F	9.6-2.4R	10.4-2.6R	11.1-2.7R	11.7-2.8R	12.1-2.7R	12.6-2.8R	13-2.7R	13.3-2.7R	13.4-2.2R		
	18	q_a	1157	1046	863	806	763	669	649	582	489		
	F	10.2-2.9R	11-3.1R	12.3-3.7R	12.9-3.6R	13.4-3.5R	14.5-4R	14.8-3.8R	15.1-3.7R	15.8-3.3R			
24	q_a	1054	943	772	728	626	608	539	532	481			
	F	10.8-3.4R	11.7-3.6R	13.2-4.3R	13.7-4.2R	15-4.7R	15.4-4.6R	16.6-4.9R	16.8-4.7R	17.5-4.1R			
36	q_a	1054	833	680	649	558	487	484	433	390			
	F	10.8-3.4R	12.5-4.3R	14.1-5.2R	14.6-4.9R	16.1-5.5R	17.6-6.2R	17.7-5.7R	19-6.3R	19.7-5.2R			
48	q_a	925	833	680	571	489	487	430	383	344			
	F	11.6-4.2R	12.5-4.3R	14.1-5.2R	15.8-5.9R	17.4-6.6R	17.6-6.2R	19-6.7R	20.5-7.4R	21.1-6R			
60	q_a	925	724	680	571	489	426	375	383	344			
	F	11.6-4.2R	13.5-5.2R	14.1-5.2R	15.8-5.9R	17.4-6.6R	19-7.4R	20.6-8R	20.5-7.4R	21.1-6R			
36/5	4	q_a	1511	1470	1441	1418	1100	869	704	582	489		
		F	7.5-0.9R	7.8-0.8R	7.9-0.8R	8.1-0.7R	8.2-0.7R	8.3-0.6R	8.3-0.6R	8.4-0.5R	8.4-0.5R		
	6	q_a	1351	1289	1244	1209	1100	869	704	582	489		
		F	8.5-1.4R	8.9-1.4R	9.2-1.3R	9.5-1.3R	9.7-1.2R	9.8-1.1R	10-1.1R	10.1-1R	10.1-0.9R		
	8	q_a	1242	1192	1109	1088	1032	869	704	582	489		
		F	9.2-1.9R	9.6-1.8R	10.2-1.9R	10.4-1.7R	10.9-1.7R	11-1.6R	11.4-1.6R	11.4-1.5R	11.6-1.3R		
	12	q_a	1107	1013	945	893	852	819	704	582	489		
		F	10.3-2.6R	11.1-2.7R	11.8-2.8R	12.4-2.8R	12.8-2.8R	13.3-2.7R	13.6-2.7R	14-2.6R	14.1-2.2R		
	18	q_a	1029	944	817	769	731	641	623	582	489		
	F	11-3.1R	11.8-3.2R	13.3-3.9R	13.9-3.8R	14.3-3.6R	15.6-4.1R	15.8-3.9R	16.1-3.7R	16.8-3.3R			
24	q_a	942	869	729	691	594	580	513	509	460			
	F	11.8-3.8R	12.7-3.9R	14.4-4.7R	14.8-4.5R	16.3-5R	16.6-4.8R	17.9-5.2R	18.1-4.9R	18.9-4.3R			
36	q_a	942	782	638	613	526	458	459	410	368			
	F	11.8-3.8R	13.7-4.8R	15.7-5.8R	16-5.4R	17.7-6R	19.4-6.8R	19.3-6.1R	20.8-6.7R	21.7-5.7R			
48	q_a	848	782	638	535	457	458	404	360	323			
	F	12.9-4.8R	13.7-4.8R	15.7-5.8R	17.5-6.6R	19.4-7.4R	19.4-6.8R	21-7.3R	22.7-8R	23.5-6.7R			
60	q_a	848	673	638	535	457	397	349	360	323			
	F	12.9-4.8R	15.1-6R	15.7-5.8R	17.5-6.6R	19.4-7.4R	21.3-8.3R	23.1-8.9R	22.7-8R	23.5-6.7R			
36/4	4	q_a	1270	1246	1229	1216	1100	869	704	582	489		
		F	7.8-0.8R	8-0.8R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.4-0.5R	8.5-0.5R	8.5-0.5R	8.6-0.4R		
	6	q_a	1143	1103	1075	1053	1035	869	704	582	489		
		F	8.9-1.4R	9.3-1.3R	9.6-1.2R	9.8-1.2R	10-1.1R	10.1-1R	10.2-1R	10.3-0.9R	10.4-0.8R		
	8	q_a	1049	1021	961	951	909	869	704	582	489		
		F	9.8-1.9R	10.1-1.7R	10.8-1.8R	10.9-1.6R	11.4-1.6R	11.4-1.5R	11.8-1.5R	11.8-1.4R	12-1.2R		
	12	q_a	927	861	813	776	747	724	704	582	489		
		F	11.1-2.7R	12-2.8R	12.6-2.8R	13.2-2.8R	13.6-2.7R	14.1-2.6R	14.4-2.5R	14.7-2.5R	14.8-2.1R		
	18	q_a	853	796	692	660	635	555	546	539	487		
	F	12-3.4R	12.9-3.4R	14.6-4.1R	15.1-3.9R	15.4-3.7R	16.8-4.1R	17-3.8R	17.2-3.7R	18.1-3.3R			
24	q_a	770	724	601	581	498	494	437	439	396			
	F	13.2-4.3R	14-4.2R	16-5.1R	16.3-4.7R	18-5.3R	18.1-4.9R	19.7-5.4R	19.6-5R	20.6-4.4R			
36	q_a	770	628	510	503	430	373	382	340	304			
	F	13.2-4.3R	15.5-5.4R	17.7-6.5R	17.9-5.9R	19.8-6.6R	21.8-7.4R	21.4-6.5R	23.1-7.1R	24.2-6.1R			
48	q_a	670	628	510	425	362	373	327	290	259			
	F	14.8-5.7R	15.5-5.4R	17.7-6.5R	19.9-7.4R	22.1-8.3R	21.8-7.4R	23.6-8R	25.6-8.8R	26.6-7.4R			
60	q_a	670	519	510	425	362	312	273	290	259			
	F	14.8-5.7R	17.4-7.1R	17.7-6.5R	19.9-7.4R	22.1-8.3R	24.4-9.4R	26.5-10.1R	25.6-8.8R	26.6-7.4R			

20_{ga.} DGB-36 and DGBF-36

DeltaGrip System with Arc Spot/Seam Welds

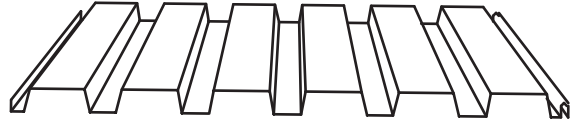


Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support Fasteners	Seam Spacing (in)		Span (ft)								
			4	5	6	7	8	9	10	11	12
36/7	4	q_a	2332	2261	2211	1889	1446	1142	925	765	643
		F	5.9-0.6R	6-0.6R	6.1-0.5R	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R
	6	q_a	2025	1924	1851	1796	1446	1142	925	765	643
		F	6.6-1R	6.9-0.9R	7.1-0.9R	7.2-0.9R	7.4-0.8R	7.5-0.8R	7.6-0.7R	7.6-0.7R	7.7-0.6R
	8	q_a	1825	1751	1618	1590	1446	1142	925	765	643
		F	7.1-1.3R	7.4-1.2R	7.8-1.3R	7.9-1.2R	8.3-1.2R	8.3-1.1R	8.6-1.1R	8.6-1R	8.8-0.9R
	12	q_a	1587	1445	1344	1269	1211	1142	925	765	643
		F	7.9-1.8R	8.5-1.9R	9-2R	9.4-1.9R	9.7-1.9R	10-1.9R	10.2-1.8R	10.5-1.8R	10.6-1.5R
	18	q_a	1452	1329	1128	1066	1020	897	877	765	643
F		8.5-2.2R	9.1-2.3R	10.2-2.8R	10.5-2.7R	10.8-2.5R	11.7-2.9R	11.9-2.7R	12-2.6R	12.6-2.3R	
24	q_a	1308	1207	996	954	823	809	719	717	643	
	F	9.1-2.8R	9.7-2.8R	11-3.4R	11.3-3.2R	12.4-3.6R	12.5-3.4R	13.5-3.7R	13.5-3.4R	14.2-3R	
36	q_a	1308	1056	865	841	724	634	640	574	519	
	F	9.1-2.8R	10.6-3.5R	12-4.2R	12.2-3.9R	13.4-4.3R	14.7-4.9R	14.5-4.3R	15.7-4.8R	16.3-4.1R	
48	q_a	1145	1056	865	728	626	634	561	502	453	
	F	10-3.6R	10.6-3.5R	12-4.2R	13.4-4.8R	14.7-5.4R	14.7-4.9R	15.8-5.3R	17.1-5.8R	17.7-4.8R	
60	q_a	1145	898	865	728	626	546	483	502	453	
	F	10-3.6R	11.7-4.5R	12-4.2R	13.4-4.8R	14.7-5.4R	16.2-6R	17.5-6.5R	17.1-5.8R	17.7-4.8R	
36/5	4	q_a	1884	1847	1820	1799	1446	1142	925	765	643
		F	6-0.6R	6.1-0.5R	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R	6.5-0.3R	6.5-0.3R
	6	q_a	1699	1637	1592	1557	1446	1142	925	765	643
		F	6.8-0.9R	7.1-0.9R	7.3-0.8R	7.4-0.8R	7.5-0.7R	7.6-0.7R	7.7-0.7R	7.8-0.6R	7.8-0.5R
	8	q_a	1564	1518	1426	1409	1345	1142	925	765	643
		F	7.5-1.3R	7.7-1.2R	8.1-1.2R	8.2-1.1R	8.5-1.1R	8.5-1R	8.8-1R	8.8-0.9R	9-0.8R
	12	q_a	1390	1288	1212	1155	1110	1074	925	765	643
		F	8.4-1.9R	9-2R	9.5-2R	9.8-1.9R	10.2-1.9R	10.4-1.8R	10.7-1.7R	10.9-1.7R	11-1.4R
	18	q_a	1285	1194	1039	1001	971	863	846	765	643
F		9.1-2.4R	9.7-2.4R	10.9-2.9R	11.2-2.7R	11.4-2.5R	12.4-2.9R	12.6-2.7R	12.7-2.5R	13.3-2.3R	
24	q_a	1166	1092	943	910	785	775	689	690	625	
	F	9.9-3.1R	10.5-3R	11.9-3.6R	12.1-3.3R	13.3-3.7R	13.4-3.4R	14.5-3.7R	14.4-3.4R	15.1-3.1R	
36	q_a	1166	980	814	797	686	600	610	546	493	
	F	9.9-3.1R	11.6-3.8R	13.2-4.6R	13.3-4.1R	14.6-4.6R	16-5.2R	15.7-4.5R	17-5R	17.7-4.3R	
48	q_a	1034	980	814	685	588	600	531	474	427	
	F	11.1-4.1R	11.6-3.8R	13.2-4.6R	14.8-5.3R	16.3-5.9R	16-5.2R	17.4-5.6R	18.8-6.2R	19.5-5.2R	
60	q_a	1034	837	814	685	588	512	452	474	427	
	F	11.1-4.1R	13-5.1R	13.2-4.6R	14.8-5.3R	16.3-5.9R	18-6.6R	19.5-7.2R	18.8-6.2R	19.5-5.2R	
36/4	4	q_a	1575	1555	1540	1528	1446	1142	925	765	643
		F	6.1-0.5R	6.3-0.5R	6.4-0.4R	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	q_a	1434	1397	1369	1348	1332	1142	925	765	643
		F	7.1-0.9R	7.3-0.8R	7.5-0.8R	7.6-0.7R	7.7-0.7R	7.8-0.6R	7.9-0.6R	7.9-0.5R	8-0.5R
	8	q_a	1323	1300	1234	1228	1182	1142	925	765	643
		F	7.8-1.3R	8-1.1R	8.5-1.2R	8.5-1R	8.8-1R	8.8-0.9R	9.1-0.9R	9-0.8R	9.2-0.7R
	12	q_a	1170	1099	1047	1008	977	952	925	765	643
		F	9-2R	9.6-2R	10-1.9R	10.4-1.8R	10.7-1.8R	10.9-1.7R	11.1-1.6R	11.3-1.6R	11.4-1.3R
	18	q_a	1073	1014	887	865	849	761	755	750	643
F		9.9-2.5R	10.4-2.4R	11.8-2.9R	12-2.7R	12.2-2.5R	13.3-2.8R	13.3-2.6R	13.4-2.4R	14.1-2.2R	
24	q_a	960	917	793	779	671	674	597	606	548	
	F	11-3.4R	11.5-3.2R	13.1-3.8R	13.1-3.4R	14.5-3.8R	14.4-3.4R	15.6-3.7R	15.5-3.4R	16.3-3.1R	
36	q_a	960	809	661	667	572	498	518	463	417	
	F	11-3.4R	12.9-4.2R	14.8-5.1R	14.6-4.4R	16.2-4.9R	17.8-5.5R	17.2-4.7R	18.6-5.1R	19.5-4.5R	
48	q_a	829	809	661	554	473	498	440	391	351	
	F	12.6-4.7R	12.9-4.2R	14.8-5.1R	16.6-5.8R	18.5-6.5R	17.8-5.5R	19.3-6R	20.9-6.6R	21.9-5.6R	
60	q_a	829	654	661	554	473	411	361	391	351	
	F	12.6-4.7R	14.9-5.9R	14.8-5.1R	16.6-5.8R	18.5-6.5R	20.3-7.3R	22.1-7.9R	20.9-6.6R	21.9-5.6R	

18ga. DGB-36 and DGBF-36

DeltaGrip System with Arc Spot/Seam Welds

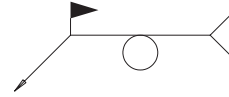


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	DeltaGrip™ Spacing (in)		Span (ft)								
	4	5	6	7	8	9	10	11	12		
36/7	4	q_a	3345	3283	3238	2890	2213	1749	1416	1171	984
		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	4.4-0.1R	4.4-0.1R
	6	q_a	2951	2849	2775	2719	2213	1749	1416	1171	984
		F	4.6-0.5R	4.8-0.5R	4.9-0.4R	4.9-0.4R	5-0.4R	5.1-0.3R	5.1-0.3R	5.1-0.3R	5.1-0.3R
	8	q_a	2667	2605	2441	2425	2213	1749	1416	1171	984
		F	5.1-0.7R	5.2-0.6R	5.4-0.6R	5.4-0.6R	5.6-0.6R	5.6-0.5R	5.8-0.5R	5.7-0.5R	5.9-0.4R
	12	q_a	2304	2138	2019	1931	1862	1749	1416	1171	984
		F	5.8-1.1R	6.1-1.1R	6.3-1.1R	6.5-1R	6.7-1R	6.8-1R	7-0.9R	7.1-0.9R	7.1-0.8R
	18	q_a	2088	1952	1684	1635	1598	1434	1416	1171	984
	F	6.2-1.4R	6.5-1.4R	7.3-1.7R	7.5-1.5R	7.6-1.4R	8.2-1.6R	8.2-1.4R	8.2-1.3R	8.7-1.3R	
24	q_a	1848	1751	1499	1473	1276	1278	1140	1154	984	
	F	6.9-1.9R	7.2-1.8R	8.1-2.1R	8.1-1.9R	8.9-2.2R	8.8-1.9R	9.5-2.1R	9.4-1.9R	9.9-1.7R	
36	q_a	1848	1533	1270	1274	1102	968	1001	900	817	
	F	6.9-1.9R	8-2.4R	9.1-2.9R	9-2.5R	9.8-2.8R	10.8-3.1R	10.4-2.6R	11.2-2.9R	11.8-2.6R	
48	q_a	1583	1533	1270	1074	927	968	861	773	700	
	F	7.9-2.7R	8-2.4R	9.1-2.9R	10.1-3.3R	11.2-3.7R	10.8-3.1R	11.6-3.4R	12.5-3.7R	13.1-3.2R	
60	q_a	1583	1265	1270	1074	927	812	721	773	700	
	F	7.9-2.7R	9.2-3.4R	9.1-2.9R	10.1-3.3R	11.2-3.7R	12.2-4.2R	13.2-4.5R	12.5-3.7R	13.1-3.2R	
36/5	4	q_a	2624	2594	2573	2556	2213	1749	1416	1171	984
		F	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	6	q_a	2408	2352	2311	2279	2213	1749	1416	1171	984
		F	4.8-0.5R	4.9-0.4R	5-0.4R	5-0.4R	5.1-0.3R	5.1-0.3R	5.2-0.3R	5.2-0.3R	5.2-0.2R
	8	q_a	2234	2200	2096	2089	2016	1749	1416	1171	984
		F	5.2-0.7R	5.3-0.6R	5.6-0.6R	5.6-0.5R	5.8-0.5R	5.7-0.5R	5.9-0.5R	5.8-0.4R	6-0.4R
	12	q_a	1988	1875	1792	1729	1679	1639	1416	1171	984
		F	6-1.1R	6.3-1.1R	6.6-1R	6.8-1R	6.9-0.9R	7-0.9R	7.2-0.8R	7.2-0.8R	7.3-0.7R
	18	q_a	1828	1734	1525	1490	1464	1335	1329	1171	984
	F	6.6-1.5R	6.9-1.4R	7.7-1.7R	7.8-1.5R	7.9-1.4R	8.5-1.5R	8.5-1.4R	8.5-1.3R	9-1.2R	
24	q_a	1639	1572	1369	1355	1215	1221	1100	1118	984	
	F	7.4-2R	7.6-1.8R	8.6-2.2R	8.6-1.9R	9.4-2.2R	9.3-1.9R	10-2.1R	9.9-1.8R	10.4-1.7R	
36	q_a	1639	1388	1197	1207	1052	923	961	864	783	
	F	7.4-2R	8.6-2.5R	9.8-3.1R	9.6-2.5R	10.6-2.8R	11.6-3.2R	11.1-2.6R	12-2.9R	12.6-2.6R	
48	q_a	1418	1388	1197	1017	877	923	821	737	667	
	F	8.7-3R	8.6-2.5R	9.8-3.1R	11-3.5R	12.2-3.9R	11.6-3.2R	12.5-3.5R	13.5-3.8R	14.2-3.4R	
60	q_a	1418	1183	1197	1017	877	768	681	737	667	
	F	8.7-3R	10.2-3.8R	9.8-3.1R	11-3.5R	12.2-3.9R	13.4-4.4R	14.5-4.8R	13.5-3.8R	14.2-3.4R	
36/4	4	q_a	2172	2157	2146	2138	2131	1749	1416	1171	984
		F	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	6	q_a	2019	1988	1965	1947	1933	1749	1416	1171	984
		F	4.9-0.4R	5-0.4R	5.1-0.3R	5.1-0.3R	5.2-0.3R	5.2-0.3R	5.2-0.2R	5.2-0.2R	5.3-0.2R
	8	q_a	1885	1873	1802	1805	1754	1749	1416	1171	984
		F	5.4-0.6R	5.4-0.5R	5.7-0.5R	5.7-0.5R	5.9-0.5R	5.8-0.4R	6-0.4R	5.9-0.4R	6-0.3R
	12	q_a	1680	1607	1552	1511	1478	1452	1416	1171	984
		F	6.3-1.1R	6.6-1R	6.8-1R	7-0.9R	7.2-0.8R	7.3-0.8R	7.4-0.8R	7.4-0.7R	7.5-0.6R
	18	q_a	1539	1482	1314	1300	1289	1182	1185	1171	984
	F	7-1.5R	7.3-1.3R	8.2-1.6R	8.2-1.4R	8.3-1.3R	9-1.4R	8.9-1.3R	8.9-1.2R	9.4-1.1R	
24	q_a	1364	1335	1169	1175	1058	1076	981	1009	917	
	F	8.1-2.1R	8.2-1.8R	9.3-2.2R	9.1-1.9R	10.1-2.1R	9.8-1.8R	10.6-2R	10.4-1.7R	11-1.6R	
36	q_a	1364	1161	1004	1035	902	790	841	755	684	
	F	8.1-2.1R	9.4-2.7R	10.8-3.2R	10.4-2.6R	11.5-2.9R	12.6-3.2R	11.9-2.6R	12.8-2.9R	13.6-2.6R	
48	q_a	1149	1161	1004	846	727	790	701	628	567	
	F	9.7-3.4R	9.4-2.7R	10.8-3.2R	12.2-3.7R	13.5-4.2R	12.6-3.2R	13.7-3.5R	14.8-3.9R	15.5-3.5R	
60	q_a	1149	946	1004	846	727	635	561	628	567	
	F	9.7-3.4R	11.5-4.3R	10.8-3.2R	12.2-3.7R	13.5-4.2R	14.9-4.7R	16.2-5.1R	14.8-3.9R	15.5-3.5R	

16ga. DGB-36 and DGBF-36

DeltaGrip System with Arc Spot/Seam Welds

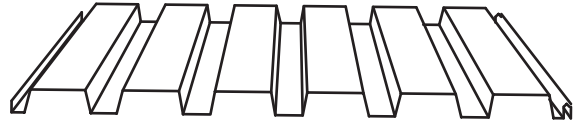


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™		4	5	6	7	8	9	10	11	12	
Fasteners	Spacing (in)										
36/7	4	q_a	4369	4317	4280	4251	4182	3304	2677	2212	1859
		F	3.1-0.2R	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	3.2-0.1R
	6	q_a	3923	3827	3758	3706	3665	3304	2677	2212	1859
		F	3.5-0.3R	3.6-0.3R	3.6-0.2R	3.7-0.2R	3.7-0.2R	3.7-0.2R	3.7-0.2R	3.8-0.2R	3.8-0.1R
	8	q_a	3572	3528	3345	3344	3218	3231	2677	2212	1859
		F	3.8-0.4R	3.9-0.4R	4-0.4R	4-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R	4.2-0.2R	4.3-0.2R
	12	q_a	3090	2910	2781	2684	2609	2548	2499	2212	1859
		F	4.4-0.7R	4.6-0.7R	4.7-0.6R	4.8-0.6R	4.9-0.6R	5-0.5R	5.1-0.5R	5.1-0.5R	5.2-0.4R
	18	q_a	2787	2649	2303	2263	2233	2025	2024	2023	1859
	F	4.8-0.9R	5-0.9R	5.6-1R	5.6-0.9R	5.6-0.8R	6.1-0.9R	6-0.8R	6-0.8R	6.3-0.7R	
	24	q_a	2438	2357	2031	2028	1808	1831	1650	1689	1539
		F	5.4-1.4R	5.5-1.2R	6.2-1.4R	6.1-1.2R	6.7-1.4R	6.6-1.2R	7.1-1.3R	6.9-1.1R	7.3-1.1R
	36	q_a	2438	2034	1732	1777	1544	1360	1431	1291	1174
		F	5.4-1.4R	6.3-1.7R	7.1-2R	6.9-1.6R	7.6-1.8R	8.2-2.1R	7.9-1.7R	8.4-1.8R	8.9-1.7R
	48	q_a	2039	2034	1732	1468	1270	1360	1213	1092	992
		F	6.4-2.1R	6.3-1.7R	7.1-2R	7.9-2.3R	8.8-2.6R	8.2-2.1R	8.9-2.3R	9.6-2.5R	10.1-2.2R
	60	q_a	2039	1663	1732	1468	1270	1117	994	1092	992
		F	6.4-2.1R	7.5-2.6R	7.1-2R	7.9-2.3R	8.8-2.6R	9.6-2.9R	10.4-3.2R	9.6-2.5R	10.1-2.2R
36/5	4	q_a	3353	3330	3313	3300	3291	3283	2677	2212	1859
		F	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	3.2-0.1R	3.3-0.1R
	6	q_a	3127	3079	3044	3017	2995	2978	2677	2212	1859
		F	3.6-0.3R	3.6-0.2R	3.7-0.2R	3.7-0.2R	3.7-0.2R	3.8-0.2R	3.8-0.1R	3.8-0.1R	3.8-0.1R
	8	q_a	2928	2908	2801	2803	2726	2737	2677	2212	1859
		F	3.9-0.4R	3.9-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.2-0.2R	4.3-0.2R
	12	q_a	2623	2509	2424	2360	2308	2267	2233	2204	1859
		F	4.6-0.7R	4.7-0.6R	4.9-0.6R	5-0.6R	5.1-0.5R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R
	18	q_a	2411	2321	2064	2039	2020	1855	1858	1860	1741
	F	5.1-0.9R	5.2-0.8R	5.8-1R	5.8-0.9R	5.8-0.8R	6.3-0.9R	6.2-0.8R	6.2-0.7R	6.5-0.7R	
	24	q_a	2147	2098	1842	1848	1667	1692	1554	1586	1476
		F	5.8-1.4R	5.8-1.2R	6.5-1.4R	6.4-1.2R	7-1.3R	6.9-1.1R	7.4-1.2R	7.2-1.1R	7.6-1R
	36	q_a	2147	1834	1590	1634	1464	1305	1382	1246	1133
		F	5.8-1.4R	6.7-1.7R	7.6-2.1R	7.3-1.6R	8-1.8R	8.8-2.1R	8.3-1.6R	8.9-1.8R	9.4-1.7R
	48	q_a	1822	1834	1590	1398	1209	1305	1164	1047	951
		F	7-2.3R	6.7-1.7R	7.6-2.1R	8.6-2.4R	9.5-2.7R	8.8-2.1R	9.5-2.2R	10.2-2.5R	10.8-2.2R
	60	q_a	1822	1526	1590	1398	1209	1062	945	1047	951
		F	7-2.3R	8.2-2.9R	7.6-2.1R	8.6-2.4R	9.5-2.7R	10.4-3R	11.3-3.3R	10.2-2.5R	10.8-2.2R
36/4	4	q_a	2753	2742	2734	2728	2723	2720	2677	2212	1859
		F	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3-0.1R	3.3+0R
	6	q_a	2602	2577	2558	2544	2533	2525	2517	2212	1859
		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	2458	2455	2386	2395	2344	2357	2317	2212	1859
		F	4-0.4R	4-0.3R	4.2-0.3R	4.1-0.2R	4.3-0.2R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R
	12	q_a	2218	2146	2093	2053	2021	1996	1974	1957	1859
		F	4.7-0.6R	4.9-0.6R	5-0.5R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R	5.3-0.4R	5.4-0.3R
	18	q_a	2038	1989	1786	1782	1779	1646	1657	1667	1568
	F	5.3-0.9R	5.4-0.8R	6.1-1R	6-0.8R	6-0.7R	6.5-0.8R	6.4-0.7R	6.3-0.6R	6.7-0.6R	
	24	q_a	1801	1792	1586	1612	1463	1499	1383	1422	1328
		F	6.2-1.4R	6.1-1.1R	6.9-1.4R	6.7-1.1R	7.4-1.2R	7.2-1R	7.7-1.1R	7.5-1R	7.9-0.9R
	36	q_a	1801	1549	1349	1415	1273	1142	1226	1113	1010
		F	6.2-1.4R	7.2-1.8R	8.3-2.1R	7.7-1.6R	8.5-1.8R	9.4-2R	8.7-1.5R	9.4-1.7R	9.9-1.6R
	48	q_a	1491	1549	1349	1188	1025	1142	1016	914	828
		F	7.8-2.5R	7.2-1.8R	8.3-2.1R	9.3-2.4R	10.3-2.8R	9.4-2R	10.1-2.2R	11-2.4R	11.6-2.2R
	60	q_a	1491	1252	1349	1188	1025	899	797	914	828
		F	7.8-2.5R	9.2-3.1R	8.3-2.1R	9.3-2.4R	10.3-2.8R	11.3-3.1R	12.3-3.4R	11-2.4R	11.6-2.2R

22ga. DGB-36 and DGBF-36

DeltaGrip System with Hilti High Shear Nails



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing		Span (ft)								
	(in)		4	5	6	7	8	9	10	11	12
36/9	4	q_a	1506	1479	1459	1436	1100	869	704	582	489
		F	6.9-0.9R	7.2-0.9R	7.4-0.9R	7.6-0.9R	7.7-0.8R	7.8-0.8R	7.9-0.8R	8-0.7R	8.1-0.6R
	8	q_a	1251	1218	1147	1135	1086	869	704	582	489
		F	8-1.7R	8.4-1.7R	9-1.8R	9.2-1.8R	9.7-1.8R	9.9-1.8R	10.2-1.8R	10.3-1.7R	10.5-1.5R
	12	q_a	1109	1030	973	929	895	867	704	582	489
		F	8.6-2.1R	9.3-2.4R	9.9-2.5R	10.5-2.6R	10.9-2.6R	11.4-2.7R	11.8-2.7R	12.1-2.7R	12.2-2.2R
	18	q_a	1022	954	831	802	778	682	671	582	489
	F	8.9-2.4R	9.7-2.7R	10.8-3.2R	11.3-3.2R	11.8-3.2R	12.8-3.6R	13.1-3.6R	13.5-3.5R	14-3R	
24	q_a	924	869	738	714	614	609	539	542	489	
	F	9.3-2.8R	10.1-3R	11.3-3.6R	11.8-3.7R	12.9-4.1R	13.3-4.1R	14.3-4.4R	14.6-4.3R	15.1-3.6R	
36	q_a	924	772	629	620	532	463	474	423	380	
	F	9.3-2.8R	10.6-3.5R	11.9-4.2R	12.4-4.2R	13.6-4.6R	14.8-5.2R	15-5R	16.1-5.4R	16.6-4.4R	
60	q_a	813	641	629	527	450	390	342	363	326	
	F	9.8-3.2R	11.2-4R	11.9-4.2R	13.1-4.8R	14.4-5.3R	15.6-6R	16.8-6.4R	17-6.2R	17.5-4.9R	
36/7	4	q_a	1218	1206	1197	1191	1100	869	704	582	489
		F	7.4-0.9R	7.7-0.9R	7.8-0.8R	8-0.8R	8.1-0.7R	8.2-0.7R	8.3-0.6R	8.3-0.6R	8.4-0.5R
	8	q_a	1007	998	951	952	919	869	704	582	489
		F	9-1.8R	9.4-1.8R	10-1.9R	10.2-1.7R	10.7-1.8R	10.8-1.7R	11.1-1.7R	11.2-1.6R	11.4-1.4R
	12	q_a	873	827	794	769	749	734	704	582	489
		F	9.9-2.5R	10.7-2.7R	11.4-2.8R	12-2.8R	12.5-2.8R	12.9-2.8R	13.3-2.7R	13.6-2.7R	13.7-2.2R
	18	q_a	787	753	657	648	642	583	584	582	489
	F	10.5-3R	11.4-3.1R	12.8-3.8R	13.3-3.7R	13.8-3.6R	15-4R	15.3-3.8R	15.5-3.7R	16.3-3.3R	
24	q_a	686	668	577	580	513	524	467	481	437	
	F	11.3-3.6R	12.1-3.7R	13.7-4.5R	14.2-4.3R	15.6-4.9R	15.9-4.7R	17.2-5.1R	17.4-4.8R	18.1-4.2R	
36	q_a	686	574	480	499	431	378	402	361	328	
	F	11.3-3.6R	13-4.5R	14.8-5.4R	15.3-5.1R	16.8-5.8R	18.4-6.5R	18.4-5.9R	19.8-6.5R	20.6-5.4R	
60	q_a	568	453	480	405	349	305	270	302	273	
	F	12.2-4.5R	14.2-5.6R	14.8-5.4R	16.5-6.2R	18.3-6.9R	20-7.8R	21.7-8.4R	21.4-7.7R	22.2-6.3R	
36/5	4	q_a	927	922	918	915	913	869	704	582	489
		F	7.6-0.9R	7.8-0.8R	8-0.7R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.4-0.6R	8.4-0.5R	8.5-0.5R
	8	q_a	818	815	788	789	770	773	704	582	489
		F	9.5-1.9R	9.8-1.8R	10.4-1.8R	10.6-1.7R	11.1-1.7R	11.1-1.6R	11.5-1.6R	11.5-1.4R	11.8-1.3R
	12	q_a	736	707	686	670	657	647	638	582	489
		F	10.6-2.7R	11.4-2.8R	12.1-2.8R	12.7-2.8R	13.1-2.7R	13.6-2.7R	13.9-2.6R	14.2-2.6R	14.4-2.2R
	18	q_a	677	655	585	580	577	531	533	535	489
	F	11.3-3.2R	12.2-3.3R	13.8-4R	14.3-3.8R	14.7-3.7R	16-4.1R	16.3-3.9R	16.5-3.7R	17.3-3.3R	
24	q_a	602	592	522	526	476	484	446	456	425	
	F	12.3-4R	13.1-4R	14.9-4.8R	15.4-4.6R	16.9-5.1R	17.2-4.8R	18.6-5.3R	18.6-4.9R	19.5-4.3R	
36	q_a	602	516	448	464	414	363	388	349	316	
	F	12.3-4R	14.4-5R	16.4-6R	16.7-5.6R	18.5-6.2R	20.2-7R	20.1-6.3R	21.7-6.9R	22.6-5.9R	
60	q_a	507	426	448	386	332	290	257	289	262	
	F	13.6-5.1R	15.9-6.4R	16.4-6R	18.4-6.9R	20.4-7.7R	22.4-8.7R	24.3-9.4R	23.7-8.3R	24.6-6.9R	
36/4	4	q_a	759	757	755	754	753	752	704	582	489
		F	7.8-0.8R	8-0.7R	8.2-0.7R	8.3-0.6R	8.4-0.6R	8.5-0.5R	8.5-0.5R	8.6-0.4R	8.6-0.4R
	8	q_a	685	685	668	671	658	662	652	582	489
		F	10-1.9R	10.3-1.7R	11-1.8R	11-1.6R	11.5-1.6R	11.5-1.4R	11.9-1.4R	11.9-1.3R	12.2-1.2R
	12	q_a	622	604	591	581	574	567	562	558	489
		F	11.4-2.8R	12.3-2.8R	12.9-2.8R	13.5-2.8R	13.9-2.7R	14.3-2.6R	14.7-2.5R	15-2.4R	15.1-2.1R
	18	q_a	573	561	507	507	507	471	475	478	451
	F	12.4-3.5R	13.2-3.5R	15.1-4.2R	15.5-3.9R	15.8-3.7R	17.3-4.1R	17.4-3.8R	17.6-3.6R	18.6-3.3R	
24	q_a	506	507	450	459	418	430	398	409	383	
	F	13.7-4.5R	14.5-4.4R	16.6-5.2R	16.9-4.8R	18.6-5.4R	18.7-5R	20.3-5.4R	20.2-5R	21.2-4.5R	
36	q_a	506	437	382	403	364	319	348	312	283	
	F	13.7-4.5R	16.1-5.6R	18.5-6.7R	18.6-6R	20.6-6.7R	22.7-7.6R	22.2-6.6R	24-7.2R	25.1-6.3R	
60	q_a	417	346	382	328	282	246	217	253	228	
	F	15.5-6R	18.4-7.5R	18.5-6.7R	20.9-7.7R	23.2-8.7R	25.6-9.7R	27.8-10.5R	26.7-9R	27.8-7.6R	

20ga. DGB-36 and DGBF-36

DeltaGrip System with Hitli High Shear Nails

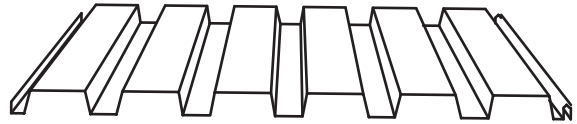


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)																	
Fasteners	DeltaGrip™ Spacing (in)	4		5		6		7		8		9		10		11		12	
		36/9	4	q_a	1869	1845	1828	1815	1446	1142	925	765	643						
	F		5.6-0.6R	5.8-0.6R	5.9-0.6R	6-0.5R	6.1-0.5R	6.2-0.5R	6.2-0.5R	6.3-0.4R	6.3-0.4R								
8	q_a		1578	1550	1473	1466	1411	1142	925	765	643								
	F		6.6-1.3R	6.9-1.2R	7.3-1.3R	7.4-1.2R	7.8-1.3R	7.9-1.2R	8.1-1.2R	8.2-1.1R	8.3-1R								
12	q_a		1399	1315	1254	1207	1170	1140	925	765	643								
	F		7.1-1.7R	7.7-1.8R	8.2-1.9R	8.5-1.9R	8.9-1.9R	9.2-1.9R	9.5-1.9R	9.7-1.9R	9.8-1.5R								
18	q_a		1286	1215	1065	1039	1018	927	921	765	643								
	F	7.5-2R	8.1-2.1R	9-2.5R	9.4-2.5R	9.7-2.4R	10.5-2.7R	10.7-2.6R	10.9-2.6R	11.4-2.2R									
24	q_a	1153	1101	956	944	823	826	734	745	643									
	F	7.9-2.3R	8.5-2.4R	9.5-2.9R	9.9-2.9R	10.8-3.2R	11-3.1R	11.8-3.4R	12-3.3R	12.5-2.8R									
36	q_a	1153	974	814	819	705	616	640	573	517									
	F	7.9-2.3R	9-2.9R	10.2-3.5R	10.5-3.4R	11.5-3.7R	12.5-4.2R	12.6-3.9R	13.5-4.3R	13.9-3.6R									
60	q_a	999	806	814	684	587	511	450	487	438									
	F	8.4-2.8R	9.7-3.5R	10.2-3.5R	11.2-4R	12.3-4.4R	13.4-5R	14.4-5.4R	14.4-5R	14.8-4.1R									
36/7	4	q_a	1505	1495	1488	1482	1446	1142	925	765	643								
		F	5.9-0.6R	6.1-0.5R	6.2-0.5R	6.3-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R	6.5-0.3R								
	8	q_a	1277	1273	1223	1228	1192	1142	925	765	643								
		F	7.3-1.3R	7.5-1.2R	8-1.3R	8-1.1R	8.4-1.2R	8.4-1.1R	8.7-1R	8.7-1R	8.9-0.9R								
	12	q_a	1115	1067	1033	1007	987	970	925	765	643								
		F	8.1-1.9R	8.7-1.9R	9.2-2R	9.6-1.9R	9.9-1.9R	10.2-1.9R	10.4-1.8R	10.7-1.7R	10.7-1.5R								
	18	q_a	1005	973	856	851	848	775	780	765	643								
	F	8.7-2.3R	9.3-2.3R	10.5-2.8R	10.8-2.7R	11.1-2.5R	12.1-2.9R	12.2-2.7R	12.3-2.5R	12.9-2.3R									
24	q_a	871	862	749	760	682	699	639	657	607									
	F	9.5-2.9R	10.1-2.9R	11.4-3.5R	11.7-3.2R	12.8-3.6R	12.9-3.4R	13.9-3.7R	13.9-3.4R	14.6-3R									
36	q_a	871	733	629	660	580	510	549	495	450									
	F	9.5-2.9R	11-3.7R	12.5-4.4R	12.7-4R	14-4.5R	15.3-5R	15.1-4.4R	16.3-4.9R	16.9-4.2R									
60	q_a	709	578	629	534	462	405	360	409	371									
	F	10.5-3.8R	12.3-4.8R	12.5-4.4R	14-5R	15.5-5.6R	17-6.3R	18.4-6.8R	17.8-6R	18.5-5R									
36/5	4	q_a	1129	1125	1122	1120	1119	1117	925	765	643								
		F	6-0.5R	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R	6.5-0.3R	6.5-0.3R	6.6-0.3R								
	8	q_a	1018	1017	991	994	975	980	925	765	643								
		F	7.6-1.3R	7.8-1.2R	8.2-1.2R	8.3-1.1R	8.6-1.1R	8.6-1R	8.9-1R	8.9-0.9R	9.1-0.8R								
	12	q_a	925	897	876	861	848	838	830	765	643								
		F	8.6-1.9R	9.2-2R	9.7-2R	10-1.9R	10.4-1.8R	10.6-1.8R	10.8-1.7R	11-1.7R	11.1-1.4R								
	18	q_a	854	834	753	752	751	697	701	705	643								
	F	9.4-2.4R	9.9-2.4R	11.2-2.9R	11.5-2.7R	11.7-2.5R	12.8-2.9R	12.8-2.6R	12.9-2.5R	13.6-2.3R									
24	q_a	758	755	671	682	621	636	588	605	566									
	F	10.3-3.2R	10.8-3.1R	12.3-3.7R	12.5-3.3R	13.8-3.8R	13.8-3.4R	14.9-3.7R	14.8-3.4R	15.6-3.1R									
36	q_a	758	656	573	601	542	492	523	480	436									
	F	10.3-3.2R	12-4R	13.8-4.8R	13.8-4.2R	15.2-4.7R	16.7-5.3R	16.3-4.6R	17.6-5.1R	18.4-4.4R									
60	q_a	631	532	573	507	442	387	344	394	357									
	F	11.7-4.3R	13.7-5.4R	13.8-4.8R	15.4-5.5R	17.1-6.1R	18.8-6.9R	20.4-7.5R	19.5-6.3R	20.4-5.4R									
36/4	4	q_a	920	918	917	916	915	915	914	765	643								
		F	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.5-0.4R	6.5-0.3R	6.5-0.3R	6.6-0.3R	6.6-0.3R	6.6-0.2R								
	8	q_a	847	849	833	837	825	829	819	765	643								
		F	8-1.3R	8.1-1.1R	8.6-1.1R	8.6-1R	8.9-1R	8.9-0.9R	9.2-0.9R	9.1-0.8R	9.3-0.7R								
	12	q_a	779	762	750	741	734	728	723	719	643								
		F	9.2-2R	9.8-1.9R	10.2-1.9R	10.6-1.8R	10.9-1.7R	11.1-1.7R	11.3-1.6R	11.5-1.5R	11.6-1.3R								
	18	q_a	722	713	652	655	657	616	622	627	596								
	F	10.1-2.6R	10.7-2.5R	12.1-2.9R	12.3-2.7R	12.5-2.5R	13.6-2.8R	13.6-2.5R	13.6-2.3R	14.4-2.2R									
24	q_a	640	647	581	596	547	564	525	542	510									
	F	11.4-3.5R	11.8-3.2R	13.5-3.8R	13.5-3.4R	14.9-3.8R	14.8-3.4R	16.1-3.7R	15.8-3.3R	16.7-3.1R									
36	q_a	640	558	492	524	476	434	466	432	396									
	F	11.4-3.5R	13.4-4.3R	15.4-5.2R	15.1-4.4R	16.8-5R	18.4-5.6R	17.8-4.7R	19.2-5.2R	20.2-4.6R									
60	q_a	522	442	492	437	382	334	296	351	317									
	F	13.3-5R	15.7-6.2R	15.4-5.2R	17.3-6R	19.3-6.7R	21.2-7.6R	23.1-8.2R	21.7-6.7R	22.7-5.8R									

18ga. DGB-36 and DGBF-36

DeltaGrip System with Hitli High Shear Nails



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners		Deltagrip™ Spacing		Span (ft)							
		(in)	4	5	6	7	8	9	10	11	12
36/9	4	q_a	2578	2561	2548	2538	2213	1749	1416	1171	984
		F	4-0.3R	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	4.3-0.2R
	8	q_a	2247	2232	2149	2151	2092	1749	1416	1171	984
		F	4.8-0.7R	4.9-0.7R	5.2-0.7R	5.2-0.6R	5.4-0.6R	5.4-0.6R	5.6-0.6R	5.6-0.5R	5.7-0.5R
	12	q_a	2008	1921	1857	1807	1768	1737	1416	1171	984
		F	5.3-1.1R	5.6-1.1R	5.9-1.1R	6.1-1.1R	6.3-1.1R	6.4-1R	6.6-1R	6.7-1R	6.7-0.8R
	18	q_a	1843	1775	1577	1559	1545	1418	1416	1171	984
	F	5.6-1.3R	6-1.3R	6.6-1.6R	6.8-1.5R	7-1.4R	7.5-1.6R	7.6-1.5R	7.6-1.4R	8-1.3R	
	24	q_a	1638	1602	1405	1411	1272	1292	1186	1171	984
		F	6.1-1.7R	6.4-1.6R	7.1-2R	7.3-1.8R	7.9-2.1R	8-1.9R	8.6-2.1R	8.6-1.9R	9-1.7R
	36	q_a	1638	1397	1210	1246	1105	971	1030	927	841
		F	6.1-1.7R	6.9-2.1R	7.8-2.5R	7.9-2.3R	8.6-2.5R	9.4-2.9R	9.3-2.5R	9.9-2.8R	10.3-2.4R
	60	q_a	1385	1159	1210	1039	896	784	695	774	701
		F	6.7-2.2R	7.7-2.7R	7.8-2.5R	8.7-2.9R	9.5-3.2R	10.4-3.6R	11.2-3.9R	10.8-3.4R	11.2-2.9R
36/7	4	q_a	2059	2052	2047	2043	2041	1749	1416	1171	984
		F	4.1-0.3R	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	4.4-0.1R
	8	q_a	1821	1826	1775	1786	1749	1749	1416	1171	984
		F	5.2-0.7R	5.2-0.6R	5.5-0.6R	5.5-0.5R	5.7-0.5R	5.7-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R
	12	q_a	1622	1575	1541	1516	1496	1480	1416	1171	984
		F	5.9-1.1R	6.2-1.1R	6.4-1.1R	6.6-1R	6.8-1R	6.9-0.9R	7-0.9R	7.1-0.8R	7.2-0.7R
	18	q_a	1471	1446	1293	1299	1303	1204	1218	1171	984
	F	6.4-1.4R	6.7-1.4R	7.5-1.7R	7.6-1.5R	7.7-1.4R	8.4-1.6R	8.4-1.4R	8.4-1.3R	8.8-1.2R	
	24	q_a	1270	1284	1130	1162	1052	1087	1002	1037	968
		F	7.1-2R	7.4-1.8R	8.3-2.2R	8.3-1.9R	9.1-2.2R	9.1-1.9R	9.8-2.1R	9.6-1.9R	10.1-1.7R
	36	q_a	1270	1083	938	1004	901	815	878	810	744
		F	7.1-2R	8.3-2.5R	9.4-3R	9.2-2.5R	10.2-2.8R	11.1-3.2R	10.7-2.6R	11.6-2.9R	12.1-2.6R
	60	q_a	1009	840	938	824	723	637	568	664	604
		F	8.2-2.9R	9.6-3.6R	9.4-3R	10.5-3.4R	11.6-3.8R	12.7-4.3R	13.8-4.6R	13-3.8R	13.6-3.3R
36/5	4	q_a	1518	1515	1513	1512	1511	1510	1416	1171	984
		F	4.2-0.3R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	8	q_a	1411	1414	1390	1396	1378	1384	1370	1171	984
		F	5.3-0.7R	5.4-0.6R	5.6-0.6R	5.6-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R	5.9-0.4R	6-0.4R
	12	q_a	1307	1282	1264	1250	1239	1231	1223	1171	984
		F	6.1-1.1R	6.4-1.1R	6.7-1R	6.9-1R	7-0.9R	7.1-0.9R	7.2-0.8R	7.3-0.8R	7.4-0.7R
	18	q_a	1218	1205	1108	1114	1119	1052	1063	1071	984
	F	6.8-1.5R	7-1.4R	7.9-1.6R	8-1.5R	8-1.3R	8.7-1.5R	8.7-1.3R	8.7-1.2R	9.1-1.2R	
	24	q_a	1087	1100	994	1019	939	968	904	932	879
		F	7.7-2.1R	7.8-1.8R	8.9-2.2R	8.8-1.9R	9.7-2.1R	9.5-1.9R	10.3-2R	10.1-1.8R	10.6-1.7R
	36	q_a	1087	955	845	901	820	751	805	749	699
		F	7.7-2.1R	8.9-2.6R	10.2-3.1R	9.9-2.5R	10.9-2.9R	11.9-3.2R	11.4-2.6R	12.3-2.9R	12.9-2.6R
	60	q_a	892	759	845	754	678	613	547	639	586
		F	9-3.2R	10.6-4R	10.2-3.1R	11.4-3.6R	12.7-4R	13.9-4.5R	15.1-4.9R	14-3.9R	14.7-3.4R
36/4	4	q_a	1228	1227	1227	1226	1226	1225	1225	1171	984
		F	4.3-0.2R	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
	8	q_a	1163	1167	1153	1157	1147	1151	1143	1147	984
		F	5.5-0.6R	5.5-0.5R	5.8-0.5R	5.7-0.4R	5.9-0.4R	5.9-0.4R	6-0.4R	6-0.3R	6.1-0.3R
	12	q_a	1091	1078	1068	1061	1055	1050	1047	1043	984
		F	6.4-1.1R	6.7-1R	6.9-0.9R	7.1-0.9R	7.2-0.8R	7.3-0.8R	7.4-0.7R	7.5-0.7R	7.6-0.6R
	18	q_a	1025	1022	953	961	968	919	929	938	900
	F	7.2-1.5R	7.4-1.3R	8.4-1.6R	8.4-1.4R	8.4-1.2R	9.1-1.4R	9-1.2R	9-1.1R	9.5-1.1R	
	24	q_a	919	940	860	886	825	852	803	828	787
		F	8.3-2.2R	8.4-1.8R	9.5-2.2R	9.3-1.8R	10.3-2.1R	10-1.8R	10.8-1.9R	10.6-1.7R	11.2-1.6R
	36	q_a	919	818	730	787	723	666	718	672	630
		F	8.3-2.2R	9.8-2.7R	11.2-3.3R	10.6-2.5R	11.8-2.9R	12.9-3.2R	12.2-2.6R	13.1-2.8R	13.9-2.6R
	60	q_a	746	638	730	656	593	540	484	572	533
		F	10.2-3.5R	12-4.4R	11.2-3.3R	12.6-3.8R	14-4.2R	15.4-4.7R	16.8-5.2R	15.2-3.9R	16-3.5R

16ga. DGB-36 and DGBF-36

DeltaGrip System with Hilti High Shear Nails



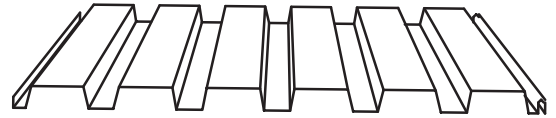
Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing		Span (ft)								
	(in)		4	5	6	7	8	9	10	11	12
36/9	4	q_a	3138	3127	3119	3113	3108	3105	2677	2212	1859
		F	3-0.2R	3.1-0.2R	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
	8	q_a	2825	2823	2750	2760	2706	2720	2677	2212	1859
		F	3.7-0.5R	3.7-0.4R	3.9-0.4R	3.9-0.4R	4-0.4R	4-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R
	12	q_a	2562	2485	2429	2385	2351	2323	2300	2212	1859
		F	4.1-0.7R	4.3-0.7R	4.5-0.7R	4.6-0.7R	4.7-0.6R	4.8-0.6R	4.9-0.6R	4.9-0.6R	5-0.5R
	18	q_a	2362	2310	2083	2080	2078	1928	1942	1953	1842
	F	4.4-0.9R	4.6-0.9R	5.1-1.1R	5.2-1R	5.3-0.9R	5.7-1R	5.7-0.9R	5.7-0.9R	6-0.8R	
24	q_a	2093	2087	1854	1886	1716	1759	1627	1672	1565	
	F	4.9-1.2R	5-1.1R	5.6-1.4R	5.6-1.2R	6.1-1.4R	6.1-1.2R	6.5-1.3R	6.5-1.2R	6.8-1.1R	
36	q_a	2093	1807	1579	1658	1495	1358	1443	1334	1220	
	F	4.9-1.2R	5.6-1.5R	6.2-1.8R	6.2-1.6R	6.8-1.8R	7.3-2R	7.1-1.7R	7.6-1.9R	8-1.6R	
60	q_a	1735	1461	1579	1395	1230	1081	962	1103	1001	
	F	5.5-1.7R	6.3-2.2R	6.2-1.8R	6.9-2.1R	7.6-2.4R	8.3-2.7R	9-2.9R	8.5-2.4R	8.8-2.1R	
36/7	4	q_a	2487	2483	2480	2478	2476	2475	2474	2212	1859
		F	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	3.2-0.1R	3.2-0.1R
	8	q_a	2280	2290	2248	2261	2230	2243	2218	2212	1859
		F	3.9-0.4R	3.9-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R	4.1-0.3R	4.2-0.2R	4.2-0.2R	4.3-0.2R
	12	q_a	2077	2040	2012	1992	1975	1963	1952	1943	1859
		F	4.5-0.7R	4.7-0.7R	4.8-0.6R	4.9-0.6R	5-0.5R	5.1-0.5R	5.1-0.5R	5.2-0.5R	5.2-0.4R
	18	q_a	1907	1895	1726	1745	1758	1644	1667	1685	1599
	F	4.9-0.9R	5.1-0.9R	5.7-1R	5.7-0.9R	5.7-0.8R	6.2-0.9R	6.1-0.8R	6.1-0.7R	6.4-0.7R	
24	q_a	1658	1700	1519	1575	1442	1497	1392	1444	1358	
	F	5.6-1.4R	5.6-1.2R	6.4-1.4R	6.3-1.2R	6.9-1.3R	6.7-1.2R	7.2-1.3R	7.1-1.1R	7.4-1R	
36	q_a	1658	1436	1257	1366	1236	1126	1223	1134	1056	
	F	5.6-1.4R	6.5-1.7R	7.4-2.1R	7.1-1.6R	7.8-1.8R	8.5-2.1R	8-1.7R	8.6-1.8R	9.1-1.7R	
60	q_a	1298	1088	1257	1112	995	899	805	951	880	
	F	6.7-2.2R	7.8-2.7R	7.4-2.1R	8.2-2.4R	9.1-2.7R	10-3R	10.8-3.3R	9.9-2.5R	10.4-2.2R	
36/5	4	q_a	1812	1811	1810	1809	1808	1808	1808	1807	1807
		F	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3-0.1R
	8	q_a	1725	1730	1711	1718	1704	1710	1699	1704	1695
		F	4-0.4R	4-0.3R	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
	12	q_a	1628	1610	1597	1587	1579	1573	1567	1563	1559
		F	4.6-0.7R	4.8-0.6R	4.9-0.6R	5-0.5R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R	5.3-0.4R
	18	q_a	1537	1532	1436	1448	1457	1389	1404	1416	1363
	F	5.2-0.9R	5.3-0.8R	5.9-1R	5.9-0.9R	5.9-0.8R	6.4-0.8R	6.3-0.7R	6.2-0.7R	6.6-0.7R	
24	q_a	1388	1417	1303	1342	1254	1293	1222	1259	1199	
	F	5.9-1.4R	5.9-1.2R	6.7-1.4R	6.5-1.1R	7.2-1.3R	7-1.1R	7.5-1.2R	7.3-1R	7.7-1R	
36	q_a	1388	1242	1115	1198	1104	1020	1098	1030	968	
	F	5.9-1.4R	6.9-1.8R	7.9-2.1R	7.5-1.6R	8.2-1.8R	9-2R	8.4-1.6R	9.1-1.8R	9.6-1.6R	
60	q_a	1135	977	1115	1005	911	831	763	880	822	
	F	7.3-2.4R	8.6-3R	7.9-2.1R	8.8-2.4R	9.8-2.7R	10.7-3.1R	11.7-3.3R	10.5-2.5R	11.1-2.2R	
36/4	4	q_a	1460	1460	1459	1459	1459	1459	1458	1458	1458
		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	3.3-0.1R	3.3+0R	3.3+0R
	8	q_a	1409	1413	1403	1407	1399	1403	1397	1401	1396
		F	4.1-0.3R	4-0.3R	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R
	12	q_a	1347	1338	1331	1326	1322	1319	1317	1315	1313
		F	4.8-0.6R	5-0.6R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R
	18	q_a	1284	1285	1220	1232	1241	1194	1207	1216	1180
	F	5.4-0.9R	5.5-0.8R	6.2-0.9R	6.1-0.8R	6.1-0.7R	6.6-0.8R	6.5-0.7R	6.4-0.6R	6.8-0.6R	
24	q_a	1171	1202	1120	1155	1091	1124	1072	1102	1058	
	F	6.4-1.4R	6.2-1.1R	7.1-1.3R	6.8-1.1R	7.5-1.2R	7.3-1R	7.8-1.1R	7.6-0.9R	8-0.9R	
36	q_a	1171	1063	965	1042	970	904	972	919	870	
	F	6.4-1.4R	7.4-1.8R	8.5-2.1R	7.9-1.6R	8.7-1.8R	9.6-2R	8.9-1.5R	9.6-1.6R	10.1-1.6R	
60	q_a	956	830	965	878	802	736	679	789	741	
	F	8.1-2.6R	9.6-3.2R	8.5-2.1R	9.6-2.4R	10.6-2.8R	11.7-3.1R	12.7-3.4R	11.2-2.4R	11.9-2.2R	

22ga.

DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK61075

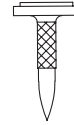


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™											
Fasteners	Spacing (in)	4	5	6	7	8	9	10	11	12	
36/9	4	q_a F	1535 7.9-0.8R	1507 8.1-0.7R	1486 8.2-0.6R	1436 8.3-0.6R	1100 8.4-0.5R	869 8.5-0.5R	704 8.5-0.5R	582 8.6-0.4R	489 8.6-0.4R
	8	q_a F	1273 10.2-1.9R	1238 10.4-1.7R	1164 11.1-1.7R	1152 11.2-1.5R	1100 11.6-1.5R	869 11.6-1.4R	704 12-1.4R	582 12-1.3R	489 12.3-1.1R
	12	q_a F	1128 11.7-2.8R	1047 12.5-2.8R	987 13.2-2.8R	942 13.7-2.7R	906 14.1-2.6R	869 14.5-2.6R	704 14.9-2.4R	582 15.1-2.4R	489 15.3-2R
	18	q_a F	1041 12.7-3.5R	969 13.5-3.5R	844 15.4-4.2R	814 15.8-3.9R	785 16.1-3.7R	688 17.6-4.1R	676 17.8-3.8R	582 17.9-3.6R	489 18.9-3.3R
	24	q_a F	942 14.1-4.6R	884 14.9-4.4R	749 17-5.3R	723 17.3-4.8R	621 19.1-5.4R	615 19.1-5R	545 20.8-5.4R	547 20.6-4.9R	489 21.7-4.5R
	36	q_a F	942 14.1-4.6R	785 16.7-5.8R	639 19.2-6.9R	629 19.1-6.1R	539 21.2-6.8R	469 23.4-7.7R	479 22.8-6.6R	427 24.7-7.3R	384 25.9-6.4R
	60	q_a F	831 16.1-6.3R	654 19.1-7.9R	639 19.2-6.9R	535 21.6-8R	457 24-8.9R	396 26.5-10R	348 28.9-10.8R	368 27.5-9.2R	330 28.7-7.8R
36/7	4	q_a F	1242 8.2-0.6R	1229 8.4-0.6R	1220 8.5-0.5R	1213 8.6-0.4R	1100 8.6-0.4R	869 8.7-0.4R	704 8.7-0.3R	582 8.8-0.3R	489 8.8-0.3R
	8	q_a F	1024 11.1-1.7R	1014 11.2-1.5R	965 11.9-1.5R	966 11.8-1.3R	931 12.3-1.3R	869 12.2-1.1R	704 12.6-1.1R	582 12.5-1R	489 12.8-0.9R
	12	q_a F	887 13.2-2.8R	839 13.9-2.7R	804 14.5-2.6R	778 15-2.5R	758 15.4-2.3R	742 15.7-2.2R	704 16-2.1R	582 16.2-2R	489 16.3-1.7R
	18	q_a F	800 14.7-3.8R	764 15.4-3.5R	665 17.7-4.2R	656 17.8-3.8R	649 18-3.4R	589 19.7-3.8R	590 19.6-3.4R	582 19.6-3.2R	489 20.8-3R
	24	q_a F	697 17-5.3R	678 17.4-4.7R	585 20-5.6R	587 19.9-4.9R	518 22.1-5.5R	528 21.7-4.8R	471 23.7-5.2R	484 23.1-4.6R	440 24.6-4.3R
	36	q_a F	697 17-5.3R	583 20.2-6.6R	486 23.4-8R	504 22.7-6.5R	436 25.3-7.3R	382 27.9-8.2R	405 26.6-6.7R	364 28.8-7.4R	330 30.5-6.7R
	60	q_a F	579 20.5-8R	461 24.5-10R	486 23.4-8R	410 26.6-9.1R	354 29.7-10.3R	309 32.9-11.5R	274 36-12.5R	305 33.1-9.9R	276 34.9-8.7R
36/5	4	q_a F	947 8.4-0.6R	942 8.5-0.5R	938 8.6-0.4R	935 8.7-0.4R	932 8.7-0.4R	869 8.8-0.3R	704 8.8-0.3R	582 8.8-0.3R	489 8.8-0.2R
	8	q_a F	834 11.5-1.6R	830 11.5-1.4R	801 12.2-1.4R	803 12.1-1.2R	782 12.6-1.1R	786 12.5-1R	704 12.8-1R	582 12.7-0.9R	489 13-0.8R
	12	q_a F	749 13.8-2.7R	719 14.6-2.6R	697 15.1-2.5R	680 15.5-2.3R	666 15.9-2.1R	656 16.2-2R	647 16.4-1.9R	582 16.6-1.8R	489 16.7-1.6R
	18	q_a F	689 15.7-3.8R	666 16.2-3.4R	594 18.6-4.1R	589 18.7-3.6R	584 18.7-3.2R	538 20.6-3.6R	540 20.4-3.2R	541 20.3-2.9R	489 21.6-2.8R
	24	q_a F	613 18.4-5.5R	602 18.5-4.7R	530 21.4-5.7R	533 21-4.8R	482 23.4-5.4R	490 22.8-4.6R	451 24.9-5R	461 24.2-4.4R	428 25.8-4.2R
	36	q_a F	613 18.4-5.5R	525 21.9-6.9R	456 25.5-8.3R	471 24.3-6.5R	418 27.1-7.3R	367 30-8.3R	391 28.2-6.6R	352 30.6-7.3R	319 32.5-6.7R
	60	q_a F	517 22.7-8.8R	434 27.4-11R	456 25.5-8.3R	391 29-9.5R	336 32.5-10.7R	294 36-12R	260 39.4-13.1R	292 35.6-9.9R	264 37.7-8.9R
36/4	4	q_a F	776 8.5-0.5R	774 8.6-0.4R	772 8.7-0.4R	770 8.7-0.3R	769 8.8-0.3R	768 8.8-0.3R	704 8.9-0.2R	582 8.9-0.2R	489 8.9-0.2R
	8	q_a F	699 11.9-1.5R	699 11.8-1.2R	681 12.5-1.2R	683 12.4-1R	670 12.8-1R	674 12.7-0.9R	663 13.1-0.8R	582 12.9-0.7R	489 13.2-0.7R
	12	q_a F	633 14.6-2.6R	614 15.2-2.4R	601 15.7-2.2R	590 16.1-2.1R	582 16.4-1.9R	576 16.7-1.8R	570 16.9-1.7R	565 17-1.6R	489 17.2-1.4R
	18	q_a F	583 16.7-3.7R	570 17.2-3.3R	514 19.8-3.9R	514 19.7-3.4R	514 19.6-2.9R	477 21.5-3.3R	481 21.2-2.9R	484 21-2.6R	456 22.4-2.6R
	24	q_a F	515 20.1-5.6R	515 19.9-4.6R	457 23-5.5R	466 22.4-4.5R	424 24.9-5.1R	435 24.1-4.3R	402 26.3-4.7R	414 25.4-4R	387 27.1-3.9R
	36	q_a F	515 20.1-5.6R	444 24.1-7.1R	388 28.1-8.5R	409 26.2-6.4R	367 29.3-7.2R	321 32.4-8.1R	350 30.1-6.3R	314 32.7-6.9R	284 34.8-6.5R
	60	q_a F	424 25.8-9.7R	351 31.2-12.1R	388 28.1-8.5R	332 32-9.8R	285 35.9-11R	248 39.9-12.4R	219 43.7-13.4R	255 38.6-9.8R	230 41.1-8.9R

20_{ga.} DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK61075

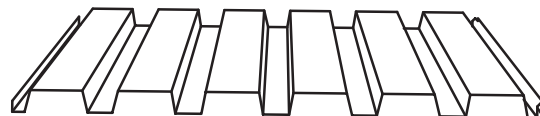


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing		Span (ft)								
	(in)		4	5	6	7	8	9	10	11	12
36/9	4	q_a	1897	1872	1854	1840	1446	1142	925	765	643
		F	6.2-0.5R	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
	8	q_a	1598	1569	1489	1482	1426	1142	925	765	643
		F	8.1-1.2R	8.2-1.1R	8.6-1.1R	8.6-0.9R	9-0.9R	8.9-0.8R	9.2-0.8R	9.2-0.7R	9.4-0.7R
	12	q_a	1417	1331	1267	1219	1181	1142	925	765	643
		F	9.4-2R	9.9-1.9R	10.4-1.9R	10.7-1.8R	11-1.7R	11.2-1.6R	11.4-1.5R	11.6-1.5R	11.7-1.3R
	18	q_a	1302	1229	1077	1049	1028	936	925	765	643
	F	10.4-2.6R	10.9-2.5R	12.3-2.9R	12.5-2.7R	12.7-2.4R	13.8-2.7R	13.8-2.5R	13.8-2.3R	14.6-2.2R	
24	q_a	1169	1115	968	954	830	832	739	749	643	
	F	11.7-3.5R	12.1-3.2R	13.8-3.9R	13.8-3.4R	15.3-3.8R	15.1-3.4R	16.4-3.7R	16.1-3.3R	17-3.1R	
36	q_a	1169	987	823	827	711	622	644	577	521	
	F	11.7-3.5R	13.8-4.4R	15.9-5.3R	15.5-4.5R	17.2-5R	18.9-5.6R	18.2-4.7R	19.7-5.2R	20.7-4.6R	
60	q_a	1014	818	823	692	593	516	455	491	442	
	F	13.7-5.2R	16.3-6.5R	15.9-5.3R	17.9-6.1R	19.9-6.9R	21.9-7.7R	23.9-8.4R	22.3-6.7R	23.4-5.9R	
36/7	4	q_a	1528	1517	1510	1504	1446	1142	925	765	643
		F	6.4-0.4R	6.5-0.3R	6.6-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R
	8	q_a	1293	1288	1237	1241	1205	1142	925	765	643
		F	8.6-1.1R	8.6-0.9R	9.1-0.9R	9-0.8R	9.4-0.8R	9.3-0.7R	9.6-0.6R	9.5-0.6R	9.7-0.5R
	12	q_a	1128	1079	1043	1016	995	979	925	765	643
		F	10.4-1.9R	10.9-1.8R	11.2-1.6R	11.5-1.5R	11.7-1.4R	11.9-1.3R	12.1-1.2R	12.2-1.2R	12.3-1R
	18	q_a	1017	983	864	859	855	781	786	765	643
	F	11.7-2.6R	12.1-2.3R	13.8-2.8R	13.8-2.4R	13.8-2.2R	15.1-2.4R	15-2.1R	14.9-1.9R	15.8-1.9R	
24	q_a	881	871	756	767	687	704	644	662	610	
	F	13.8-3.9R	13.8-3.3R	15.9-3.9R	15.5-3.2R	17.3-3.7R	16.8-3.1R	18.2-3.4R	17.7-2.9R	18.8-2.8R	
36	q_a	881	741	636	666	584	514	552	498	452	
	F	13.8-3.9R	16.4-4.8R	19-5.8R	17.9-4.5R	20-5.1R	22.1-5.7R	20.7-4.5R	22.4-5R	23.8-4.6R	
60	q_a	718	585	636	539	466	409	363	412	373	
	F	17.2-6.4R	20.6-8R	19-5.8R	21.5-6.7R	24-7.5R	26.6-8.5R	29.1-9.2R	26.1-6.9R	27.7-6.2R	
36/5	4	q_a	1148	1144	1141	1138	1137	1135	925	765	643
		F	6.5-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.1R	6.8-0.1R
	8	q_a	1033	1032	1004	1008	987	992	925	765	643
		F	8.9-1R	8.8-0.8R	9.3-0.8R	9.2-0.7R	9.5-0.7R	9.4-0.6R	9.7-0.6R	9.6-0.5R	9.8-0.5R
	12	q_a	937	908	887	870	857	847	838	765	643
		F	10.8-1.8R	11.2-1.6R	11.6-1.5R	11.8-1.4R	12-1.3R	12.2-1.2R	12.3-1.1R	12.5-1R	12.5-0.9R
	18	q_a	865	845	762	760	758	703	708	712	643
	F	12.3-2.5R	12.6-2.2R	14.4-2.7R	14.4-2.3R	14.3-2R	15.6-2.2R	15.4-2R	15.3-1.8R	16.3-1.7R	
24	q_a	768	764	679	689	627	642	593	610	570	
	F	14.8-3.9R	14.6-3.2R	16.8-3.8R	16.3-3.1R	18.1-3.5R	17.5-2.9R	19-3.2R	18.3-2.7R	19.5-2.6R	
36	q_a	768	663	580	607	547	496	527	483	439	
	F	14.8-3.9R	17.6-4.9R	20.4-5.9R	19-4.4R	21.2-5R	23.4-5.6R	21.7-4.3R	23.5-4.7R	25.1-4.5R	
60	q_a	640	539	580	512	445	391	347	397	360	
	F	18.9-6.9R	22.8-8.6R	20.4-5.9R	23.2-6.8R	26-7.6R	28.8-8.6R	31.5-9.4R	27.8-6.7R	29.5-6.2R	
36/4	4	q_a	936	934	932	931	930	930	925	765	643
		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
	8	q_a	860	862	845	849	836	841	831	765	643
		F	9.1-0.9R	9-0.7R	9.5-0.7R	9.3-0.6R	9.7-0.6R	9.5-0.5R	9.8-0.5R	9.7-0.4R	9.9-0.4R
	12	q_a	789	772	760	750	743	737	732	727	643
		F	11.2-1.6R	11.7-1.5R	12-1.3R	12.2-1.2R	12.3-1.1R	12.5-1R	12.6-1R	12.7-0.9R	12.8-0.8R
	18	q_a	731	722	659	662	664	622	628	633	601
	F	13-2.4R	13.2-2.1R	15.1-2.5R	14.9-2.1R	14.8-1.8R	16.2-2R	15.9-1.7R	15.7-1.5R	16.7-1.5R	
24	q_a	648	655	587	602	552	569	530	546	514	
	F	15.9-3.9R	15.4-3R	17.8-3.6R	17.1-2.9R	19-3.2R	18.2-2.6R	19.8-2.9R	19-2.4R	20.3-2.4R	
36	q_a	648	565	497	529	480	438	470	436	398	
	F	15.9-3.9R	19-4.9R	22.1-5.8R	20.2-4.2R	22.6-4.7R	25-5.3R	22.9-4R	24.8-4.4R	26.5-4.2R	
60	q_a	529	447	497	441	384	336	298	352	319	
	F	21.2-7.3R	25.6-9.2R	22.1-5.8R	25.2-6.8R	28.3-7.6R	31.4-8.6R	34.4-9.3R	29.7-6.4R	31.7-6R	

18ga. DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK61075

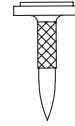


Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support Fasteners	DeltaGrip™ Spacing (in)		Span (ft)								
	4	5	6	7	8	9	10	11	12		
36/9	4	q_a	2593	2575	2562	2552	2213	1749	1416	1171	984
		F	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	8	q_a	2258	2242	2159	2161	2101	1749	1416	1171	984
		F	5.5-0.6R	5.5-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R	5.9-0.4R	6-0.4R	6-0.3R	6.1-0.3R
	12	q_a	2018	1929	1864	1814	1774	1743	1416	1171	984
		F	6.5-1R	6.8-1R	7-0.9R	7.2-0.9R	7.3-0.8R	7.4-0.7R	7.5-0.7R	7.6-0.7R	7.6-0.6R
	18	q_a	1852	1783	1583	1564	1550	1423	1416	1171	984
	F	7.3-1.5R	7.5-1.3R	8.5-1.6R	8.5-1.4R	8.5-1.2R	9.2-1.4R	9.1-1.2R	9.1-1.1R	9.6-1.1R	
	24	q_a	1646	1609	1411	1416	1276	1296	1190	1171	984
		F	8.5-2.2R	8.5-1.8R	9.7-2.2R	9.5-1.8R	10.4-2.1R	10.2-1.7R	11-1.9R	10.7-1.6R	11.3-1.6R
	36	q_a	1646	1404	1215	1250	1109	973	1033	929	843
		F	8.5-2.2R	10-2.7R	11.5-3.3R	10.9-2.5R	12-2.9R	13.2-3.2R	12.4-2.5R	13.4-2.8R	14.2-2.6R
	60	q_a	1393	1165	1215	1043	899	787	697	777	703
		F	10.5-3.6R	12.4-4.5R	11.5-3.3R	12.9-3.8R	14.4-4.3R	15.8-4.8R	17.3-5.2R	15.5-3.9R	16.4-3.5R
36/7	4	q_a	2071	2064	2059	2055	2052	1749	1416	1171	984
		F	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
	8	q_a	1830	1835	1783	1794	1757	1749	1416	1171	984
		F	5.8-0.5R	5.7-0.4R	6-0.4R	5.9-0.3R	6.1-0.3R	6-0.3R	6.2-0.3R	6.1-0.2R	6.2-0.2R
	12	q_a	1629	1581	1547	1521	1501	1485	1416	1171	984
		F	7-0.9R	7.2-0.8R	7.4-0.8R	7.5-0.7R	7.6-0.6R	7.7-0.6R	7.8-0.5R	7.8-0.5R	7.9-0.4R
	18	q_a	1477	1451	1297	1303	1308	1207	1221	1171	984
	F	8-1.4R	8.1-1.1R	9.2-1.4R	9.1-1.2R	9-1R	9.8-1.1R	9.6-1R	9.5-0.9R	10.1-0.9R	
	24	q_a	1276	1289	1134	1166	1055	1091	1005	1040	970
		F	9.7-2.2R	9.4-1.7R	10.8-2R	10.3-1.6R	11.4-1.8R	10.9-1.5R	11.9-1.6R	11.4-1.4R	12.1-1.3R
	36	q_a	1276	1087	941	1007	904	818	880	812	745
		F	9.7-2.2R	11.4-2.7R	13.2-3.3R	12.1-2.4R	13.5-2.7R	14.8-3R	13.6-2.2R	14.7-2.5R	15.7-2.4R
	60	q_a	1014	843	941	827	725	639	569	665	605
		F	12.7-4.2R	15.2-5.2R	13.2-3.3R	15-3.8R	16.7-4.3R	18.5-4.8R	20.2-5.3R	17.5-3.6R	18.6-3.4R
36/5	4	q_a	1527	1525	1523	1521	1520	1519	1416	1171	984
		F	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	4.5-0.1R
	8	q_a	1419	1422	1398	1403	1385	1392	1377	1171	984
		F	5.9-0.4R	5.8-0.3R	6.1-0.3R	6-0.3R	6.2-0.3R	6.1-0.2R	6.2-0.2R	6.1-0.2R	6.3-0.2R
	12	q_a	1313	1288	1270	1256	1245	1236	1229	1171	984
		F	7.2-0.8R	7.4-0.8R	7.6-0.7R	7.7-0.6R	7.7-0.6R	7.8-0.5R	7.9-0.5R	7.9-0.4R	7.9-0.4R
	18	q_a	1224	1211	1113	1119	1123	1056	1066	1075	984
	F	8.3-1.3R	8.4-1.1R	9.5-1.3R	9.3-1R	9.2-0.9R	10-1R	9.8-0.9R	9.7-0.8R	10.3-0.8R	
	24	q_a	1092	1105	998	1023	943	971	907	935	882
		F	10.2-2.1R	9.8-1.6R	11.2-1.9R	10.7-1.5R	11.8-1.7R	11.2-1.3R	12.2-1.5R	11.7-1.2R	12.5-1.2R
	36	q_a	1092	959	848	904	823	753	807	751	701
		F	10.2-2.1R	12.1-2.7R	14-3.2R	12.6-2.2R	14-2.5R	15.5-2.8R	14.1-2.1R	15.2-2.3R	16.3-2.2R
	60	q_a	896	762	848	756	680	615	548	641	588
		F	13.8-4.3R	16.6-5.4R	14-3.2R	15.9-3.7R	17.7-4.2R	19.6-4.7R	21.5-5.2R	18.3-3.4R	19.6-3.2R
36/4	4	q_a	1236	1235	1234	1234	1233	1233	1232	1171	984
		F	4.4-0.1R	4.4-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5+0R	4.5+0R
	8	q_a	1170	1173	1159	1164	1153	1158	1149	1154	984
		F	6-0.4R	5.9-0.3R	6.2-0.3R	6-0.2R	6.2-0.2R	6.1-0.2R	6.3-0.2R	6.2-0.2R	6.3-0.2R
	12	q_a	1097	1083	1074	1066	1060	1055	1052	1048	984
		F	7.4-0.7R	7.6-0.7R	7.7-0.6R	7.8-0.5R	7.9-0.5R	7.9-0.4R	8-0.4R	8-0.4R	8-0.3R
	18	q_a	1030	1027	957	965	972	923	933	941	904
	F	8.7-1.2R	8.6-0.9R	9.8-1.1R	9.6-0.9R	9.4-0.8R	10.3-0.9R	10-0.7R	9.8-0.6R	10.5-0.7R	
	24	q_a	924	944	863	890	828	855	805	831	789
		F	10.8-2R	10.2-1.4R	11.7-1.7R	11-1.3R	12.2-1.5R	11.6-1.2R	12.6-1.3R	12-1R	12.8-1.1R
	36	q_a	924	821	733	790	725	668	720	674	632
		F	10.8-2R	12.8-2.5R	14.9-3R	13.2-2R	14.7-2.3R	16.2-2.6R	14.6-1.8R	15.8-2R	16.9-2R
	60	q_a	749	641	733	658	595	542	485	573	534
		F	15.1-4.4R	18.3-5.5R	14.9-3R	16.9-3.5R	18.9-4R	21-4.5R	23-4.9R	19.2-3.1R	20.6-3R

16ga. DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK61075



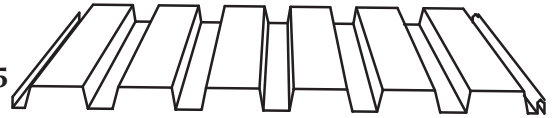
Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners		DeltaGrip™ Spacing (in)	Span (ft)								
			4	5	6	7	8	9	10	11	12
36/9	4	q_a	3255	3243	3234	3227	3221	3217	2677	2212	1859
		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
	8	q_a	2918	2914	2833	2843	2785	2799	2677	2212	1859
		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	4.4-0.2R	4.3-0.2R	4.4-0.1R
	12	q_a	2639	2556	2494	2446	2409	2379	2354	2212	1859
		F	4.8-0.6R	5-0.5R	5.1-0.5R	5.2-0.5R	5.3-0.4R	5.3-0.4R	5.4-0.4R	5.4-0.3R	5.4-0.3R
	18	q_a	2431	2372	2135	2129	2125	1968	1981	1992	1859
	F	5.5-0.9R	5.5-0.8R	6.2-0.9R	6.2-0.8R	6.1-0.7R	6.6-0.7R	6.5-0.6R	6.4-0.6R	6.8-0.6R	
	24	q_a	2154	2143	1899	1929	1752	1794	1658	1703	1592
		F	6.5-1.4R	6.3-1.1R	7.2-1.3R	6.9-1R	7.6-1.2R	7.3-1R	7.9-1.1R	7.6-0.9R	8.1-0.9R
	36	q_a	2154	1857	1619	1696	1528	1386	1471	1357	1234
		F	6.5-1.4R	7.6-1.8R	8.7-2.1R	8-1.5R	8.9-1.7R	9.7-1.9R	9-1.5R	9.7-1.6R	10.3-1.5R
	60	q_a	1790	1506	1619	1430	1254	1102	980	1119	1016
		F	8.3-2.6R	9.9-3.3R	8.7-2.1R	9.8-2.4R	10.9-2.8R	12-3.1R	13-3.4R	11.4-2.3R	12.1-2.2R
36/7	4	q_a	2582	2578	2575	2572	2570	2569	2568	2212	1859
		F	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	2357	2367	2320	2334	2300	2313	2287	2212	1859
		F	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	12	q_a	2140	2098	2068	2045	2027	2013	2001	1991	1859
		F	5.1-0.5R	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.5-0.2R
	18	q_a	1960	1945	1767	1785	1798	1678	1701	1720	1630
	F	5.9-0.8R	5.9-0.6R	6.6-0.7R	6.5-0.6R	6.4-0.5R	6.9-0.6R	6.8-0.5R	6.7-0.4R	7.1-0.4R	
	24	q_a	1702	1741	1553	1609	1470	1526	1417	1470	1380
		F	7.2-1.3R	6.8-1R	7.8-1.1R	7.4-0.9R	8.1-1R	7.7-0.8R	8.4-0.9R	8-0.7R	8.5-0.7R
	36	q_a	1702	1470	1285	1394	1259	1146	1244	1152	1072
		F	7.2-1.3R	8.5-1.7R	9.7-2R	8.7-1.3R	9.7-1.5R	10.6-1.7R	9.6-1.2R	10.4-1.3R	11.1-1.3R
	60	q_a	1334	1117	1285	1136	1015	914	817	967	890
		F	9.8-2.8R	11.7-3.5R	9.7-2R	11-2.3R	12.3-2.6R	13.5-2.9R	14.8-3.2R	12.5-2.1R	13.4-2R
36/5	4	q_a	1884	1883	1882	1881	1880	1880	1879	1879	1859
		F	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	1788	1794	1773	1780	1764	1771	1759	1765	1755
		F	4.3-0.2R	4.2-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	1683	1663	1648	1637	1628	1621	1616	1611	1606
		F	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.6-0.2R	5.6-0.2R
	18	q_a	1586	1580	1477	1489	1498	1425	1440	1453	1396
	F	6-0.7R	6-0.6R	6.8-0.7R	6.6-0.5R	6.5-0.5R	7-0.5R	6.9-0.4R	6.8-0.4R	7.2-0.4R	
	24	q_a	1429	1458	1338	1377	1284	1324	1249	1288	1225
		F	7.5-1.3R	7-0.9R	8-1.1R	7.6-0.8R	8.3-0.9R	7.9-0.7R	8.5-0.8R	8.1-0.6R	8.7-0.6R
	36	q_a	1429	1276	1142	1227	1129	1041	1120	1050	986
		F	7.5-1.3R	8.8-1.6R	10.2-1.9R	9-1.2R	10-1.4R	11-1.6R	9.9-1.1R	10.7-1.2R	11.4-1.2R
	60	q_a	1169	1004	1142	1028	931	849	778	896	836
		F	10.5-2.8R	12.6-3.5R	10.2-1.9R	11.5-2.2R	12.8-2.5R	14.2-2.8R	15.5-3R	13-1.9R	13.9-1.9R
36/4	4	q_a	1519	1519	1518	1518	1518	1517	1517	1517	1517
		F	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	1463	1467	1455	1460	1451	1456	1449	1453	1447
		F	4.3-0.2R	4.2-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	1395	1384	1377	1371	1367	1363	1360	1358	1356
		F	5.3-0.4R	5.4-0.3R	5.5-0.3R	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	1326	1327	1257	1270	1279	1228	1241	1251	1212
	F	6.2-0.6R	6.1-0.5R	6.9-0.6R	6.7-0.5R	6.6-0.4R	7.2-0.4R	7-0.4R	6.8-0.3R	7.3-0.3R	
	24	q_a	1206	1238	1151	1187	1119	1153	1098	1130	1083
		F	7.8-1.1R	7.2-0.8R	8.3-0.9R	7.7-0.7R	8.5-0.8R	8.1-0.6R	8.7-0.7R	8.3-0.5R	8.8-0.5R
	36	q_a	1206	1093	989	1068	992	923	994	938	886
		F	7.8-1.1R	9.2-1.4R	10.6-1.7R	9.3-1.1R	10.3-1.2R	11.4-1.4R	10.2-1R	11-1.1R	11.7-1.1R
	60	q_a	984	852	989	898	819	751	691	804	753
		F	11.3-2.8R	13.6-3.5R	10.6-1.7R	12.1-2R	13.5-2.3R	14.9-2.5R	16.3-2.8R	13.4-1.7R	14.4-1.7R

22ga.

DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK63075



Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support Fasteners		DeltaGrip™ Spacing (in)	Span (ft)								
			4	5	6	7	8	9	10	11	12
36/9	4	q_a	1672	1634	1606	1436	1100	869	704	582	489
		F	7.9-0.8R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.4-0.5R	8.5-0.5R	8.5-0.5R	8.6-0.4R	8.6-0.4R
	8	q_a	1376	1331	1244	1226	1100	869	704	582	489
		F	10.2-1.9R	10.4-1.7R	11.1-1.7R	11.2-1.5R	11.6-1.5R	11.6-1.4R	12-1.4R	12-1.3R	12.3-1.1R
	12	q_a	1222	1126	1056	1002	961	869	704	582	489
		F	11.7-2.8R	12.5-2.8R	13.2-2.8R	13.7-2.7R	14.1-2.6R	14.5-2.6R	14.9-2.4R	15.1-2.4R	15.3-2R
	18	q_a	1130	1045	906	858	820	718	702	582	489
	F	12.7-3.5R	13.5-3.5R	15.4-4.2R	15.8-3.9R	16.1-3.7R	17.6-4.1R	17.8-3.8R	17.9-3.6R	18.9-3.3R	
	24	q_a	1028	956	798	764	656	645	570	569	489
		F	14.1-4.6R	14.9-4.4R	17-5.3R	17.3-4.8R	19.1-5.4R	19.1-5R	20.8-5.4R	20.6-4.9R	21.7-4.5R
	36	q_a	1028	847	689	670	574	499	505	450	404
		F	14.1-4.6R	16.7-5.8R	19.2-6.9R	19.1-6.1R	21.2-6.8R	23.4-7.7R	22.8-6.6R	24.7-7.3R	25.9-6.4R
	60	q_a	915	715	689	576	492	426	373	390	349
		F	16.1-6.3R	19.1-7.9R	19.2-6.9R	21.6-8R	24-8.9R	26.5-10R	28.9-10.8R	27.5-9.2R	28.7-7.8R
36/7	4	q_a	1354	1337	1324	1315	1100	869	704	582	489
		F	8.2-0.6R	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.6-0.4R	8.7-0.4R	8.7-0.3R	8.8-0.3R	8.8-0.3R
	8	q_a	1102	1086	1028	1027	986	869	704	582	489
		F	11.1-1.7R	11.2-1.5R	11.9-1.5R	11.8-1.3R	12.3-1.3R	12.2-1.1R	12.6-1.1R	12.5-1R	12.8-0.9R
	12	q_a	952	895	853	822	798	779	704	582	489
		F	13.2-2.8R	13.9-2.7R	14.5-2.6R	15-2.5R	15.4-2.3R	15.7-2.2R	16-2.1R	16.2-2R	16.3-1.7R
	18	q_a	860	815	707	693	683	619	618	582	489
	F	14.7-3.8R	15.4-3.5R	17.7-4.2R	17.8-3.8R	18-3.4R	19.7-3.8R	19.6-3.4R	19.6-3.2R	20.8-3R	
	24	q_a	753	726	624	622	540	547	488	498	453
		F	17-5.3R	17.4-4.7R	20-5.6R	19.9-4.9R	22.1-5.5R	21.7-4.8R	23.7-5.2R	23.1-4.6R	24.6-4.3R
	36	q_a	753	628	518	531	458	402	422	379	343
		F	17-5.3R	20.2-6.6R	23.4-8R	22.7-6.5R	25.3-7.3R	27.9-8.2R	26.6-6.7R	28.8-7.4R	30.5-6.7R
	60	q_a	633	500	518	437	376	329	291	319	289
		F	20.5-8R	24.5-10R	23.4-8R	26.6-9.1R	29.7-10.3R	32.9-11.5R	36-12.5R	33.1-9.9R	34.9-8.7R
36/5	4	q_a	1043	1035	1030	1025	1022	869	704	582	489
		F	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.7-0.4R	8.7-0.4R	8.8-0.3R	8.8-0.3R	8.8-0.3R	8.8-0.2R
	8	q_a	907	899	865	865	840	843	704	582	489
		F	11.5-1.6R	11.5-1.4R	12.2-1.4R	12.1-1.2R	12.6-1.1R	12.5-1R	12.8-1R	12.7-0.9R	13-0.8R
	12	q_a	811	774	746	725	709	695	684	582	489
		F	13.8-2.7R	14.6-2.6R	15.1-2.5R	15.5-2.3R	15.9-2.1R	16.2-2R	16.4-1.9R	16.6-1.8R	16.7-1.6R
	18	q_a	745	716	635	626	620	568	569	569	489
	F	15.7-3.8R	16.2-3.4R	18.6-4.1R	18.7-3.6R	18.7-3.2R	20.6-3.6R	20.4-3.2R	20.3-2.9R	21.6-2.8R	
	24	q_a	664	647	567	568	511	518	472	485	440
		F	18.4-5.5R	18.5-4.7R	21.4-5.7R	21-4.8R	23.4-5.4R	22.8-4.6R	24.9-5R	24.2-4.4R	25.8-4.2R
	36	q_a	664	567	491	503	439	384	407	365	331
		F	18.4-5.5R	21.9-6.9R	25.5-8.3R	24.3-6.5R	27.1-7.3R	30-8.3R	28.2-6.6R	30.6-7.3R	32.5-6.7R
	60	q_a	566	469	491	415	357	312	275	305	276
		F	22.7-8.8R	27.4-11R	25.5-8.3R	29-9.5R	32.5-10.7R	36-12R	39.4-13.1R	35.6-9.9R	37.7-8.9R
36/4	4	q_a	858	854	851	849	847	846	704	582	489
		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	8.9-0.2R	8.9-0.2R	8.9-0.2R
	8	q_a	762	761	738	740	724	728	704	582	489
		F	11.9-1.5R	11.8-1.2R	12.5-1.2R	12.4-1R	12.8-1R	12.7-0.9R	13.1-0.8R	12.9-0.7R	13.2-0.7R
	12	q_a	686	662	645	632	621	613	606	582	489
		F	14.6-2.6R	15.2-2.4R	15.7-2.2R	16.1-2.1R	16.4-1.9R	16.7-1.8R	16.9-1.7R	17-1.6R	17.2-1.4R
	18	q_a	630	613	549	547	546	504	507	510	479
	F	16.7-3.7R	17.2-3.3R	19.8-3.9R	19.7-3.4R	19.6-2.9R	21.5-3.3R	21.2-2.9R	21-2.6R	22.4-2.6R	
	24	q_a	557	552	488	495	448	459	423	434	402
		F	20.1-5.6R	19.9-4.6R	23-5.5R	22.4-4.5R	24.9-5.1R	24.1-4.3R	26.3-4.7R	25.4-4R	27.1-3.9R
	36	q_a	557	478	415	435	381	333	361	323	292
		F	20.1-5.6R	24.1-7.1R	28.1-8.5R	26.2-6.4R	29.3-7.2R	32.4-8.1R	30.1-6.3R	32.7-6.9R	34.8-6.5R
	60	q_a	462	377	415	349	299	260	229	264	237
		F	25.8-9.7R	31.2-12.1R	28.1-8.5R	32-9.8R	35.9-11R	39.9-12.4R	43.7-13.4R	38.6-9.8R	41.1-8.9R

20_{ga.} DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK63075

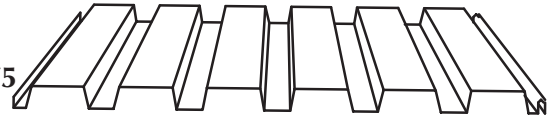


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing (in)		Span (ft)									
			4	5	6	7	8	9	10	11	12	
36/9	4	q_a	2015	1985	1962	1889	1446	1142	925	765	643	
		F	6.2-0.5R	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	
	8	q_a	1686	1650	1560	1549	1446	1142	925	765	643	
		F	8.1-1.2R	8.2-1.1R	8.6-1.1R	8.6-0.9R	9-0.9R	8.9-0.8R	9.2-0.8R	9.2-0.7R	9.4-0.7R	
	12	q_a	1495	1397	1326	1271	1228	1142	925	765	643	
		F	9.4-2R	9.9-1.9R	10.4-1.9R	10.7-1.8R	11-1.7R	11.2-1.6R	11.4-1.5R	11.6-1.5R	11.7-1.3R	
	18	q_a	1375	1291	1128	1095	1070	961	925	765	643	
F		10.4-2.6R	10.9-2.5R	12.3-2.9R	12.5-2.7R	12.7-2.4R	13.8-2.7R	13.8-2.5R	13.8-2.3R	14.6-2.2R		
24	q_a	1238	1173	1017	995	858	856	760	765	643		
	F	11.7-3.5R	12.1-3.2R	13.8-3.9R	13.8-3.4R	15.3-3.8R	15.1-3.4R	16.4-3.7R	16.1-3.3R	17-3.1R		
36	q_a	1238	1043	863	860	740	646	665	595	537		
	F	11.7-3.5R	13.8-4.4R	15.9-5.3R	15.5-4.5R	17.2-5R	18.9-5.6R	18.2-4.7R	19.7-5.2R	20.7-4.6R		
60	q_a	1081	867	863	725	621	541	476	509	458		
	F	13.7-5.2R	16.3-6.5R	15.9-5.3R	17.9-6.1R	19.9-6.9R	21.9-7.7R	23.9-8.4R	22.3-6.7R	23.4-5.9R		
36/7	4	q_a	1626	1613	1603	1596	1446	1142	925	765	643	
		F	6.4-0.4R	6.5-0.3R	6.6-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	
	8	q_a	1362	1354	1295	1299	1258	1142	925	765	643	
		F	8.6-1.1R	8.6-0.9R	9.1-0.9R	9-0.8R	9.4-0.8R	9.3-0.7R	9.6-0.6R	9.5-0.6R	9.7-0.5R	
	12	q_a	1185	1128	1087	1056	1033	1013	925	765	643	
		F	10.4-1.9R	10.9-1.8R	11.2-1.6R	11.5-1.5R	11.7-1.4R	11.9-1.3R	12.1-1.2R	12.2-1.2R	12.3-1R	
	18	q_a	1067	1027	899	891	885	807	810	765	643	
F		11.7-2.6R	12.1-2.3R	13.8-2.8R	13.8-2.4R	13.8-2.2R	15.1-2.4R	15-2.1R	14.9-1.9R	15.8-1.9R		
24	q_a	927	911	789	796	713	728	661	682	621		
	F	13.8-3.9R	13.8-3.3R	15.9-3.9R	15.5-3.2R	17.3-3.7R	16.8-3.1R	18.2-3.4R	17.7-2.9R	18.8-2.8R		
36	q_a	927	778	662	693	602	529	566	510	463		
	F	13.8-3.9R	16.4-4.8R	19-5.8R	17.9-4.5R	20-5.1R	22.1-5.7R	20.7-4.5R	22.4-5R	23.8-4.6R		
60	q_a	761	616	662	560	484	424	377	424	384		
	F	17.2-6.4R	20.6-8R	19-5.8R	21.5-6.7R	24-7.5R	26.6-8.5R	29.1-9.2R	26.1-6.9R	27.7-6.2R		
36/5	4	q_a	1229	1223	1219	1216	1214	1142	925	765	643	
		F	6.5-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.1R	6.8-0.1R	
	8	q_a	1096	1093	1061	1064	1041	1046	925	765	643	
		F	8.9-1R	8.8-0.8R	9.3-0.8R	9.2-0.7R	9.5-0.7R	9.4-0.6R	9.7-0.6R	9.6-0.5R	9.8-0.5R	
	12	q_a	990	957	931	912	897	885	874	765	643	
		F	10.8-1.8R	11.2-1.6R	11.6-1.5R	11.8-1.4R	12-1.3R	12.2-1.2R	12.3-1.1R	12.5-1R	12.5-0.9R	
	18	q_a	913	888	797	793	790	730	734	738	643	
F		12.3-2.5R	12.6-2.2R	14.4-2.7R	14.4-2.3R	14.3-2R	15.6-2.2R	15.4-2R	15.3-1.8R	16.3-1.7R		
24	q_a	811	803	710	719	652	666	615	631	589		
	F	14.8-3.9R	14.6-3.2R	16.8-3.8R	16.3-3.1R	18.1-3.5R	17.5-2.9R	19-3.2R	18.3-2.7R	19.5-2.6R		
36	q_a	811	698	608	634	570	510	546	494	448		
	F	14.8-3.9R	17.6-4.9R	20.4-5.9R	19-4.4R	21.2-5R	23.4-5.6R	21.7-4.3R	23.5-4.7R	25.1-4.5R		
60	q_a	679	571	608	535	462	405	359	408	369		
	F	18.9-6.9R	22.8-8.6R	20.4-5.9R	23.2-6.8R	26-7.6R	28.8-8.6R	31.5-9.4R	27.8-6.7R	29.5-6.2R		
36/4	4	q_a	1003	1001	999	998	997	996	925	765	643	
		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	
	8	q_a	915	916	896	900	886	890	879	765	643	
		F	9.1-0.9R	9-0.7R	9.5-0.7R	9.3-0.6R	9.7-0.6R	9.5-0.5R	9.8-0.5R	9.7-0.4R	9.9-0.4R	
	12	q_a	835	815	800	789	780	772	766	761	643	
		F	11.2-1.6R	11.7-1.5R	12-1.3R	12.2-1.2R	12.3-1.1R	12.5-1R	12.6-1R	12.7-0.9R	12.8-0.8R	
	18	q_a	772	760	690	692	694	647	653	658	623	
F		13-2.4R	13.2-2.1R	15.1-2.5R	14.9-2.1R	14.8-1.8R	16.2-2R	15.9-1.7R	15.7-1.5R	16.7-1.5R		
24	q_a	683	687	614	628	574	591	549	566	531		
	F	15.9-3.9R	15.4-3R	17.8-3.6R	17.1-2.9R	19-3.2R	18.2-2.6R	19.8-2.9R	19-2.4R	20.3-2.4R		
36	q_a	683	593	520	552	499	451	486	446	404		
	F	15.9-3.9R	19-4.9R	22.1-5.8R	20.2-4.2R	22.6-4.7R	25-5.3R	22.9-4R	24.8-4.4R	26.5-4.2R		
60	q_a	559	472	520	460	396	346	306	360	325		
	F	21.2-7.3R	25.6-9.2R	22.1-5.8R	25.2-6.8R	28.3-7.6R	31.4-8.6R	34.4-9.3R	29.7-6.4R	31.7-6R		

18ga. DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK63075



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing (in)	Span (f)									
		4	5	6	7	8	9	10	11	12	
36/9	4	q_a F	2630 4.3-0.2R	2611 4.3-0.2R	2597 4.4-0.2R	2587 4.4-0.1R	2213 4.4-0.1R	1749 4.4-0.1R	1416 4.4-0.1R	1171 4.4-0.1R	984 4.4-0.1R
	8	q_a F	2286 5.5-0.6R	2269 5.5-0.5R	2183 5.8-0.5R	2184 5.8-0.4R	2123 5.9-0.4R	1749 5.9-0.4R	1416 6-0.4R	1171 6-0.3R	984 6.1-0.3R
	12	q_a F	2041 6.5-1R	1950 6.8-1R	1883 7-0.9R	1831 7.2-0.9R	1790 7.3-0.8R	1749 7.4-0.7R	1416 7.5-0.7R	1171 7.6-0.7R	984 7.6-0.6R
	18	q_a F	1873 7.3-1.5R	1802 7.5-1.3R	1599 8.5-1.6R	1579 8.5-1.4R	1564 8.5-1.2R	1434 9.2-1.4R	1416 9.1-1.2R	1171 9.1-1.1R	984 9.6-1.1R
	24	q_a F	1666 8.5-2.2R	1626 8.5-1.8R	1425 9.7-2.2R	1429 9.5-1.8R	1287 10.4-2.1R	1307 10.2-1.7R	1199 11-1.9R	1171 10.7-1.6R	984 11.3-1.6R
	36	q_a F	1666 8.5-2.2R	1419 10-2.7R	1229 11.5-3.3R	1263 10.9-2.5R	1116 12-2.9R	980 13.2-3.2R	1039 12.4-2.5R	934 13.4-2.8R	847 14.2-2.6R
	60	q_a F	1411 10.5-3.6R	1180 12.4-4.5R	1229 11.5-3.3R	1052 12.9-3.8R	907 14.4-4.3R	794 15.8-4.8R	703 17.3-5.2R	782 15.5-3.9R	707 16.4-3.5R
36/7	4	q_a F	2101 4.4-0.2R	2094 4.4-0.1R	2088 4.4-0.1R	2085 4.4-0.1R	2082 4.4-0.1R	1749 4.5-0.1R	1416 4.5-0.1R	1171 4.5-0.1R	984 4.5-0.1R
	8	q_a F	1853 5.8-0.5R	1857 5.7-0.4R	1804 6-0.4R	1815 5.9-0.3R	1777 6.1-0.3R	1749 6-0.3R	1416 6.2-0.3R	1171 6.1-0.2R	984 6.2-0.2R
	12	q_a F	1647 7-0.9R	1598 7.2-0.8R	1562 7.4-0.8R	1536 7.5-0.7R	1515 7.6-0.6R	1498 7.7-0.6R	1416 7.8-0.5R	1171 7.8-0.5R	984 7.9-0.4R
	18	q_a F	1493 8-1.4R	1466 8.1-1.1R	1309 9.2-1.4R	1314 9.1-1.2R	1318 9-1R	1216 9.8-1.1R	1230 9.6-1R	1171 9.5-0.9R	984 10.1-0.9R
	24	q_a F	1289 9.7-2.2R	1301 9.4-1.7R	1144 10.8-2R	1175 10.3-1.6R	1063 11.4-1.8R	1098 10.9-1.5R	1012 11.9-1.6R	1047 11.4-1.4R	976 12.1-1.3R
	36	q_a F	1289 9.7-2.2R	1098 11.4-2.7R	950 13.2-3.3R	1016 12.1-2.4R	911 13.5-2.7R	824 14.8-3R	886 13.6-2.2R	817 14.7-2.5R	748 15.7-2.4R
	60	q_a F	1026 12.7-4.2R	853 15.2-5.2R	950 13.2-3.3R	834 15-3.8R	730 16.7-4.3R	643 18.5-4.8R	573 20.2-5.3R	669 17.5-3.6R	608 18.6-3.4R
36/5	4	q_a F	1551 4.4-0.1R	1548 4.4-0.1R	1546 4.4-0.1R	1545 4.4-0.1R	1544 4.5-0.1R	1543 4.5-0.1R	1416 4.5-0.1R	1171 4.5-0.1R	984 4.5-0.1R
	8	q_a F	1439 5.9-0.4R	1442 5.8-0.3R	1416 6.1-0.3R	1422 6-0.3R	1403 6.2-0.3R	1410 6.1-0.2R	1395 6.2-0.2R	1171 6.1-0.2R	984 6.3-0.2R
	12	q_a F	1330 7.2-0.8R	1304 7.4-0.8R	1285 7.6-0.7R	1271 7.7-0.6R	1259 7.7-0.6R	1250 7.8-0.5R	1242 7.9-0.5R	1171 7.9-0.4R	984 7.9-0.4R
	18	q_a F	1239 8.3-1.3R	1225 8.4-1.1R	1125 9.5-1.3R	1130 9.3-1R	1135 9.2-0.9R	1065 10-1R	1076 9.8-0.9R	1085 9.7-0.8R	984 10.3-0.8R
	24	q_a F	1105 10.2-2.1R	1117 9.8-1.6R	1008 11.2-1.9R	1033 10.7-1.5R	951 11.8-1.7R	980 11.2-1.3R	914 12.2-1.5R	942 11.7-1.2R	889 12.5-1.2R
	36	q_a F	1105 10.2-2.1R	970 12.1-2.7R	857 14-3.2R	912 12.6-2.2R	830 14-2.5R	759 15.5-2.8R	814 14.1-2.1R	757 15.2-2.3R	706 16.3-2.2R
	60	q_a F	907 13.8-4.3R	771 16.6-5.4R	857 14-3.2R	764 15.9-3.7R	686 17.7-4.2R	619 19.6-4.7R	552 21.5-5.2R	645 18.3-3.4R	590 19.6-3.2R
36/4	4	q_a F	1256 4.4-0.1R	1255 4.4-0.1R	1254 4.5-0.1R	1253 4.5-0.1R	1253 4.5-0.1R	1252 4.5-0.1R	1252 4.5-0.1R	1171 4.5+0R	984 4.5+0R
	8	q_a F	1187 6-0.4R	1190 5.9-0.3R	1175 6.2-0.3R	1180 6-0.2R	1169 6.2-0.2R	1174 6.1-0.2R	1165 6.3-0.2R	1170 6.2-0.2R	984 6.3-0.2R
	12	q_a F	1112 7.4-0.7R	1097 7.6-0.7R	1087 7.7-0.6R	1079 7.8-0.5R	1073 7.9-0.5R	1068 7.9-0.4R	1064 8-0.4R	1061 8-0.4R	984 8-0.3R
	18	q_a F	1043 8.7-1.2R	1039 8.6-0.9R	967 9.8-1.1R	976 9.6-0.9R	982 9.4-0.8R	932 10.3-0.9R	943 10-0.7R	951 9.8-0.6R	912 10.5-0.7R
	24	q_a F	934 10.8-2R	955 10.2-1.4R	872 11.7-1.7R	899 11-1.3R	836 12.2-1.5R	863 11.6-1.2R	812 12.6-1.3R	838 12-1R	796 12.8-1.1R
	36	q_a F	934 10.8-2R	830 12.8-2.5R	740 14.9-3R	797 13.2-2R	731 14.7-2.3R	673 16.2-2.6R	726 14.6-1.8R	679 15.8-2R	636 16.9-2R
	60	q_a F	758 15.1-4.4R	648 18.3-5.5R	740 14.9-3R	664 16.9-3.5R	600 18.9-4R	546 21-4.5R	487 23-4.9R	577 19.2-3.1R	537 20.6-3R

16ga. DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, SDK63075

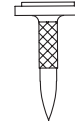


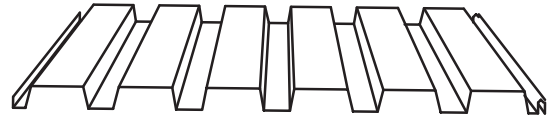
Table 4- Allowable Diaphragm Shears
(q_a), (ln plf), Flexibility Factors (F)

Support		Span (f)									
Fasteners		Spacing (in)									
		4	5	6	7	8	9	10	11	12	
36/9	4	q_a	3171	3160	3151	3145	3140	3136	2677	2212	1859
		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
	8	q_a	2851	2849	2773	2783	2728	2742	2677	2212	1859
		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	4.4-0.2R	4.3-0.2R	4.4-0.1R
	12	q_a	2584	2505	2447	2403	2367	2339	2315	2212	1859
		F	4.8-0.6R	5-0.5R	5.1-0.5R	5.2-0.5R	5.3-0.4R	5.3-0.4R	5.4-0.4R	5.4-0.3R	5.4-0.3R
	18	q_a	2381	2327	2098	2094	2092	1939	1953	1964	1851
	F	5.5-0.9R	5.5-0.8R	6.2-0.9R	6.2-0.8R	6.1-0.7R	6.6-0.7R	6.5-0.6R	6.4-0.6R	6.8-0.6R	
36/7	4	q_a	2514	2510	2507	2504	2503	2502	2500	2212	1859
		F	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	2302	2312	2268	2281	2250	2263	2238	2212	1859
		F	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	12	q_a	2095	2056	2028	2007	1990	1977	1966	1957	1859
		F	5.1-0.5R	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.5-0.2R
	18	q_a	1922	1909	1738	1756	1769	1654	1677	1695	1608
	F	5.9-0.8R	5.9-0.6R	6.6-0.7R	6.5-0.6R	6.4-0.5R	6.9-0.6R	6.8-0.5R	6.7-0.4R	7.1-0.4R	
36/5	4	q_a	1833	1831	1830	1829	1829	1828	1828	1827	1827
		F	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	1743	1748	1729	1735	1721	1727	1716	1722	1712
		F	4.3-0.2R	4.2-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	1644	1625	1611	1601	1593	1586	1581	1577	1573
		F	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.6-0.2R	5.6-0.2R
	18	q_a	1551	1546	1447	1460	1469	1399	1414	1426	1372
	F	6-0.7R	6-0.6R	6.8-0.7R	6.6-0.5R	6.5-0.5R	7-0.5R	6.9-0.4R	6.8-0.4R	7.2-0.4R	
36/4	4	q_a	1477	1476	1476	1476	1475	1475	1475	1475	1475
		F	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	1424	1428	1418	1422	1414	1418	1412	1415	1410
		F	4.3-0.2R	4.2-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	1360	1351	1344	1339	1335	1332	1329	1327	1325
		F	5.3-0.4R	5.4-0.3R	5.5-0.3R	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	1296	1297	1231	1243	1252	1204	1216	1226	1189
	F	6.2-0.6R	6.1-0.5R	6.9-0.6R	6.7-0.5R	6.6-0.4R	7.2-0.4R	7-0.4R	6.8-0.3R	7.3-0.3R	
36/3	4	q_a	1181	1212	1129	1164	1099	1132	1079	1110	1065
		F	7.8-1.1R	7.2-0.8R	8.3-0.9R	7.7-0.7R	8.5-0.8R	8.1-0.6R	8.7-0.7R	8.3-0.5R	8.8-0.5R
	8	q_a	1181	1072	972	1050	976	909	979	924	874
		F	7.8-1.1R	9.2-1.4R	10.6-1.7R	9.3-1.1R	10.3-1.2R	11.4-1.4R	10.2-1R	11-1.1R	11.7-1.1R
	12	q_a	964	836	972	884	807	740	682	794	744
		F	11.3-2.8R	13.6-3.5R	10.6-1.7R	12.1-2R	13.5-2.3R	14.9-2.5R	16.3-2.8R	13.4-1.7R	14.4-1.7R

22ga.

DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, K64062, K64075, K66062, OR K66075



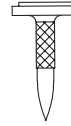
Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	Deltagrip™ Spacing (in)		Span (ft)								
			4	5	6	7	8	9	10	11	12
36/9	4	q_a	1676	1638	1610	1436	1100	869	704	582	489
		F	7.9-0.8R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.4-0.5R	8.5-0.5R	8.5-0.5R	8.6-0.4R	8.6-0.4R
	8	q_a	1380	1334	1247	1229	1100	869	704	582	489
		F	10.2-1.9R	10.4-1.7R	11.1-1.7R	11.2-1.5R	11.6-1.5R	11.6-1.4R	12-1.4R	12-1.3R	12.3-1.1R
	12	q_a	1225	1128	1058	1004	963	869	704	582	489
		F	11.7-2.8R	12.5-2.8R	13.2-2.8R	13.7-2.7R	14.1-2.6R	14.5-2.6R	14.9-2.4R	15.1-2.4R	15.3-2R
	18	q_a	1133	1047	908	859	821	719	702	582	489
	F	12.7-3.5R	13.5-3.5R	15.4-4.2R	15.8-3.9R	16.1-3.7R	17.6-4.1R	17.8-3.8R	17.9-3.6R	18.9-3.3R	
24	q_a	1031	959	800	765	657	646	571	570	489	
	F	14.1-4.6R	14.9-4.4R	17-5.3R	17.3-4.8R	19.1-5.4R	19.1-5R	20.8-5.4R	20.6-4.9R	21.7-4.5R	
36	q_a	1031	849	691	671	575	500	505	450	405	
	F	14.1-4.6R	16.7-5.8R	19.2-6.9R	19.1-6.1R	21.2-6.8R	23.4-7.7R	22.8-6.6R	24.7-7.3R	25.9-6.4R	
60	q_a	917	717	691	578	493	427	374	391	350	
	F	16.1-6.3R	19.1-7.9R	19.2-6.9R	21.6-8R	24-8.9R	26.5-10R	28.9-10.8R	27.5-9.2R	28.7-7.8R	
36/7	4	q_a	1358	1340	1328	1318	1100	869	704	582	489
		F	8.2-0.6R	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.6-0.4R	8.7-0.4R	8.7-0.3R	8.8-0.3R	8.8-0.3R
	8	q_a	1104	1089	1030	1029	988	869	704	582	489
		F	11.1-1.7R	11.2-1.5R	11.9-1.5R	11.8-1.3R	12.3-1.3R	12.2-1.1R	12.6-1.1R	12.5-1R	12.8-0.9R
	12	q_a	955	897	855	824	799	780	704	582	489
		F	13.2-2.8R	13.9-2.7R	14.5-2.6R	15-2.5R	15.4-2.3R	15.7-2.2R	16-2.1R	16.2-2R	16.3-1.7R
	18	q_a	862	816	708	695	684	620	619	582	489
	F	14.7-3.8R	15.4-3.5R	17.7-4.2R	17.8-3.8R	18-3.4R	19.7-3.8R	19.6-3.4R	19.6-3.2R	20.8-3R	
24	q_a	755	727	626	623	541	548	488	499	453	
	F	17-5.3R	17.4-4.7R	20-5.6R	19.9-4.9R	22.1-5.5R	21.7-4.8R	23.7-5.2R	23.1-4.6R	24.6-4.3R	
36	q_a	755	629	519	531	459	402	423	380	344	
	F	17-5.3R	20.2-6.6R	23.4-8R	22.7-6.5R	25.3-7.3R	27.9-8.2R	26.6-6.7R	28.8-7.4R	30.5-6.7R	
60	q_a	634	501	519	438	377	329	291	320	289	
	F	20.5-8R	24.5-10R	23.4-8R	26.6-9.1R	29.7-10.3R	32.9-11.5R	36-12.5R	33.1-9.9R	34.9-8.7R	
36/5	4	q_a	1046	1038	1033	1028	1025	869	704	582	489
		F	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.7-0.4R	8.7-0.4R	8.8-0.3R	8.8-0.3R	8.8-0.3R	8.8-0.2R
	8	q_a	909	902	867	867	842	845	704	582	489
		F	11.5-1.6R	11.5-1.4R	12.2-1.4R	12.1-1.2R	12.6-1.1R	12.5-1R	12.8-1R	12.7-0.9R	13-0.8R
	12	q_a	813	776	748	727	710	697	686	582	489
		F	13.8-2.7R	14.6-2.6R	15.1-2.5R	15.5-2.3R	15.9-2.1R	16.2-2R	16.4-1.9R	16.6-1.8R	16.7-1.6R
	18	q_a	747	717	636	628	621	569	569	570	489
	F	15.7-3.8R	16.2-3.4R	18.6-4.1R	18.7-3.6R	18.7-3.2R	20.6-3.6R	20.4-3.2R	20.3-2.9R	21.6-2.8R	
24	q_a	666	649	568	569	512	519	473	485	440	
	F	18.4-5.5R	18.5-4.7R	21.4-5.7R	21-4.8R	23.4-5.4R	22.8-4.6R	24.9-5R	24.2-4.4R	25.8-4.2R	
36	q_a	666	568	492	504	439	385	407	366	331	
	F	18.4-5.5R	21.9-6.9R	25.5-8.3R	24.3-6.5R	27.1-7.3R	30-8.3R	28.2-6.6R	30.6-7.3R	32.5-6.7R	
60	q_a	567	471	492	416	357	312	276	306	276	
	F	22.7-8.8R	27.4-11R	25.5-8.3R	29-9.5R	32.5-10.7R	36-12R	39.4-13.1R	35.6-9.9R	37.7-8.9R	
36/4	4	q_a	860	857	854	852	850	849	704	582	489
		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	8.9-0.2R	8.9-0.2R	8.9-0.2R
	8	q_a	764	763	740	742	726	730	704	582	489
		F	11.9-1.5R	11.8-1.2R	12.5-1.2R	12.4-1R	12.8-1R	12.7-0.9R	13.1-0.8R	12.9-0.7R	13.2-0.7R
	12	q_a	688	664	647	633	623	614	607	582	489
		F	14.6-2.6R	15.2-2.4R	15.7-2.2R	16.1-2.1R	16.4-1.9R	16.7-1.8R	16.9-1.7R	17-1.6R	17.2-1.4R
	18	q_a	631	615	551	548	547	505	508	511	480
	F	16.7-3.7R	17.2-3.3R	19.8-3.9R	19.7-3.4R	19.6-2.9R	21.5-3.3R	21.2-2.9R	21-2.6R	22.4-2.6R	
24	q_a	558	554	489	496	449	460	424	435	402	
	F	20.1-5.6R	19.9-4.6R	23-5.5R	22.4-4.5R	24.9-5.1R	24.1-4.3R	26.3-4.7R	25.4-4R	27.1-3.9R	
36	q_a	558	479	416	435	382	334	361	324	292	
	F	20.1-5.6R	24.1-7.1R	28.1-8.5R	26.2-6.4R	29.3-7.2R	32.4-8.1R	30.1-6.3R	32.7-6.9R	34.8-6.5R	
60	q_a	463	378	416	350	300	261	230	264	238	
	F	25.8-9.7R	31.2-12.1R	28.1-8.5R	32-9.8R	35.9-11R	39.9-12.4R	43.7-13.4R	38.6-9.8R	41.1-8.9R	

20_{ga.}

DGB-36 and DGBF-36

DeltaGrip System with Pnutek Fasteners, K64062, K64075, K66062, OR K66075



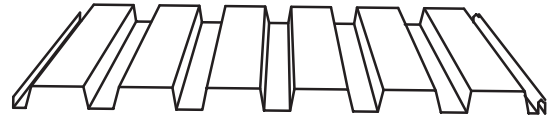
Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™											
Fasteners	Spacing (in)	4	5	6	7	8	9	10	11	12	
36/9	4	q_a F	2203 6.2-0.5R	2163 6.3-0.4R	2133 6.4-0.4R	1889 6.5-0.3R	1446 6.5-0.3R	1142 6.6-0.3R	925 6.6-0.3R	765 6.6-0.2R	643 6.6-0.2R
	8	q_a F	1828 8.1-1.2R	1778 8.2-1.1R	1672 8.6-1.1R	1655 8.6-0.9R	1446 9-0.9R	1142 8.9-0.8R	925 9.2-0.8R	765 9.2-0.7R	643 9.4-0.7R
	12	q_a F	1620 9.4-2R	1504 9.9-1.9R	1419 10.4-1.9R	1354 10.7-1.8R	1303 11-1.7R	1142 11.2-1.6R	925 11.4-1.5R	765 11.6-1.5R	643 11.7-1.3R
	18	q_a F	1494 10.4-2.6R	1392 10.9-2.5R	1212 12.3-2.9R	1170 12.5-2.7R	1137 12.7-2.4R	1001 13.8-2.7R	925 13.8-2.5R	765 13.8-2.3R	643 14.6-2.2R
	24	q_a F	1352 11.7-3.5R	1270 12.1-3.2R	1087 13.8-3.9R	1050 13.8-3.4R	904 15.3-3.8R	896 15.1-3.4R	795 16.4-3.7R	765 16.1-3.3R	643 17-3.1R
	36	q_a F	1352 11.7-3.5R	1135 13.8-4.4R	929 15.9-5.3R	915 15.5-4.5R	786 17.2-5R	686 18.9-5.6R	700 18.2-4.7R	626 19.7-5.2R	564 20.7-4.6R
	60	q_a F	1191 13.7-5.2R	949 16.3-6.5R	929 15.9-5.3R	780 17.9-6.1R	668 19.9-6.9R	581 21.9-7.7R	511 23.9-8.4R	540 22.3-6.7R	485 23.4-5.9R
36/7	4	q_a F	1782 6.4-0.4R	1764 6.5-0.3R	1751 6.6-0.3R	1741 6.6-0.3R	1446 6.6-0.2R	1142 6.7-0.2R	925 6.7-0.2R	765 6.7-0.2R	643 6.7-0.2R
	8	q_a F	1470 8.6-1.1R	1456 8.6-0.9R	1386 9.1-0.9R	1387 9-0.8R	1338 9.4-0.8R	1142 9.3-0.7R	925 9.6-0.6R	765 9.5-0.6R	643 9.7-0.5R
	12	q_a F	1274 10.4-1.9R	1205 10.9-1.8R	1156 11.2-1.6R	1119 11.5-1.5R	1090 11.7-1.4R	1067 11.9-1.3R	925 12.1-1.2R	765 12.2-1.2R	643 12.3-1R
	18	q_a F	1149 11.7-2.6R	1097 12.1-2.3R	956 13.8-2.8R	943 13.8-2.4R	933 13.8-2.2R	848 15.1-2.4R	849 15-2.1R	765 14.9-1.9R	643 15.8-1.9R
	24	q_a F	1001 13.8-3.9R	975 13.8-3.3R	841 15.9-3.9R	844 15.5-3.2R	750 17.3-3.7R	766 16.8-3.1R	683 18.2-3.4R	702 17.7-2.9R	638 18.8-2.8R
	36	q_a F	1001 13.8-3.9R	837 16.4-4.8R	704 19-5.8R	731 17.9-4.5R	632 20-5.1R	555 22.1-5.7R	589 20.7-4.5R	530 22.4-5R	481 23.8-4.6R
	60	q_a F	831 17.2-6.4R	668 20.6-8R	704 19-5.8R	595 21.5-6.7R	514 24-7.5R	450 26.6-8.5R	399 29.1-9.2R	444 26.1-6.9R	402 27.7-6.2R
36/5	4	q_a F	1359 6.5-0.3R	1351 6.6-0.3R	1345 6.6-0.2R	1341 6.7-0.2R	1338 6.7-0.2R	1142 6.7-0.2R	925 6.7-0.2R	765 6.7-0.1R	643 6.8-0.1R
	8	q_a F	1197 8.9-1R	1191 8.8-0.8R	1151 9.3-0.8R	1153 9.2-0.7R	1124 9.5-0.7R	1129 9.4-0.6R	925 9.7-0.6R	765 9.6-0.5R	643 9.8-0.5R
	12	q_a F	1075 10.8-1.8R	1033 11.2-1.6R	1001 11.6-1.5R	977 11.8-1.4R	958 12-1.3R	942 12.2-1.2R	925 12.3-1.1R	765 12.5-1R	643 12.5-0.9R
	18	q_a F	989 12.3-2.5R	956 12.6-2.2R	853 14.4-2.7R	846 14.4-2.3R	840 14.3-2R	773 15.6-2.2R	776 15.4-2R	765 15.3-1.8R	643 16.3-1.7R
	24	q_a F	880 14.8-3.9R	864 14.6-3.2R	761 16.8-3.8R	766 16.3-3.1R	693 18.1-3.5R	705 17.5-2.9R	649 19-3.2R	663 18.3-2.7R	618 19.5-2.6R
	36	q_a F	880 14.8-3.9R	754 17.6-4.9R	655 20.4-5.9R	677 19-4.4R	607 21.2-5R	533 23.4-5.6R	569 21.7-4.3R	512 23.5-4.7R	464 25.1-4.5R
	60	q_a F	742 18.9-6.9R	623 22.8-8.6R	655 20.4-5.9R	567 23.2-6.8R	489 26-7.6R	428 28.8-8.6R	380 31.5-9.4R	426 27.8-6.7R	385 29.5-6.2R
36/4	4	q_a F	1113 6.6-0.3R	1109 6.6-0.2R	1107 6.7-0.2R	1105 6.7-0.2R	1103 6.7-0.2R	1102 6.7-0.1R	925 6.8-0.1R	765 6.8-0.1R	643 6.8-0.1R
	8	q_a F	1003 9.1-0.9R	1003 9-0.7R	977 9.5-0.7R	981 9.3-0.6R	962 9.7-0.6R	967 9.5-0.5R	925 9.8-0.5R	765 9.7-0.4R	643 9.9-0.4R
	12	q_a F	909 11.2-1.6R	882 11.7-1.5R	863 12-1.3R	848 12.2-1.2R	836 12.3-1.1R	827 12.5-1R	819 12.6-1R	765 12.7-0.9R	643 12.8-0.8R
	18	q_a F	836 13-2.4R	819 13.2-2.1R	739 15.1-2.5R	739 14.9-2.1R	739 14.8-1.8R	686 16.2-2R	691 15.9-1.7R	696 15.7-1.5R	643 16.7-1.5R
	24	q_a F	739 15.9-3.9R	739 15.4-3R	656 17.8-3.6R	669 17.1-2.9R	609 19-3.2R	625 18.2-2.6R	578 19.8-2.9R	595 19-2.4R	557 20.3-2.4R
	36	q_a F	739 15.9-3.9R	638 19-4.9R	557 22.1-5.8R	587 20.2-4.2R	529 22.6-4.7R	468 25-5.3R	510 22.9-4R	458 24.8-4.4R	415 26.5-4.2R
	60	q_a F	609 21.2-7.3R	510 25.6-9.2R	557 22.1-5.8R	483 25.2-6.8R	415 28.3-7.6R	363 31.4-8.6R	320 34.4-9.3R	372 29.7-6.4R	336 31.7-6R

18ga.

DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, K64062, K64075, K66062, OR K66075



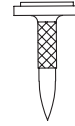
Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support		Span (ft)									
Fasteners		Spacing (in)									
		4	5	6	7	8	9	10	11	12	
36/9	4	q_a	3159	3123	3097	2890	2213	1749	1416	1171	984
		F	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	8	q_a	2682	2642	2516	2508	2213	1749	1416	1171	984
		F	5.5-0.6R	5.5-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R	5.9-0.4R	6-0.4R	6-0.3R	6.1-0.3R
	12	q_a	2381	2246	2147	2071	2011	1749	1416	1171	984
		F	6.5-1R	6.8-1R	7-0.9R	7.2-0.9R	7.3-0.8R	7.4-0.7R	7.5-0.7R	7.6-0.7R	7.6-0.6R
	18	q_a	2186	2074	1822	1782	1751	1597	1416	1171	984
	F	7.3-1.5R	7.5-1.3R	8.5-1.6R	8.5-1.4R	8.5-1.2R	9.2-1.4R	9.1-1.2R	9.1-1.1R	9.6-1.1R	
	24	q_a	1956	1877	1633	1618	1445	1456	1297	1171	984
		F	8.5-2.2R	8.5-1.8R	9.7-2.2R	9.5-1.8R	10.4-2.1R	10.2-1.7R	11-1.9R	10.7-1.6R	11.3-1.6R
	36	q_a	1956	1655	1414	1432	1236	1083	1129	1014	918
		F	8.5-2.2R	10-2.7R	11.5-3.3R	10.9-2.5R	12-2.9R	13.2-3.2R	12.4-2.5R	13.4-2.8R	14.2-2.6R
	60	q_a	1687	1389	1414	1192	1026	897	793	861	778
		F	10.5-3.6R	12.4-4.5R	11.5-3.3R	12.9-3.8R	14.4-4.3R	15.8-4.8R	17.3-5.2R	15.5-3.9R	16.4-3.5R
36/7	4	q_a	2539	2524	2514	2506	2213	1749	1416	1171	984
		F	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
	8	q_a	2172	2169	2089	2098	2041	1749	1416	1171	984
		F	5.8-0.5R	5.7-0.4R	6-0.4R	5.9-0.3R	6.1-0.3R	6-0.3R	6.2-0.3R	6.1-0.2R	6.2-0.2R
	12	q_a	1904	1828	1773	1731	1699	1673	1416	1171	984
		F	7-0.9R	7.2-0.8R	7.4-0.8R	7.5-0.7R	7.6-0.6R	7.7-0.6R	7.8-0.5R	7.8-0.5R	7.9-0.4R
	18	q_a	1717	1667	1471	1466	1463	1339	1350	1171	984
	F	8-1.4R	8.1-1.1R	9.2-1.4R	9.1-1.2R	9-1R	9.8-1.1R	9.6-1R	9.5-0.9R	10.1-0.9R	
	24	q_a	1485	1477	1286	1309	1176	1207	1106	1139	984
		F	9.7-2.2R	9.4-1.7R	10.8-2R	10.3-1.6R	11.4-1.8R	10.9-1.5R	11.9-1.6R	11.4-1.4R	12.1-1.3R
	36	q_a	1485	1253	1078	1134	1012	896	967	873	794
		F	9.7-2.2R	11.4-2.7R	13.2-3.3R	12.1-2.4R	13.5-2.7R	14.8-3R	13.6-2.2R	14.7-2.5R	15.7-2.4R
	60	q_a	1203	995	1078	931	806	709	631	720	654
		F	12.7-4.2R	15.2-5.2R	13.2-3.3R	15-3.8R	16.7-4.3R	18.5-4.8R	20.2-5.3R	17.5-3.6R	18.6-3.4R
36/5	4	q_a	1898	1892	1888	1885	1883	1749	1416	1171	984
		F	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	4.5-0.1R
	8	q_a	1722	1722	1681	1687	1657	1665	1416	1171	984
		F	5.9-0.4R	5.8-0.3R	6.1-0.3R	6-0.3R	6.2-0.3R	6.1-0.2R	6.2-0.2R	6.1-0.2R	6.3-0.2R
	12	q_a	1570	1527	1495	1470	1451	1435	1416	1171	984
		F	7.2-0.8R	7.4-0.8R	7.6-0.7R	7.7-0.6R	7.7-0.6R	7.8-0.5R	7.9-0.5R	7.9-0.4R	7.9-0.4R
	18	q_a	1451	1423	1289	1288	1288	1198	1208	1171	984
	F	8.3-1.3R	8.4-1.1R	9.5-1.3R	9.3-1R	9.2-0.9R	10-1R	9.8-0.9R	9.7-0.8R	10.3-0.8R	
	24	q_a	1289	1289	1149	1171	1068	1095	1015	1044	978
		F	10.2-2.1R	9.8-1.6R	11.2-1.9R	10.7-1.5R	11.8-1.7R	11.2-1.3R	12.2-1.5R	11.7-1.2R	12.5-1.2R
	36	q_a	1289	1118	979	1031	931	847	901	834	772
		F	10.2-2.1R	12.1-2.7R	14-3.2R	12.6-2.2R	14-2.5R	15.5-2.8R	14.1-2.1R	15.2-2.3R	16.3-2.2R
	60	q_a	1069	903	979	867	773	679	605	696	632
		F	13.8-4.3R	16.6-5.4R	14-3.2R	15.9-3.7R	17.7-4.2R	19.6-4.7R	21.5-5.2R	18.3-3.4R	19.6-3.2R
36/4	4	q_a	1544	1542	1540	1538	1537	1536	1416	1171	984
		F	4.4-0.1R	4.4-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5-0.1R	4.5+0R	4.5+0R
	8	q_a	1431	1434	1409	1415	1397	1404	1389	1171	984
		F	6-0.4R	5.9-0.3R	6.2-0.3R	6-0.2R	6.2-0.2R	6.1-0.2R	6.3-0.2R	6.2-0.2R	6.3-0.2R
	12	q_a	1320	1295	1277	1263	1252	1243	1235	1171	984
		F	7.4-0.7R	7.6-0.7R	7.7-0.6R	7.8-0.5R	7.9-0.5R	7.9-0.4R	8-0.4R	8-0.4R	8-0.3R
	18	q_a	1227	1214	1114	1121	1126	1057	1068	1078	984
	F	8.7-1.2R	8.6-0.9R	9.8-1.1R	9.6-0.9R	9.4-0.8R	10.3-0.9R	10-0.7R	9.8-0.6R	10.5-0.7R	
	24	q_a	1089	1104	995	1023	941	970	905	934	881
		F	10.8-2R	10.2-1.4R	11.7-1.7R	11-1.3R	12.2-1.5R	11.6-1.2R	12.6-1.3R	12-1R	12.8-1.1R
	36	q_a	1089	954	842	900	818	748	804	747	697
		F	10.8-2R	12.8-2.5R	14.9-3R	13.2-2R	14.7-2.3R	16.2-2.6R	14.6-1.8R	15.8-2R	16.9-2R
	60	q_a	886	752	842	749	673	590	524	623	565
		F	15.1-4.4R	18.3-5.5R	14.9-3R	16.9-3.5R	18.9-4R	21-4.5R	23-4.9R	19.2-3.1R	20.6-3R

16ga.

DGB-36 and DGBF-36

DeltaGrip System with Pneutek Fasteners, K64062, K64075, K66062, OR K66075

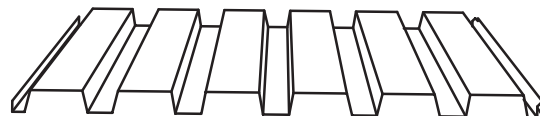


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™											
Fasteners	Spacing (in)	4	5	6	7	8	9	10	11	12	
36/9	4	q_a	4025	3997	3978	3963	3951	3304	2677	2212	1859
		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
	8	q_a	3509	3485	3357	3361	3269	3282	2677	2212	1859
		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	4.4-0.2R	4.3-0.2R	4.4-0.1R
	12	q_a	3137	3001	2900	2824	2763	2714	2673	2212	1859
		F	4.8-0.6R	5-0.5R	5.1-0.5R	5.2-0.5R	5.3-0.4R	5.3-0.4R	5.4-0.4R	5.4-0.3R	5.4-0.3R
	18	q_a	2879	2773	2464	2436	2414	2216	2221	2212	1859
	F	5.5-0.9R	5.5-0.8R	6.2-0.9R	6.2-0.8R	6.1-0.7R	6.6-0.7R	6.5-0.6R	6.4-0.6R	6.8-0.6R	
	24	q_a	2558	2502	2195	2204	1988	2019	1854	1894	1762
		F	6.5-1.4R	6.3-1.1R	7.2-1.3R	6.9-1R	7.6-1.2R	7.3-1R	7.9-1.1R	7.6-0.9R	8.1-0.9R
	36	q_a	2558	2182	1890	1946	1743	1535	1629	1467	1332
		F	6.5-1.4R	7.6-1.8R	8.7-2.1R	8-1.5R	8.9-1.7R	9.7-1.9R	9-1.5R	9.7-1.6R	10.3-1.5R
	60	q_a	2163	1810	1890	1641	1417	1243	1104	1228	1114
		F	8.3-2.6R	9.9-3.3R	8.7-2.1R	9.8-2.4R	10.9-2.8R	12-3.1R	13-3.4R	11.4-2.3R	12.1-2.2R
36/7	4	q_a	3213	3203	3195	3190	3186	3182	2677	2212	1859
		F	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	2844	2851	2773	2789	2733	2751	2677	2212	1859
		F	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	12	q_a	2533	2460	2408	2368	2337	2312	2292	2212	1859
		F	5.1-0.5R	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.5-0.2R
	18	q_a	2297	2259	2020	2030	2037	1881	1903	1921	1807
	F	5.9-0.8R	5.9-0.6R	6.6-0.7R	6.5-0.6R	6.4-0.5R	6.9-0.6R	6.8-0.5R	6.7-0.4R	7.1-0.4R	
	24	q_a	1985	2006	1766	1816	1644	1700	1567	1621	1513
		F	7.2-1.3R	6.8-1R	7.8-1.1R	7.4-0.9R	8.1-1R	7.7-0.8R	8.4-0.9R	8-0.7R	8.5-0.7R
	36	q_a	1985	1692	1465	1569	1408	1274	1373	1266	1172
		F	7.2-1.3R	8.5-1.7R	9.7-2R	8.7-1.3R	9.7-1.5R	10.6-1.7R	9.6-1.2R	10.4-1.3R	11.1-1.3R
	60	q_a	1576	1311	1465	1287	1139	1004	896	1047	953
		F	9.8-2.8R	11.7-3.5R	9.7-2R	11-2.3R	12.3-2.6R	13.5-2.9R	14.8-3.2R	12.5-2.1R	13.4-2R
36/5	4	q_a	2369	2365	2362	2360	2358	2357	2356	2212	1859
		F	3.2-0.1R	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	2203	2208	2171	2180	2152	2162	2140	2149	1859
		F	4.3-0.2R	4.2-0.2R	4.4-0.2R	4.3-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	2040	2002	1974	1953	1936	1922	1911	1902	1859
		F	5.2-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R	5.5-0.3R	5.5-0.3R	5.5-0.2R	5.6-0.2R	5.6-0.2R
	18	q_a	1902	1882	1732	1741	1748	1643	1660	1674	1595
	F	6-0.7R	6-0.6R	6.8-0.7R	6.6-0.5R	6.5-0.5R	7-0.5R	6.9-0.4R	6.8-0.4R	7.2-0.4R	
	24	q_a	1697	1718	1552	1593	1468	1512	1413	1457	1374
		F	7.5-1.3R	7-0.9R	8-1.1R	7.6-0.8R	8.3-0.9R	7.9-0.7R	8.5-0.8R	8.1-0.6R	8.7-0.6R
	36	q_a	1697	1492	1320	1407	1282	1173	1258	1170	1093
		F	7.5-1.3R	8.8-1.6R	10.2-1.9R	9-1.2R	10-1.4R	11-1.6R	9.9-1.1R	10.7-1.2R	11.4-1.2R
	60	q_a	1393	1185	1320	1177	1059	960	864	998	926
		F	10.5-2.8R	12.6-3.5R	10.2-1.9R	11.5-2.2R	12.8-2.5R	14.2-2.8R	15.5-3R	13-1.9R	13.9-1.9R
36/4	4	q_a	1917	1915	1914	1913	1913	1912	1912	1911	1859
		F	3.3-0.1R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R	3.3+0R
	8	q_a	1815	1821	1799	1806	1790	1797	1785	1791	1781
		F	4.3-0.2R	4.2-0.1R	4.4-0.1R	4.3-0.1R	4.4-0.1R	4.4-0.1R	4.5-0.1R	4.4-0.1R	4.5-0.1R
	12	q_a	1704	1683	1668	1657	1648	1640	1635	1630	1625
		F	5.3-0.4R	5.4-0.3R	5.5-0.3R	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	1601	1596	1488	1502	1512	1436	1452	1465	1407
	F	6.2-0.6R	6.1-0.5R	6.9-0.6R	6.7-0.5R	6.6-0.4R	7.2-0.4R	7-0.4R	6.8-0.3R	7.3-0.3R	
	24	q_a	1436	1468	1343	1385	1289	1331	1254	1294	1230
		F	7.8-1.1R	7.2-0.8R	8.3-0.9R	7.7-0.7R	8.5-0.8R	8.1-0.6R	8.7-0.7R	8.3-0.5R	8.8-0.5R
	36	q_a	1436	1278	1141	1230	1129	1040	1122	1050	985
		F	7.8-1.1R	9.2-1.4R	10.6-1.7R	9.3-1.1R	10.3-1.2R	11.4-1.4R	10.2-1R	11-1.1R	11.7-1.1R
	60	q_a	1164	997	1141	1025	927	844	765	893	833
		F	11.3-2.8R	13.6-3.5R	10.6-1.7R	12.1-2R	13.5-2.3R	14.9-2.5R	16.3-2.8R	13.4-1.7R	14.4-1.7R

22ga. DGB-36 and DGBF-36

DeltaGrip System with Buildex Pins

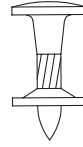


Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support Fasteners	DeltaGrip™		Span (ft)								
	Spacing (in)	(in)	4	5	6	7	8	9	10	11	12
36/9	4	q_a	1500	1473	1454	1436	1100	869	704	582	489
		F	7.7-0.8R	7.9-0.8R	8.1-0.7R	8.2-0.7R	8.3-0.6R	8.4-0.6R	8.5-0.5R	8.5-0.5R	8.5-0.4R
	8	q_a	1246	1214	1143	1132	1083	869	704	582	489
		F	9.7-1.9R	10-1.7R	10.7-1.8R	10.8-1.6R	11.3-1.6R	11.3-1.5R	11.7-1.5R	11.7-1.4R	12-1.2R
	12	q_a	1105	1027	970	927	892	865	704	582	489
		F	11-2.7R	11.8-2.8R	12.5-2.8R	13.1-2.8R	13.5-2.7R	13.9-2.7R	14.3-2.6R	14.6-2.5R	14.7-2.1R
	18	q_a	1018	950	828	800	777	681	670	582	489
	F	11.8-3.4R	12.7-3.4R	14.4-4.1R	14.9-3.9R	15.2-3.7R	16.6-4.1R	16.8-3.9R	17-3.7R	17.9-3.3R	
	24	q_a	920	866	736	712	613	608	538	541	489
		F	13-4.2R	13.8-4.2R	15.7-5R	16.1-4.7R	17.7-5.3R	17.9-4.9R	19.4-5.3R	19.4-5R	20.3-4.4R
	36	q_a	920	770	627	619	530	462	473	422	379
		F	13-4.2R	15.2-5.3R	17.4-6.4R	17.6-5.8R	19.5-6.5R	21.4-7.3R	21.1-6.4R	22.8-7.1R	23.8-6.1R
	60	q_a	809	638	627	525	448	389	341	362	325
		F	14.5-5.6R	17-6.9R	17.4-6.4R	19.5-7.3R	21.7-8.2R	23.8-9.2R	25.9-9.9R	25.1-8.7R	26.1-7.3R
36/7	4	q_a	1213	1201	1192	1186	1100	869	704	582	489
		F	8.1-0.7R	8.3-0.6R	8.4-0.6R	8.5-0.5R	8.5-0.5R	8.6-0.4R	8.7-0.4R	8.7-0.4R	8.7-0.3R
	8	q_a	1004	995	948	949	916	869	704	582	489
		F	10.7-1.8R	10.8-1.6R	11.5-1.6R	11.5-1.4R	12-1.4R	12-1.2R	12.4-1.2R	12.3-1.1R	12.6-1R
	12	q_a	870	825	792	767	747	732	704	582	489
		F	12.5-2.8R	13.3-2.8R	13.9-2.7R	14.4-2.6R	14.9-2.5R	15.2-2.4R	15.5-2.3R	15.7-2.2R	15.9-1.9R
	18	q_a	784	750	655	646	640	582	583	582	489
	F	13.8-3.7R	14.6-3.5R	16.7-4.2R	17-3.9R	17.2-3.6R	18.8-4R	18.8-3.6R	18.9-3.4R	20-3.2R	
	24	q_a	683	666	575	578	512	523	467	480	436
		F	15.7-5R	16.2-4.6R	18.7-5.5R	18.7-4.9R	20.8-5.5R	20.6-4.9R	22.4-5.4R	22-4.8R	23.3-4.4R
	36	q_a	683	572	478	498	430	377	401	361	327
		F	15.7-5R	18.6-6.3R	21.4-7.5R	21.1-6.4R	23.4-7.2R	25.8-8.1R	24.9-6.8R	26.9-7.4R	28.4-6.6R
	60	q_a	566	451	478	404	348	304	270	301	272
		F	18.4-7.2R	21.9-9R	21.4-7.5R	24.3-8.7R	27.1-9.7R	29.9-10.9R	32.7-11.8R	30.6-9.6R	32.1-8.3R
36/5	4	q_a	923	918	914	911	909	869	704	582	489
		F	8.2-0.6R	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.6-0.4R	8.7-0.4R	8.7-0.3R	8.8-0.3R	8.8-0.3R
	8	q_a	815	811	785	786	767	771	704	582	489
		F	11.1-1.7R	11.2-1.5R	11.9-1.5R	11.8-1.3R	12.3-1.3R	12.2-1.1R	12.6-1.1R	12.5-1R	12.8-0.9R
	12	q_a	733	705	684	668	655	645	636	582	489
		F	13.2-2.8R	13.9-2.7R	14.6-2.6R	15-2.5R	15.4-2.3R	15.7-2.2R	16-2.1R	16.2-2R	16.3-1.7R
	18	q_a	675	653	584	579	575	530	532	533	489
	F	14.8-3.8R	15.4-3.5R	17.7-4.2R	17.9-3.8R	18-3.4R	19.7-3.8R	19.6-3.4R	19.6-3.2R	20.8-3R	
	24	q_a	600	590	520	524	474	483	445	455	424
		F	17-5.3R	17.4-4.7R	20.1-5.6R	19.9-4.9R	22.1-5.5R	21.8-4.8R	23.7-5.2R	23.2-4.6R	24.6-4.3R
	36	q_a	600	514	447	463	413	363	388	348	316
		F	17-5.3R	20.2-6.6R	23.5-8R	22.7-6.5R	25.3-7.3R	27.9-8.2R	26.6-6.7R	28.8-7.4R	30.5-6.7R
	60	q_a	505	424	447	385	331	290	256	289	261
		F	20.5-8R	24.6-10.1R	23.5-8R	26.6-9.2R	29.7-10.3R	32.9-11.5R	36-12.5R	33.1-9.9R	34.9-8.7R
36/4	4	q_a	755	753	751	750	749	748	704	582	489
		F	8.4-0.6R	8.5-0.5R	8.6-0.4R	8.7-0.4R	8.7-0.3R	8.8-0.3R	8.8-0.3R	8.8-0.3R	8.8-0.2R
	8	q_a	682	682	666	668	656	659	650	582	489
		F	11.5-1.6R	11.6-1.3R	12.2-1.3R	12.1-1.1R	12.6-1.1R	12.5-1R	12.9-1R	12.8-0.8R	13-0.8R
	12	q_a	619	602	589	579	572	565	560	556	489
		F	14-2.7R	14.7-2.6R	15.2-2.4R	15.7-2.2R	16-2.1R	16.3-2R	16.5-1.8R	16.7-1.7R	16.8-1.5R
	18	q_a	570	559	505	506	506	470	474	477	450
	F	15.9-3.8R	16.4-3.4R	18.9-4.1R	18.9-3.6R	18.9-3.2R	20.8-3.6R	20.6-3.2R	20.4-2.9R	21.8-2.8R	
	24	q_a	504	505	449	458	417	429	397	408	382
		F	18.7-5.5R	18.8-4.7R	21.7-5.6R	21.3-4.7R	23.7-5.3R	23.1-4.5R	25.2-5R	24.4-4.3R	26-4.1R
	36	q_a	504	436	381	402	363	318	348	312	282
		F	18.7-5.5R	22.4-6.9R	26-8.3R	24.6-6.5R	27.5-7.3R	30.5-8.3R	28.6-6.6R	31-7.2R	33-6.6R
	60	q_a	415	345	381	328	281	245	216	252	228
		F	23.3-9R	28.1-11.2R	26-8.3R	29.6-9.6R	33.1-10.8R	36.8-12.1R	40.3-13.2R	36.2-9.9R	38.4-8.9R

20_{ga.} DGB-36 and DGBF-36

DeltaGrip System with Buildex Pins



Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support		Span (ft)																	
Fasteners	DeltaGrip™ Spacing (in)	4		5		6		7		8		9		10		11		12	
		36/9	4	q_a	1817	1795	1779	1768	1446	1142	925	765	643						
	F		6.1-0.5R	6.2-0.5R	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								
8	q_a		1539	1514	1441	1435	1384	1142	925	765	643								
	F		7.8-1.3R	7.9-1.1R	8.4-1.2R	8.4-1R	8.8-1R	8.8-0.9R	9-0.9R	9-0.8R	9.2-0.8R								
12	q_a		1365	1286	1228	1184	1149	1120	925	765	643								
	F		8.9-2R	9.5-2R	9.9-1.9R	10.3-1.9R	10.6-1.8R	10.9-1.7R	11.1-1.6R	11.3-1.6R	11.4-1.4R								
18	q_a		1254	1188	1043	1019	1000	911	906	765	643								
	F	9.7-2.5R	10.3-2.4R	11.6-2.9R	11.9-2.7R	12.1-2.5R	13.2-2.8R	13.2-2.6R	13.3-2.4R	14-2.3R									
36/7	4	q_a	1461	1452	1446	1441	1437	1142	925	765	643								
		F	6.3-0.4R	6.4-0.4R	6.5-0.3R	6.6-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R								
	8	q_a	1246	1243	1196	1201	1168	1142	925	765	643								
		F	8.4-1.2R	8.4-1R	8.9-1R	8.9-0.8R	9.2-0.8R	9.1-0.7R	9.4-0.7R	9.3-0.6R	9.5-0.6R								
	12	q_a	1090	1046	1013	989	970	954	925	765	643								
		F	9.9-1.9R	10.5-1.8R	10.9-1.8R	11.2-1.7R	11.4-1.5R	11.6-1.5R	11.8-1.4R	12-1.3R	12-1.1R								
	18	q_a	983	953	840	837	834	763	769	765	643								
	F	11.1-2.6R	11.6-2.4R	13.2-2.9R	13.3-2.6R	13.3-2.3R	14.6-2.6R	14.5-2.3R	14.4-2.1R	15.3-2R									
36/5	4	q_a	1094	1091	1088	1086	1085	1083	925	765	643								
		F	6.4-0.4R	6.5-0.3R	6.6-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R								
	8	q_a	990	990	965	969	951	955	925	765	643								
		F	8.6-1.1R	8.6-0.9R	9.1-0.9R	9-0.8R	9.4-0.7R	9.3-0.7R	9.6-0.6R	9.5-0.6R	9.7-0.5R								
	12	q_a	901	875	856	842	830	821	813	765	643								
		F	10.4-1.9R	10.9-1.8R	11.2-1.6R	11.5-1.5R	11.8-1.4R	11.9-1.3R	12.1-1.2R	12.2-1.2R	12.3-1R								
	18	q_a	833	815	737	737	736	684	689	693	643								
	F	11.8-2.6R	12.1-2.3R	13.8-2.8R	13.8-2.4R	13.8-2.2R	15.1-2.4R	15-2.1R	14.9-1.9R	15.8-1.9R									
36/4	4	q_a	891	889	888	887	886	886	885	765	643								
		F	6.5-0.3R	6.6-0.3R	6.6-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.2R	6.7-0.1R	6.8-0.1R								
	8	q_a	823	825	810	814	803	807	798	765	643								
		F	8.9-1R	8.9-0.8R	9.3-0.8R	9.2-0.7R	9.6-0.6R	9.4-0.6R	9.7-0.5R	9.6-0.5R	9.8-0.5R								
	12	q_a	758	743	732	724	717	712	708	704	643								
		F	10.9-1.8R	11.3-1.6R	11.7-1.5R	11.9-1.4R	12.1-1.3R	12.3-1.2R	12.4-1.1R	12.5-1R	12.6-0.9R								
	18	q_a	704	696	638	641	644	604	610	616	585								
	F	12.5-2.5R	12.7-2.2R	14.6-2.6R	14.5-2.2R	14.4-2R	15.7-2.2R	15.5-1.9R	15.3-1.7R	16.4-1.7R									

18ga.

DGB-36 and DGBF-36

DeltaGrip System with Buildex Pins

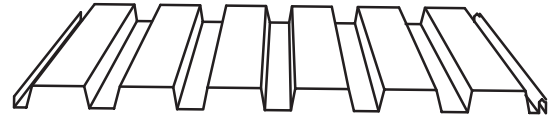
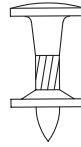


Table 6- Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	DeltaGrip™ Spacing (in)	Span (ft)									
		4	5	6	7	8	9	10	11	12	
36/9	4	q_a F	2372 4.2-0.2R	2359 4.3-0.2R	2350 4.3-0.2R	2343 4.3-0.2R	2213 4.4-0.1R	1749 4.4-0.1R	1416 4.4-0.1R	1171 4.4-0.1R	984 4.4-0.1R
	8	q_a F	2090 5.4-0.7R	2081 5.4-0.5R	2012 5.7-0.6R	2017 5.7-0.5R	1967 5.9-0.5R	1749 5.8-0.4R	1416 6-0.4R	1171 5.9-0.4R	984 6-0.3R
	12	q_a F	1876 6.3-1.1R	1804 6.6-1R	1750 6.8-1R	1709 7-0.9R	1677 7.1-0.9R	1650 7.2-0.8R	1416 7.3-0.8R	1171 7.4-0.7R	984 7.5-0.6R
	18	q_a F	1724 7-1.5R	1669 7.2-1.4R	1490 8.1-1.6R	1478 8.2-1.4R	1469 8.2-1.3R	1353 8.9-1.4R	1359 8.9-1.3R	1171 8.8-1.2R	984 9.3-1.1R
	24	q_a F	1529 8-2.1R	1506 8.1-1.8R	1326 9.2-2.2R	1338 9-1.9R	1209 10-2.1R	1233 9.8-1.8R	1134 10.5-2R	1161 10.3-1.7R	984 10.9-1.7R
	36	q_a F	1529 8-2.1R	1309 9.3-2.7R	1137 10.7-3.2R	1179 10.2-2.6R	1058 11.3-2.9R	933 12.4-3.2R	998 11.8-2.6R	898 12.7-2.9R	815 13.4-2.6R
	60	q_a F	1284 9.5-3.3R	1076 11.3-4.2R	1137 10.7-3.2R	988 12-3.7R	852 13.3-4.1R	747 14.6-4.6R	662 15.9-5R	745 14.6-3.9R	675 15.3-3.5R
36/7	4	q_a F	1889 4.3-0.2R	1884 4.4-0.2R	1881 4.4-0.1R	1878 4.4-0.1R	1876 4.4-0.1R	1749 4.4-0.1R	1416 4.4-0.1R	1171 4.5-0.1R	984 4.5-0.1R
	8	q_a F	1693 5.7-0.6R	1699 5.7-0.4R	1657 5.9-0.4R	1667 5.9-0.4R	1637 6-0.4R	1648 6-0.3R	1416 6.1-0.3R	1171 6.1-0.3R	984 6.2-0.3R
	12	q_a F	1518 6.8-1R	1481 7.1-0.9R	1453 7.2-0.8R	1432 7.4-0.8R	1416 7.5-0.7R	1403 7.6-0.7R	1393 7.7-0.6R	1171 7.7-0.6R	984 7.8-0.5R
	18	q_a F	1382 7.7-1.4R	1364 7.9-1.2R	1227 8.9-1.5R	1236 8.8-1.3R	1242 8.8-1.1R	1152 9.6-1.2R	1166 9.4-1.1R	1171 9.3-1R	984 9.9-1R
	24	q_a F	1195 9.2-2.2R	1214 9-1.8R	1074 10.3-2.1R	1108 10-1.7R	1006 11-1.9R	1043 10.6-1.6R	963 11.5-1.8R	998 11.1-1.5R	934 11.8-1.5R
	36	q_a F	1195 9.2-2.2R	1024 10.8-2.8R	889 12.4-3.3R	958 11.6-2.5R	861 12.8-2.8R	781 14.1-3.1R	844 13.1-2.4R	780 14.1-2.6R	724 15-2.5R
	60	q_a F	943 11.7-3.9R	787 13.9-4.9R	889 12.4-3.3R	783 14.1-3.8R	695 15.7-4.3R	613 17.3-4.9R	547 18.9-5.3R	645 16.6-3.8R	587 17.7-3.5R
36/5	4	q_a F	1387 4.4-0.2R	1385 4.4-0.1R	1384 4.4-0.1R	1383 4.4-0.1R	1382 4.4-0.1R	1381 4.5-0.1R	1381 4.5-0.1R	1171 4.5-0.1R	984 4.5-0.1R
	8	q_a F	1300 5.8-0.5R	1304 5.7-0.4R	1285 6-0.4R	1290 5.9-0.3R	1276 6.1-0.3R	1281 6-0.3R	1270 6.2-0.3R	1171 6.1-0.2R	984 6.2-0.2R
	12	q_a F	1212 7-0.9R	1193 7.2-0.8R	1179 7.4-0.8R	1168 7.5-0.7R	1160 7.6-0.6R	1153 7.7-0.6R	1147 7.8-0.5R	1142 7.8-0.5R	984 7.9-0.4R
	18	q_a F	1134 8-1.4R	1126 8.1-1.1R	1042 9.2-1.4R	1049 9.1-1.2R	1054 9-1R	996 9.8-1.1R	1006 9.6-1R	1015 9.5-0.9R	970 10.1-0.9R
	24	q_a F	1015 9.7-2.2R	1032 9.4-1.7R	937 10.8-2R	963 10.3-1.6R	892 11.4-1.8R	919 11-1.5R	862 11.9-1.6R	889 11.4-1.4R	841 12.2-1.3R
	36	q_a F	1015 9.7-2.2R	898 11.5-2.7R	798 13.2-3.3R	853 12.1-2.3R	780 13.5-2.7R	716 14.8-3R	769 13.6-2.2R	717 14.7-2.5R	671 15.7-2.4R
	60	q_a F	832 12.7-4.2R	710 15.3-5.2R	798 13.2-3.3R	714 15-3.8R	644 16.7-4.3R	585 18.5-4.8R	527 20.2-5.3R	612 17.5-3.6R	569 18.7-3.4R
36/4	4	q_a F	1121 4.4-0.1R	1120 4.4-0.1R	1119 4.4-0.1R	1119 4.4-0.1R	1118 4.5-0.1R	1118 4.5-0.1R	1118 4.5-0.1R	1118 4.5-0.1R	984 4.5+0R
	8	q_a F	1068 5.9-0.4R	1072 5.8-0.3R	1061 6.1-0.3R	1065 6-0.3R	1057 6.2-0.3R	1060 6.1-0.2R	1054 6.2-0.2R	1057 6.2-0.2R	984 6.3-0.2R
	12	q_a F	1009 7.2-0.8R	999 7.4-0.7R	991 7.6-0.7R	986 7.7-0.6R	981 7.8-0.5R	978 7.8-0.5R	975 7.9-0.5R	973 7.9-0.4R	971 8-0.4R
	18	q_a F	953 8.4-1.3R	951 8.4-1R	892 9.6-1.2R	901 9.4-1R	907 9.2-0.9R	866 10.1-1R	875 9.9-0.8R	883 9.7-0.7R	851 10.3-0.7R
	24	q_a F	859 10.3-2.1R	879 9.8-1.6R	810 11.3-1.9R	835 10.7-1.4R	781 11.9-1.6R	806 11.3-1.3R	763 12.3-1.4R	786 11.7-1.2R	750 12.5-1.2R
	36	q_a F	859 10.3-2.1R	769 12.2-2.7R	690 14.2-3.2R	745 12.7-2.2R	687 14.2-2.5R	635 15.6-2.8R	685 14.2-2R	643 15.4-2.2R	605 16.4-2.2R
	60	q_a F	697 14.1-4.3R	599 16.9-5.4R	690 14.2-3.2R	623 16.1-3.7R	565 18-4.2R	515 19.9-4.7R	470 21.8-5.1R	548 18.5-3.4R	512 19.8-3.2R

16ga. DGB-36 and DBGF-36

DeltaGrip System with Buildex Pins



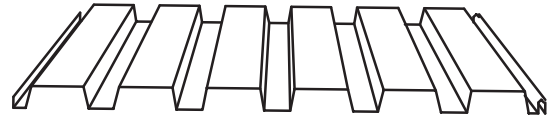
Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™											
Fasteners	Spacing (in)	4	5	6	7	8	9	10	11	12	
36/9	4	q_a F	2822 3.2-0.1R	2814 3.2-0.1R	2809 3.2-0.1R	2805 3.2-0.1R	2802 3.2-0.1R	2799 3.2-0.1R	2677 3.3-0.1R	2212 3.3-0.1R	1859 3.3+0R
	8	q_a F	2573 4-0.4R	2575 4-0.3R	2518 4.2-0.3R	2528 4.1-0.2R	2486 4.3-0.2R	2498 4.2-0.2R	2465 4.3-0.2R	2212 4.3-0.2R	1859 4.3-0.2R
	12	q_a F	2350 4.7-0.6R	2291 4.9-0.6R	2248 5-0.5R	2214 5.1-0.5R	2188 5.2-0.5R	2167 5.2-0.4R	2149 5.3-0.4R	2134 5.3-0.4R	1859 5.3-0.3R
	18	q_a F	2174 5.3-0.9R	2137 5.4-0.8R	1941 6-1R	1945 6-0.8R	1948 6-0.7R	1815 6.5-0.8R	1832 6.4-0.7R	1845 6.3-0.6R	1746 6.7-0.6R
	24	q_a F	1928 6.1-1.4R	1936 6.1-1.1R	1730 6.9-1.4R	1767 6.7-1.1R	1615 7.3-1.3R	1660 7.1-1.1R	1541 7.7-1.2R	1587 7.4-1R	1489 7.9-1R
	36	q_a F	1928 6.1-1.4R	1675 7.2-1.8R	1469 8.2-2.1R	1554 7.7-1.6R	1406 8.5-1.8R	1280 9.3-2R	1367 8.6-1.6R	1266 9.3-1.7R	1178 9.9-1.6R
	60	q_a F	1588 7.6-2.5R	1342 9-3.1R	1469 8.2-2.1R	1302 9.2-2.4R	1166 10.2-2.8R	1026 11.2-3.1R	913 12.2-3.4R	1060 10.8-2.4R	963 11.5-2.2R
36/7	4	q_a F	2230 3.2-0.1R	2227 3.2-0.1R	2225 3.2-0.1R	2224 3.3-0.1R	2223 3.3+0R	2222 3.3+0R	2222 3.3+0R	2212 3.3+0R	1859 3.3+0R
	8	q_a F	2071 4.2-0.3R	2080 4.1-0.2R	2048 4.3-0.2R	2059 4.2-0.2R	2035 4.4-0.2R	2046 4.3-0.2R	2027 4.4-0.1R	2037 4.3-0.1R	1859 4.4-0.1R
	12	q_a F	1905 5-0.5R	1877 5.1-0.5R	1857 5.2-0.4R	1842 5.3-0.4R	1830 5.4-0.4R	1820 5.4-0.3R	1812 5.4-0.3R	1806 5.5-0.3R	1800 5.5-0.3R
	18	q_a F	1760 5.7-0.8R	1755 5.7-0.7R	1611 6.5-0.8R	1631 6.4-0.7R	1645 6.3-0.6R	1547 6.8-0.7R	1569 6.7-0.6R	1586 6.6-0.5R	1512 7-0.5R
	24	q_a F	1538 6.9-1.4R	1583 6.6-1R	1426 7.5-1.2R	1480 7.2-1R	1362 7.9-1.1R	1415 7.6-0.9R	1322 8.2-1R	1371 7.8-0.8R	1294 8.3-0.8R
	36	q_a F	1538 6.9-1.4R	1342 8.1-1.7R	1181 9.3-2.1R	1289 8.4-1.4R	1171 9.3-1.6R	1071 10.2-1.8R	1165 9.4-1.3R	1084 10.1-1.5R	1011 10.8-1.4R
	60	q_a F	1201 9.1-2.7R	1011 10.9-3.4R	1181 9.3-2.1R	1050 10.5-2.4R	941 11.6-2.7R	852 12.8-3R	774 14-3.3R	909 12-2.2R	844 12.8-2.1R
36/5	4	q_a F	1619 3.2-0.1R	1618 3.2-0.1R	1618 3.3-0.1R	1617 3.3+0R	1617 3.3+0R	1616 3.3+0R	1616 3.3+0R	1616 3.3+0R	1616 3.3+0R
	8	q_a F	1553 4.2-0.3R	1558 4.2-0.2R	1544 4.3-0.2R	1549 4.3-0.2R	1539 4.4-0.2R	1544 4.3-0.1R	1536 4.4-0.1R	1540 4.4-0.1R	1533 4.4-0.1R
	12	q_a F	1477 5.1-0.5R	1464 5.2-0.4R	1455 5.3-0.4R	1448 5.4-0.3R	1442 5.4-0.3R	1437 5.5-0.3R	1434 5.5-0.3R	1431 5.5-0.2R	1428 5.5-0.2R
	18	q_a F	1402 5.9-0.8R	1401 5.9-0.6R	1322 6.6-0.7R	1335 6.5-0.6R	1343 6.4-0.5R	1287 6.9-0.6R	1301 6.8-0.5R	1311 6.7-0.4R	1268 7.1-0.4R
	24	q_a F	1274 7.2-1.3R	1304 6.8-1R	1208 7.8-1.1R	1245 7.4-0.9R	1170 8.1-1R	1206 7.7-0.8R	1145 8.4-0.9R	1178 8-0.7R	1127 8.5-0.7R
	36	q_a F	1274 7.2-1.3R	1150 8.5-1.7R	1039 9.7-2R	1118 8.7-1.3R	1036 9.7-1.5R	962 10.6-1.7R	1034 9.7-1.2R	974 10.4-1.3R	919 11.1-1.3R
	60	q_a F	1045 9.8-2.8R	904 11.7-3.5R	1039 9.7-2R	942 11-2.3R	857 12.3-2.6R	785 13.5-2.9R	722 14.8-3.2R	835 12.5-2.1R	782 13.4-2R
36/4	4	q_a F	1303 3.2-0.1R	1303 3.3-0.1R	1302 3.3+0R	1302 3.3+0R	1302 3.3+0R	1302 3.3+0R	1302 3.3+0R	1302 3.3+0R	1302 3.3+0R
	8	q_a F	1265 4.3-0.2R	1269 4.2-0.2R	1261 4.4-0.2R	1264 4.3-0.1R	1259 4.4-0.1R	1262 4.4-0.1R	1257 4.4-0.1R	1260 4.4-0.1R	1256 4.5-0.1R
	12	q_a F	1217 5.2-0.4R	1211 5.3-0.4R	1206 5.4-0.3R	1203 5.5-0.3R	1200 5.5-0.3R	1198 5.5-0.2R	1196 5.5-0.2R	1195 5.6-0.2R	1193 5.6-0.2R
	18	q_a F	1167 6.1-0.7R	1169 6-0.5R	1118 6.8-0.7R	1128 6.6-0.5R	1136 6.5-0.4R	1099 7.1-0.5R	1109 6.9-0.4R	1117 6.8-0.4R	1089 7.2-0.4R
	24	q_a F	1073 7.5-1.2R	1101 7.1-0.9R	1034 8.1-1R	1065 7.6-0.8R	1012 8.4-0.9R	1041 7.9-0.7R	998 8.6-0.7R	1024 8.2-0.6R	988 8.7-0.6R
	36	q_a F	1073 7.5-1.2R	983 8.9-1.5R	899 10.3-1.8R	969 9.1-1.2R	907 10.1-1.4R	850 11.1-1.5R	912 10-1.1R	866 10.7-1.2R	822 11.5-1.2R
	60	q_a F	882 10.7-2.8R	770 12.8-3.5R	899 10.3-1.8R	823 11.6-2.1R	755 13-2.4R	696 14.3-2.7R	643 15.7-3R	748 13.1-1.8R	704 14-1.8R

22ga.

DGB-36 and DGBF-36

DeltaGrip System with No. 12 Self-Drilling Screws



Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factor (F).

Support Fasteners	Deltagrip™ Spacing (in)		Span (ft)								
			4	5	6	7	8	9	10	11	12
36/9	4	q_a	1438	1415	1398	1385	1100	869	704	582	489
		F	7.0-0.9R	7.2-0.9R	7.5-0.9R	7.6-0.9R	7.8-0.8R	7.9-0.8R	8-0.7R	8.1-0.7R	8.1-0.6R
	8	q_a	1200	1172	1107	1098	1052	869	704	582	489
		F	8.1-1.7R	8.5-1.7R	9.1-1.9R	9.3-1.8R	9.8-1.8R	10-1.8R	10.3-1.8R	10.4-1.7R	10.6-1.5R
	12	q_a	1063	992	939	899	868	843	704	582	489
		F	8.7-2.2R	9.4-2.4R	10.1-2.5R	10.6-2.6R	11.1-2.7R	11.5-2.7R	11.9-2.7R	12.3-2.7R	12.4-2.2R
	18	q_a	979	917	801	776	757	668	659	582	489
	F	9.2-5R	9.8-2.7R	10.9-3.2R	11.5-3.3R	12-3.3R	13-3.7R	13.3-3.6R	13.7-3.6R	14.2-3.1R	
	24	q_a	883	834	715	695	598	595	527	532	480
		F	9.5-2.9R	10.3-3.1R	11.5-3.7R	12.1-3.7R	13.1-4.2R	13.6-4.1R	14.6-4.5R	14.9-4.4R	15.4-3.7R
	36	q_a	883	743	605	601	516	449	462	412	371
		F	9.5-2.9R	10.8-3.6R	12.1-4.3R	12.7-4.3R	13.9-4.7R	15.1-5.3R	15.3-5.1R	16.5-5.6R	16.9-4.5R
	60	q_a	773	612	605	507	434	376	330	353	316
		F	10-3.3R	11.4-4.2R	12.1-4.3R	13.4-4.9R	14.7-5.5R	16-6.1R	17.2-6.6R	17.4-6.3R	17.9-5.1R
36/7	4	q_a	1161	1151	1144	1139	1100	869	704	582	489
		F	7.5-0.9R	7.7-0.8R	7.9-0.8R	8-0.7R	8.1-0.7R	8.2-0.6R	8.3-0.6R	8.4-0.6R	8.4-0.5R
	8	q_a	968	962	918	920	890	869	704	582	489
		F	9.1-1.9R	9.5-1.8R	10.1-1.9R	10.3-1.7R	10.8-1.8R	10.8-1.6R	11.2-1.6R	11.3-1.5R	11.5-1.4R
	12	q_a	841	799	769	746	729	715	703	582	489
		F	10.1-2.5R	10.9-2.7R	11.6-2.8R	12.1-2.8R	12.6-2.8R	13-2.7R	13.4-2.7R	13.7-2.6R	13.9-2.2R
	18	q_a	758	727	636	629	624	568	570	572	489
	F	10.7-3R	11.5-3.2R	13-3.8R	13.5-3.7R	14-3.6R	15.2-4.1R	15.5-3.8R	15.7-3.7R	16.5-3.3R	
	24	q_a	659	645	558	563	502	513	459	474	431
		F	11.5-3.7R	12.3-3.8R	14-4.6R	14.5-4.4R	15.9-4.9R	16.2-4.7R	17.5-5.1R	17.6-4.8R	18.4-4.2R
	36	q_a	659	552	465	486	420	369	394	354	321
		F	11.5-3.7R	13.3-4.6R	15.1-5.6R	15.6-5.2R	17.1-5.9R	18.8-6.6R	18.8-6R	20.2-6.6R	21-5.5R
	60	q_a	543	435	465	393	338	296	262	295	267
		F	12.5-4.6R	14.6-5.8R	15.1-5.6R	16.9-6.4R	18.7-7.1R	20.5-8R	22.2-8.6R	21.9-7.8R	22.7-6.4R
36/5	4	q_a	880	876	873	870	869	867	704	582	489
		F	7.7-0.9R	7.9-0.8R	8-0.7R	8.2-0.7R	8.3-0.6R	8.3-0.6R	8.4-0.5R	8.5-0.5R	8.5-0.4R
	8	q_a	782	779	755	757	740	744	704	582	489
		F	9.5-1.9R	9.9-1.7R	10.5-1.8R	10.7-1.7R	11.2-1.7R	11.2-1.5R	11.6-1.5R	11.6-1.4R	11.9-1.3R
	12	q_a	705	680	661	647	635	626	619	582	489
		F	10.7-2.7R	11.6-2.8R	12.2-2.8R	12.8-2.8R	13.3-2.7R	13.7-2.7R	14-2.6R	14.4-2.5R	14.5-2.1R
	18	q_a	649	631	565	562	559	516	518	520	489
	F	11.5-3.3R	12.4-3.3R	14-4R	14.5-3.9R	14.9-3.7R	16.3-4.1R	16.5-3.9R	16.7-3.7R	17.5-3.3R	
	24	q_a	577	570	504	509	461	471	434	444	415
		F	12.5-4.1R	13.4-4.1R	15.2-4.9R	15.6-4.6R	17.2-5.2R	17.4-4.9R	18.9-5.3R	18.9-4.9R	19.8-4.4R
	36	q_a	577	496	432	449	403	355	381	343	311
		F	12.5-4.1R	14.7-5.1R	16.8-6.2R	17-5.6R	18.8-6.3R	20.7-7.1R	20.4-6.3R	22.1-7R	23-5.9R
	60	q_a	484	407	432	374	323	282	250	283	256
		F	13.9-5.3R	16.3-6.6R	16.8-6.2R	18.8-7.1R	20.8-7.9R	22.9-8.9R	24.9-9.6R	24.2-8.5R	25.1-7.1R
36/4	4	q_a	719	717	716	715	714	713	704	582	489
		F	7.9-0.8R	8.1-0.7R	8.2-0.7R	8.3-0.6R	8.4-0.5R	8.5-0.5R	8.5-0.5R	8.6-0.4R	8.6-0.4R
	8	q_a	654	654	639	642	631	634	626	582	489
		F	10.1-1.9R	10.4-1.7R	11-1.7R	11.1-1.6R	11.6-1.6R	11.6-1.4R	12-1.4R	12-1.3R	12.2-1.2R
	12	q_a	595	580	569	560	553	548	543	539	489
		F	11.6-2.8R	12.4-2.8R	13.1-2.8R	13.6-2.7R	14.1-2.6R	14.5-2.6R	14.8-2.5R	15.1-2.4R	15.2-2R
	18	q_a	549	540	489	490	491	457	461	465	439
	F	12.6-3.5R	13.4-3.5R	15.3-4.2R	15.7-3.9R	16-3.7R	17.5-4.1R	17.6-3.8R	17.8-3.6R	18.8-3.3R	
	24	q_a	486	488	435	445	406	417	387	399	374
		F	14-4.6R	14.7-4.4R	16.9-5.3R	17.1-4.8R	18.9-5.4R	19-5R	20.6-5.4R	20.4-4.9R	21.5-4.5R
	36	q_a	486	421	369	390	353	313	343	308	279
		F	14-4.6R	16.5-5.7R	18.9-6.9R	18.9-6.1R	21-6.8R	23.1-7.7R	22.6-6.6R	24.4-7.3R	25.6-6.3R
	60	q_a	399	334	369	320	275	240	212	249	224
		F	15.9-6.2R	18.8-7.8R	18.9-6.9R	21.3-7.9R	23.7-8.8R	26.1-9.9R	28.5-10.7R	27.2-9.1R	28.4-7.7R

20_{ga.} DGB-36 and DBGF-36

DeltaGrip System with No. 12 Self-Drilling Screws

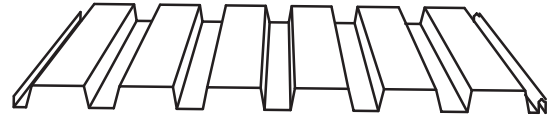


Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support		Span (ft)									
Fasteners		4	5	6	7	8	9	10	11	12	
DeltaGrip™ Spacing (in)											
36/9	4	q_a	1790	1770	1755	1744	1446	1142	925	765	643
		F	5.6-0.6R	5.8-0.6R	6-0.6R	6.1-0.5R	6.1-0.5R	6.2-0.5R	6.3-0.4R	6.3-0.4R	6.3-0.4R
	8	q_a	1519	1496	1425	1420	1370	1142	925	765	643
		F	6.7-1.3R	6.9-1.2R	7.4-1.3R	7.5-1.2R	7.8-1.2R	7.9-1.2R	8.2-1.2R	8.2-1.1R	8.4-1R
	12	q_a	1348	1272	1215	1172	1138	1111	925	765	643
		F	7.2-1.7R	7.8-1.8R	8.3-1.9R	8.7-1.9R	9-1.9R	9.3-1.9R	9.6-1.9R	9.8-1.9R	9.9-1.5R
	18	q_a	1238	1174	1032	1008	991	903	899	765	643
	F	7.6-2R	8.2-2.1R	9.1-2.5R	9.5-2.5R	9.8-2.4R	10.6-2.8R	10.8-2.6R	11-2.6R	11.5-2.3R	
	24	q_a	1108	1063	925	916	805	811	721	733	643
		F	8.1-2.4R	8.6-2.5R	9.7-3R	10.1-2.9R	11-3.3R	11.2-3.2R	12-3.4R	12.2-3.3R	12.7-2.8R
	36	q_a	1108	937	788	798	687	601	626	561	507
		F	8.1-2.4R	9.2-3R	10.4-3.6R	10.7-3.4R	11.7-3.8R	12.7-4.3R	12.8-4R	13.7-4.4R	14.2-3.6R
	60	q_a	956	775	788	663	569	496	437	475	428
		F	8.6-2.9R	9.9-3.6R	10.4-3.6R	11.5-4.1R	12.6-4.6R	13.7-5.1R	14.8-5.5R	14.7-5.1R	15.2-4.2R
36/7	4	q_a	1439	1431	1425	1420	1417	1142	925	765	643
		F	6-0.6R	6.1-0.5R	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R	6.5-0.3R
	8	q_a	1230	1228	1183	1188	1156	1142	925	765	643
		F	7.4-1.3R	7.6-1.2R	8-1.3R	8.1-1.1R	8.4-1.1R	8.5-1R	8.7-1R	8.7-0.9R	8.9-0.9R
	12	q_a	1078	1034	1003	980	961	946	925	765	643
		F	8.3-1.9R	8.8-2R	9.3-2R	9.7-1.9R	10-1.9R	10.3-1.8R	10.5-1.8R	10.7-1.7R	10.8-1.5R
	18	q_a	972	944	832	829	828	757	763	765	643
	F	8.9-2.3R	9.4-2.4R	10.6-2.8R	11-2.7R	11.2-2.6R	12.2-2.9R	12.3-2.7R	12.5-2.5R	13.1-2.3R	
	24	q_a	841	836	728	741	665	683	625	644	598
		F	9.7-3R	10.2-2.9R	11.6-3.5R	11.8-3.3R	13-3.7R	13.1-3.4R	14.1-3.7R	14.1-3.4R	14.8-3.1R
	36	q_a	841	709	610	642	568	500	540	487	443
		F	9.7-3R	11.2-3.7R	12.8-4.5R	12.9-4R	14.2-4.5R	15.6-5.1R	15.3-4.5R	16.5-4.9R	17.2-4.2R
	60	q_a	681	558	610	521	450	395	351	401	364
		F	10.7-3.9R	12.6-4.9R	12.8-4.5R	14.3-5.1R	15.8-5.7R	17.3-6.4R	18.8-6.9R	18.2-6.1R	18.9-5.1R
36/5	4	q_a	1077	1073	1071	1069	1068	1066	925	765	643
		F	6.1-0.5R	6.2-0.5R	6.3-0.4R	6.4-0.4R	6.4-0.4R	6.5-0.3R	6.5-0.3R	6.5-0.3R	6.6-0.3R
	8	q_a	976	976	952	956	939	943	925	765	643
		F	7.7-1.3R	7.8-1.2R	8.3-1.2R	8.3-1.1R	8.7-1.1R	8.7-1R	9-0.9R	8.9-0.9R	9.1-0.8R
	12	q_a	889	865	846	832	821	812	805	765	643
		F	8.7-1.9R	9.3-2R	9.8-1.9R	10.1-1.9R	10.4-1.8R	10.7-1.8R	10.9-1.7R	11.1-1.6R	11.2-1.4R
	18	q_a	822	806	730	729	729	678	683	687	643
	F	9.5-2.5R	10.1-2.4R	11.4-2.9R	11.6-2.7R	11.9-2.5R	12.9-2.8R	13-2.6R	13.1-2.5R	13.8-2.3R	
	24	q_a	730	730	650	662	604	620	574	590	553
		F	10.5-3.2R	11-3.1R	12.5-3.7R	12.7-3.4R	14-3.8R	14-3.4R	15.1-3.8R	15-3.4R	15.8-3.1R
	36	q_a	730	633	554	583	527	479	510	472	430
		F	10.5-3.2R	12.3-4.1R	14-4.9R	14-4.3R	15.5-4.8R	17-5.4R	16.6-4.6R	17.9-5.1R	18.7-4.4R
	60	q_a	606	512	554	491	431	378	336	387	351
		F	11.9-4.4R	14-5.6R	14-4.9R	15.8-5.6R	17.5-6.2R	19.2-7R	20.9-7.6R	19.9-6.4R	20.8-5.5R
36/4	4	q_a	876	874	873	872	872	871	871	765	643
		F	6.2-0.5R	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
	8	q_a	811	813	799	802	792	795	787	765	643
		F	8-1.3R	8.1-1.1R	8.6-1.1R	8.6-1R	9-1R	8.9-0.9R	9.2-0.8R	9.1-0.8R	9.3-0.7R
	12	q_a	748	734	723	715	709	704	699	696	643
		F	9.3-2R	9.9-1.9R	10.3-1.9R	10.7-1.8R	10.9-1.7R	11.2-1.6R	11.4-1.5R	11.6-1.5R	11.6-1.3R
	18	q_a	695	688	631	635	637	598	605	610	580
	F	10.3-2.6R	10.8-2.5R	12.3-2.9R	12.4-2.7R	12.6-2.4R	13.7-2.8R	13.7-2.5R	13.7-2.3R	14.5-2.2R	
	24	q_a	617	625	563	579	532	549	512	529	498
		F	11.6-3.5R	12-3.2R	13.7-3.9R	13.7-3.4R	15.1-3.8R	15-3.4R	16.3-3.7R	16-3.3R	16.9-3.1R
	36	q_a	617	540	476	509	463	423	455	423	392
		F	11.6-3.5R	13.6-4.4R	15.7-5.3R	15.4-4.4R	17-5R	18.7-5.6R	18-4.7R	19.5-5.2R	20.5-4.6R
	60	q_a	502	426	476	424	374	328	290	346	313
		F	13.6-5.1R	16.1-6.4R	15.7-5.3R	17.7-6.1R	19.7-6.8R	21.7-7.7R	23.6-8.3R	22.1-6.7R	23.1-5.8R

18ga. DGB-36 and DBGF-36

DeltaGrip System with No. 12 Self-Drilling Screws



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Support Fasteners	DeltaGrip™ Spacing (in)		Span (ft)								
			4	5	6	7	8	9	10	11	12
36/9	4	q_a	2494	2478	2467	2459	2213	1749	1416	1171	984
		F	4-0.3R	4.1-0.3R	4.2-0.3R	4.2-0.2R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R
	8	q_a	2183	2171	2094	2097	2042	1749	1416	1171	984
		F	4.8-0.7R	4.9-0.7R	5.2-0.7R	5.2-0.6R	5.4-0.6R	5.4-0.6R	5.6-0.6R	5.6-0.5R	5.7-0.5R
	12	q_a	1955	1873	1813	1767	1731	1702	1416	1171	984
		F	5.3-1.1R	5.7-1.1R	5.9-1.1R	6.2-1.1R	6.3-1.1R	6.5-1R	6.6-1R	6.7-1R	6.8-0.8R
	18	q_a	1795	1732	1541	1526	1514	1392	1396	1171	984
	F	5.7-1.3R	6-1.3R	6.7-1.6R	6.9-1.5R	7-1.4R	7.6-1.6R	7.7-1.5R	7.7-1.4R	8.1-1.3R	
	24	q_a	1593	1563	1373	1381	1246	1268	1165	1171	984
		F	6.2-1.7R	6.5-1.7R	7.3-2R	7.4-1.9R	8.1-2.1R	8.1-1.9R	8.7-2.1R	8.7-1.9R	9.1-1.7R
	36	q_a	1593	1361	1180	1218	1087	955	1017	915	830
		F	6.2-1.7R	7.1-2.1R	8-2.6R	8-2.3R	8.8-2.6R	9.5-2.9R	9.4-2.5R	10.1-2.8R	10.5-2.4R
	60	q_a	1344	1125	1180	1018	878	769	681	763	690
		F	6.8-2.3R	7.8-2.8R	8-2.6R	8.8-2.9R	9.7-3.3R	10.6-3.7R	11.4-4R	11-3.5R	11.5-2.9R
36/7	4	q_a	1989	1983	1979	1976	1974	1749	1416	1171	984
		F	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	8	q_a	1769	1774	1728	1738	1704	1716	1416	1171	984
		F	5.2-0.7R	5.3-0.6R	5.5-0.6R	5.5-0.5R	5.7-0.5R	5.7-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R
	12	q_a	1580	1537	1506	1482	1464	1449	1416	1171	984
		F	5.9-1.1R	6.2-1.1R	6.5-1.1R	6.7-1R	6.8-1R	7-0.9R	7.1-0.9R	7.2-0.8R	7.2-0.7R
	18	q_a	1434	1413	1266	1273	1279	1183	1197	1171	984
	F	6.5-1.5R	6.8-1.4R	7.6-1.7R	7.7-1.5R	7.8-1.4R	8.4-1.5R	8.4-1.4R	8.4-1.3R	8.9-1.2R	
	24	q_a	1240	1256	1107	1140	1033	1069	987	1022	954
		F	7.2-2R	7.5-1.8R	8.4-2.2R	8.4-1.9R	9.2-2.2R	9.2-1.9R	9.9-2.1R	9.7-1.9R	10.2-1.7R
	36	q_a	1240	1059	918	985	885	801	864	797	737
		F	7.2-2R	8.4-2.5R	9.6-3R	9.4-2.5R	10.3-2.8R	11.3-3.2R	10.9-2.6R	11.7-2.9R	12.3-2.6R
	60	q_a	982	818	918	807	712	627	559	656	597
		F	8.4-2.9R	9.8-3.6R	9.6-3R	10.7-3.4R	11.8-3.9R	13-4.3R	14.1-4.7R	13.2-3.8R	13.8-3.3R
36/5	4	q_a	1464	1462	1460	1459	1458	1457	1416	1171	984
		F	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R	4.4-0.2R	4.4-0.1R	4.4-0.1R	4.4-0.1R	4.4-0.1R
	8	q_a	1366	1369	1347	1353	1337	1342	1330	1171	984
		F	5.3-0.7R	5.4-0.6R	5.6-0.6R	5.6-0.5R	5.8-0.5R	5.8-0.4R	5.9-0.4R	5.9-0.4R	6-0.3R
	12	q_a	1268	1246	1230	1217	1207	1199	1193	1171	984
		F	6.2-1.1R	6.5-1.1R	6.7-1R	6.9-0.9R	7-0.9R	7.2-0.8R	7.3-0.8R	7.4-0.8R	7.4-0.7R
	18	q_a	1184	1173	1082	1088	1093	1029	1040	1049	984
	F	6.8-1.5R	7.1-1.4R	8-1.6R	8.1-1.5R	8.1-1.3R	8.8-1.5R	8.7-1.3R	8.7-1.2R	9.2-1.2R	
	24	q_a	1058	1072	971	997	920	948	887	915	864
		F	7.8-2.1R	7.9-1.8R	9-2.2R	8.9-1.9R	9.8-2.1R	9.6-1.9R	10.4-2R	10.1-1.8R	10.7-1.7R
	36	q_a	1058	932	826	881	804	737	790	736	688
		F	7.8-2.1R	9.1-2.6R	10.4-3.2R	10-2.6R	11.1-2.9R	12.1-3.2R	11.5-2.6R	12.4-2.9R	13.1-2.6R
	60	q_a	867	739	826	737	664	602	539	628	580
		F	9.2-3.2R	10.9-4R	10.4-3.2R	11.6-3.6R	12.9-4.1R	14.2-4.6R	15.4-5R	14.2-3.9R	14.9-3.4R
36/4	4	q_a	1184	1183	1182	1182	1182	1181	1181	1171	984
		F	4.3-0.2R	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
	8	q_a	1124	1128	1115	1119	1110	1114	1107	1111	984
		F	5.5-0.6R	5.5-0.5R	5.8-0.5R	5.7-0.4R	5.9-0.4R	5.9-0.4R	6-0.4R	6-0.3R	6.1-0.3R
	12	q_a	1058	1046	1037	1030	1025	1021	1018	1015	984
		F	6.5-1.1R	6.8-1R	7-0.9R	7.1-0.9R	7.3-0.8R	7.4-0.8R	7.5-0.7R	7.5-0.7R	7.6-0.6R
	18	q_a	996	993	928	937	943	897	908	916	880
	F	7.3-1.5R	7.5-1.3R	8.5-1.6R	8.4-1.4R	8.4-1.2R	9.2-1.4R	9.1-1.2R	9-1.1R	9.6-1.1R	
	24	q_a	895	915	839	866	807	834	787	811	772
		F	8.4-2.2R	8.4-1.8R	9.6-2.2R	9.4-1.8R	10.4-2.1R	10.1-1.8R	10.9-1.9R	10.6-1.7R	11.3-1.6R
	36	q_a	895	798	714	770	708	653	705	660	620
		F	8.4-2.2R	9.9-2.7R	11.4-3.3R	10.8-2.5R	11.9-2.9R	13.1-3.2R	12.3-2.5R	13.3-2.8R	14.1-2.6R
	60	q_a	726	622	714	642	581	530	478	562	524
		F	10.4-3.6R	12.3-4.5R	11.4-3.3R	12.8-3.8R	14.2-4.2R	15.7-4.8R	17.1-5.2R	15.4-3.9R	16.3-3.5R

16ga. DGB-36 and DBGF-36

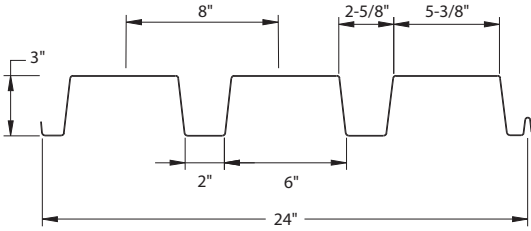
DeltaGrip System with No. 12 Self-Drilling Screws



Allowable Diaphragm Shears (q_a), (In plf), and Flexibility Factors (F)

Support		Span (ft)									
DeltaGrip™											
Fasteners	Spacing (in)	4	5	6	7	8	9	10	11	12	
36/9	4	q_a	3203	3191	3182	3176	3171	3167	2677	2212	1859
		F	3.1-0.2R	3.1-0.2R	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
	8	q_a	2876	2874	2796	2806	2750	2764	2677	2212	1859
		F	3.7-0.5R	3.7-0.4R	3.9-0.4R	3.9-0.4R	4-0.4R	4-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R
	12	q_a	2605	2524	2465	2419	2383	2354	2330	2212	1859
		F	4.1-0.7R	4.3-0.7R	4.5-0.7R	4.6-0.7R	4.7-0.6R	4.8-0.6R	4.9-0.6R	5-0.5R	5-0.5R
	18	q_a	2400	2344	2112	2108	2104	1950	1964	1975	1859
	F	4.5-0.9R	4.7-0.9R	5.2-1.1R	5.3-1R	5.3-0.9R	5.7-1R	5.7-0.9R	5.7-0.8R	6-0.8R	
	24	q_a	2127	2118	1879	1910	1736	1779	1644	1689	1580
		F	4.9-1.3R	5.1-1.2R	5.7-1.4R	5.7-1.2R	6.2-1.4R	6.2-1.2R	6.6-1.3R	6.5-1.2R	6.8-1.1R
	36	q_a	2127	1835	1601	1679	1513	1374	1458	1347	1228
		F	4.9-1.3R	5.6-1.6R	6.4-1.9R	6.3-1.6R	6.9-1.8R	7.4-2R	7.2-1.7R	7.7-1.9R	8.1-1.6R
	60	q_a	1766	1486	1601	1414	1244	1092	972	1111	1009
		F	5.6-1.8R	6.5-2.2R	6.4-1.9R	7.1-2.2R	7.7-2.4R	8.5-2.7R	9.1-2.9R	8.6-2.4R	9-2.1R
36/7	4	q_a	2540	2535	2532	2530	2528	2527	2526	2212	1859
		F	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	3.2-0.1R	3.2-0.1R
	8	q_a	2323	2333	2288	2301	2269	2282	2256	2212	1859
		F	3.9-0.4R	3.9-0.3R	4.1-0.3R	4.1-0.3R	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.2-0.2R	4.3-0.2R
	12	q_a	2112	2072	2043	2021	2004	1990	1979	1970	1859
		F	4.5-0.7R	4.7-0.6R	4.8-0.6R	4.9-0.6R	5-0.5R	5.1-0.5R	5.1-0.5R	5.2-0.4R	5.2-0.4R
	18	q_a	1936	1923	1749	1767	1780	1663	1686	1704	1616
	F	5-0.9R	5.1-0.9R	5.7-1R	5.7-0.9R	5.7-0.8R	6.2-0.9R	6.2-0.8R	6.1-0.7R	6.5-0.7R	
	24	q_a	1682	1723	1538	1594	1457	1513	1406	1458	1370
		F	5.7-1.4R	5.7-1.2R	6.4-1.4R	6.3-1.2R	6.9-1.3R	6.8-1.1R	7.3-1.3R	7.1-1.1R	7.5-1R
	36	q_a	1682	1455	1272	1381	1249	1137	1235	1144	1065
		F	5.7-1.4R	6.6-1.7R	7.5-2.1R	7.1-1.6R	7.9-1.8R	8.6-2.1R	8.1-1.6R	8.7-1.8R	9.2-1.7R
	60	q_a	1318	1104	1272	1125	1006	908	812	960	886
		F	6.8-2.2R	8-2.8R	7.5-2.1R	8.3-2.4R	9.2-2.7R	10.1-3R	11-3.3R	10.2-2.5R	10.5-2.2R
36/5	4	q_a	1852	1851	1849	1849	1848	1848	1847	1847	1846
		F	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.2-0.1R	3.3-0.1R	3.3-0.1R
	8	q_a	1760	1765	1745	1752	1737	1744	1732	1738	1728
		F	4-0.4R	4-0.3R	4.2-0.3R	4.1-0.3R	4.2-0.3R	4.2-0.2R	4.3-0.2R	4.3-0.2R	4.3-0.2R
	12	q_a	1659	1639	1625	1615	1606	1600	1594	1590	1586
		F	4.7-0.7R	4.8-0.6R	5-0.6R	5.1-0.5R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R	5.3-0.3R
	18	q_a	1564	1559	1458	1471	1480	1409	1424	1436	1381
	F	5.2-0.9R	5.3-0.8R	6-1R	5.9-0.8R	5.9-0.7R	6.4-0.8R	6.3-0.7R	6.3-0.7R	6.6-0.7R	
	24	q_a	1411	1440	1322	1362	1271	1311	1237	1275	1213
		F	6-1.4R	6-1.2R	6.8-1.4R	6.6-1.1R	7.2-1.3R	7-1.1R	7.6-1.2R	7.3-1R	7.8-1R
	36	q_a	1411	1261	1130	1214	1118	1032	1110	1041	978
		F	6-1.4R	7-1.8R	8-2.1R	7.5-1.6R	8.3-1.8R	9.1-2R	8.5-1.6R	9.2-1.7R	9.7-1.6R
	60	q_a	1154	992	1130	1018	922	841	771	889	830
		F	7.4-2.4R	8.7-3R	8-2.1R	9-2.4R	9.9-2.7R	10.9-3.1R	11.9-3.4R	10.6-2.4R	11.2-2.2R
36/4	4	q_a	1493	1492	1492	1492	1491	1491	1491	1491	1491
		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	3.3-0.1R	3.3+0R	3.3+0R
	8	q_a	1439	1443	1432	1436	1428	1432	1426	1430	1424
		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	4.3-0.2R	4.4-0.1R
	12	q_a	1373	1363	1356	1351	1347	1344	1341	1339	1337
		F	4.8-0.6R	5-0.6R	5.1-0.5R	5.2-0.5R	5.2-0.4R	5.3-0.4R	5.3-0.4R	5.4-0.3R	5.4-0.3R
	18	q_a	1307	1309	1241	1253	1262	1213	1226	1236	1198
	F	5.5-0.9R	5.5-0.8R	6.2-0.9R	6.1-0.8R	6.1-0.7R	6.6-0.7R	6.5-0.6R	6.4-0.6R	6.8-0.6R	
	24	q_a	1191	1222	1137	1172	1106	1140	1086	1118	1072
		F	6.4-1.4R	6.3-1.1R	7.1-1.3R	6.9-1.1R	7.6-1.2R	7.3-1R	7.9-1.1R	7.6-0.9R	8.1-0.9R
	36	q_a	1191	1080	979	1057	982	914	984	929	879
		F	6.4-1.4R	7.5-1.8R	8.6-2.1R	8-1.5R	8.8-1.7R	9.7-2R	9-1.5R	9.6-1.6R	10.2-1.6R
	60	q_a	971	842	979	889	812	744	686	797	748
		F	8.2-2.6R	9.7-3.2R	8.6-2.1R	9.7-2.4R	10.8-2.8R	11.9-3.1R	12.9-3.4R	11.3-2.4R	12-2.2R

DGN-24



DGN-24 Section Properties

Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
22	2.18	0.771	0.361	0.449
20	2.58	0.945	0.467	0.554
18	3.40	1.330	0.689	0.765
16	4.22	1.716	0.882	0.949

1. Section properties are based on minimum 38 ksi steel (Fy).

DGN-24 Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
22	292	328	365	402	438	475	512
	728	797	876	985	1093	1202	1310
20	501	556	610	665	720	774	829
	1095	1184	1274	1389	1530	1670	1811
18	1057	1148	1240	1331	1423	1514	1606
	2035	2165	2296	2426	2557	2762	2966
16	1805	1935	2064	2193	2323	2452	2582
	3269	3440	3611	3783	3954	4125	4348

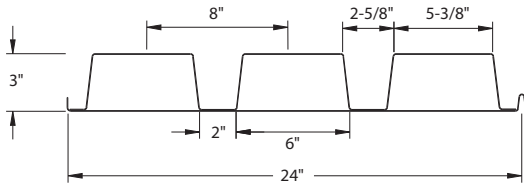
1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

DGN-24 Allowable Total (DL + LL) Uniform Load (psf)

Span Condition	Gauge		Span (ft)										
			6	7	8	9	10	11	12	13	14	15	16
SINGLE SPAN	22	Stress	152	112	86	68	55	45	38	32	28	24	21
		Deflection	152	112	86	68	51	38	29	23	18	15	12
	20	Stress	197	145	111	88	71	59	49	42	36	32	28
		Deflection	197	145	111	85	62	47	36	28	23	18	15
	18	Stress	291	214	164	129	105	87	73	62	53	47	41
		Deflection	291	214	164	120	87	66	50	40	32	26	21
	16	Stress	372	274	209	166	134	111	93	79	68	60	52
		Deflection	372	274	209	154	112	85	65	51	41	33	27
DOUBLE SPAN	22	Stress	190	139	107	84	68	56	47	40	35	30	27
		Deflection	190	139	107	84	68	56	47	40	35	30	27
	20	Stress	234	172	132	104	84	70	58	50	43	37	33
		Deflection	234	172	132	104	84	70	58	50	43	37	33
	18	Stress	323	237	182	144	116	96	81	69	59	52	45
		Deflection	323	237	182	144	116	96	81	69	59	52	45
	16	Stress	401	294	225	178	144	119	100	85	74	64	56
		Deflection	401	294	225	178	144	119	100	85	74	64	56
TRIPLE SPAN	22	Stress	237	174	133	105	85	71	59	50	44	38	33
		Deflection	237	174	133	105	85	71	55	43	35	28	23
	20	Stress	292	215	164	130	105	87	73	62	54	47	41
		Deflection	292	215	164	130	105	87	68	53	43	35	29
	18	Stress	404	297	227	179	145	120	101	86	74	65	57
		Deflection	404	297	227	179	145	120	95	75	60	49	40
	16	Stress	501	368	282	223	180	149	125	107	92	80	70
		Deflection	501	368	282	223	180	149	123	97	77	63	52

1. Stress based on allowable flexural stress of 22.8 ksi.
2. Deflection based on maximum deflection of L/240.
3. Adequate bearing must be provided.
4. See page 31 of Steel Roof Deck catalog for General Notes.

DGNF-24



DGNF 24 Section Properties

Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20/20	3.96	1.666	0.566	0.850
20/18	4.50	1.868	0.562	0.977
20/16	4.73	1.987	0.595	1.040
18/20	4.78	1.950	0.841	0.946
18/18	5.27	2.310	0.861	1.228
18/16	5.82	2.597	0.878	1.342
16/16	6.37	3.029	1.198	1.545

1. Section properties are based on minimum 38 ksi steel (Fy).

DGNF-24 Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
20/20	501	556	610	665	720	774	829
	1095	1184	1274	1389	1530	1670	1811
20/18	501	556	610	665	720	774	829
	1095	1184	1274	1389	1530	1670	1811
20/16	501	556	610	665	720	774	829
	1095	1184	1274	1389	1530	1670	1811
18/20	1057	1148	1240	1331	1423	1514	1606
	2035	2165	2296	2426	2557	2762	2966
18/18	1057	1148	1240	1331	1423	1514	1606
	2035	2165	2296	2426	2557	2762	2966
18/16	1057	1148	1240	1331	1423	1514	1606
	2035	2165	2296	2426	2557	2762	2966
16/16	1805	1935	2064	2193	2323	2452	2582
	3269	3440	3611	3783	3954	4125	4348

1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

DGNF-24 Allowable Total (DL + LL) Uniform Load (psf)

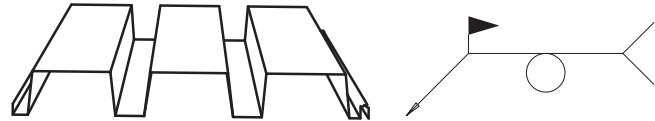
Span Condition	Gauge		Span (ft)											
			6	7	8	9	10	11	12	13	14	15	16	
SINGLE SPAN	20/20	Stress	239	176	134	106	86	71	60	51	44	38	34	
		Deflection	239	176	134	106	86	71	60	50	40	32	27	
	20/18	Stress	237	174	133	105	85	71	59	51	44	38	33	
		Deflection	237	174	133	105	85	71	59	51	44	36	30	
	18/18	Stress	364	267	204	162	131	108	91	77	67	58	51	
		Deflection	364	267	204	162	131	108	88	69	55	45	37	
	18/16	Stress	371	272	209	165	133	110	93	79	68	59	52	
		Deflection	371	272	209	165	133	110	93	77	62	50	42	
	16/16	Stress	506	372	285	225	182	150	126	108	93	81	71	
		Deflection	506	372	285	225	182	149	115	90	72	59	48	
	DOUBLE SPAN	20/20	Stress	359	264	202	160	129	107	90	76	66	57	50
			Deflection	359	264	202	160	129	107	90	76	66	57	50
20/18		Stress	413	303	232	183	149	123	103	88	76	66	58	
		Deflection	413	303	232	183	149	123	103	88	76	66	58	
18/18		Stress	518	381	292	230	187	154	130	110	95	83	73	
		Deflection	518	381	292	230	187	154	130	110	95	83	73	
18/16		Stress	567	416	319	252	204	169	142	121	104	91	80	
		Deflection	567	416	319	252	204	169	142	121	104	91	80	
16/16		Stress	652	479	367	290	235	194	163	139	120	104	92	
		Deflection	652	479	367	290	235	194	163	139	120	104	92	
TRIPLE SPAN		20/20	Stress	373	274	210	166	134	111	93	80	69	60	53
			Deflection	373	274	210	166	134	111	93	80	69	60	50
	20/18	Stress	371	272	209	165	133	110	93	79	68	59	52	
		Deflection	371	272	209	165	133	110	93	79	68	59	52	
	18/18	Stress	568	417	320	252	204	169	142	121	104	91	80	
		Deflection	568	417	320	252	204	169	142	121	104	85	70	
	18/16	Stress	579	426	326	257	209	172	145	123	106	93	81	
		Deflection	579	426	326	257	209	172	145	123	106	93	78	
	16/16	Stress	790	581	445	351	285	235	198	168	145	126	111	
		Deflection	790	581	445	351	285	235	198	168	137	111	91	

1. Stress based on allowable flexural stress of 22.8 ksi.

2. Deflection based on maximum deflection of L/240.

DGN-24 and DGNF-24

DeltaGrip System with Arc Spot/Seam Welds



Allowable Diaphragm Shears

(q_a), (In plf), Factored Diaphragm Shears (q_f), (In plf) and Flexibility Factors (F)

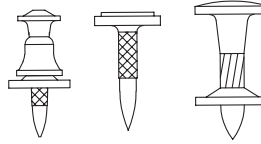
Gauge Support Deltagrip™
Fasteners Spacing

Span (ft)

		(in)		Span (ft)								
				4	6	8	10	12	14	16	18	20
22	24/4	4	q_a	1265	1204	1170	1149	1134	1082	828	655	530
			F	10.5-1.2R	11-1R	11.3-0.9R	11.5-0.8R	11.7-0.6R	11.8-0.6R	11.8-0.5R	11.9-0.5R	12-0.4R
		8	q_a	951	828	750	703	672	650	633	620	530
			F	13.6-2.8R	15-2.7R	15.9-2.4R	16.5-2.2R	16.9-1.8R	17.3-1.7R	17.5-1.6R	17.8-1.5R	18-1.4R
		12	q_a	768	612	534	487	456	434	417	404	394
			F	15.6-4.1R	17.8-4.2R	19.4-4R	20.5-3.8R	21.1-3.1R	21.8-3R	22.3-2.8R	22.8-2.7R	23.2-2.6R
		18	q_a	660	468	426	358	312	311	282	260	264
	F	17-5.1R	20.8-6.2R	22.1-5.5R	24.4-5.8R	26.1-5R	26.3-4.6R	27.7-4.5R	29.1-4.6R	28.9-4.2R		
		24	q_a	552	396	318	272	240	218	201	188	178
			F	18.8-6.5R	22.9-7.7R	26-8R	28.5-8.1R	29.9-6.6R	31.7-6.7R	32.9-6.4R	34.2-6.4R	35.3-6.3R
		36	q_a	552	324	264	228	168	156	147	116	113
			F	18.8-6.5R	25.6-9.8R	28.7-9.9R	31.2-9.7R	35.4-9.2R	36.9-9.1R	37.8-8.5R	42-9.5R	42.7-9.2R
		60	q_a	444	324	210	142	132	95	93	69	49
			F	21.2-8.6R	25.6-9.8R	32.3-12.6R	38.9-15.3R	39.1-11.1R	44.7-13R	44.9-11.7R	49.9-13.1R	54.8-14.6R
20	24/4	4	q_a	1614	1556	1524	1503	1489	1421	1088	860	696
			F	8.2-0.8R	8.5-0.6R	8.7-0.5R	8.8-0.4R	8.9-0.4R	9-0.3R	9-0.3R	9.1-0.3R	9.1-0.2R
		8	q_a	1228	1117	1057	1014	976	950	930	860	696
			F	10.8-1.9R	11.7-1.7R	12.3-1.5R	12.6-1.3R	12.9-1.1R	13.1-1R	13.2-0.9R	13.4-0.9R	13.5-0.8R
		12	q_a	1036	851	758	702	665	639	619	603	591
			F	12.6-2.9R	14.1-2.9R	15.1-2.6R	15.8-2.4R	16.2-2R	16.6-1.9R	16.9-1.7R	17.2-1.6R	17.4-1.5R
		18	q_a	881	643	603	516	458	461	424	396	404
	F	13.9-3.8R	16.8-4.4R	17.4-3.7R	19.1-3.8R	20.3-3.4R	20.2-3R	21.2-2.9R	22.1-2.9R	21.9-2.6R		
		24	q_a	725	540	447	391	354	328	308	292	280
			F	15.6-5.1R	18.7-5.7R	20.9-5.7R	22.6-5.6R	23.6-4.6R	24.7-4.6R	25.5-4.3R	26.3-4.2R	27-4.1R
		36	q_a	725	436	369	329	250	239	230	188	186
			F	15.6-5.1R	21.3-7.6R	23.5-7.4R	25-7R	28.5-6.8R	29.4-6.5R	29.8-5.9R	33-6.7R	33.3-6.3R
		60	q_a	570	436	291	204	198	150	152	119	93
			F	18.1-7.2R	21.3-7.6R	26.9-9.8R	32.5-12R	32-8.5R	36.7-9.9R	36.2-8.6R	40.2-9.7R	44.2-10.8R
18	24/4	4	q_a	2320	2271	2244	2227	2216	2176	1666	1316	1066
			F	5.6-0.3R	5.7-0.3R	5.8-0.2R	5.9-0.2R	5.9-0.1R	5.9-0.1R	5.9-0.1R	5.9-0.1R	6-0.1R
		8	q_a	1825	1708	1645	1605	1577	1557	1542	1316	1066
			F	7.4-1R	7.8-0.8R	8.1-0.7R	8.2-0.6R	8.3-0.5R	8.4-0.4R	8.5-0.4R	8.5-0.4R	8.6-0.3R
		12	q_a	1539	1386	1304	1233	1184	1150	1124	1103	1066
			F	8.8-1.6R	9.6-1.4R	10-1.3R	10.3-1.1R	10.5-0.9R	10.7-0.8R	10.8-0.8R	10.9-0.7R	11-0.7R
		18	q_a	1365	1060	1030	902	817	834	779	736	756
	F	9.9-2.2R	11.6-2.4R	11.7-1.9R	12.7-1.9R	13.4-1.7R	13.1-1.4R	13.7-1.4R	14.2-1.4R	13.9-1.2R		
		24	q_a	1119	876	754	681	633	598	572	552	536
			F	11.4-3.2R	13.2-3.3R	14.4-3.2R	15.3-3R	15.8-2.5R	16.3-2.3R	16.7-2.2R	17.1-2.1R	17.4-2R
		36	q_a	1119	692	616	571	449	440	434	368	370
			F	11.4-3.2R	15.6-4.8R	16.5-4.3R	17.2-3.9R	19.7-3.9R	19.9-3.6R	19.9-3.2R	22-3.6R	21.9-3.3R
		60	q_a	843	692	479	350	357	283	296	245	205
			F	14-5.1R	15.6-4.8R	19.7-6.3R	23.7-7.6R	22.7-5.2R	26-6.1R	25-5R	27.8-5.6R	30.5-6.3R
16	24/4	4	q_a	3024	2985	2964	2950	2941	2935	2324	1836	1487
			F	4.2-0.2R	4.2-0.1R	4.3-0.1R	4.3-0.1R	4.3-0.1R	4.3-0.1R	4.3-0.1R	4.3+0R	4.3+0R
		8	q_a	2465	2353	2291	2251	2225	2205	2190	1836	1487
			F	5.5-0.5R	5.7-0.4R	5.8-0.3R	5.9-0.3R	5.9-0.2R	6-0.2R	6-0.2R	6-0.2R	6.1-0.2R
		12	q_a	2096	1934	1846	1790	1752	1724	1703	1686	1487
			F	6.5-0.9R	7-0.8R	7.2-0.7R	7.3-0.6R	7.4-0.5R	7.5-0.4R	7.6-0.4R	7.7-0.4R	7.7-0.3R
		18	q_a	1856	1564	1560	1390	1272	1312	1233	1172	1210
	F	7.4-1.4R	8.5-1.4R	8.4-1.1R	9-1R	9.5-0.9R	9.3-0.8R	9.6-0.7R	9.9-0.7R	9.7-0.6R		
		24	q_a	1572	1283	1134	1044	984	942	910	885	865
			F	8.8-2.1R	9.9-2R	10.5-1.9R	11-1.7R	11.3-1.4R	11.6-1.3R	11.8-1.2R	12-1.1R	12.1-1.1R
		36	q_a	1572	996	918	871	697	695	694	597	606
			F	8.8-2.1R	11.9-3.2R	12.3-2.7R	12.5-2.3R	14.4-2.4R	14.3-2.1R	14.2-1.8R	15.7-2.1R	15.5-1.8R
		60	q_a	1151	996	702	526	553	448	478	405	347
			F	11.1-3.8R	11.9-3.2R	15-4.1R	18-5.1R	16.9-3.3R	19.3-3.9R	18.2-3.1R	20.2-3.5R	22.2-3.9R

DGN-24 and DGNF-24

DeltaGrip System with Hilti High Shear Nails,
Pneutek Fasteners, Buildex Pins



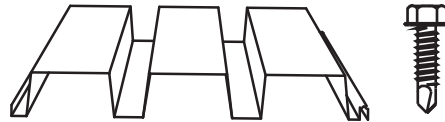
Allowable Diaphragm Shears

(q_a), (ln plf), and Flexibility Factors (F)

Gauge	Support Fasteners	Deltagrip™ Spacing (in)		Span (ft)								
				4	6	8	10	12	14	16	18	20
22	24/4	4	q_a	1009	992	982	976	972	969	828	655	530
			F	11.6-0.7R	11.8-0.5R	12-0.4R	12.1-0.4R	12.1-0.3R	12.2-0.3R	12.2-0.2R	12.3-0.2R	12.3-0.2R
		8	q_a	805	761	736	720	710	702	696	655	530
			F	16.7-2.2R	17.6-1.8R	18.1-1.5R	18.4-1.2R	18.6-1R	18.8-0.9R	18.9-0.8R	19.1-0.7R	19.1-0.7R
		12	q_a	681	620	586	555	534	520	509	500	493
			F	20.7-3.9R	22.5-3.3R	23.5-2.8R	24.2-2.5R	24.6-2R	24.9-1.8R	25.2-1.7R	25.4-1.5R	25.6-1.4R
		18	q_a	603	465	456	399	362	372	347	327	338
			F	24-5.5R	28.6-5.8R	28.3-4.4R	30.7-4.3R	32.5-3.8R	31.7-3.2R	33.1-3.1R	34.3-3R	33.4-2.6R
		24	q_a	481	378	327	296	275	261	249	241	234
			F	29.1-8.5R	33.5-8.3R	36.4-7.6R	38.4-7R	39.6-5.8R	40.8-5.4R	41.6-5R	42.4-4.7R	43.1-4.5R
		36	q_a	481	292	262	244	189	187	185	155	156
			F	29.1-8.5R	41.2-12.7R	43-10.8R	44.1-9.4R	51.3-9.7R	51.2-8.6R	50.9-7.5R	56.6-8.5R	55.9-7.6R
60	q_a	352	292	197	140	146	113	120	97	79		
	F	37.8-14.6R	41.2-12.7R	53-16.5R	64.8-20.2R	60.7-13.4R	70-15.6R	66.4-12.5R	74-14.1R	81.7-15.6R		
20	24/4	4	q_a	1226	1213	1205	1201	1198	1196	1088	860	696
			F	8.9-0.4R	9-0.3R	9.1-0.2R	9.1-0.2R	9.2-0.2R	9.2-0.1R	9.2-0.1R	9.2-0.1R	9.2-0.1R
		8	q_a	1013	972	949	935	925	918	913	860	696
			F	12.7-1.3R	13.2-1R	13.5-0.8R	13.7-0.7R	13.8-0.6R	13.9-0.5R	14-0.5R	14.1-0.4R	14.1-0.4R
		12	q_a	865	804	771	750	735	725	717	710	696
			F	15.9-2.4R	17-2R	17.6-1.7R	17.9-1.4R	18.2-1.2R	18.4-1.1R	18.5-0.9R	18.7-0.9R	18.8-0.8R
		18	q_a	766	645	647	574	525	544	511	486	503
			F	18.6-3.6R	21.8-3.7R	21.2-2.6R	22.9-2.6R	24.2-2.3R	23.4-1.9R	24.3-1.8R	25.2-1.8R	24.5-1.5R
		24	q_a	640	520	461	425	401	384	371	361	353
			F	23-5.8R	25.9-5.4R	27.6-4.8R	28.8-4.3R	29.6-3.6R	30.3-3.3R	30.8-3R	31.2-2.8R	31.6-2.6R
		36	q_a	640	396	367	350	277	277	278	237	241
			F	23-5.8R	32.4-8.8R	33.1-7.1R	33.5-5.9R	39-6.3R	38.4-5.4R	38-4.7R	42.2-5.2R	41.4-4.6R
60	q_a	453	396	274	201	214	171	184	154	129		
	F	31.1-11.1R	32.4-8.8R	41.7-11.4R	51-14R	46.8-9R	53.9-10.5R	50.4-8.2R	56.1-9.2R	61.9-10.2R		
18	24/4	4	q_a	1600	1593	1589	1586	1585	1584	1583	1316	1066
			F	5.9-0.2R	5.9-0.1R	6-0.1R	6-0.1R	6-0.1R	6-0.1R	6-0.1R	6+0R	6+0R
		8	q_a	1402	1372	1355	1345	1338	1332	1328	1316	1066
			F	8.3-0.6R	8.5-0.4R	8.6-0.3R	8.7-0.3R	8.7-0.2R	8.8-0.2R	8.8-0.2R	8.8-0.2R	8.8-0.1R
		12	q_a	1231	1178	1148	1130	1117	1108	1101	1095	1066
			F	10.4-1.1R	10.8-0.9R	11.1-0.7R	11.2-0.6R	11.3-0.5R	11.4-0.4R	11.5-0.4R	11.5-0.3R	11.5-0.3R
		18	q_a	1101	971	991	928	883	909	877	852	874
			F	12.3-1.7R	14-1.7R	13.4-1.1R	14.3-1.1R	15-1R	14.4-0.8R	15-0.7R	15.4-0.7R	14.9-0.6R
		24	q_a	929	836	785	741	711	690	674	662	652
			F	15.5-3R	16.8-2.6R	17.6-2.2R	18.1-1.9R	18.5-1.6R	18.7-1.4R	19-1.3R	19.1-1.2R	19.3-1.1R
		36	q_a	929	638	619	608	490	501	509	441	454
			F	15.5-3R	21.6-4.5R	21.4-3.4R	21.2-2.7R	24.7-3R	24.1-2.5R	23.5-2.1R	26.1-2.3R	25.4-2R
60	q_a	675	638	454	343	380	312	343	294	255		
	F	22.1-6.6R	21.6-4.5R	27.7-5.9R	33.9-7.3R	30.2-4.5R	34.8-5.3R	31.8-3.9R	35.4-4.4R	39-4.9R		
16	24/4	4	q_a	1898	1894	1892	1891	1890	1889	1889	1836	1487
			F	4.3-0.1R	4.3-0.1R	4.3+0R	4.3+0R	4.3+0R	4.4+0R	4.4+0R	4.4+0R	4.4+0R
		8	q_a	1736	1716	1705	1699	1694	1691	1688	1686	1487
			F	5.9-0.3R	6-0.2R	6.1-0.2R	6.1-0.1R	6.1-0.1R	6.1-0.1R	6.2-0.1R	6.2-0.1R	6.2-0.1R
		12	q_a	1570	1530	1507	1493	1484	1476	1471	1467	1463
			F	7.4-0.6R	7.6-0.4R	7.7-0.3R	7.8-0.3R	7.8-0.2R	7.9-0.2R	7.9-0.2R	7.9-0.2R	7.9-0.1R
		18	q_a	1428	1299	1335	1269	1221	1256	1221	1193	1221
			F	8.7-0.9R	9.8-0.9R	9.3-0.6R	9.9-0.5R	10.3-0.5R	9.9-0.4R	10.2-0.4R	10.5-0.3R	10.2-0.3R
		24	q_a	1218	1129	1081	1051	1030	1014	1003	994	986
			F	11.1-1.7R	11.8-1.4R	12.2-1.1R	12.5-1R	12.7-0.8R	12.8-0.7R	12.9-0.6R	13-0.6R	13.1-0.5R
		36	q_a	1218	914	915	915	759	784	803	703	726
			F	11.1-1.7R	15.4-2.6R	14.9-1.8R	14.7-1.4R	17.1-1.6R	16.5-1.3R	16-1.1R	17.7-1.2R	17.2-1R
60	q_a	912	914	672	517	587	488	544	473	415		
	F	16.5-4.2R	15.4-2.6R	19.7-3.4R	24-4.2R	21.1-2.5R	24.1-2.9R	21.9-2.1R	24.3-2.3R	26.7-2.6R		

DGN-24 and DGNF-24

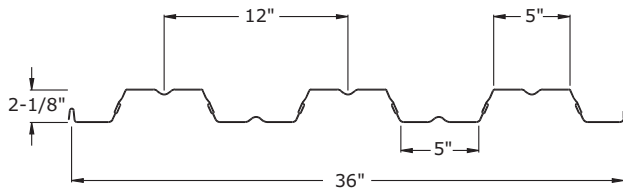
DeltaGrip System with No. 12 Self-Drilling Screws



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Gauge	Support Fasteners	Deltagrip™ Spacing (in)	Span (ft)	Span (ft)									
				4	6	8	10	12	14	16	18	20	
22	24/4	4	q_a	819	811	806	804	802	800	799	655	530	
			F	10.6-1.2R	11.2-1R	11.4-0.8R	11.6-0.7R	11.7-0.6R	11.8-0.5R	11.9-0.5R	12-0.4R	12-0.4R	
		8	q_a	681	656	642	633	627	622	619	616	616	530
			F	14-2.8R	15.4-2.6R	16.3-2.3R	16.8-2.1R	17.2-1.7R	17.5-1.6R	17.8-1.5R	18-1.4R	18.2-1.3R	
		12	q_a	584	545	523	510	501	494	489	485	485	482
			F	16.3-4.2R	18.5-4.2R	20-3.9R	21-3.7R	21.7-3R	22.3-2.9R	22.8-2.7R	23.2-2.5R	23.6-2.4R	
		18	q_a	517	437	440	391	358	371	349	331	343	343
			F	17.8-5.3R	21.9-6.3R	23-5.5R	25.4-5.7R	27.1-5R	27.2-4.5R	28.6-4.4R	29.9-4.4R	29.7-4R	
		24	q_a	429	350	311	287	271	260	252	245	245	240
			F	20-6.9R	24.3-7.9R	27.4-8.1R	29.9-8.1R	31.3-6.7R	33-6.7R	34.2-6.4R	35.4-6.3R	36.5-6.2R	
		36	q_a	429	264	246	235	185	186	187	159	162	162
			F	20-6.9R	27.4-10.4R	30.5-10.2R	32.9-10R	37.5-9.5R	38.9-9.2R	39.7-8.5R	44.1-9.6R	44.7-9.2R	
60	q_a	300	264	181	132	142	112	122	101	84	84		
	F	22.9-9.4R	27.4-10.4R	34.7-13.3R	41.9-16.2R	41.8-11.7R	47.9-13.6R	47.7-12.1R	53-13.6R	58.4-15.1R			
20	24/4	4	q_a	1012	1006	1002	1000	999	998	997	860	696	
			F	8.3-0.7R	8.6-0.6R	8.8-0.5R	8.9-0.4R	9-0.3R	9-0.3R	9.1-0.3R	9.1-0.2R	9.1-0.2R	
		8	q_a	868	845	831	823	818	813	810	808	808	696
			F	11.1-1.9R	12-1.6R	12.5-1.4R	12.8-1.3R	13-1R	13.2-0.9R	13.4-0.9R	13.5-0.8R	13.6-0.7R	
		12	q_a	754	714	693	679	670	663	657	653	653	650
			F	13-2.9R	14.5-2.8R	15.5-2.5R	16.1-2.3R	16.5-1.9R	16.9-1.8R	17.2-1.6R	17.4-1.5R	17.6-1.4R	
		18	q_a	671	584	593	552	520	537	512	488	507	507
			F	14.5-3.9R	17.5-4.4R	18-3.7R	19.7-3.7R	20.9-3.3R	20.8-2.9R	21.7-2.8R	22.6-2.8R	22.3-2.5R	
		24	q_a	565	490	443	414	395	382	372	364	357	357
			F	16.5-5.3R	19.7-5.8R	21.9-5.7R	23.5-5.6R	24.5-4.6R	25.6-4.5R	26.4-4.2R	27.1-4.1R	27.8-4R	
		36	q_a	565	366	349	340	271	275	278	239	245	245
			F	16.5-5.3R	22.7-8R	24.7-7.5R	26.2-7R	30-6.9R	30.7-6.5R	31-5.9R	34.4-6.6R	34.6-6.2R	
60	q_a	398	366	256	190	209	168	185	156	133	133		
	F	19.5-7.7R	22.7-8R	28.7-10.3R	34.7-12.5R	34-8.8R	39-10.3R	38.2-8.8R	42.5-9.9R	46.7-11R			
18	24/4	4	q_a	1394	1389	1387	1386	1385	1384	1384	1316	1066	
			F	5.7-0.3R	5.8-0.2R	5.8-0.2R	5.9-0.2R	5.9-0.1R	5.9-0.1R	5.9-0.1R	6-0.1R	6-0.1R	
		8	q_a	1249	1229	1219	1212	1207	1204	1201	1199	1199	1066
			F	7.6-0.9R	7.9-0.8R	8.2-0.6R	8.3-0.5R	8.4-0.4R	8.5-0.4R	8.5-0.4R	8.6-0.3R	8.6-0.3R	
		12	q_a	1113	1076	1055	1042	1033	1026	1021	1017	1017	1014
			F	9-1.6R	9.8-1.4R	10.2-1.2R	10.5-1R	10.7-0.9R	10.8-0.8R	10.9-0.7R	11-0.7R	11.1-0.6R	
		18	q_a	1003	899	922	870	832	857	830	808	828	828
			F	10.2-2.2R	12-2.4R	12-1.8R	12.9-1.8R	13.6-1.6R	13.4-1.3R	13.9-1.3R	14.4-1.3R	14.1-1.1R	
		24	q_a	850	777	737	712	695	682	673	662	654	654
			F	12-3.3R	13.7-3.3R	14.9-3.1R	15.7-2.9R	16.2-2.4R	16.7-2.2R	17.1-2.1R	17.4-2R	17.7-1.9R	
		36	q_a	850	610	602	597	483	497	507	441	455	455
			F	12-3.3R	16.4-4.9R	17.2-4.3R	17.8-3.8R	20.5-3.9R	20.5-3.5R	20.5-3.1R	22.7-3.5R	22.5-3.1R	
60	q_a	626	610	436	332	373	308	342	294	256	256		
	F	14.9-5.4R	16.4-4.9R	20.7-6.4R	25.1-7.8R	23.8-5.2R	27.2-6.1R	26.1-5R	28.9-5.6R	31.8-6.2R			
16	24/4	4	q_a	1775	1772	1770	1769	1768	1768	1768	1767	1487	
			F	4.2-0.2R	4.2-0.1R	4.3-0.1R	4.3-0.1R	4.3-0.1R	4.3-0.1R	4.3+0R	4.3+0R	4.3+0R	
		8	q_a	1637	1621	1613	1607	1604	1601	1599	1597	1597	1487
			F	5.5-0.5R	5.7-0.4R	5.9-0.3R	5.9-0.3R	6-0.2R	6-0.2R	6-0.2R	6.1-0.2R	6.1-0.1R	
		12	q_a	1492	1458	1439	1428	1420	1414	1409	1406	1403	1403
			F	6.7-0.9R	7.1-0.8R	7.3-0.6R	7.4-0.5R	7.5-0.4R	7.6-0.4R	7.7-0.4R	7.7-0.3R	7.7-0.3R	
		18	q_a	1363	1248	1284	1225	1181	1214	1183	1157	1184	1184
			F	7.6-1.3R	8.7-1.4R	8.6-1R	9.2-1R	9.6-0.9R	9.4-0.7R	9.7-0.7R	10-0.7R	9.8-0.6R	
		24	q_a	1167	1090	1047	1020	1002	988	978	970	964	964
			F	9.1-2.1R	10.2-2R	10.8-1.8R	11.3-1.6R	11.5-1.3R	11.8-1.2R	12-1.1R	12.2-1.1R	12.3-1R	
		36	q_a	1167	883	888	891	755	781	801	702	726	726
			F	9.1-2.1R	12.4-3.2R	12.7-2.6R	12.9-2.2R	14.8-2.3R	14.7-2R	14.5-1.7R	16-2R	15.8-1.7R	
60	q_a	873	883	661	510	582	485	542	472	415	415		
	F	11.8-3.9R	12.4-3.2R	15.6-4.1R	18.9-5.1R	17.5-3.3R	20-3.8R	18.8-3R	20.9-3.4R	22.9-3.7R			

DG2W-36



2W Section Properties

Gauge	Weight	I (In4)	S+ (In3)	S- (In3)
	(psf) Galv			
22	1.63	0.380	0.298	0.339
20	1.95	0.465	0.397	0.411
18	2.57	0.601	0.535	0.538
16	3.21	0.752	0.670	0.670

2W Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
22	164	185	206	227	248	269	291
	415	455	504	567	631	694	758
20	286	318	350	382	414	446	477
	628	680	733	804	886	968	1051
18	615	669	723	777	831	884	938
	1181	1258	1334	1411	1493	1613	1733
16	1054	1130	1207	1283	1360	1436	1512
	1902	2003	2104	2205	2306	2407	2544

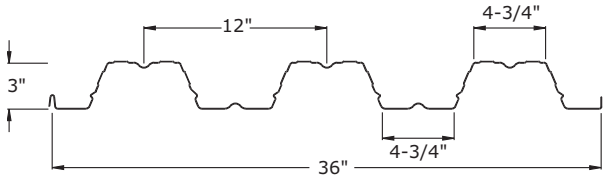
1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

2W-36 Allowable Total (DL + LL) Uniform Load (psf) Without Concrete

Span Condition	Gauge		Span (ft. - in.)												
			6	6-6	7	7-6	8	8-6	9	9-6	10	10-6	11	11-6	12
SINGLE SPAN	22	Stress	125	107	92	80	70	62	55	50	45	41	37	34	31
		Deflection	115	90	72	59	48	40	34	29	24	21	18	16	14
	20	Stress	167	142	123	107	94	83	74	66	60	54	49	45	41
		Deflection	141	111	89	72	59	49	41	35	30	26	22	20	17
	18	Stress	225	192	165	144	127	112	100	90	81	73	67	61	56
		Deflection	182	143	115	93	77	64	54	46	39	34	29	25	22
	16	Stress	282	241	207	181	159	140	125	112	101	92	84	77	70
		Deflection	228	179	143	117	96	80	67	57	49	42	37	32	28
DOUBLE SPAN	22	Stress	143	121	105	91	80	71	63	57	51	46	42	38	35
		Deflection	143	121	105	91	80	71	63	57	51	46	42	38	34
	20	Stress	173	147	127	111	97	86	77	69	62	56	51	47	43
		Deflection	173	147	127	111	97	86	77	69	62	56	51	47	42
	18	Stress	227	193	166	145	127	113	100	90	81	74	67	61	56
		Deflection	227	193	166	145	127	113	100	90	81	74	67	61	54
	16	Stress	282	241	207	181	159	140	125	112	101	92	84	77	70
		Deflection	282	241	207	181	159	140	125	112	101	92	84	77	68
TRIPLE SPAN	22	Stress	178	152	131	114	100	89	79	71	64	58	53	48	44
		Deflection	178	152	131	111	91	76	64	54	47	40	35	30	27
	20	Stress	216	184	159	138	122	108	96	86	78	70	64	59	54
		Deflection	216	184	159	136	112	93	78	67	57	49	43	37	33
	18	Stress	283	241	208	181	159	141	126	113	102	92	84	77	70
		Deflection	283	241	208	176	145	121	101	86	74	64	55	48	43
	16	Stress	353	301	259	226	198	176	157	141	127	115	105	96	88
		Deflection	353	301	259	220	181	151	127	108	93	80	69	61	53

1. Stress based on allowable flexural stress of 22.8 ksi.
2. Deflection based on maximum deflection of L/240.
3. Adequate bearing must be provided.
4. See page 31 of Steel Roof Deck catalog for General Notes.

DG3W-36



3W – Section Properties

Gauge	Weight (psf) Galv	I (In4)	S+ (In3)	S- (In3)
22	1.68	0.769	0.433	0.471
20	2.04	0.938	0.550	0.574
18	2.70	1.260	0.780	0.777
16	3.36	1.582	0.976	0.975

DG3W – Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
22	155	175	195	215	235	255	275
	402	441	488	550	611	673	734
20	275	306	337	367	398	429	459
	615	666	717	787	867	948	1028
18	602	655	707	760	813	866	919
	1170	1246	1322	1398	1479	1598	1717
16	1042	1117	1193	1268	1344	1419	1495
	1898	1998	2099	2200	2300	2401	2538

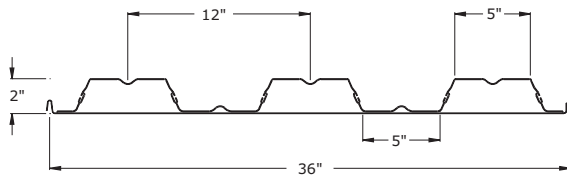
1. The top value reflects the allowable reaction at the panel end supports.
2. The bottom value reflects the allowable reaction at the interior supports.
3. Values are in pounds per linear foot.

DG3W-36 Allowable Total (DL + LL) Uniform Load (psf) Without Concrete

Span Condition	Gauge		Span (ft. - in.)												
			6	6-6	7	7-6	8	8-6	9	9-6	10	10-6	11	11-6	12
SINGLE SPAN	22	Stress	182	155	134	117	102	91	81	72	65	59	54	49	45
		Deflection	182	155	134	117	98	82	69	58	50	43	37	33	29
	20	Stress	232	197	170	148	130	115	103	92	83	75	69	63	58
		Deflection	232	197	170	145	120	100	84	71	61	53	46	40	35
	18	Stress	329	280	241	210	185	164	146	131	118	107	97	89	82
		Deflection	329	280	241	196	161	134	113	96	82	71	62	54	47
	16	Stress	412	351	302	263	231	205	183	164	148	134	122	112	103
		Deflection	412	351	302	246	202	169	142	121	103	89	78	68	60
DOUBLE SPAN	22	Stress	198	169	146	127	111	99	88	79	71	64	59	54	49
		Deflection	98	169	146	127	111	99	88	79	71	64	59	54	49
	20	Stress	242	206	178	155	136	120	107	96	87	79	72	65	60
		Deflection	242	206	178	155	136	120	107	96	87	79	72	65	60
	18	Stress	328	279	241	209	184	163	145	130	118	107	97	89	82
		Deflection	328	279	241	209	184	163	145	130	118	107	97	89	82
	16	Stress	411	350	302	263	231	205	182	164	148	134	122	112	102
		Deflection	411	350	302	263	231	205	182	164	148	134	122	112	102
TRIPLE SPAN	22	Stress	248	211	182	159	139	123	110	99	89	81	73	67	62
		Deflection	248	211	182	159	139	123	110	99	89	81	71	62	55
	20	Stress	302	258	222	193	170	150	134	120	109	98	90	82	75
		Deflection	302	258	222	193	170	150	134	120	109	98	87	76	67
	18	Stress	410	349	301	262	230	204	182	163	147	133	122	111	102
		Deflection	410	349	301	262	230	204	182	163	147	133	117	102	90
	16	Stress	514	438	378	329	289	256	228	205	185	168	153	140	128
		Deflection	514	438	378	329	289	256	228	205	185	168	147	128	113

1. Stress based on allowable flexural stress of 22.8 ksi.
2. Deflection based on maximum deflection of L/240.
3. Adequate bearing must be provided.
4. See page 31 of Steel Roof Deck catalog for General Notes.

DG2WF-36



2WF Section Properties

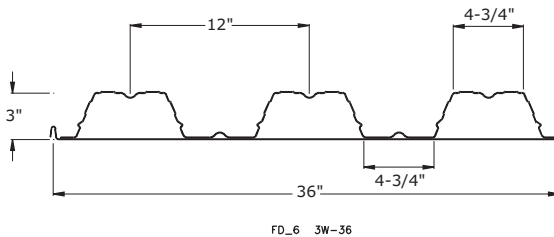
Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20/20	3.60	0.674	0.416	0.435
20/18	4.18	0.741	0.423	0.451
20/16	4.55	0.797	0.429	0.463
18/20	4.15	0.901	0.601	0.600
18/18	4.67	0.928	0.611	0.592
18/16	5.10	1.003	0.621	0.608
16/16	5.79	1.196	0.771	0.749

2WF - Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
20/20	286	318	350	382	414	446	477
	628	680	733	804	886	968	1051
20/18	286	318	350	382	414	446	477
	628	680	733	804	886	968	1051
20/16	286	318	350	382	414	446	477
	628	680	733	804	886	968	1051
18/20	615	669	723	777	831	884	938
	1181	1258	1334	1411	1493	1613	1733
18/18	615	669	723	777	831	884	938
	1181	1258	1334	1411	1493	1613	1733
18/16	615	669	723	777	831	884	938
	1181	1258	1334	1411	1493	1613	1733
16/16	1054	1130	1207	1283	1360	1436	1512
	1902	2003	2104	2205	2306	2407	2544

1. The top value reflects the allowable reaction at the panel end supports. (prior to concrete cure)
2. The bottom value reflects the allowable reaction at the interior supports. (prior to concrete cure)
3. Values are in pounds per linear foot.

DG3WF-36



3WF-Section Properties

Gauge	Weight (psf)	I (In4)	S+ (In3)	S- (In3)
20/20	3.44	1.328	0.623	0.623
20/18	3.96	1.469	0.634	0.646
20/16	4.45	1.585	0.646	0.666
18/20	4.10	1.662	0.870	0.832
18/18	4.59	1.832	0.885	0.855
18/16	5.11	1.984	0.899	0.873
16/16	5.73	2.350	1.113	1.080

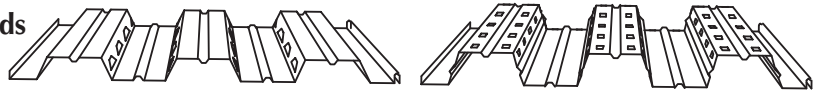
Allowable Reactions (plf)

Gauge	Bearing Length						
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
20/20	275	306	337	367	398	429	459
	615	666	717	787	867	948	1028
20/18	275	306	337	367	398	429	459
	615	666	717	787	867	948	1028
20/16	275	306	337	367	398	429	459
	615	666	717	787	867	948	1028
18/20	602	655	707	760	813	866	919
	1170	1246	1322	1398	1479	1598	1717
18/18	502	655	707	760	813	866	919
	1170	1246	1322	1398	1479	1598	1717
18/16	602	655	707	760	813	866	919
	1170	1246	1322	1398	1479	1598	1717
16/16	1042	1117	1193	1268	1344	1419	1495
	1898	1998	2099	2200	2300	2401	2538

1. The top value reflects the allowable reaction at the panel end supports. (prior to concrete cure)
2. The bottom value reflects the allowable reaction at the interior supports. (prior to concrete cure)
3. Values are in pounds per linear foot.

DG2W-36, DG2WF-36, DG3W-36 and DG3WF-36

DeltaGrip System with Arc Spot/Seam Welds



Allowable Diaphragm Shears (q_a), (ln plf), and Flexibility Factors (F)

Gauge	Support Fasteners	DeltaGrip™ Spacing (in)		Span (ft.)									
				4	6	8	10	12	14	16	18	20	
22	36/4	4	q_a	973	939	919	907	820	602	461	364	295	
			F	3.6+48R	5.3+31.8R	6+24.2R	6.5+19.4R	7.8+13.9R	7.9+11.9R	8.4+10R	8.5+8.9R	8.5+8R	
		8	q_a	811	739	696	669	650	602	461	364	295	
			F	5.5+46.9R	7.8+30.6R	9+23.1R	9.8+18.3R	11.3+13R	11.6+11R	12.3+9.2R	12.4+8.1R	12.6+7.2R	
		12	q_a	723	630	575	524	490	465	447	364	295	
			F	6.7+46.1R	9.6+29.6R	11.1+22R	12.3+17.2R	14+12.1R	14.6+10.1R	15.4+8.3R	15.8+7.2R	16.1+6.4R	
		18	q_a	670	524	473	402	354	349	320	298	295	
			F	7.5+45.5R	11.3+28.4R	12.8+21R	14.8+15.9R	17.1+10.9R	17.5+9R	18.8+7.1R	19.8+5.9R	19.8+5.2R	
		24	q_a	610	457	372	321	287	262	244	230	219	
			F	8.5+44.7R	12.5+27.5R	15.1+19.4R	17.2+14.4R	19.4+9.8R	20.7+7.6R	22+5.9R	23+4.7R	23.8+3.8R	
		36	q_a	610	389	321	280	219	204	193	162	158	
			F	8.5+44.7R	14.1+26.2R	16.7+18.3R	18.8+13.3R	22.6+8.2R	23.9+6.2R	25+4.6R	27.7+2.7R	28.4+1.9R	
60	q_a	525	389	270	199	185	146	143	117	97			
	F	9.8+43.5R	14.1+26.2R	18.7+16.7R	23.2+10.1R	24.7+7.1R	28.4+3.8R	29.2+2.6R	32.3+0.5R	35.5-1.4R			
20	36/4	4	q_a	1213	1183	1166	1155	1089	800	612	484	392	
			F	3.4+30R	4.4+19.9R	4.9+15.1R	5.2+12.1R	6+8.7R	6.1+7.5R	6.4+6.3R	6.4+5.6R	6.4+5R	
		8	q_a	1026	953	910	882	862	800	612	484	392	
			F	5+29.2R	6.5+19.1R	7.2+14.4R	7.7+11.5R	8.6+8.2R	8.9+6.9R	9.2+5.8R	9.3+5.1R	9.4+4.6R	
		12	q_a	914	814	756	719	692	672	612	484	392	
			F	6.1+28.5R	8+18.3R	9+13.6R	9.8+10.7R	10.8+7.5R	11.2+6.3R	11.7+5.2R	11.9+4.5R	12.1+4R	
		18	q_a	844	696	655	564	504	503	465	436	392	
			F	6.9+28R	9.6+17.3R	10.4+12.9R	11.9+9.7R	13.4+6.6R	13.5+5.5R	14.4+4.4R	15.1+3.6R	15+3.2R	
		24	q_a	762	609	507	446	405	376	354	337	324	
			F	7.9+27.2R	10.8+16.5R	12.6+11.6R	14+8.5R	15.4+5.7R	16.3+4.5R	17.2+3.4R	17.8+2.7R	18.3+2.2R	
		36	q_a	762	510	433	387	307	292	280	239	235	
			F	7.9+27.2R	12.3+15.4R	14.1+10.6R	15.5+7.7R	18.4+4.4R	19.2+3.2R	19.8+2.3R	21.9+1.1R	22.2+0.7R	
60	q_a	664	510	359	268	257	207	206	173	146			
	F	9.3+26R	12.3+15.4R	16.1+9.1R	19.8+4.7R	20.5+3.3R	23.5+1.1R	23.7+0.7R	26.2-0.8R	28.8-2.1R			
18	36/4	4	q_a	1687	1665	1653	1645	1639	1235	945	747	605	
			F	2.8+14.4R	3.3+9.6R	3.5+7.3R	3.6+5.8R	4+4.2R	4+3.6R	4.2+3R	4.2+2.7R	4.2+2.4R	
		8	q_a	1471	1403	1363	1337	1318	1235	945	747	605	
			F	4+13.9R	4.7+9.2R	5+6.9R	5.2+5.5R	5.6+3.9R	5.7+3.4R	5.9+2.8R	5.9+2.5R	6+2.2R	
		12	q_a	1320	1215	1153	1113	1085	1064	945	747	605	
			F	4.8+13.5R	5.7+8.7R	6.2+6.5R	6.6+5.1R	7.1+3.6R	7.2+3.1R	7.4+2.5R	7.5+2.2R	7.6+2R	
		18	q_a	1216	1037	1010	927	867	875	828	747	605	
			F	5.5+13.1R	7+8.1R	7.3+6.1R	8.1+4.6R	8.9+3.1R	8.8+2.6R	9.3+2.1R	9.7+1.8R	9.5+1.6R	
		24	q_a	1087	928	829	749	695	656	628	605	587	
			F	6.4+12.5R	8+7.5R	9+5.2R	9.7+3.9R	10.4+2.6R	10.9+2R	11.3+1.5R	11.5+1.2R	11.8+1R	
		36	q_a	1087	786	696	642	517	504	494	427	427	
			F	6.4+12.5R	9.4+6.5R	10.3+4.5R	10.9+3.3R	12.9+1.6R	13.1+1.2R	13.3+0.9R	14.7+0.2R	14.7+0.1R	
60	q_a	929	786	562	428	428	352	361	309	267			
	F	7.8+11.3R	9.4+6.5R	12.1+3.3R	14.8+0.9R	14.7+0.8R	16.8-0.4R	16.4-0.3R	18.2-1.1R	20-1.8R			
16	36/4	4	q_a	2146	2130	2121	2115	2111	1732	1326	1048	849	
			F	2.3+8.2R	2.5+5.4R	2.6+4.1R	2.7+3.3R	2.9+2.4R	3+2R	3+1.7R	3+1.5R	3+1.4R	
		8	q_a	1922	1862	1827	1804	1788	1732	1326	1048	849	
			F	3.1+7.9R	3.5+5.2R	3.7+4R	3.8+3.2R	4+2.3R	4.1+1.9R	4.2+1.6R	4.2+1.4R	4.2+1.3R	
		12	q_a	1742	1640	1580	1541	1513	1493	1326	1048	849	
			F	3.8+7.6R	4.3+4.9R	4.6+3.7R	4.8+2.9R	5+2.1R	5.1+1.8R	5.2+1.5R	5.3+1.3R	5.3+1.2R	
		18	q_a	1609	1408	1396	1298	1227	1247	1198	1048	849	
			F	4.3+7.3R	5.3+4.5R	5.4+3.4R	5.9+2.6R	6.4+1.8R	6.3+1.5R	6.6+1.2R	6.8+1R	6.6+0.9R	
		24	q_a	1433	1258	1156	1090	1044	1007	971	943	849	
			F	5.2+6.8R	6.1+4.1R	6.7+2.9R	7.1+2.2R	7.5+1.4R	7.8+1.1R	8+0.9R	8.1+0.7R	8.2+0.6R	
		36	q_a	1433	1080	1010	952	774	766	761	663	669	
			F	5.2+6.8R	7.4+3.4R	7.8+2.3R	8.1+1.7R	9.5+0.8R	9.5+0.6R	9.5+0.4R	10.5+0.1R	10.4+0.1R	
60	q_a	1204	1080	799	616	634	526	551	476	417			
	F	6.5+5.8R	7.4+3.4R	9.4+1.4R	11.4-0.1R	11+0.1R	12.6-0.6R	12.1-0.4R	13.4-0.9R	14.6-1.3R			

DG2W-36, DG2WF-36, DG3W-36 and DG3WF-36

DeltaGrip System with Hilti High Shear Nails, Pneutek Fasteners, Buildex Pins,

No. 12 Self Drilling Screws* *Reduction for Shear ~ See note 12 for DeltaGrip page 2

Allowable Diaphragm Shears

(q_a), (ln plf), and Flexibility Factors (F)

Gauge	Support Fasteners	Deltagrip™ Spacing (in)		Span (ft)									
				4	6	8	10	12	14	16	18	20	
22	36/4	4	q_a	716	708	704	701	699	602	461	364	295	
			F	4.4+48.3R	5.9+32.2R	6.5+24.5R	7+19.7R	8.2+14.2R	8.3+12.1R	8.7+10.2R	8.8+9.1R	8.8+8.2R	
		8	q_a	630	605	590	580	573	568	461	364	295	
			F	7.8+47.2R	9.8+31.2R	10.7+23.7R	11.3+19R	12.7+13.6R	12.9+11.6R	13.4+9.7R	13.5+8.6R	13.6+7.8R	
		12	q_a	567	526	502	487	476	468	461	364	295	
			F	10.4+46R	13+30.1R	14.3+22.7R	15.2+18R	16.7+12.8R	17.1+10.9R	17.7+9.1R	17.9+8R	18+7.2R	
		18	q_a	523	450	441	407	380	386	362	343	295	
			F	12.5+44.9R	17+28.3R	17.4+21.5R	19.6+16.7R	22+11.5R	21.6+9.9R	23+8R	23.9+6.9R	23.4+6.3R	
		24	q_a	466	402	355	322	299	283	271	262	254	
			F	15.6+43R	20.1+26.6R	22.6+19.2R	24.5+14.7R	26.6+10.1R	27.6+8.2R	28.7+6.6R	29.3+5.6R	29.8+4.9R	
		36	q_a	466	331	295	273	218	213	210	180	181	
			F	15.6+43R	24.7+23.7R	26.7+17.1R	28.2+13R	34.1+7.4R	34.4+6R	34.8+4.8R	38.6+2.9R	38.3+2.6R	
		60	q_a	396	331	234	175	177	144	149	126	108	
			F	20.7+39.2R	24.7+23.7R	32.9+13.4R	40.9+5.9R	40+4.9R	46.2+1.3R	44.6+1.4R	49.7-0.9R	54.8-3R	
20	36/4	4	q_a	855	849	846	844	843	800	612	484	392	
			F	3.9+30.2R	4.8+20.1R	5.2+15.4R	5.5+12.3R	6.2+8.9R	6.3+7.6R	6.6+6.4R	6.6+5.7R	6.6+5.1R	
		8	q_a	771	750	737	729	724	719	612	484	392	
			F	6.5+29.5R	7.7+19.6R	8.2+14.9R	8.6+11.9R	9.4+8.5R	9.5+7.3R	9.9+6.1R	9.9+5.4R	9.9+4.9R	
		12	q_a	701	664	642	627	617	610	604	484	392	
			F	8.6+28.7R	10.2+18.8R	10.9+14.2R	11.4+11.4R	12.4+8.1R	12.6+6.9R	13+5.8R	13.1+5.1R	13.1+4.6R	
		18	q_a	649	572	569	531	503	512	493	477	392	
			F	10.3+27.9R	13.3+17.6R	13.3+13.5R	14.8+10.5R	16.4+7.2R	16+6.3R	16.9+5.1R	17.5+4.4R	17+4R	
		24	q_a	578	511	472	446	425	407	393	382	373	
			F	13+26.4R	15.9+16.4R	17.5+12R	18.7+9.2R	20+6.3R	20.6+5.2R	21.2+4.2R	21.6+3.6R	21.8+3.2R	
		36	q_a	578	437	402	381	307	305	304	263	266	
			F	13+26.4R	19.9+14.2R	20.9+10.4R	21.6+8.1R	26+4.4R	25.9+3.7R	25.9+3R	28.8+1.8R	28.4+1.7R	
		60	q_a	484	437	314	239	248	204	215	185	160	
			F	17.8+23.2R	19.9+14.2R	26.3+7.5R	32.6+2.6R	31+2.5R	35.7+0.2R	33.9+0.5R	37.8-0.9R	41.7-2.3R	
18	36/4	4	q_a	1095	1092	1090	1089	1089	1088	945	747	605	
			F	3+14.5R	3.4+9.7R	3.6+7.4R	3.7+5.9R	4.1+4.3R	4.1+3.7R	4.2+3.1R	4.2+2.7R	4.2+2.5R	
		8	q_a	1024	1011	1003	998	994	992	945	747	605	
			F	4.6+14.2R	5.1+9.4R	5.4+7.2R	5.5+5.8R	5.9+4.1R	6+3.5R	6.1+3R	6.1+2.6R	6.2+2.4R	
		12	q_a	953	925	909	898	890	885	881	747	605	
			F	6+13.8R	6.7+9.1R	7+6.9R	7.3+5.5R	7.7+3.9R	7.8+3.4R	7.9+2.8R	8+2.5R	8+2.2R	
		18	q_a	892	817	825	786	756	771	750	733	605	
			F	7.2+13.4R	8.8+8.5R	8.6+6.6R	9.3+5.1R	10.2+3.6R	9.8+3.1R	10.3+2.5R	10.6+2.2R	10.3+2R	
		24	q_a	800	735	697	672	655	642	632	625	605	
			F	9.2+12.5R	10.6+7.8R	11.4+5.8R	11.9+4.5R	12.5+3.1R	12.7+2.6R	13+2.1R	13.1+1.9R	13.2+1.6R	
		36	q_a	800	627	611	600	523	528	532	470	481	
			F	9.2+12.5R	13.7+6.5R	13.8+4.9R	13.9+3.9R	16.6+2.1R	16.2+1.8R	16+1.5R	17.8+1R	17.3+1R	
		60	q_a	659	627	500	387	418	349	377	328	289	
			F	13.3+10.1R	13.7+6.5R	17.8+3.2R	21.9+0.7R	20.1+1R	23.1-0.1R	21.5+0.2R	23.9-0.5R	26.3-1.1R	
16	36/4	4	q_a	1284	1283	1282	1281	1281	1281	1281	1048	849	
			F	2.4+8.2R	2.6+5.5R	2.7+4.2R	2.8+3.4R	3+2.4R	3+2.1R	3.1+1.7R	3.1+1.6R	3.1+1.4R	
		8	q_a	1230	1222	1217	1214	1212	1211	1210	1048	849	
			F	3.5+8.1R	3.8+5.4R	3.9+4.1R	4+3.3R	4.2+2.4R	4.2+2R	4.3+1.7R	4.3+1.5R	4.3+1.4R	
		12	q_a	1168	1149	1138	1131	1126	1122	1119	1048	849	
			F	4.4+7.9R	4.8+5.2R	5+4R	5.1+3.2R	5.3+2.3R	5.4+1.9R	5.5+1.6R	5.5+1.4R	5.5+1.3R	
		18	q_a	1108	1042	1058	1023	996	1014	994	978	849	
			F	5.3+7.6R	6.3+4.9R	6+3.8R	6.5+3R	7+2.1R	6.7+1.8R	7+1.5R	7.2+1.3R	7+1.2R	
		24	q_a	1007	952	920	898	884	873	864	857	849	
			F	6.9+7R	7.6+4.5R	8+3.4R	8.2+2.6R	8.6+1.8R	8.7+1.5R	8.8+1.3R	8.9+1.1R	9+1R	
		36	q_a	1007	819	814	811	720	732	741	682	695	
			F	6.9+7R	9.9+3.7R	9.7+2.9R	9.7+2.3R	11.5+1.3R	11.1+1.1R	10.9+1R	12.1+0.7R	11.7+0.6R	
		60	q_a	829	819	675	563	613	527	579	507	450	
			F	10.2+5.4R	9.9+3.7R	12.8+1.8R	15.7+0.4R	14.1+0.6R	16.1+0R	14.8+0.2R	16.4-0.2R	18-0.5R	

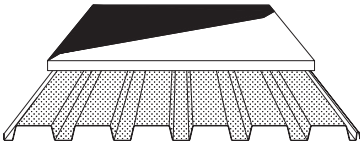
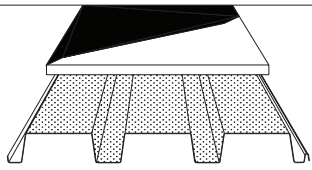
Acustadek™

ASC Steel Deck's Acustadek combines the design flexibility and strength of steel deck with high sound absorption qualities to offer an economical system for attenuating sound. Acustadek is an excellent product for use in theaters, churches, gymnasiums, convention center and manufacturing environments.

ASC Acustadek provides:

- An attractive exposed ceiling.
- It is easily blended with ASC's non-acoustical roof profiles.
- NRC tests were conducted in compliance with ANSI C423 and ASTM E795 test criteria.
- Sound absorption elements are inert and non-organic mineral wool.
- Test reports will be furnished upon request.

Sound Absorption Data

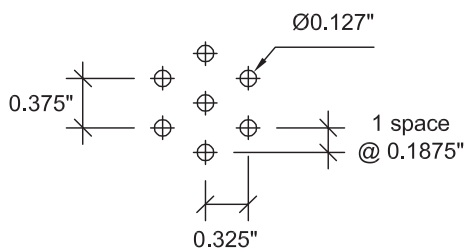
Acustadek Profile (Perforation Type)	Absorption Coefficient						Noise Reduction Coefficient
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
 DGB-36 Full Perforation Acustadek	0.23	0.48	0.92	0.97	0.95	0.76	0.85
 DGN-24 Full Perforation Acustadek	0.43	0.61	1.01	1.05	1.00	0.76	0.90

Full Perforation Acustadek Adjustment Factors

Deck Type	Section Properties			Diaphragm	
	I	S+	S-	Shear	Flexibility
DGB-36 Full Perforation Acustadek	0.87	0.67	0.69	0.85	1.00
DGN-24 Full Perforation Acustadek	0.86	0.67	0.71	0.85	1.00

Adjustment factor to be multiplied to non-Acustadek value to obtain reduced full perforation value

Perforation Pattern



Perforation over all surfaces (except where noted)

