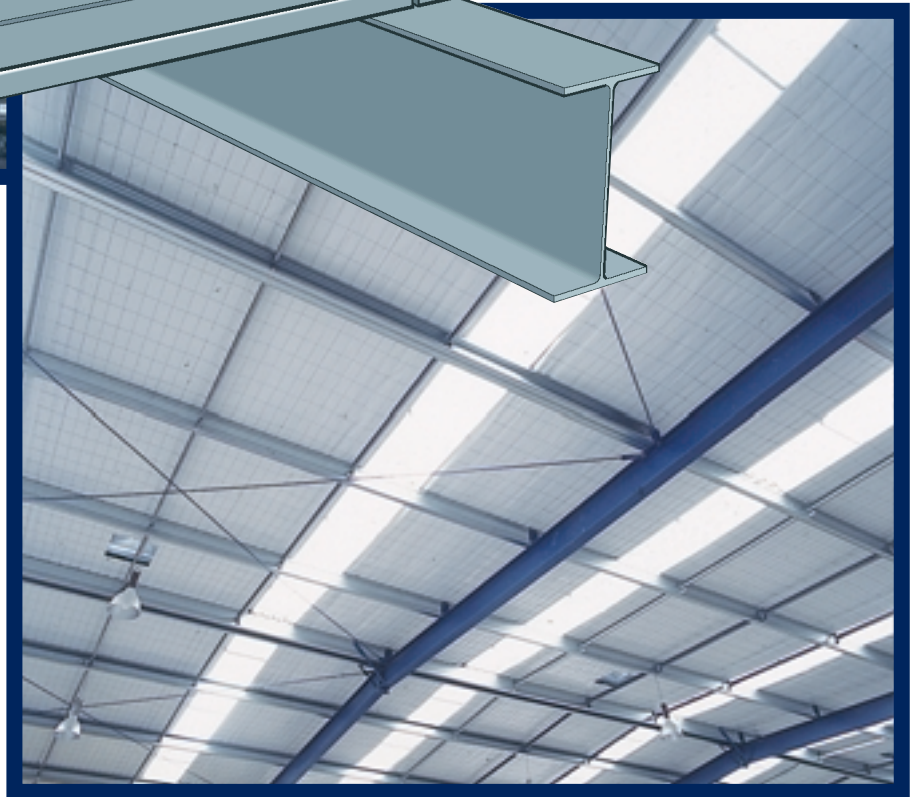
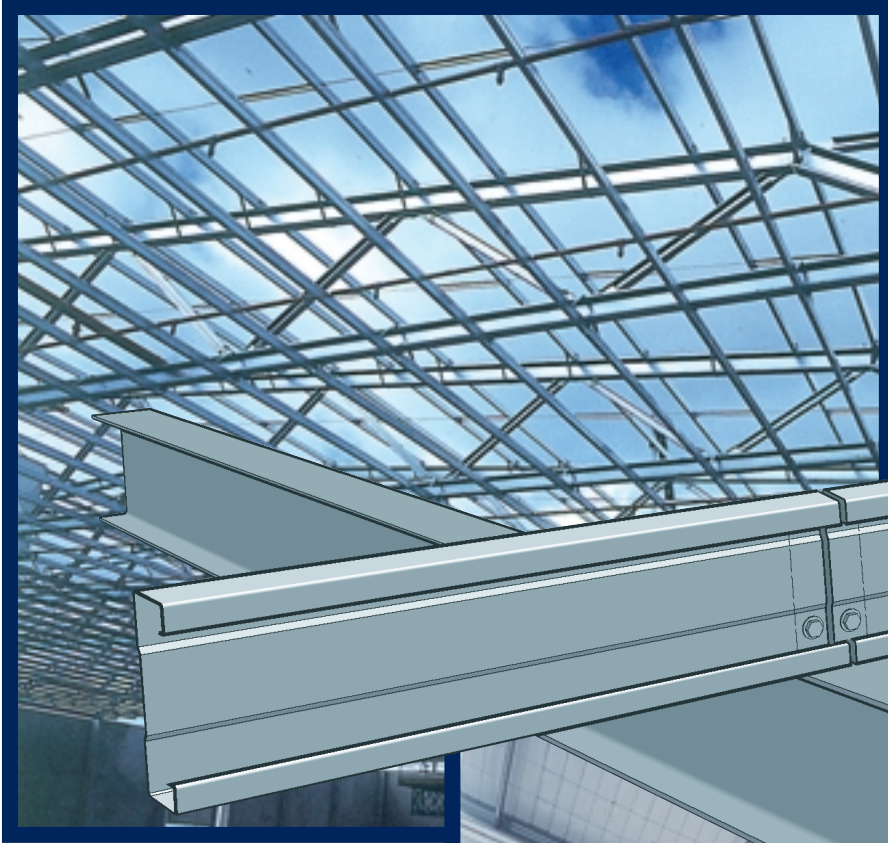


# FIELDERS | DHS | Hi-Span Steel Sections



**F**ielders are proud to introduce their new DHS (Dimond Hi-Span) structural purlin range. The new revolutionary design now offers the building industry an opportunity to deliver improved performance per weight of steel compared to traditional methods of design.

***FIELDERS NOW BOAST THE LARGEST RANGE OF HIGH SPAN STEEL SECTIONS ON THE MARKET!***

There is now a Fielders DHS (Dimond Hi-Span) Steel Section for your project no matter how big or small. The superior range of gauges and sizes provide you with greater flexibility in your design as well as a more efficient result. The Fielders DHS is set to change the standards of the Australian building industry.

The new stiffened web reinforces the strength of the steel giving you the opportunity to reduce your gauge providing you with a possible steel weight *saving of up to 20%* without having to sacrifice strength or performance.

The Fielders DHS is one of the easiest to handle sections on the market as well as the most aesthetically appealing. The softer edging of the lips gives the added benefit of improved site safety during handling and easier sliding on rafters. The Fielders DHS is a smoother and sleeker looking section compared to any other on the market making it the perfect choice for exposed applications.

Fielders introduction of this new and improved product, reinforces their focus on constant innovation and improvement to the building and construction industry throughout Australia.

## Features:

The **unique profile** of the Fielders DHS range ensures all elements of the high tensile steel section are utilised, delivering improved performance and efficiency.

The **superior range** of sizes and material gauges means there is a DHS size that closely fits your needs, no matter how big or small.

The return lips at the flanges add material and stiffness where they are needed to deliver exceptional bending capacity of the section. Similarly, the web swage stiffens the web of the purlin to prevent buckling. The benefits are many and varied - longer spans, larger bay sizes, less supporting frames, less bridging, lower building weight, increased load bearing capability - and much more.

Transport and handling is safe and easy with the Fielders DHS. The profile provides a torsionally stiff and rigid member allowing easy flipping or positioning, and the returned lip minimises sharp edges both in transport and end-use.

This brochure provides a host of detailed information on the features, properties and capabilities of the Fielders DHS.





## Who uses it:

- **Shed designers** and manufacturers ... who want improved strength-to-weight for their portal frame columns, rafters and other members
- **Engineers and architects** ... looking for longer span roof purlins and wall girt outcomes
- **Builders** ... that demand more cost effective structural products for structural frame and flooring applications

Primarily the Fielders DHS was designed with shed manufacturers in mind as the DHS offers substantial cost savings and increased performance per weight of steel. Alternatively the Fielders DHS can also be used effectively for general roof purlin and wall girt applications.

## Design Services

Contact a Fielders technical representative for further assistance with your design or use of the tables in this document.

## Ordering / Pricing

Contact your local Fielders branch for a standard order form and for any pricing and order enquiries.

## Availability

All sections are rolled to order and are available in lengths up to 12.0m. Longer lengths maybe available on request and may incur additional delivery charges. Manufacturing lead times are approximately 1 week. Please check with your Fielders office for details.

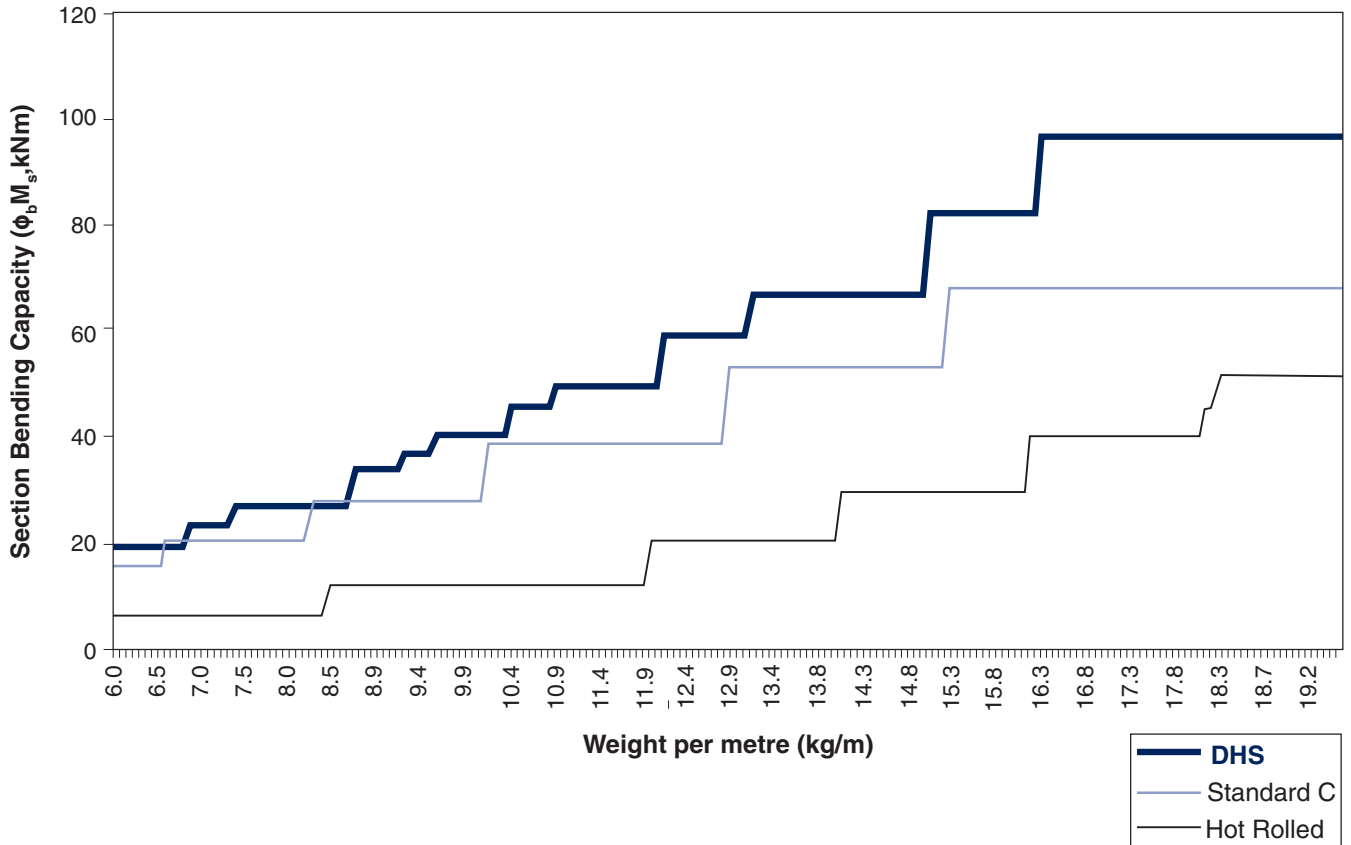
## Storage

Products should not be left in exposed areas for extended periods of time. They should be stacked neatly and positioned so that water is not allowed to pond.

Further information can be found at [www.fielders.com.au](http://www.fielders.com.au) or by phoning Fielders First on 1800 182 255.

## Typical Comparison Charts

### Typical Bending Strength-to-Weight performance



### Typical Purlin Span Comparison

DHS	kg/m	Span range (mm)						Std C	kg/m
		3	4	5	6	7	8		
DHS15012	3.07	Yes	Yes	Yes	Yes	Yes	Yes	150LC15	3.53
DHS20012	3.82	Yes	Yes	Yes	Yes	Yes	Yes	200LC15	4.39
DHS25012	4.57	Yes	Yes	Yes	Yes	Yes	Yes	200LC19	5.73
DHS25015	5.71	Yes	Yes	Yes	Yes	Yes	Yes	250LC19	6.27
DHS20019	6.06	Yes	Yes	Yes	Yes	Yes	Yes	200LC24	7.10
DHS30015	6.77	Yes	Yes	Yes	Yes	Yes	Yes	250LC24	7.87
DHS25019	7.23	Yes	Yes	Yes	Yes	Yes	Yes	300LC24	10.09
DHS30019	8.58	Yes	Yes	Yes	Yes	Yes	Yes	300LC30	12.76
DHS35019	9.47	Yes	Yes	Yes	Yes	Yes	Yes		
DHS40019	10.35	Yes	Yes	Yes	Yes	Yes	Yes		
DHS40024	13.07	Yes	Yes	Yes	Yes	Yes	Yes		

**PLEASE NOTE:**

Care has been taken to ensure that the information presented herein is accurate, however Fielders Australia Pty Ltd does not accept responsibility for errors due to misinterpretation by the user. Fielders liability pursuant to guarantees are limited to the re-supply of material and specifically excludes any claim for consequential direct or indirect losses. It is recommended that you obtain qualified expert advice when seeking confirmation of product application.

## DHS Technical Information

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## General Product Data

### Sections

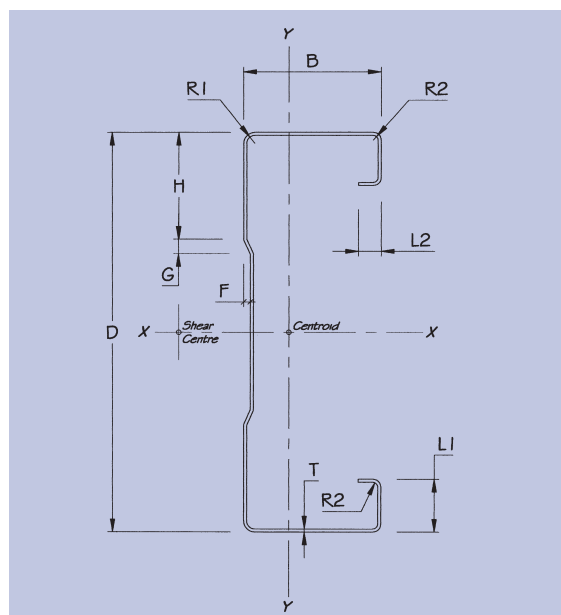
All Fielders DHS sections are rolled to length. DHS sections may be used in single spans, double and triple spans. The table lists all the DHS sections within the Fielders range;

The sections are typically referenced as follows;

<b>DHS10010</b>		
DHS Section	100mm Deep	1.0mm Gauge

**Table A1 - Section Geometry**

Section Designation	D (mm)	B (mm)	F (mm)	G (mm)	H (mm)	L1 (mm)	L2 (mm)	T (mm)	R1 (mm)	R2 (mm)
DHS10010	100	50	-	-	-	17	10	1.0	5	3
DHS10012	100	50	-	-	-	18	10	1.2	5	3
DHS10015	100	51	-	-	-	19	10	1.5	5	3
DHS10019	100	51	-	-	-	20	10	1.9	5	3
DHS10024	100	51	-	-	-	22	10	2.4	5	3
DHS15012	150	66	2.8	6.5	59	23	10	1.2	5	3
DHS15015	150	67	2.5	6.5	59	24	10	1.5	5	3
DHS15019	150	67	2.1	6.5	59	24	10	1.9	5	3
DHS15024	150	68	1.6	6.5	59	26	10	2.4	5	3
DHS20012	200	75	2.8	7.0	62	29	10	1.2	5	3
DHS20015	200	76	2.5	7.0	62	29	10	1.5	5	3
DHS20019	200	77	2.1	7.0	62	30	10	1.9	5	3
DHS20024	200	78	1.6	7.0	62	30	10	2.4	5	3
DHS25012	250	85	4.8	9.0	67	32	15	1.2	5	3
DHS25015	250	86	4.5	9.0	67	33	15	1.5	5	3
DHS25019	250	86	4.1	9.0	67	34	15	1.9	5	3
DHS25024	250	87	3.6	9.0	67	35	15	2.4	5	3
DHS30015	300	100	5.5	9.7	67	38	15	1.5	5	3
DHS30019	300	101	5.1	9.7	67	38	15	1.9	5	3
DHS30024	300	101	4.6	9.7	67	39	15	2.4	5	3
DHS30030	300	103	4.0	9.7	67	40	15	3.0	5	3
DHS35019	350	101	5.1	9.8	77	43	15	1.9	5	3
DHS35024	350	102	4.6	9.8	77	44	15	2.4	5	3
DHS35030	350	103	4.0	9.8	77	44	15	3.0	5	3
DHS40019	400	101	5.1	9.4	79	49	12	1.9	5	3
DHS40024	400	102	4.6	9.4	79	49	12	2.4	5	3
DHS40030	400	102	4.0	9.4	79	50	12	3.0	5	3

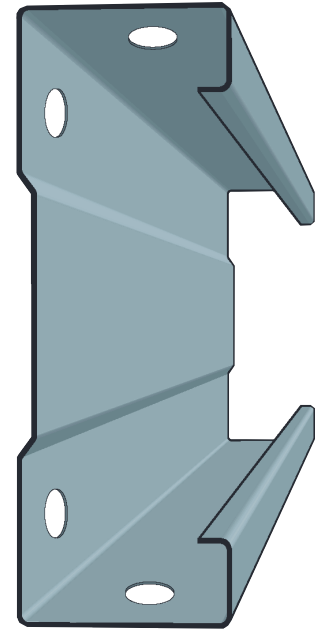


## Tolerances

The following tolerances apply to DHS sections:

### Profile Tolerances:

- Depth:  $\pm 2\text{mm}$
- Flange width:  $\pm 2\text{mm}$
- Overall length:  $\pm 2\text{mm}$
- Hole centres:  $\pm 1.5\text{mm}$
- Camber: Up to 1 in 500 depending on length.  
(Camber is the variation from straightness in the plane of the web.)
- Bow: Up to 1 in 300 depending on length. (Bow is the variation from straightness in a plane perpendicular to the web.)



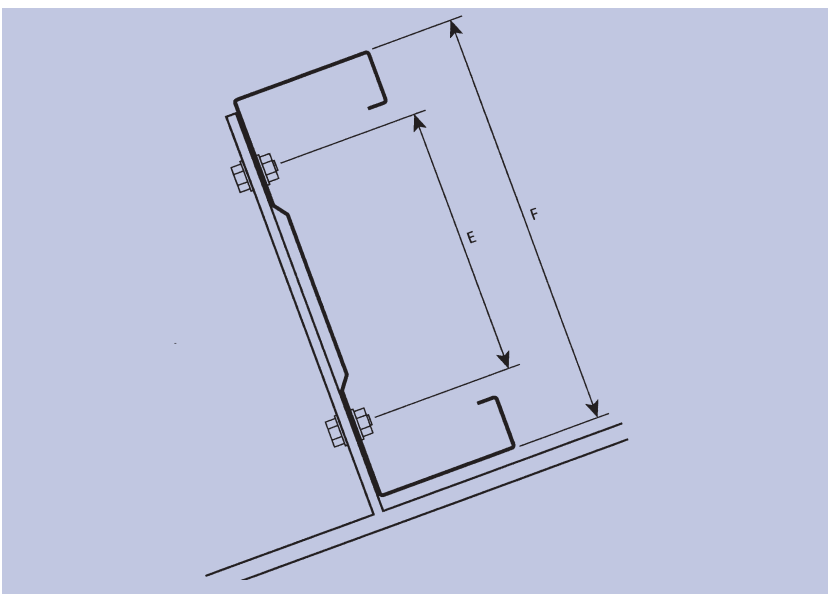
## Materials

All DHS Sections are rolled using high tensile steel. The product has a standard galvanized coating of Z350 (350 grams of zinc per  $\text{m}^2$ ) and is typically used in non-aggressive areas. For severe and aggressive environments where a build-up of airborne corrosive contaminants can affect the coating, Z450 is recommended (450 grams of zinc per  $\text{m}^2$ ).

The following table lists the Steel Grade for each steel gauge;

1.0mm	550 MPa
1.2mm	500 MPa
1.5mm	450 MPa
1.9mm	450 MPa
2.4mm	450 MPa
3.0mm	450 MPa

## Standard DHS Section Connection Detail



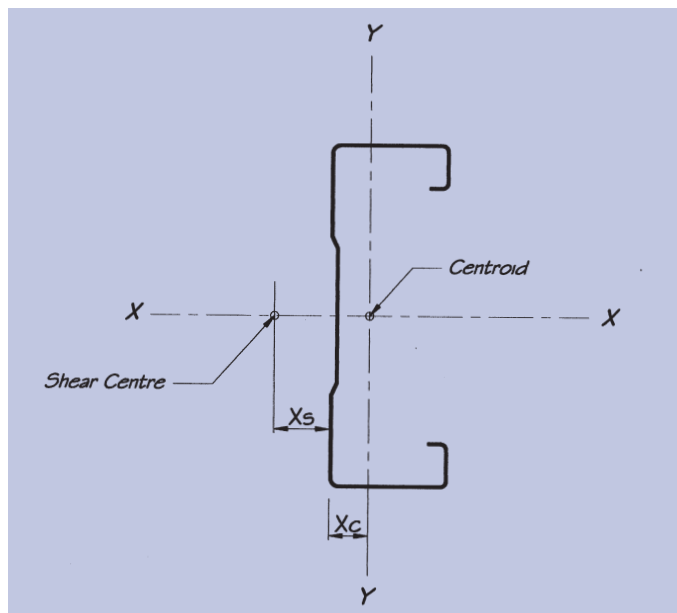
### Standard Hole Gauge

F	E
100	40
150	60
200	110
250	160
300	210
350	260
400	310

# additional hole gauges available on request

## Table A2 - Section Properties

Section Designation	Area mm <sup>2</sup>	Mass kg/m	Centroid		Shear Centre	Monosymmetry Constant	2nd Moment of Area About Principal Axes		Section Modulus About Principal Axes		Radius of Gyration		Torsion Constant	Warping Constant
			$x_c$ mm	$x_s$ mm	$\beta_y$	$I_x$ x10 <sup>6</sup> mm <sup>4</sup>	$I_y$ x10 <sup>6</sup> mm <sup>4</sup>	$Z_x$ x10 <sup>3</sup> mm <sup>3</sup>	$Z_y$ x10 <sup>3</sup> mm <sup>3</sup>	$r_x$ mm	$r_y$ mm	J mm <sup>4</sup>	$I_w$ x10 <sup>9</sup> mm <sup>4</sup>	
DHS10010	230	1.81	18.2	-27.4	121	0.358	0.085	7.30	2.84	39.4	19.2	76.7	0.221	
DHS10012	277	2.17	18.3	-27.6	121	0.427	0.102	8.72	3.45	39.3	19.2	133	0.273	
DHS10015	347	2.72	18.6	-27.9	121	0.530	0.129	10.9	4.40	39.1	19.3	260	0.353	
DHS10019	438	3.44	18.5	-27.9	120	0.661	0.161	13.6	5.55	38.8	19.2	527	0.446	
DHS10024	554	4.35	18.7	-28.2	120	0.823	0.206	17.0	7.12	38.5	19.3	1063	0.582	
DHS15012	389	3.05	22.9	-33.3	167	1.36	0.247	18.3	6.05	59.1	25.2	187	1.39	
DHS15015	485	3.81	23.0	-33.5	167	1.69	0.311	22.9	7.60	59.0	25.3	364	1.74	
DHS15019	612	4.80	23.0	-33.8	167	2.12	0.395	28.8	9.60	58.8	25.4	736	2.18	
DHS15024	778	6.11	23.5	-34.8	168	2.67	0.517	36.4	12.6	58.6	25.8	1494	2.92	
DHS20012	483	3.79	24.9	-36.4	207	2.94	0.399	29.8	8.33	78.0	28.7	232	3.88	
DHS20015	605	4.75	25.1	-37.0	208	3.68	0.510	37.3	10.6	78.0	29.0	454	4.94	
DHS20019	766	6.01	25.3	-37.6	209	4.65	0.658	47.2	13.5	77.9	29.3	922	6.31	
DHS20024	965	7.58	25.4	-38.1	211	5.84	0.842	59.4	17.1	77.8	29.5	1853	7.96	
DHS25012	588	4.62	28.0	-39.0	248	5.53	0.611	44.6	11.2	97.0	32.2	282	9.41	
DHS25015	739	5.80	28.5	-40.0	249	6.93	0.789	56.0	14.3	96.9	32.7	554	12.3	
DHS25019	931	7.31	28.3	-40.1	249	8.71	0.988	70.5	18.0	96.7	32.6	1121	15.2	
DHS25024	1174	9.22	28.2	-40.7	249	10.9	1.25	88.6	22.9	96.5	32.7	2254	19.2	
DHS30015	870	6.83	32.7	-44.1	295	11.8	1.24	79.2	19.1	116	37.7	653	27.2	
DHS30019	1100	8.64	32.6	-44.6	296	14.9	1.57	100	24.2	116	37.8	1324	34.4	
DHS30024	1387	10.9	32.6	-45.3	297	18.7	1.99	126	30.7	116	37.9	2663	43.4	
DHS30030	1734	13.6	32.8	-46.5	298	23.3	2.56	157	38.9	116	38.4	5202	55.1	
DHS35019	1216	9.55	31.5	-43.9	338	21.8	1.75	125	26.3	134	38.0	1463	52.0	
DHS35024	1533	12.0	31.5	-44.7	340	27.4	2.24	158	33.4	134	38.2	2944	65.7	
DHS35030	1911	15.0	31.4	-45.5	342	34.1	2.83	197	41.8	134	38.5	5733	81.8	
DHS40019	1321	10.4	30.1	-42.1	388	30.1	1.88	152	27.6	151	37.7	1589	72.0	
DHS40024	1663	13.1	29.9	-42.7	390	37.9	2.37	191	34.8	151	37.8	3193	90.1	
DHS40030	2070	16.3	29.6	-43.2	392	47.0	2.96	237	43.3	151	37.8	6210	111	

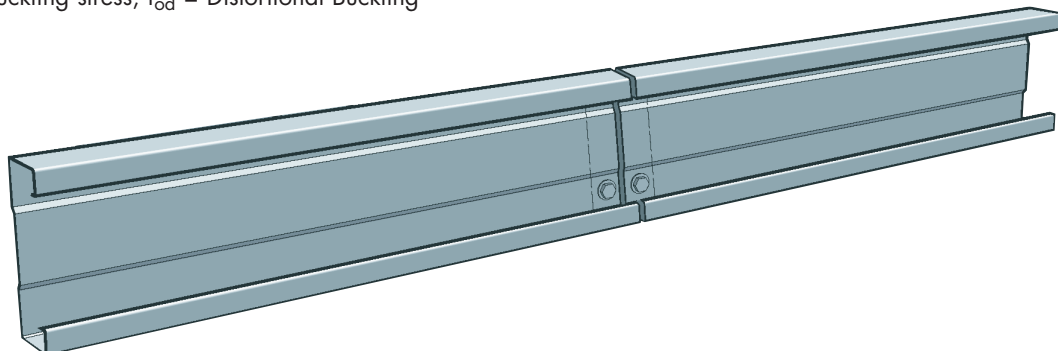


## Table A3 - Effective Section Properties

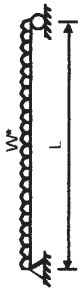
Section Designation	Effective Area at Yield Stress	Effective Area at Critical Stress	Effective Second Moment of Area About Principal Axis	Effective Section Modulus at Yield Stress	Effective Section Modulus at Critical Stress	Buckling Stresses			
	$A_{e,yield}$	$A_{e,crit}$	$I_{ex}$	$Z_{ex}$	$Z_{cx}$	Bending		Compression	
	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(x10 <sup>6</sup> mm <sup>4</sup> )	(x10 <sup>3</sup> mm <sup>3</sup> )	(x10 <sup>3</sup> mm <sup>3</sup> )	$f_{ol}$ (MPa)	$f_{od}$ (MPa)	$f_{ol}$ (MPa)	$f_{od}$ (MPa)
DHS10010	156	199	0.332	6.42	7.19	493	538	114	278
DHS10012	210	250	0.412	8.16	8.62	691	672	163	343
DHS10015	294	330	0.530	10.7	10.7	1032	875	253	440
DHS10019	392	438	0.660	13.3	13.3	1611	1153	405	576
DHS10024	525	554	0.823	16.6	16.6	2423	1545	646	751
DHS15012	281	333	1.22	15.3	16.5	385	424	212	208
DHS15015	390	450	1.61	21.0	21.8	584	537	253	265
DHS15019	518	582	2.07	27.4	28.4	900	692	303	345
DHS15024	705	757	2.67	35.9	35.9	1316	925	368	459
DHS20012	304	356	2.43	21.5	23.3	288	342	140	148
DHS20015	430	486	3.38	32.1	33.9	432	429	164	189
DHS20019	589	659	4.50	44.4	45.4	655	549	188	246
DHS20024	788	848	5.81	58.2	58.7	879	702	216	319
DHS25012	369	475	4.33	29.5	34.8	223	283	161	112
DHS25015	533	660	5.96	43.1	49.9	337	367	231	143
DHS25019	696	847	8.16	63.0	68.2	537	467	203	187
DHS25024	950	1095	10.8	85.7	87.8	830	609	241	241
DHS30015	529	628	9.44	54.3	59.3	248	292	114	112
DHS30019	754	891	13.0	78.9	86.9	392	372	166	146
DHS30024	1029	1202	17.8	116	121	616	488	189	189
DHS30030	1385	1537	23.0	153	156	836	611	221	246
DHS35019	770	1079	18.5	94.3	123	381	342	117	113
DHS35024	1062	1397	25.4	138	157	550	434	139	147
DHS35030	1425	1782	33.7	192	195	673	558	162	190
DHS40019	739	1076	24.5	106	147	371	298	75	82
DHS40024	1052	1430	33.8	156	190	446	384	102	98
DHS40030	1419	1819	45.9	226	236	537	493	115	144

**Notes:**

1. Local and distortional buckling stresses computed by rational elastic buckling analysis.
2.  $f_{ol}$  = Local buckling stress,  $f_{od}$  = Distortional Buckling Stress



## Table B - Bending

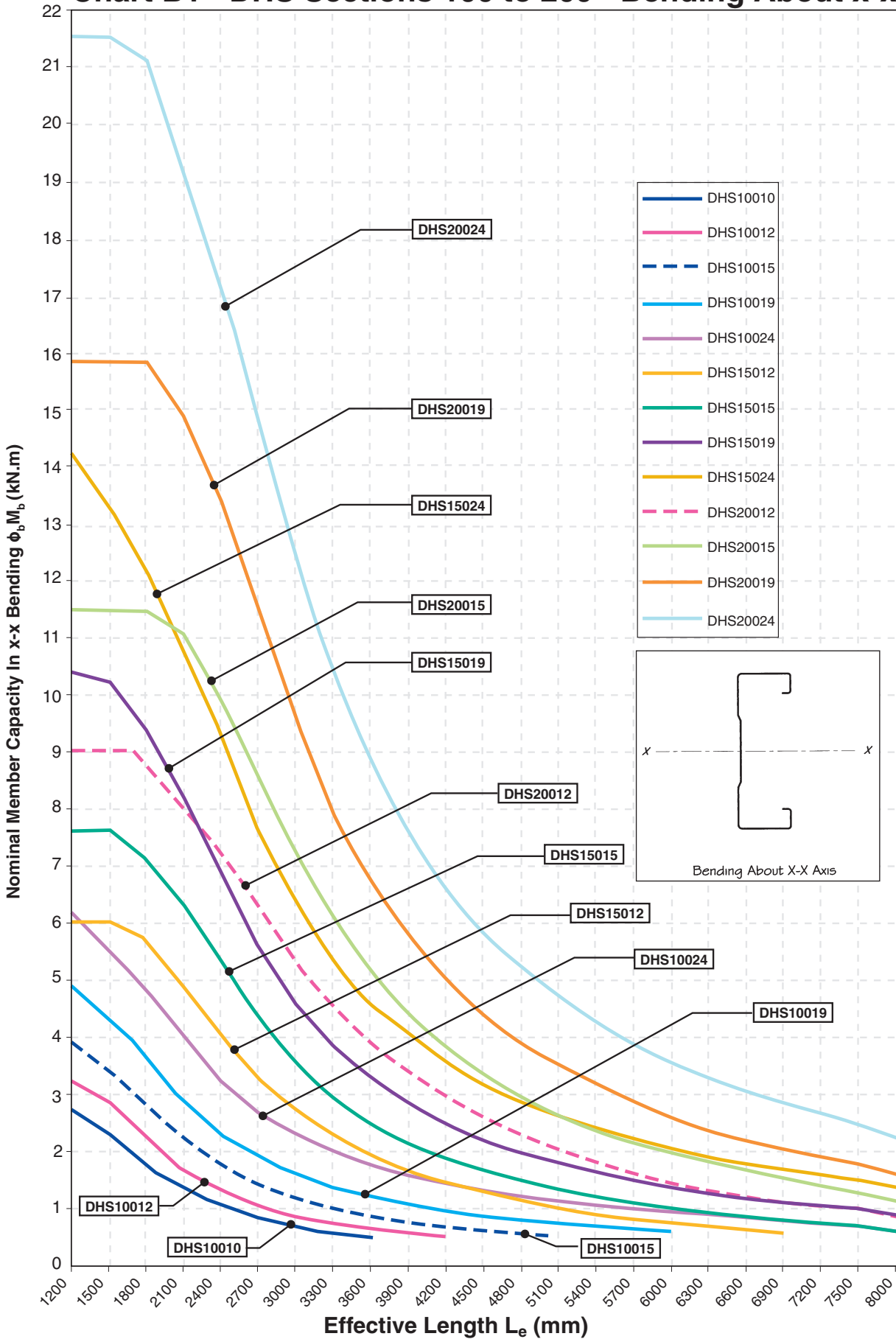


DC Section Designation	Shear Capacity (kN) $\phi_v V_v$	Section Capacity (kN.m) $\phi_b M_b$	Nominal Member Capacity in Bending About xx $\phi_b M_b$ (kN.m)																							
			Effective Length $L_e$ (mm)																							
			1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500	8000	
DHS10010	10.0	3.35	2.71	2.27	1.75	1.34	1.04	0.83	0.68	0.57	0.49															
DHS10012	17.4	3.87	3.24	2.79	2.22	1.66	1.30	1.04	0.86	0.73	0.62	0.55	0.48													
DHS10015	28.4	4.58	3.91	3.42	2.84	2.20	1.73	1.40	1.17	0.99	0.86	0.76	0.67	0.61	0.55	0.51										
DHS10019	42.0	5.70	4.89	4.31	3.64	2.90	2.30	1.89	1.59	1.37	1.20	1.07	0.96	0.87	0.80	0.74	0.69	0.64	0.60							
DHS10024	52.4	7.11	6.18	5.53	4.79	3.98	3.21	2.67	2.28	1.99	1.76	1.58	1.43	1.31	1.22	1.13	1.06	0.99	0.94	0.89	0.84	0.80				
DHS15012	15.0	7.27	6.01	6.01	5.65	4.88	4.00	3.27	2.74	2.29	1.94	1.67	1.45	1.27	1.13	1.01	0.91	0.83	0.75	0.69	0.64	0.59				
DHS15015	28.4	8.99	7.61	7.61	7.10	6.29	5.34	4.30	3.52	2.94	2.50	2.15	1.88	1.66	1.48	1.33	1.20	1.10	1.01	0.93	0.86	0.80	0.75	0.70	0.63	
DHS15019	51.1	11.7	10.4	10.2	9.39	8.21	6.89	5.55	4.57	3.83	3.28	2.84	2.50	2.22	1.99	1.80	1.64	1.50	1.39	1.29	1.20	1.12	1.06	1.00	0.91	
DHS15024	79.7	15.3	14.3	13.3	12.1	10.8	9.24	7.62	6.30	5.33	4.58	4.00	3.54	3.17	2.86	2.60	2.39	2.21	2.05	1.91	1.79	1.69	1.59	1.51	1.39	
DHS20012	10.7	10.2	9.00	8.72	8.03	7.22	6.29	5.31	4.51	3.88	3.38	2.95	2.59	2.28	2.03	1.82	1.64	1.49	1.36	1.25	1.15	1.06	0.98	0.88		
DHS20015	20.3	13.7	11.5	11.5	11.5	11.0	9.86	8.55	7.17	6.08	5.14	4.41	3.82	3.35	2.97	2.65	2.38	2.15	1.96	1.79	1.65	1.52	1.41	1.31	1.17	
DHS20019	39.7	19.0	15.8	15.8	15.8	14.8	13.3	11.5	9.52	7.93	6.71	5.77	5.02	4.42	3.92	3.51	3.17	2.88	2.63	2.41	2.23	2.06	1.92	1.79	1.61	
DHS20024	77.0	24.9	21.5	21.5	21.1	19.3	17.1	14.8	12.3	10.3	8.76	7.56	6.61	5.84	5.21	4.69	4.25	3.88	3.56	3.29	3.05	2.84	2.66	2.50	2.27	
DHS25012	9.11	14.0	12.5	12.5	12.3	11.6	10.7	9.73	8.58	7.52	6.69	6.02	5.33	4.73	4.22	3.80	3.43	3.09	2.80	2.54	2.33	2.13	1.97	1.82	1.61	
DHS25015	17.3	18.4	16.3	16.3	16.3	15.8	14.9	13.8	12.6	11.1	9.53	8.30	7.29	6.43	5.67	5.04	4.51	4.07	3.69	3.36	3.07	2.83	2.61	2.42	2.14	
DHS25019	33.9	26.9	22.4	22.4	22.4	22.4	21.4	19.4	17.2	14.8	12.5	10.7	9.30	8.14	7.19	6.41	5.75	5.19	4.72	4.31	3.96	3.65	3.37	3.13	2.79	
DHS25024	66.0	36.6	30.8	30.8	30.8	30.7	28.4	25.6	22.4	19.0	16.1	13.8	12.0	10.5	9.34	8.35	7.51	6.81	6.21	5.69	5.24	4.85	4.50	4.19	3.76	
DHS30015	14.6	23.2	21.2	21.2	21.2	20.8	19.9	18.9	17.7	16.4	14.9	13.4	12.1	11.1	9.91	8.92	8.08	7.35	6.72	6.11	5.58	5.12	4.71	4.36	3.85	
DHS30019	28.6	33.7	29.3	29.3	29.3	29.3	29.1	27.7	26.0	24.2	21.9	19.1	16.8	14.9	13.3	11.8	10.6	9.51	8.61	7.84	7.17	6.59	6.08	5.63	4.99	
DHS30024	55.7	49.6	40.6	40.6	40.6	40.6	40.6	39.4	36.4	33.1	29.5	25.5	22.1	19.3	17.0	15.2	13.6	12.3	11.1	10.2	9.32	8.58	7.93	7.36	6.54	
DHS30030	105	65.5	54.7	54.7	54.7	54.7	54.7	51.8	47.6	43.0	38.0	32.9	28.5	25.0	22.1	19.7	17.7	16.1	14.6	13.4	12.3	11.3	10.5	9.79	8.75	
DHS35019	24.0	40.3	35.6	35.6	35.6	35.6	35.0	33.3	31.3	29.1	26.7	24.1	21.7	19.2	17.1	15.2	13.6	12.2	11.1	10.1	9.20	8.44	7.78	7.19	6.36	
DHS35024	46.7	58.8	49.0	49.0	49.0	49.0	49.0	48.8	46.2	42.3	37.8	32.9	28.5	24.9	22.0	19.5	17.5	15.8	14.3	13.0	11.9	10.9	10.1	9.36	8.30	
DHS35030	88.3	82.1	66.5	66.5	66.5	66.5	66.5	65.2	60.0	54.3	48.1	41.6	36.0	31.5	27.9	24.8	22.3	20.1	18.3	16.7	15.3	14.1	13.1	12.1	10.8	
DHS40019	20.6	45.5	40.9	40.9	40.9	40.9	39.7	37.7	35.6	33.1	30.4	27.7	25.1	22.9	20.7	18.4	16.4	14.8	13.4	12.2	11.1	10.2	9.37	8.66	7.65	
DHS40024	40.2	66.5	56.6	56.6	56.6	56.6	56.6	55.3	52.3	49.2	45.2	39.4	34.1	29.8	26.2	23.3	20.9	18.8	17.0	15.5	14.2	13.0	12.0	11.1	9.83	
DHS40030	76.1	96.7	76.8	76.8	76.8	76.8	76.8	76.8	71.8	64.8	57.1	49.2	42.6	37.2	32.9	29.2	26.2	23.6	21.4	19.6	17.9	16.5	15.2	14.1	12.6	

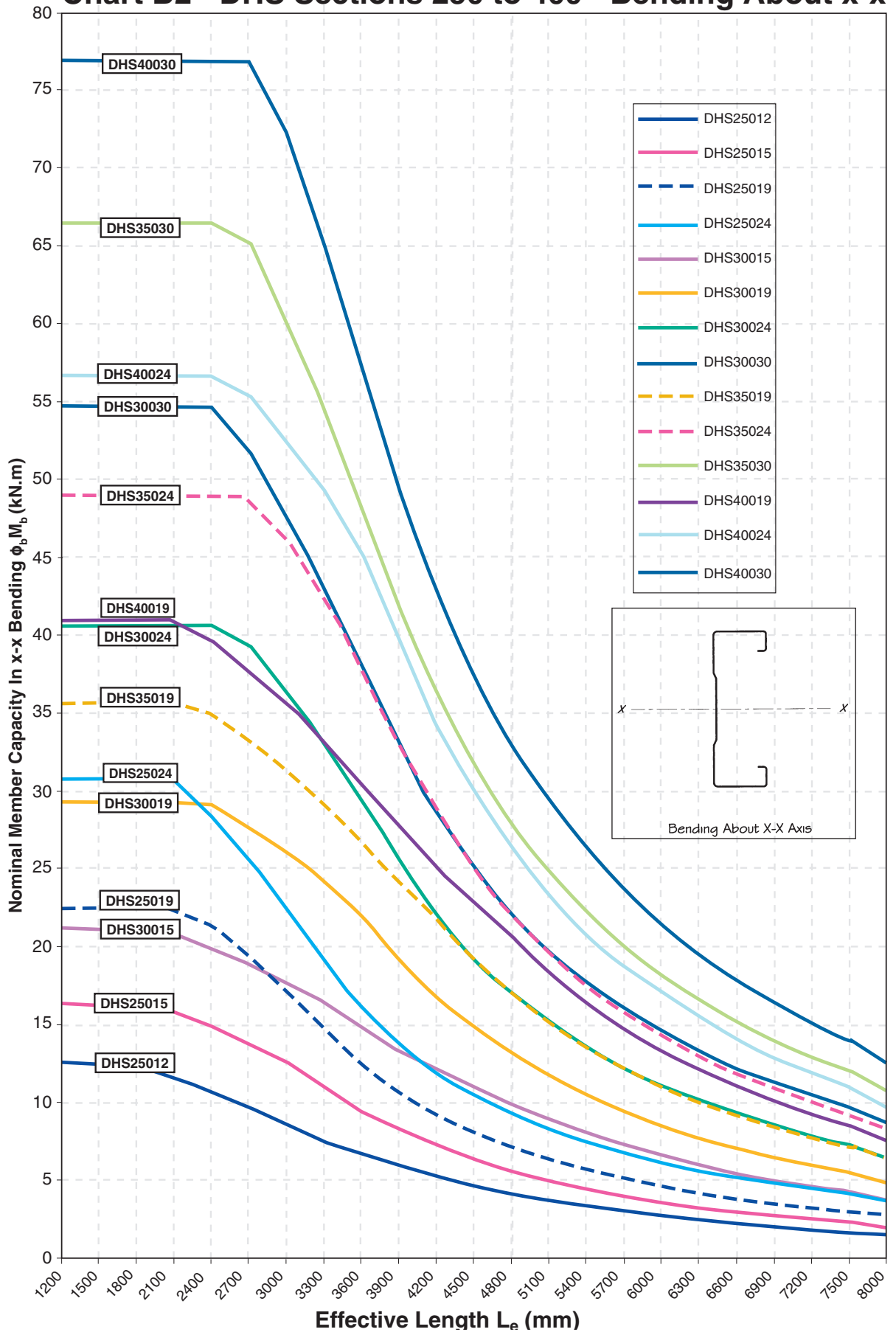
**Notes:**

1. Capacities listed have been determined in accordance with AS/NZS 4600:2005
2. Shear capacity reduction factor  $\phi_v = 0.9$ , [bending] section capacity reduction factor  $\phi_b = 0.95$ , [bending] member capacity reduction factor  $\phi_b = 0.9$
3. Member capacities are based on simple span configurations with pinned supports. (No reductions made for shear or combined shear and bending, at shorter effective lengths)
4. Shorter spans will often be governed by shear or combined shear and bending (These and any other relevant combined checks will need to be carried out manually in accordance with Section 3 of AS/NZS 4600:2005)
5. Values shown in italics are limited by distortional buckling capacity.

## Chart B1 - DHS Sections 100 to 200 - Bending About x-x



## Chart B2 - DHS Sections 250 to 400 - Bending About x-x



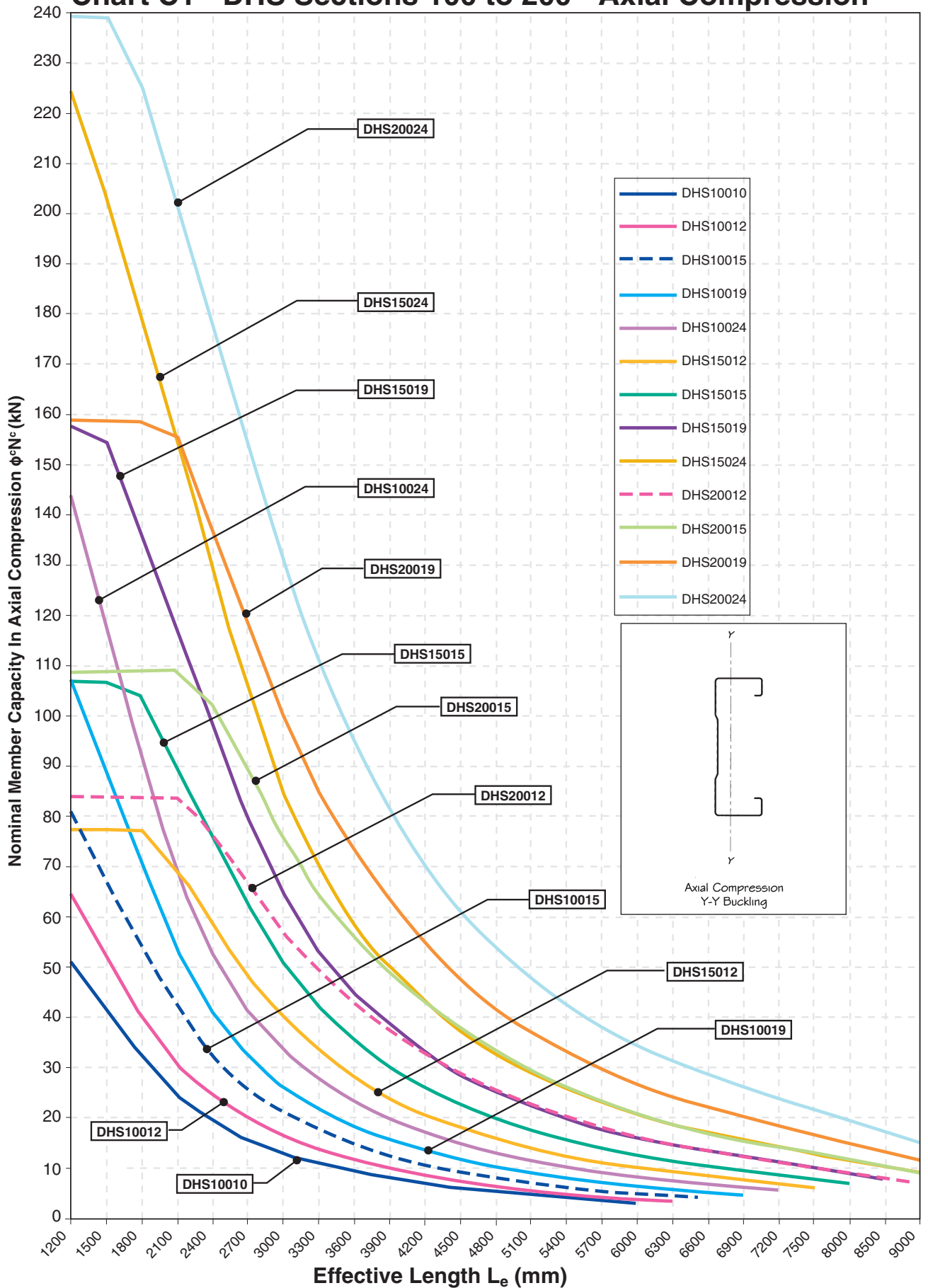
## Table C - Axial Compression

DC Section Designation	Section Capacity (kN) $\phi_c N_s$	Nominal Member Capacity In Axial Compression $\phi_c N_c$ (kN)																									
		Effective Length $L_e$ (mm)																									
	$L_e = 0$	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500	8000	8500	9000	
DHS10010	72.8	51.2	42.0	32.4	24.7	19.5	15.8	13.1	11.1	9.48	8.18	7.05	6.14	5.40	4.78	4.26	3.83	3.45									
DHS10012	89.1	64.4	52.5	40.7	31.0	24.5	19.8	16.4	13.7	11.5	9.83	8.48	7.39	6.49	5.75	5.13	4.61	4.16	3.77								
DHS10015	113	81.1	67.4	53.9	41.5	32.7	26.1	21.1	17.5	14.7	12.5	10.8	9.40	8.26	7.32	6.53	5.86	5.29	4.80	4.37							
DHS10019	150	108	89.4	71.1	53.8	41.2	32.6	26.4	21.8	18.3	15.6	13.5	11.7	10.3	9.13	8.14	7.31	6.59	5.98	5.45	4.99						
DHS10024	201	144	119	92.1	68.6	52.5	41.5	33.6	27.8	23.3	19.9	17.2	14.9	13.1	11.6	10.4	9.32	8.41	7.62	6.95	6.36	5.84					
DHS15012	119	77.2	77.2	77.2	69.4	58.4	48.5	40.2	33.6	28.2	24.0	20.7	18.1	15.9	14.1	12.5	11.3	10.2	9.21	8.40	7.68	7.06	6.50				
DHS15015	149	107	107	104	90.4	75.9	62.2	51.1	42.3	35.5	30.3	26.1	22.7	20.0	17.7	15.8	14.2	12.8	11.6	10.6	9.66	8.88	8.18	7.19			
DHS15019	198	158	155	136	117	98.3	80.0	64.8	53.5	45.0	38.3	33.0	28.8	25.3	22.4	20.0	17.9	16.2	14.7	13.4	12.2	11.2	10.4	9.11	8.07		
DHS15024	270	225	203	180	155	130	105	84.8	70.1	58.9	50.2	43.3	37.7	33.1	29.3	26.2	23.5	21.2	19.2	17.5	16.0	14.7	13.6	11.9	10.6	9.42	
DHS20012	129	83.8	83.8	83.8	76.7	66.4	56.8	49.2	42.8	37.3	32.8	29.0	25.5	22.6	20.1	18.1	16.3	14.8	13.5	12.3	11.3	10.4	9.17	8.13	7.25		
DHS20015	165	109	109	109	102	89.5	76.3	64.8	55.8	48.5	42.6	37.1	32.6	28.9	25.8	23.1	20.9	18.9	17.2	15.8	14.5	13.4	11.7	10.4	9.27		
DHS20019	225	159	159	159	155	137	118	100	85.0	73.1	63.5	54.9	47.8	42.0	37.2	33.2	29.8	26.9	24.4	22.2	20.3	18.7	17.2	15.1	13.4	12.0	
DHS20024	301	239	239	225	201	177	154	131	111	95.0	81.4	70.2	61.1	53.7	47.6	42.5	38.1	34.4	31.2	28.4	26.0	23.9	22.0	19.4	17.1	15.3	
DHS25012	157	89.6	89.6	89.6	89.6	89.6	89.6	80.6	70.1	61.6	54.6	48.7	43.7	39.0	34.6	30.8	27.7	25.0	22.6	20.6	18.9	17.3	16.0	14.0	12.4	11.1	
DHS25015	204	119	119	119	119	119	113	99.1	86.7	75.8	65.8	57.3	50.4	44.6	39.8	35.7	32.2	29.2	26.6	24.4	22.4	20.6	18.1	16.1	14.3		
DHS25019	266	167	167	167	167	167	164	144	125	107	93.5	82.2	71.8	63.1	55.9	49.9	44.8	40.4	36.6	33.4	30.5	28.1	25.9	22.7	20.1	18.0	
DHS25024	363	240	240	240	240	214	188	162	139	121	105	91.1	80.1	71.3	64.9	58.9	53.7	49.2	45.2	41.7	38.2	35.1	32.3	28.4	25.2	22.5	
DHS30015	202	126	126	126	126	126	126	126	120	108	97.0	87.0	78.5	71.3	64.9	58.9	53.7	49.2	45.2	41.7	38.2	35.1	32.3	28.4	25.2	22.5	
DHS30019	288	178	178	178	178	178	178	178	170	154	137	121	108	96.6	87.1	78.9	71.2	64.2	58.2	53.1	48.6	44.6	41.1	36.1	32.0	28.5	
DHS30024	393	249	249	249	249	249	249	249	228	203	178	157	140	125	112	101	90.4	81.5	73.9	67.4	61.6	56.6	52.2	45.8	40.6	36.2	
DHS30030	530	360	360	360	360	360	360	328	296	264	233	205	182	163	145	129	116	104	94.8	86.4	79.0	72.6	66.9	58.8	52.1	46.4	
DHS35019	295	176	176	176	176	176	176	176	176	159	143	127	113	101	91.6	83.3	76.0	69.7	64.1	59.2	54.2	49.8	45.9	40.3	35.7	31.8	
DHS35024	413	243	243	243	243	243	243	243	243	217	192	169	151	135	122	111	101	91.6	83.1	75.7	69.3	63.6	58.7	51.5	45.7	40.7	
DHS35030	545	344	344	344	344	344	344	341	308	275	243	215	192	172	155	141	128	116	105	95.5	87.4	80.3	74.0	65.0	57.6	51.4	
DHS40019	283	164	164	164	164	164	164	164	164	157	140	125	111	100	90.4	82.4	75.3	69.2	63.9	59.1	54.9	51.1	47.7	42.8	38.2	34.1	
DHS40024	402	226	226	226	226	226	226	226	226	213	188	166	148	133	121	110	100	92.1	84.9	78.5	72.8	67.4	62.1	54.6	48.4	43.1	
DHS40030	543	334	334	334	334	334	334	334	304	271	239	212	189	170	154	140	128	117	108	99.8	91.5	84.1	77.5	68.1	60.3	53.8	

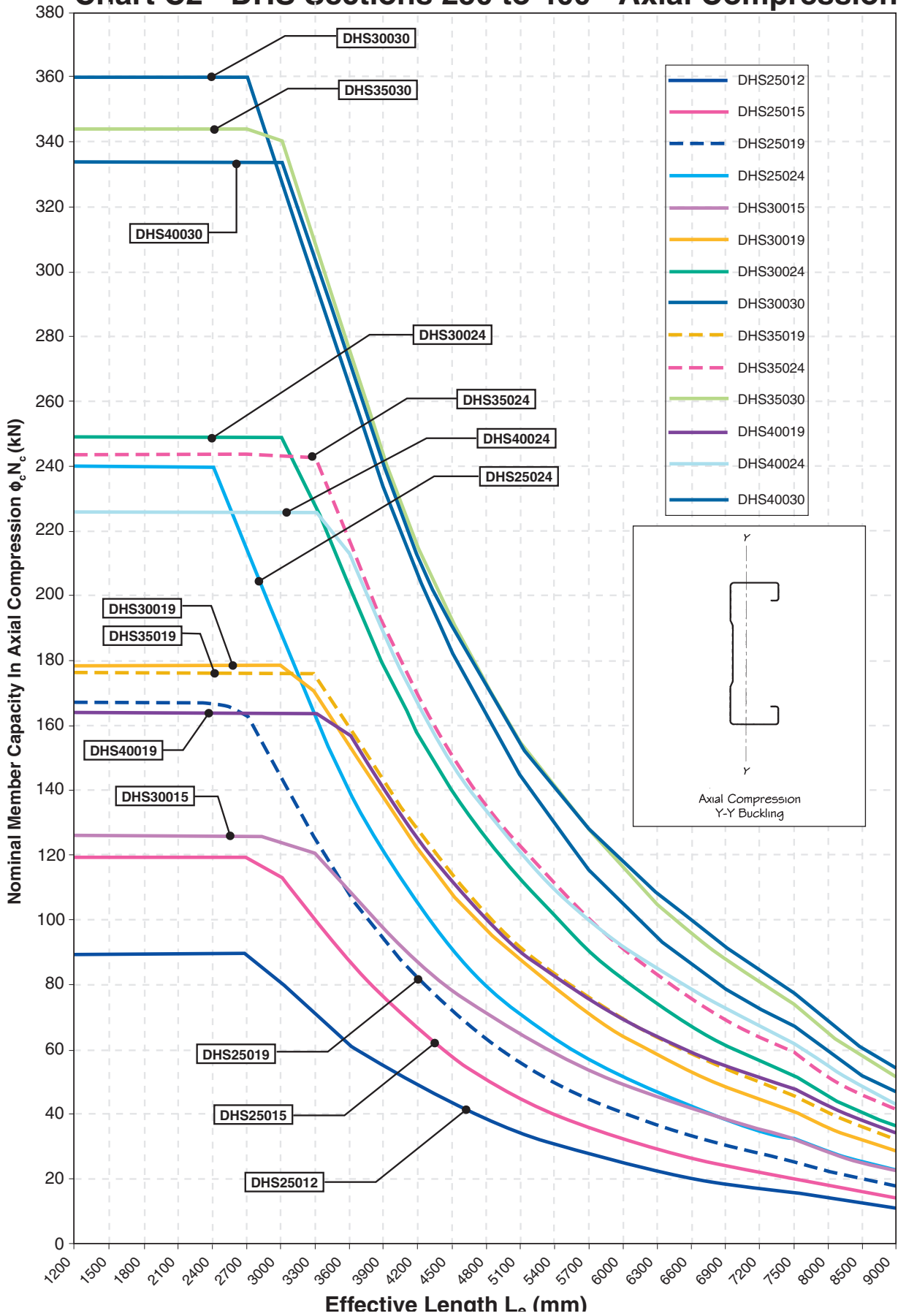
**Notes:**

1. Capacities listed have been determined in accordance with AS/NZS 4600:2005
2. Compressive section capacity reduction factor  $\phi_c = 0.85$
3. Compressive member capacity reduction factor  $\phi_c = 0.85$
4. Values shown in italics are limited by distortional buckling capacity.

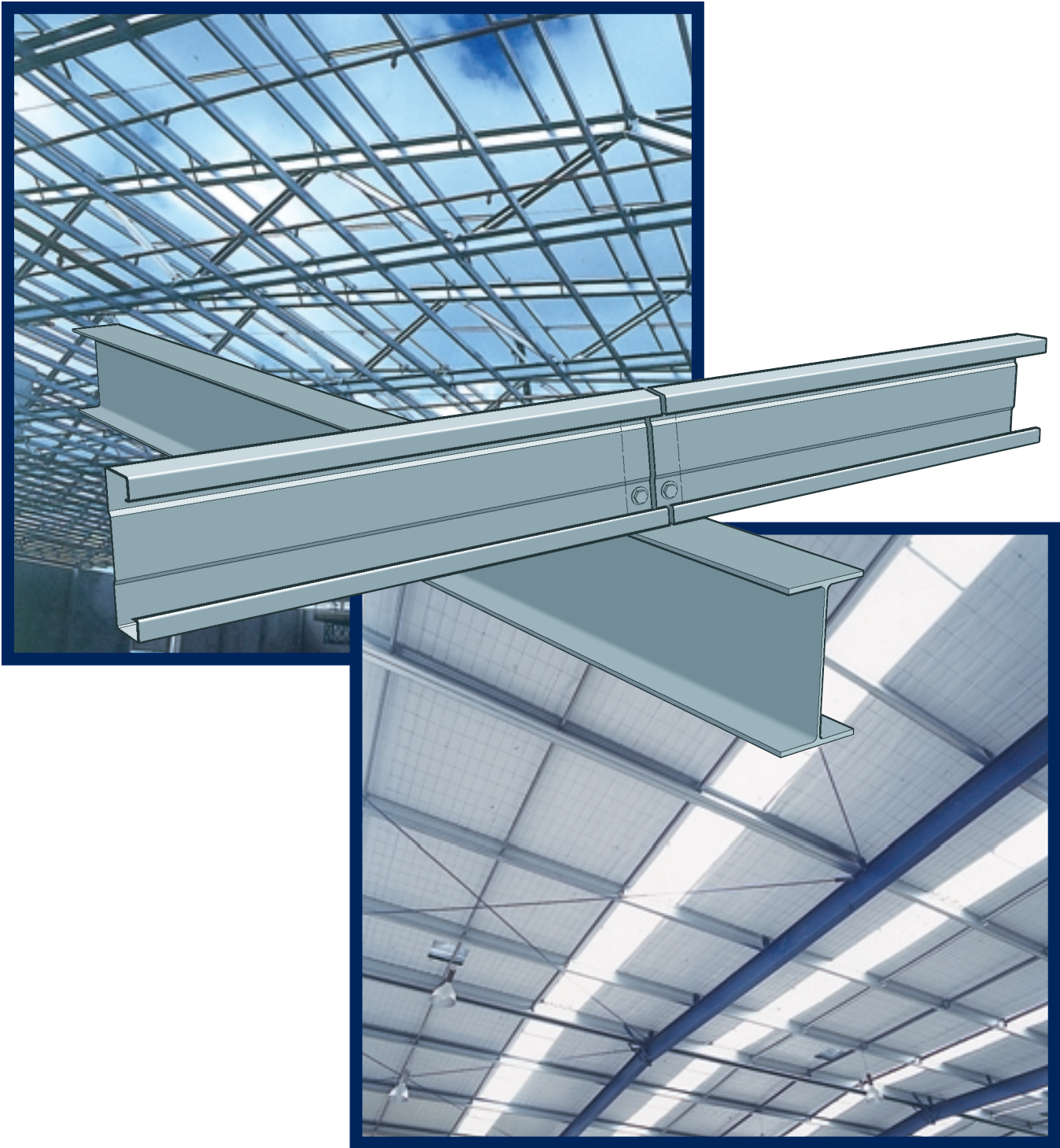
## Chart C1 - DHS Sections 100 to 200 - Axial Compression



## Chart C2 - DHS Sections 250 to 400 - Axial Compression



# Load Capacity Tables



## Single Span DHS100

## DHS Load Tables

DHS10010			Load Capacity (kN/m)				
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging				
			Inward		Outward		
			0,1,2,3	0	1	2	3
2100	3.82	3.67	5.02	4.68	5.02		
2400	2.56	6.26	3.84	3.22	3.84		
2700	1.80	10.03	3.04	2.22	3.04		
3000	1.31	15.29	2.46	1.53	2.46		
3300	0.98	22.38	2.03	1.09	2.03		
3600	0.76	31.70	1.71	0.79	1.64	1.71	
3900	0.60	43.62	1.46	0.58	1.32	1.46	
4200	0.48	58.70	1.26	0.44	1.07	1.26	
4500	0.39	77.32	1.09		0.87	1.09	
4800	0.32	100.31	0.96		0.70	0.96	
5100	0.27	127.82	0.85		0.57	0.84	0.85
5400	0.22	160.71	0.76		0.46	0.72	0.76
5700	0.19	198.95	0.68			0.62	0.68
6000	0.16	243.90	0.62			0.54	0.62
6300	0.14	297.87	0.56			0.47	0.56
6600	0.12	357.72	0.51			0.41	0.51
6900	0.11	425.93	0.47				0.45
7200	0.10	505.26	0.43				0.41

DHS10012			Load Capacity (kN/m)					
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging					
			Inward		Outward			
			0	1,2,3	0	1	2	3
2100	4.64	3.02	6.07		5.61	6.07		
2400	3.11	5.15	4.65		3.93	4.65		
2700	2.18	8.25	3.67		2.78	3.67		
3000	1.59	12.57	2.98		1.93	2.98		
3300	1.20	18.41	2.46		1.35	2.43	2.46	
3600	0.92	26.09	2.07		0.98	1.96	2.07	
3900	0.72	35.91	1.76		0.73	1.60	1.76	
4200	0.58	48.28	1.51	1.52	0.55	1.31	1.52	
4500	0.47	63.69	1.31	1.32	0.43	1.07	1.32	
4800	0.39	82.47	1.14	1.16		0.88	1.16	
5100	0.32	104.94	1.01	1.03		0.72	1.00	1.03
5400	0.27	131.87	0.90	0.92		0.58	0.86	0.92
5700	0.23	163.79	0.80	0.82		0.47	0.75	0.82
6000	0.20	201.01	0.72	0.74			0.66	0.74
6300	0.17	244.19	0.65	0.68			0.57	0.68
6600	0.15	295.30	0.59	0.62			0.50	0.60
6900	0.13	351.15	0.54	0.56			0.44	0.54
7200	0.12	417.39	0.50	0.52				0.49
7500	0.10	490.20	0.46	0.48				0.44
7800	0.09	577.78	0.42	0.44				0.40
8100	0.08	666.67		0.41				

DHS10015			Load Capacity (kN/m)					
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging					
			Inward		Outward			
			0	1,2,3	0	1	2	3
2100	5.87	2.39	7.40	7.61	6.77	7.61		
2400	3.93	4.07	5.59	5.83	4.77	5.83		
2700	2.76	6.52	4.37	4.60	3.42	4.60		
3000	2.01	9.94	3.50	3.73	2.47	3.67	3.73	
3300	1.51	14.56	2.87	3.08	1.79	2.93	3.08	
3600	1.16	20.62	2.39	2.59	1.30	2.37	2.59	
3900	0.92	28.38	2.02	2.21	0.98	1.94	2.21	
4200	0.73	38.20	1.73	1.90	0.75	1.59	1.90	
4500	0.60	50.34	1.50	1.66	0.59	1.32	1.62	1.66
4800	0.49	65.17	1.31	1.46	0.47	1.09	1.39	1.46
5100	0.41	83.13	1.16	1.29		0.91	1.20	1.29
5400	0.35	104.35	1.03	1.15		0.75	1.05	1.15
5700	0.29	129.69	0.92	1.03		0.62	0.91	1.03
6000	0.25	159.36	0.83	0.93		0.52	0.80	0.91
6300	0.22	193.55	0.75	0.85		0.43	0.70	0.81
6600	0.19	232.80	0.68	0.77			0.61	0.73
6900	0.17	278.79	0.62	0.71			0.54	0.65
7200	0.15	328.77	0.57	0.65			0.48	0.59
7500	0.13	387.60	0.52	0.60			0.42	0.53
7800	0.11	456.14	0.48	0.55				0.48
8100	0.10	529.41	0.45	0.51				0.43
8400	0.09	608.70	0.41	0.48				
8700	0.08	707.32	0.38	0.44				
9000	0.08	800.00	0.36	0.41				

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS100

## DHS Load Tables

<b>DHS10019</b>			Load Capacity (kN/m)											
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging											
			Inward						Outward					
			0	1	2	3	0	1	2	3				
2100	7.30	1.92	9.01	9.80					8.48	9.80				
2400	4.89	3.27	6.78	7.51					6.01	7.51				
2700	3.44	5.24	5.28	5.93					4.35	5.83	5.93			
3000	2.51	7.98	4.22	4.80					3.19	4.59	4.80			
3300	1.88	11.69	3.45	3.97					2.34	3.67	3.97			
3600	1.45	16.55	2.87	3.34					1.73	2.97	3.34			
3900	1.14	22.81	2.43	2.83	2.84				1.31	2.44	2.81			
4200	0.91	30.67	2.08	2.43	2.45				1.02	2.01	2.38	2.45		
4500	0.74	40.43	1.80	2.11	2.14				0.81	1.67	2.03	2.14		
4800	0.61	52.29	1.57	1.84	1.88				0.65	1.39	1.74	1.88		
5100	0.51	66.67	1.38	1.63	1.66				0.54	1.17	1.51	1.65		
5400	0.43	83.72	1.23	1.44	1.48				0.45	0.98	1.31	1.45		
5700	0.37	104.11	1.10	1.29	1.33					0.82	1.15	1.29		
6000	0.31	127.80	0.99	1.16	1.20					0.69	1.00	1.14		
6300	0.27	155.56	0.89	1.05	1.09					0.58	0.88	1.02		
6600	0.24	187.23	0.81	0.95	0.99					0.49	0.78	0.91		
6900	0.21	223.30	0.74	0.87	0.90					0.42	0.69	0.82		
7200	0.18	265.19	0.68	0.80	0.83						0.61	0.74		
7500	0.16	312.50	0.62	0.73	0.76	0.77					0.54	0.67		
7800	0.14	363.64	0.57	0.68	0.70	0.71					0.48	0.60		
8100	0.13	425.20	0.53	0.63	0.65	0.66					0.42	0.55		
8400	0.11	491.23	0.49	0.58	0.60	0.61						0.50		
8700	0.10	563.11	0.46	0.54	0.56	0.57						0.45		
9000	0.09	645.16	0.43	0.51	0.52	0.53						0.41		
9300	0.08	738.10	0.40	0.47	0.49	0.50								
9600	0.08	842.11		0.44	0.46	0.47								
9900	0.07	942.86		0.42	0.43	0.44								
10200	0.06	1062.50			0.40	0.41								

<b>DHS10024</b>			Load Capacity (kN/m)											
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging											
			Inward						Outward					
			0	1	2	3	0	1	2	3				
2100	9.10	1.54	11.02	12.21					10.73	12.21				
2400	6.10	2.63	8.26	9.35					7.67	9.35				
2700	4.28	4.20	6.41	7.39					5.62	7.31	7.39			
3000	3.12	6.41	5.12	5.98					4.19	5.77	5.98			
3300	2.35	9.38	4.18	4.95					3.16	4.63	4.95			
3600	1.81	13.29	3.47	4.13	4.16				2.40	3.76	4.16			
3900	1.42	18.31	2.93	3.49	3.54				1.85	3.10	3.52	3.54		
4200	1.14	24.63	2.50	2.99	3.05				1.45	2.57	2.98	3.05		
4500	0.93	32.43	2.16	2.59	2.66				1.16	2.15	2.55	2.66		
4800	0.76	41.99	1.89	2.26	2.34				0.95	1.81	2.20	2.34		
5100	0.64	53.54	1.66	1.99	2.07				0.79	1.53	1.91	2.07		
5400	0.54	67.29	1.47	1.77	1.85				0.66	1.30	1.66	1.82		
5700	0.46	83.52	1.32	1.58	1.65	1.66			0.57	1.10	1.46	1.61		
6000	0.39	102.56	1.18	1.42	1.49	1.50			0.49	0.94	1.28	1.44		
6300	0.34	124.63	1.07	1.28	1.34	1.36			0.42	0.81	1.13	1.28		
6600	0.29	150.17	0.97	1.16	1.22	1.24				0.69	1.00	1.15		
6900	0.26	179.69	0.88	1.06	1.11	1.13				0.59	0.89	1.04		
7200	0.23	212.39	0.81	0.97	1.01	1.04				0.51	0.79	0.94		
7500	0.20	250.00	0.74	0.89	0.93	0.96				0.45	0.71	0.85		
7800	0.18	292.13	0.68	0.82	0.86	0.88					0.63	0.77		
8100	0.16	339.62	0.63	0.76	0.79	0.82					0.57	0.70		
8400	0.14	394.37	0.59	0.71	0.74	0.76					0.51	0.64		
8700	0.13	453.13	0.55	0.66	0.68	0.70					0.45	0.58		
9000	0.12	517.24	0.51	0.61	0.64	0.65					0.41	0.53		
9300	0.11	590.48	0.48	0.57	0.60	0.61						0.49		
9600	0.10	673.68	0.45	0.54	0.56	0.57						0.45		
9900	0.09	758.62	0.42	0.50	0.52	0.54						0.41		
10200	0.08	860.76		0.47	0.49	0.50								
10500	0.07	958.90		0.45	0.46	0.47								
10800	0.07	1074.63		0.42	0.44	0.45								
11100	0.06	1193.55		0.40	0.41	0.42								
11400	0.06	1333.33				0.40								

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS150

## DHS Load Tables

DHS15012			Load Capacity (kN/m)						
Span (mm)	L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0	1	2	3	
2100	14.23	0.98	10.90		10.90				
2400	9.53	1.68	8.34		8.34				
2700	6.69	2.69	6.59		6.51	6.59			
3000	4.88	4.10	5.34		4.91	5.34			
3300	3.67	6.00	4.41		3.73	4.41			
3600	2.82	8.50	3.71		2.84	3.71			
3900	2.22	11.71	3.16		2.14	3.16			
4200	1.78	15.74	2.72		1.64	2.72			
4500	1.45	20.75	2.37		1.28	2.37			
4800	1.19	26.87	2.08		1.01	2.08			
5100	0.99	34.24	1.83	1.85	0.81	1.77	1.85		
5400	0.84	43.01	1.63	1.65	0.66	1.52	1.65		
5700	0.71	53.45	1.45	1.48	0.53	1.30	1.48		
6000	0.61	65.57	1.30	1.34	0.44	1.11	1.34		
6300	0.53	79.70	1.18	1.21		0.95	1.21		
6600	0.46	96.07	1.07	1.10		0.81	1.10		
6900	0.40	114.71	0.97	1.01		0.69	1.01		
7200	0.35	135.98	0.89	0.93		0.59	0.92	0.93	
7500	0.31	160.26	0.82	0.85		0.51	0.82	0.85	
7800	0.28	187.05	0.75	0.79		0.44	0.74	0.79	
8100	0.25	217.74	0.69	0.73			0.66	0.73	
8400	0.22	252.25	0.64	0.68			0.60	0.68	
8700	0.20	290.00	0.60	0.64			0.54	0.64	
9000	0.18	331.49	0.56	0.59			0.49	0.59	
9300	0.16	378.05	0.52	0.56			0.44	0.56	
9600	0.15	429.53	0.49	0.52				0.52	
9900	0.14	485.29	0.46	0.49				0.48	
10200	0.12	548.39	0.43	0.46				0.44	
10500	0.11	614.04	0.40	0.44				0.41	
10800	0.11	685.71		0.41					

DHS15015			Load Capacity (kN/m)						
Span (mm)	L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0	1	2	3	
2100	18.22	0.77	13.80		13.80				
2400	12.21	1.31	10.56		10.56				
2700	8.57	2.10	8.35		8.11	8.35			
3000	6.25	3.20	6.74	6.76	6.18	6.76			
3300	4.70	4.68	5.49	5.59	4.76	5.59			
3600	3.62	6.64	4.56	4.70	3.68	4.70			
3900	2.85	9.14	3.84	4.00	2.84	4.00			
4200	2.28	12.29	3.28	3.45	2.18	3.45			
4500	1.85	16.20	2.83	3.01	1.68	3.01			
4800	1.53	20.97	2.47	2.64	1.31	2.59	2.64		
5100	1.27	26.73	2.17	2.34	1.05	2.22	2.34		
5400	1.07	33.58	1.92	2.09	0.84	1.92	2.09		
5700	0.91	41.71	1.71	1.87	0.69	1.65	1.87		
6000	0.78	51.22	1.54	1.69	0.57	1.43	1.69		
6300	0.68	62.22	1.39	1.53	0.48	1.24	1.53		
6600	0.59	74.96	1.26	1.40	0.40	1.07	1.40		
6900	0.51	89.49	1.14	1.28		0.92	1.27		
7200	0.45	106.19	1.05	1.17		0.80	1.14	1.17	
7500	0.40	125.00	0.96	1.08		0.68	1.03	1.08	
7800	0.36	146.07	0.88	1.00		0.59	0.93	1.00	
8100	0.32	169.81	0.82	0.93		0.51	0.84	0.93	
8400	0.29	196.49	0.76	0.86		0.44	0.76	0.86	
8700	0.26	226.56	0.70	0.80			0.69	0.80	
9000	0.23	259.74	0.65	0.75			0.63	0.75	
9300	0.21	295.24	0.61	0.70			0.57	0.70	
9600	0.19	335.08	0.57	0.66			0.51	0.64	
9900	0.17	379.31	0.54	0.62			0.47	0.60	
10200	0.16	427.67	0.50	0.59			0.42	0.55	
10500	0.15	479.45	0.47	0.55				0.51	
10800	0.13	537.31	0.45	0.52				0.47	
11100	0.12	601.63	0.42	0.49				0.44	
11400	0.11	666.67	0.40	0.47				0.41	
11700	0.11	742.86		0.45					
12000	0.10	816.33		0.42					
12300	0.09	901.10		0.40					

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS150

## DHS Load Tables

DHS15019			Load Capacity (kN/m)											
Span (mm)	L/150	k	No. of rows of bridging											
			Inward				Outward							
			0	1	2,3	0	1	2	3					
2100	23.17	0.60	18.67	18.84			18.84							
2400	15.52	1.03	13.98	14.42			14.19	14.42						
2700	10.90	1.65	10.85	11.40			10.76	11.40						
3000	7.95	2.52	8.61	9.23			8.15	9.23						
3300	5.97	3.69	6.97	7.63			6.23	7.63						
3600	4.60	5.22	5.75	6.41			4.78	6.41						
3900	3.62	7.19	4.82	5.46			3.67	5.46						
4200	2.90	9.67	4.09	4.71			2.80	4.71						
4500	2.35	12.74	3.52	4.10			2.17	4.00	4.10					
4800	1.94	16.49	3.05	3.61			1.71	3.44	3.61					
5100	1.62	21.03	2.67	3.19			1.36	2.95	3.19					
5400	1.36	26.43	2.36	2.85			1.11	2.53	2.85					
5700	1.16	32.82	2.10	2.56			0.91	2.18	2.56					
6000	0.99	40.28	1.87	2.31			0.76	1.88	2.31					
6300	0.86	48.95	1.69	2.09			0.64	1.62	2.08	2.09				
6600	0.75	58.98	1.52	1.91			0.54	1.40	1.86	1.91				
6900	0.65	70.44	1.38	1.75			0.46	1.20	1.68	1.75				
7200	0.58	83.48	1.26	1.60			0.40	1.03	1.52	1.60				
7500	0.51	98.23	1.16	1.48			0.89	1.37	1.48					
7800	0.45	115.04	1.06	1.36			0.76	1.23	1.37					
8100	0.40	133.66	0.98	1.26	1.27		0.66	1.11	1.27					
8400	0.36	154.70	0.90	1.17	1.18		0.58	1.00	1.17					
8700	0.33	177.91	0.84	1.09	1.10		0.50	0.91	1.08					
9000	0.29	204.08	0.78	1.01	1.03		0.44	0.82	1.00					
9300	0.27	232.21	0.73	0.95	0.96		0.74	0.92						
9600	0.24	264.46	0.68	0.89	0.90		0.67	0.86						
9900	0.22	298.64	0.63	0.83	0.85		0.61	0.79						
10200	0.20	336.63	0.60	0.78	0.80		0.55	0.73						
10500	0.19	378.38	0.56	0.74	0.75		0.49	0.68						
10800	0.17	423.53	0.53	0.69	0.71		0.44	0.63						
11100	0.16	471.34	0.50	0.66	0.67		0.40	0.58						
11400	0.15	524.14	0.47	0.62	0.64			0.54						
11700	0.13	582.09	0.44	0.59	0.61			0.50						
12000	0.12	645.16	0.42	0.56	0.58			0.46						
12300	0.12	713.04	0.40	0.53	0.55			0.43						
12600	0.11	785.05		0.51	0.52			0.40						
12900	0.10	860.00		0.48	0.50									
13200	0.09	946.24		0.46	0.48									
13500	0.09	1034.48		0.44	0.46									
13800	0.08	1121.95		0.42	0.44									
14100	0.08	1220.78		0.40	0.42									
14400	0.07	1333.33			0.40									

DHS15024			Load Capacity (kN/m)											
Span (mm)	L/150	k	No. of rows of bridging											
			Inward				Outward							
			0	1	2	3	0	1	2	3				
2100	29.54	0.47	23.66	25.86					25.20	25.85				
2400	19.79	0.81	17.48	19.79					18.41	19.80				
2700	13.90	1.30	13.37	15.64					13.78	15.64				
3000	10.13	1.97	10.52	12.67					10.49	12.67				
3300	7.61	2.89	8.46	10.47					8.08	10.47				
3600	5.86	4.09	6.94	8.80					6.27	8.76	8.80			
3900	4.61	5.64	5.79	7.50					4.87	7.29	7.50			
4200	3.69	7.58	4.89	6.45	6.46				3.79	6.13	6.46			
4500	3.00	9.99	4.19	5.56	5.63				2.95	5.20	5.63			
4800	2.47	12.94	3.62	4.84	4.95				2.33	4.43	4.95			
5100	2.06	16.49	3.16	4.25	4.38				1.88	3.80	4.38			
5400	1.74	20.73	2.78	3.76	3.91				1.53	3.27	3.88	3.91		
5700	1.48	25.73	2.46	3.34	3.51				1.27	2.83	3.42	3.51		
6000	1.27	31.60	2.20	2.99	3.17				1.06	2.45	3.04	3.17		
6300	1.09	38.39	1.97	2.69	2.87				0.90	2.13	2.71	2.87		
6600	0.95	46.27	1.78	2.44	2.62				0.77	1.85	2.42	2.62		
6900	0.83	55.22	1.61	2.22	2.39	2.40			0.66	1.61	2.17	2.40		
7200	0.73	65.48	1.46	2.02	2.18	2.20			0.57	1.40	1.95	2.18		
7500	0.65	77.16	1.34	1.85	2.00	2.03			0.50	1.21	1.76	1.99		
7800	0.58	90.28	1.23	1.70	1.84	1.87			0.44	1.05	1.59	1.82		
8100	0.52	104.85	1.13	1.57	1.69	1.74			0.91	1.44	1.66			
8400	0.46	121.21	1.04	1.45	1.57	1.62			0.80	1.30	1.52			
8700	0.42	139.76	0.97	1.35	1.45	1.51			0.70	1.18	1.40			
9000	0.38	160.00	0.90	1.25	1.35	1.41			0.62	1.07	1.29			
9300	0.34	182.35	0.83	1.17	1.26	1.32			0.55	0.97	1.19			
9600	0.31	207.12	0.78	1.09	1.18	1.23			0.49	0.89	1.10			
9900	0.28	234.04	0.73	1.02	1.10	1.15			0.44	0.80	1.02			
10200	0.26	263.57	0.68	0.96	1.03	1.08				0.73	0.94			
10500	0.24	296.61	0.64	0.90	0.97	1.02				0.66	0.87			
10800	0.22	331.80	0.60	0.85	0.91	0.96				0.60	0.81			
11100	0.20	370.00	0.57	0.80	0.86	0.90				0.55	0.75			
11400	0.19	410.81	0.53	0.76	0.81	0.85				0.50	0.70			
11700	0.17	456.14	0.51	0.72	0.77	0.81				0.45	0.65			
12000	0.16	506.33	0.48	0.68	0.73	0.76				0.41	0.60			
12300	0.15	557.82	0.45	0.65	0.69	0.72					0.56			
12600	0.14	613.14	0.43	0.61	0.66	0.69					0.52			
12900	0.13	677.17	0.41	0.59	0.63	0.65					0.49			
13200	0.12	739.50		0.56	0.60	0.62					0.45			
13500	0.11	810.81		0.53	0.57	0.59					0.42			
13800	0.10	884.62		0.51	0.54	0.57								
14100	0.10	959.18		0.49	0.52	0.54								
14400	0.09	1043.48		0.46	0.49	0.52								
14700	0.09	1139.53		0.44	0.47	0.49								
15000	0.08	1234.57		0.43	0.45	0.47								
15300	0.08	1342.11		0.41	0.44	0.45								
15600	0.07	1444.44			0.42	0.44								
15900	0.07	1558.82			0.40	0.42								
16200	0.06	1687.50				0.40								

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS200

## DHS Load Tables

DHS20012			Load Capacity (kN/m)						
Span (mm)	L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0	1	2	3	
2100	29.72	0.47	10.17		10.17				
2400	19.91	0.80	8.90		8.90				
2700	13.98	1.29	7.91		7.91				
3000	10.19	1.96	7.12		7.12				
3300	7.66	2.87	6.43	6.47	6.00	6.47			
3600	5.90	4.07	5.34	5.55	4.77	5.55			
3900	4.64	5.60	4.50	4.73	3.80	4.73			
4200	3.71	7.54	3.85	4.08	3.04	4.08			
4500	3.02	9.93	3.32	3.56	2.43	3.56			
4800	2.49	12.86	2.89	3.12	1.93	3.12			
5100	2.08	16.39	2.55	2.77	1.55	2.72	2.77		
5400	1.75	20.59	2.25	2.47	1.26	2.36	2.47		
5700	1.49	25.57	2.01	2.22	1.03	2.07	2.22		
6000	1.27	31.40	1.80	2.00	0.86	1.81	2.00		
6300	1.10	38.15	1.63	1.81	0.72	1.59	1.81		
6600	0.96	45.98	1.47	1.65	0.61	1.40	1.65		
6900	0.84	54.89	1.34	1.51	0.51	1.23	1.51		
7200	0.74	65.13	1.23	1.39	0.44	1.09	1.38	1.39	
7500	0.65	76.69	1.13	1.28		0.96	1.26	1.28	
7800	0.58	89.66	1.04	1.18		0.84	1.14	1.18	
8100	0.52	104.25	0.96	1.10		0.74	1.04	1.10	
8400	0.46	120.69	0.89	1.02		0.65	0.95	1.02	
8700	0.42	138.76	0.82	0.95		0.57	0.87	0.95	
9000	0.38	158.73	0.77	0.89		0.51	0.80	0.89	
9300	0.34	181.29	0.72	0.83		0.45	0.73	0.83	
9600	0.31	205.79	0.67	0.78		0.40	0.67	0.78	
9900	0.28	232.39	0.63	0.73			0.61	0.72	
10200	0.26	262.55	0.59	0.69			0.56	0.67	
10500	0.24	294.12	0.55	0.65			0.52	0.63	
10800	0.22	330.28	0.52	0.62			0.47	0.59	
11100	0.20	368.16	0.49	0.58			0.43	0.55	
11400	0.19	408.60	0.47	0.55			0.40	0.51	
11700	0.17	453.49	0.44	0.53				0.48	
12000	0.16	503.14	0.42	0.50				0.45	
12300	0.15	554.05	0.40	0.48				0.42	
12600	0.14	608.70		0.45					
12900	0.13	671.88		0.43					
13200	0.12	733.33		0.41					
13500	0.11	803.57		0.40					

DHS20015			Load Capacity (kN/m)						
Span (mm)	L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0	1	2	3	
2100	39.02	0.36	19.30		19.30				
2400	26.14	0.61	15.95		15.95				
2700	18.36	0.98	12.61		12.61				
3000	13.39	1.49	10.21		10.21				
3300	10.06	2.19	8.44		8.44		8.22	8.44	
3600	7.75	3.10	7.04	7.09	6.51	7.09			
3900	6.09	4.27	5.91	6.04	5.18	6.04			
4200	4.88	5.74	5.02	5.21	4.12	5.21			
4500	3.97	7.56	4.32	4.54	3.27	4.54			
4800	3.27	9.79	3.75	3.99	2.59	3.99			
5100	2.72	12.48	3.28	3.53	2.08	3.53			
5400	2.30	15.69	2.90	3.15	1.69	3.15			
5700	1.95	19.48	2.58	2.83	1.38	2.83			
6000	1.67	23.91	2.30	2.55	1.13	2.48	2.55		
6300	1.45	29.07	2.07	2.32	0.94	2.18	2.32		
6600	1.26	35.00	1.87	2.11	0.79	1.92	2.11		
6900	1.10	41.82	1.70	1.93	0.67	1.69	1.93		
7200	0.97	49.59	1.55	1.77	0.57	1.49	1.77		
7500	0.86	58.34	1.42	1.63	0.49	1.31	1.63		
7800	0.76	68.24	1.31	1.51	0.42	1.15	1.51		
8100	0.68	79.41	1.20	1.40		1.01	1.40		
8400	0.61	91.80	1.11	1.30		0.88	1.30		
8700	0.55	105.65	1.03	1.21		0.77	1.19	1.21	
9000	0.50	120.97	0.96	1.14		0.68	1.09	1.14	
9300	0.45	138.08	0.89	1.06		0.61	1.00	1.06	
9600	0.41	156.86	0.83	1.00		0.54	0.92	1.00	
9900	0.37	177.42	0.78	0.94		0.48	0.84	0.94	
10200	0.34	199.41	0.73	0.88		0.43	0.77	0.88	
10500	0.31	224.36	0.69	0.83			0.71	0.83	
10800	0.29	250.87	0.65	0.79			0.65	0.79	
11100	0.26	280.30	0.61	0.75			0.59	0.75	
11400	0.24	311.48	0.58	0.71			0.54	0.70	
11700	0.23	345.13	0.54	0.67			0.50	0.66	
12000	0.21	382.78	0.52	0.64			0.45	0.62	
12300	0.19	422.68	0.49	0.61			0.42	0.58	
12600	0.18	464.09	0.46	0.58				0.54	
12900	0.17	511.90	0.44	0.55				0.51	
13200	0.16	560.51	0.42	0.53				0.47	
13500	0.15	612.24	0.40	0.50				0.44	
13800	0.14	666.67		0.48				0.42	
14100	0.13	728.68		0.46					
14400	0.12	793.39		0.44					
14700	0.11	859.65		0.43					
15000	0.11	934.58		0.41					

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS200

## DHS Load Tables

<b>DHS20019</b>			Load Capacity (kN/m)										
Span (mm)	L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2,3	0	1	2	3				
2100	50.59	0.28	28.71						28.71				
2400	33.90	0.47	21.98						21.98				
2700	23.81	0.76	17.29	17.37					17.37				
3000	17.35	1.15	13.63	14.07					14.07				
3300	13.04	1.69	10.99	11.63					11.05	11.63			
3600	10.04	2.39	9.02	9.77					8.76	9.77			
3900	7.90	3.29	7.52	8.32					6.98	8.32			
4200	6.33	4.43	6.36	7.18					5.57	7.18			
4500	5.14	5.83	5.44	6.25					4.40	6.25			
4800	4.24	7.55	4.70	5.49					3.45	5.49			
5100	3.53	9.63	4.10	4.87					2.74	4.87			
5400	2.98	12.10	3.60	4.34					2.20	4.34			
5700	2.53	15.02	3.19	3.90					1.79	3.82	3.90		
6000	2.17	18.44	2.84	3.52					1.48	3.35	3.52		
6300	1.87	22.41	2.55	3.19					1.23	2.94	3.19		
6600	1.63	26.99	2.30	2.91					1.03	2.59	2.91		
6900	1.43	32.26	2.08	2.66					0.88	2.28	2.66		
7200	1.26	38.25	1.89	2.44					0.75	2.01	2.44		
7500	1.11	45.00	1.72	2.25					0.64	1.77	2.25		
7800	0.99	52.68	1.58	2.08					0.56	1.56	2.08		
8100	0.88	61.22	1.45	1.93					0.49	1.36	1.93		
8400	0.79	70.80	1.34	1.79					0.43	1.19	1.76	1.79	
8700	0.71	81.46	1.23	1.67					1.04	1.61	1.67		
9000	0.64	93.31	1.14	1.56					0.91	1.47	1.56		
9300	0.58	106.35	1.06	1.46					0.80	1.35	1.46		
9600	0.53	120.75	0.99	1.37					0.71	1.24	1.37		
9900	0.48	136.65	0.92	1.29					0.63	1.13	1.29		
10200	0.44	153.85	0.86	1.22					0.56	1.04	1.22		
10500	0.41	172.84	0.81	1.15					0.50	0.96	1.15		
10800	0.37	193.55	0.76	1.08					0.45	0.88	1.09		
11100	0.34	215.74	0.71	1.02					0.40	0.81	1.01		
11400	0.32	240.51	0.67	0.97						0.74	0.95		
11700	0.29	266.21	0.63	0.92	0.93					0.67	0.89		
12000	0.27	295.20	0.60	0.87	0.88					0.61	0.83		
12300	0.25	325.40	0.57	0.82	0.84					0.56	0.78		
12600	0.23	358.97	0.54	0.78	0.80					0.51	0.73		
12900	0.22	394.50	0.51	0.74	0.76					0.47	0.68		
13200	0.20	431.37	0.49	0.71	0.73					0.43	0.64		
13500	0.19	473.68	0.46	0.68	0.70						0.60		
13800	0.18	516.85	0.44	0.65	0.67						0.56		
14100	0.17	562.87	0.42	0.62	0.64						0.53		
14400	0.16	611.46	0.40	0.59	0.61						0.49		
14700	0.15	662.16		0.57	0.59						0.46		
15000	0.14	719.42		0.54	0.56						0.44		
15300	0.13	778.63		0.52	0.54						0.41		
15600	0.12	845.53		0.50	0.52								
15900	0.12	905.98		0.48	0.50								
16200	0.11	981.82		0.46	0.48								
16500	0.10	1057.69		0.44	0.47								
16800	0.10	1131.31		0.43	0.45								
17100	0.09	1212.77		0.41	0.43								
17400	0.09	1303.37		0.40	0.42								

<b>DHS20024</b>			Load Capacity (kN/m)												
Span (mm)	L/150	k	No. of rows of bridging												
			Inward				Outward								
			0	1	2	3	0	1	2	3					
2100	64.43	0.22	<b>39.08</b>										<b>39.08</b>		
2400	43.17	0.37	<b>28.80</b>	<b>29.92</b>									<b>29.92</b>		
2700	30.32	0.59	21.87	<b>23.64</b>									<b>23.64</b>		
3000	22.10	0.90	17.05	19.15								18.39	19.15		
3300	16.60	1.32	13.59	15.83								14.37	15.83		
3600	12.79	1.88	11.04	13.30								11.33	13.30		
3900	10.06	2.58	9.12	11.33								8.98	11.33		
4200	8.05	3.48	7.63	9.77								7.13	9.77		
4500	6.55	4.58	6.47	8.51								5.65	8.51		
4800	5.40	5.93	5.54	7.48								4.46	7.48		
5100	4.50	7.56	4.79	6.63								3.55	6.60	6.63	
5400	3.79	9.50	4.18	5.91								2.86	5.73	5.91	
5700	3.22	11.79	3.68	5.30								2.34	4.99	5.30	
6000	2.76	14.48	3.25	4.79								1.94	4.37	4.79	
6300	2.39	17.60	2.90	4.34								1.62	3.83	4.34	
6600	2.08	21.19	2.59	3.96								1.36	3.36	3.96	
6900	1.82	25.33	2.34	3.59	3.62							1.16	2.95	3.62	
7200	1.60	30.02	2.11	3.27	3.32							1.00	2.60	3.32	
7500	1.41	35.36	1.92	2.99	3.06							0.86	2.28	3.06	
7800	1.26	41.37	1.75	2.74	2.83							0.75	2.01	2.77	2.83
8100	1.12	48.09	1.60	2.52	2.63							0.65	1.76	2.52	2.63
8400	1.01	55.61	1.47	2.33	2.44							0.58	1.54	2.30	2.44
8700	0.91	64.02	1.36	2.16	2.28							0.51	1.35	2.10	2.28
9000	0.82	73.26	1.25	2.00	2.13							0.45	1.19	1.92	2.13
9300	0.74	83.56	1.16	1.86	1.99							0.40	1.05	1.75	1.99
9600	0.68	94.81	1.08	1.74	1.87							0.93	1.60	1.87	
9900	0.62	107.32	1.01	1.63	1.76							0.82	1.47	1.76	
10200	0.56	121.00	0.94	1.52	1.66							0.74	1.35	1.64	
10500	0.52	135.92	0.88	1.43	1.56							0.66	1.23	1.53	
10800	0.47	151.90	0.82	1.34	1.48							0.59	1.13	1.42	
11100	0.44	169.72	0.77	1.27	1.40							0.53	1.04	1.33	
11400	0.40	188.59	0.73	1.19	1.32	1.33						0.48	0.95	1.24	
11700	0.37	209.12	0.69	1.13	1.25	1.26						0.44	0.87	1.16	
12000	0.35	231.88	0.65	1.07	1.18	1.20						0.40	0.80	1.08	
12300	0.32	255.45	0.61	1.01	1.12	1.14							0.73	1.01	
12600	0.30	281.88	0.58	0.96	1.06	1.09							0.66	0.94	
12900	0.28	309.35	0.55	0.91	1.01	1.04							0.61	0.88	
13200	0.26	339.77	0.53	0.87	0.96	0.99							0.55	0.83	
13500	0.24	370.37	0.50	0.83	0.91	0.95							0.51	0.78	
13800	0.23	405.29	0.48	0.79	0.87	0.91							0.47	0.73	
14100	0.21	441.31	0.45	0.75	0.83	0.87							0.43	0.68	
14400	0.20	480.00	0.43	0.72	0.79	0.83							0.40	0.64	
14700	0.19	521.28	0.41	0.69	0.76	0.80								0.60	
15000	0.18	564.97	0.40	0.66	0.72	0.77								0.56	
15300	0.17	610.78		0.63	0.69	0.74								0.52	
15600	0.16	662.42		0.61	0.66	0.70								0.49	
15900	0.15	716.22		0.58	0.64	0.68								0.46	
16200	0.14	771.43		0.56	0.61	0.65								0.43	
16500	0.13	827.07		0.54	0.59	0.62								0.40	
16800	0.13	888.89		0.52	0.57	0.60									
17100	0.12	957.98		0.50	0.54	0.58									
17400	0.11	1026.55		0.48	0.52	0.55									
17700	0.11	1092.59		0.46	0.50	0.53									
18000	0.10	1176.47		0.45	0.49	0.52									

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS250

## DHS Load Tables

DHS25012			Load Capacity (kN/m)							
Span (mm)	L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1	2,3	0	1	2	3	
2100	54.49	0.26	8.67				8.67			
2400	36.50	0.44	7.59				7.59			
2700	25.64	0.70	6.74				6.74			
3000	18.69	1.07	6.07				6.07			
3300	14.04	1.57	5.52				5.52			
3600	10.82	2.22	5.06				5.06			
3900	8.51	3.06	4.67				4.67			
4200	6.81	4.11	4.34				4.34			
4500	5.54	5.42	4.05				3.73	4.05		
4800	4.56	7.01	3.79				3.04	3.79		
5100	3.80	8.94	3.34	3.57			2.48	3.57		
5400	3.21	11.23	2.95	3.37			2.06	3.35	3.37	
5700	2.73	13.94	2.62	3.09			1.72	2.95	3.09	
6000	2.34	17.12	2.35	2.79			1.45	2.60	2.79	
6300	2.02	20.81	2.11	2.53			1.24	2.31	2.53	
6600	1.76	25.07	1.91	2.30			1.06	2.05	2.30	
6900	1.54	29.95	1.73	2.11			0.90	1.82	2.11	
7200	1.35	35.50	1.58	1.94			0.77	1.62	1.94	
7500	1.20	41.81	1.45	1.78			0.67	1.45	1.77	1.78
7800	1.06	48.92	1.33	1.65			0.58	1.29	1.62	1.65
8100	0.95	56.84	1.23	1.53			0.50	1.15	1.48	1.53
8400	0.85	65.80	1.13	1.42			0.44	1.03	1.36	1.42
8700	0.77	75.72	1.05	1.32	1.33		0.92	1.25	1.33	
9000	0.69	86.71	0.98	1.23	1.24		0.82	1.15	1.24	
9300	0.63	98.88	0.91	1.15	1.16		0.73	1.06	1.16	
9600	0.57	112.28	0.85	1.07	1.09		0.66	0.98	1.09	
9900	0.52	126.92	0.80	1.01	1.02		0.59	0.90	1.02	
10200	0.48	143.16	0.75	0.95	0.97		0.54	0.83	0.95	
10500	0.44	160.55	0.70	0.89	0.91		0.49	0.77	0.89	
10800	0.40	179.55	0.66	0.84	0.86		0.44	0.71	0.83	
11100	0.37	200.54	0.62	0.79	0.82		0.41	0.66	0.78	
11400	0.34	222.87	0.59	0.75	0.77			0.61	0.73	
11700	0.32	247.62	0.56	0.71	0.73			0.56	0.69	
12000	0.29	273.97	0.53	0.67	0.70			0.52	0.65	
12300	0.27	302.58	0.50	0.64	0.66			0.48	0.61	
12600	0.25	333.33	0.47	0.61	0.63			0.45	0.57	
12900	0.24	365.96	0.45	0.58	0.60			0.41	0.54	
13200	0.22	401.83	0.43	0.55	0.58				0.51	
13500	0.21	439.02	0.41	0.53	0.55				0.48	
13800	0.19	479.17		0.51	0.53				0.45	
14100	0.18	522.22		0.48	0.50				0.43	
14400	0.17	568.05		0.46	0.48				0.40	
14700	0.16	616.35		0.44	0.46					
15000	0.15	666.67		0.43	0.44					
15300	0.14	723.40		0.41	0.43					
15600	0.13	781.95			0.41					

DHS25015			Load Capacity (kN/m)								
Span (mm)	L/150	k	No. of rows of bridging								
			Inward				Outward				
			0	1	2,3	0	1	2	3		
2100	71.26	0.20	16.46							16.46	
2400	47.74	0.34	14.41							14.41	
2700	33.53	0.54	12.81							12.81	
3000	24.44	0.82	11.52							11.52	
3300	18.36	1.20	10.48							10.48	
3600	14.15	1.70	9.42	9.60				9.47	9.60		
3900	11.13	2.34	7.90	8.58				7.76	8.58		
4200	8.91	3.14	6.71	7.40				6.40	7.40		
4500	7.24	4.14	5.76	6.45				5.30	6.45		
4800	5.97	5.36	5.00	5.67				4.41	5.67		
5100	4.98	6.83	4.38	5.02				3.66	5.02		
5400	4.19	8.59	3.86	4.48				3.00	4.48		
5700	3.56	10.66	3.43	4.02				2.46	3.99	4.02	
6000	3.06	13.09	3.06	3.63				2.04	3.54	3.63	
6300	2.64	15.92	2.75	3.29				1.71	3.15	3.29	
6600	2.30	19.16	2.49	3.00				1.44	2.81	3.00	
6900	2.01	22.90	2.26	2.74				1.22	2.52	2.74	
7200	1.77	27.15	2.05	2.52				1.05	2.26	2.52	
7500	1.56	31.97	1.88	2.32				0.90	2.03	2.32	
7800	1.39	37.38	1.73	2.15				0.77	1.83	2.15	
8100	1.24	43.48	1.59	1.99				0.67	1.65	1.99	
8400	1.11	50.31	1.47	1.85				0.58	1.48	1.84	1.85
8700	1.00	57.88	1.36	1.72				0.51	1.34	1.69	1.72
9000	0.91	66.30	1.26	1.61				0.45	1.21	1.56	1.61
9300	0.82	75.61	1.18	1.50	1.51				1.09	1.45	1.51
9600	0.75	85.79	1.10	1.41	1.42				0.97	1.34	1.42
9900	0.68	97.06	1.03	1.32	1.33				0.87	1.24	1.33
10200	0.62	109.32	0.96	1.24	1.26				0.77	1.15	1.25
10500	0.57	122.81	0.90	1.16	1.18				0.70	1.07	1.18
10800	0.52	137.40	0.85	1.10	1.12				0.63	0.99	1.12
11100	0.48	153.21	0.80	1.04	1.06				0.57	0.93	1.06
11400	0.45	170.79	0.76	0.98	1.00				0.51	0.86	0.99
11700	0.41	189.32	0.71	0.93	0.95				0.47	0.80	0.94
12000	0.38	209.42	0.68	0.88	0.91				0.42	0.75	0.88
12300	0.36	230.99	0.64	0.84	0.86				0.70	0.83	
12600	0.33	254.55	0.61	0.80	0.82				0.65	0.78	
12900	0.31	280.13	0.58	0.76	0.78				0.61	0.74	
13200	0.29	306.62	0.55	0.72	0.75				0.56	0.70	
13500	0.27	335.82	0.52	0.69	0.72				0.53	0.66	
13800	0.25	366.53	0.50	0.66	0.69				0.49	0.63	
14100	0.24	400.00	0.48	0.63	0.66				0.45	0.59	
14400	0.22	434.39	0.46	0.60	0.63				0.42	0.56	
14700	0.21	471.15	0.44	0.58	0.60					0.53	
15000	0.20	510.20	0.42	0.55	0.58					0.50	
15300	0.18	554.35	0.40	0.53	0.56					0.48	
15600	0.17	597.70		0.51	0.54					0.45	
15900	0.16	646.34		0.49	0.51					0.43	
16200	0.16	696.77		0.47	0.49					0.41	
16500	0.15	748.30		0.45	0.48						
16800	0.14	805.76		0.44	0.46						
17100	0.13	863.64		0.42	0.44						
17400	0.13	928.00		0.41	0.43						
17700	0.12	991.60			0.41						
18000	0.11	1061.95			0.40						

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS250

## DHS Load Tables

DHS25019			Load Capacity (kN/m)										
Span (mm)	L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2,3	0	1	2	3				
2100	93.29	0.15	<b>32.31</b>						<b>32.31</b>				
2400	62.50	0.26	<b>28.27</b>						<b>28.27</b>				
2700	43.90	0.41	<b>24.56</b>						<b>24.56</b>				
3000	32.00	0.63	19.89						19.89				
3300	24.04	0.92	16.04	16.44					16.44				
3600	18.52	1.30	13.10	13.82					13.70	13.82			
3900	14.57	1.79	10.86	11.77					11.10	11.77			
4200	11.66	2.40	9.13	10.15					9.04	10.15			
4500	9.48	3.16	7.76	8.84					7.38	8.84			
4800	7.81	4.10	6.67	7.77					6.02	7.77			
5100	6.51	5.22	5.78	6.88					4.89	6.88			
5400	5.49	6.56	5.05	6.14					3.97	6.14			
5700	4.67	8.15	4.45	5.51					3.24	5.51			
6000	4.00	10.00	3.94	4.97					2.66	4.97			
6300	3.46	12.16	3.51	4.51					2.21	4.51			
6600	3.01	14.64	3.15	4.11					1.85	4.07	4.11		
6900	2.63	17.49	2.84	3.76					1.56	3.63	3.76		
7200	2.32	20.73	2.57	3.45					1.33	3.23	3.45		
7500	2.05	24.41	2.33	3.18					1.14	2.89	3.18		
7800	1.82	28.56	2.13	2.94					0.98	2.58	2.94		
8100	1.63	33.21	1.95	2.73					0.85	2.30	2.73		
8400	1.46	38.41	1.79	2.54					0.74	2.06	2.54		
8700	1.31	44.21	1.65	2.37					0.65	1.84	2.37		
9000	1.19	50.63	1.52	2.21					0.57	1.64	2.21		
9300	1.07	57.73	1.41	2.07					0.51	1.46	2.07		
9600	0.98	65.51	1.31	1.94					0.45	1.29	1.94		
9900	0.89	74.16	1.22	1.83					0.40	1.15	1.79	1.83	
10200	0.81	83.54	1.14	1.72					1.03	1.66	1.72		
10500	0.75	93.83	1.07	1.62					0.92	1.53	1.62		
10800	0.69	104.96	1.00	1.54					0.82	1.42	1.54		
11100	0.63	117.09	0.94	1.45					0.74	1.31	1.45		
11400	0.58	130.36	0.88	1.38					0.67	1.22	1.38		
11700	0.54	144.71	0.83	1.30	1.31				0.60	1.13	1.31		
12000	0.50	160.00	0.79	1.23	1.24				0.54	1.04	1.24		
12300	0.46	176.72	0.74	1.17	1.18				0.50	0.97	1.18		
12600	0.43	194.44	0.70	1.11	1.13				0.45	0.90	1.13		
12900	0.40	213.93	0.67	1.05	1.08				0.41	0.83	1.07		
13200	0.38	234.04	0.63	1.00	1.03					0.77	1.01		
13500	0.35	256.41	0.60	0.96	0.98					0.71	0.95		
13800	0.33	279.64	0.57	0.91	0.94					0.65	0.90		
14100	0.31	305.19	0.55	0.87	0.90					0.60	0.85		
14400	0.29	332.18	0.52	0.83	0.86					0.56	0.80		
14700	0.27	360.29	0.50	0.80	0.83					0.52	0.75		
15000	0.26	390.63	0.47	0.76	0.80					0.48	0.71		
15300	0.24	423.24	0.45	0.73	0.77					0.44	0.67		
15600	0.23	456.14	0.43	0.70	0.74					0.41	0.64		
15900	0.22	493.02	0.42	0.67	0.71						0.60		
16200	0.20	532.02	0.40	0.65	0.68						0.57		
16500	0.19	572.92		0.62	0.66						0.54		
16800	0.18	615.38		0.60	0.63						0.51		
17100	0.17	658.96		0.58	0.61						0.48		
17400	0.16	707.32		0.56	0.59						0.45		
17700	0.16	756.41		0.54	0.57						0.42		
18000	0.15	810.81		0.52	0.55						0.40		

DHS25024			Load Capacity (kN/m)										
Span (mm)	L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	119.91	0.12	<b>55.81</b>										<b>55.81</b>
2400	80.33	0.20	<b>42.73</b>										<b>42.73</b>
2700	56.42	0.32	<b>33.13</b>	<b>33.76</b>									<b>33.76</b>
3000	41.13	0.49	<b>25.84</b>	<b>27.35</b>									<b>27.35</b>
3300	30.90	0.71	<b>20.56</b>	<b>22.60</b>									<b>22.60</b>
3600	23.80	1.01	16.59	<b>18.99</b>									<b>18.20</b> <b>18.99</b>
3900	18.72	1.39	13.59	<b>16.18</b>									14.74 <b>16.18</b>
4200	14.99	1.87	11.29	13.95									11.93 13.95
4500	12.19	2.46	9.48	12.15									9.67 12.15
4800	10.04	3.19	8.05	10.68									7.84 10.68
5100	8.37	4.06	6.90	9.46									6.33 9.46
5400	7.05	5.10	5.96	8.44									5.09 8.44
5700	6.00	6.34	5.19	7.58									4.14 7.58
6000	5.14	7.78	4.55	6.84									3.41 6.84
6300	4.44	9.46	4.02	6.20									2.83 6.10 6.20
6600	3.86	11.39	3.57	5.65									2.37 5.42 5.65
6900	3.38	13.61	3.19	5.17									2.01 4.83 5.17
7200	2.98	16.13	2.87	4.75									1.71 4.30 4.75
7500	2.63	19.00	2.59	4.38									1.47 3.83 4.38
7800	2.34	22.22	2.35	4.05									1.27 3.41 4.05
8100	2.09	25.84	2.14	3.72	3.75								1.10 3.04 3.75
8400	1.87	29.88	1.96	3.44	3.49								0.97 2.71 3.49
8700	1.69	34.40	1.80	3.18	3.25								0.85 2.41 3.25
9000	1.52	39.40	1.66	2.95	3.04								0.75 2.14 3.04
9300	1.38	44.90	1.54	2.74	2.85								0.67 1.90 2.80 2.85
9600	1.26	51.00	1.42	2.55	2.67								0.59 1.68 2.58 2.67
9900	1.15	57.64	1.32	2.38	2.51								0.53 1.49 2.39 2.51
10200	1.05	65.01	1.23	2.23	2.37								0.48 1.33 2.21 2.37
10500	0.96	72.99	1.15	2.09	2.23								0.43 1.19 2.04 2.23
10800	0.88	81.63	1.08	1.96	2.11								1.06 1.89 2.11
11100	0.81	91.13	1.01	1.85	2.00								0.96 1.74 2.00
11400	0.75	101.33	0.95	1.74	1.89								0.86 1.61 1.89
11700	0.69	112.55	0.90	1.64	1.80								0.78 1.49 1.80
12000	0.64	124.42	0.85	1.55	1.71								0.71 1.38 1.71
12300	0.60	137.35	0.80	1.47	1.63								0.64 1.27 1.61
12600	0.56	151.35	0.76	1.39	1.55								0.59 1.18 1.51
12900	0.52	166.34	0.72	1.32	1.48								0.54 1.09 1.43
13200	0.48	182.19	0.68	1.25	1.41								0.49 1.00 1.34
13500	0.45	199.56	0.65	1.19	1.34	1.35							0.45 0.92 1.27
13800	0.42	217.49	0.61	1.13	1.28	1.29							0.41 0.85 1.20
14100	0.40	237.37	0.58	1.08	1.22	1.24							0.78 1.13
14400	0.37	258.06	0.56	1.03	1.16	1.19							0.72 1.06
14700	0.35	280.00	0.53	0.98	1.11	1.14							0.67 1.00
15000	0.33	303.95	0.51	0.94	1.06	1.09							0.62 0.94
15300	0.31	329.03	0.49	0.90	1.02	1.05							0.57 0.89
15600	0.29	354.95	0.47	0.86	0.97	1.01							0.53 0.84
15900	0.28	384.06	0.45	0.83	0.93	0.97							0.49 0.79
16200	0.26	413.79	0.43	0.79	0.89	0.94							0.46 0.75
16500	0.25	445.34	0.41	0.76	0.86	0.90							0.42 0.70
16800	0.23	478.63		0.73	0.83	0.87							0.40 0.66
17100	0.22	513.51		0.70	0.79	0.84							0.62
17400	0.21	549.76		0.68	0.76	0.81							0.59
17700	0.20	590.00		0.65	0.74	0.79							0.55
18000	0.19	631.58		0.63	0.71	0.76							0.52

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS300

## DHS Load Tables

DHS30015			Load Capacity (kN/m)										
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	117.32	0.12	13.87						13.87				
2400	78.59	0.20	12.13						12.14				
2700	55.20	0.33	10.79						10.79				
3000	40.24	0.50	9.71						9.71				
3300	30.23	0.73	8.83						8.83				
3600	23.29	1.03	8.09						8.09				
3900	18.31	1.42	7.47						7.47				
4200	14.67	1.91	6.93						6.93				
4500	11.92	2.52	6.47						6.47				
4800	9.82	3.26	6.07						6.07				
5100	8.19	4.15	5.45	5.71					5.22	5.71			
5400	6.90	5.22	4.79	5.39					4.43	5.39			
5700	5.87	6.48	4.24	5.11					3.75	5.11			
6000	5.03	7.95	3.78	4.70					3.18	4.66	4.70		
6300	4.35	9.67	3.38	4.26					2.71	4.16	4.26		
6600	3.78	11.64	3.04	3.89					2.33	3.74	3.89		
6900	3.31	13.91	2.75	3.55					2.02	3.37	3.56		
7200	2.91	16.49	2.50	3.26					1.76	3.04	3.26		
7500	2.58	19.42	2.28	2.99	3.01				1.52	2.75	3.01		
7800	2.29	22.72	2.09	2.75	2.78				1.32	2.50	2.78		
8100	2.04	26.42	1.92	2.54	2.58				1.15	2.27	2.58		
8400	1.83	30.55	1.77	2.35	2.40				1.01	2.06	2.40		
8700	1.65	35.15	1.63	2.18	2.24				0.89	1.88	2.22	2.24	
9000	1.49	40.27	1.51	2.03	2.09				0.78	1.71	2.06	2.09	
9300	1.35	45.89	1.40	1.89	1.96				0.69	1.56	1.91	1.96	
9600	1.23	52.12	1.31	1.77	1.84				0.62	1.43	1.78	1.84	
9900	1.12	58.93	1.22	1.65	1.73				0.55	1.30	1.65	1.73	
10200	1.02	66.41	1.14	1.55	1.63				0.49	1.19	1.54	1.63	
10500	0.94	74.55	1.07	1.46	1.54				0.44	1.08	1.44	1.54	
10800	0.86	83.53	1.00	1.37	1.45				0.40	0.99	1.34	1.45	
11100	0.79	93.20	0.94	1.30	1.37				0.90	1.25	1.37		
11400	0.73	103.68	0.89	1.22	1.30				0.83	1.17	1.30		
11700	0.68	115.04	0.84	1.16	1.24				0.76	1.10	1.23		
12000	0.63	127.19	0.79	1.10	1.17	1.18			0.70	1.03	1.16		
12300	0.58	140.41	0.75	1.04	1.11	1.12			0.64	0.97	1.10		
12600	0.54	154.70	0.71	0.99	1.06	1.07			0.59	0.91	1.04		
12900	0.51	169.96	0.68	0.94	1.01	1.02			0.55	0.85	0.98		
13200	0.47	186.44	0.64	0.90	0.96	0.97			0.51	0.80	0.93		
13500	0.44	203.62	0.61	0.86	0.91	0.93			0.47	0.75	0.88		
13800	0.41	222.76	0.58	0.82	0.87	0.89			0.43	0.71	0.84		
14100	0.39	242.27	0.55	0.78	0.83	0.85			0.40	0.66	0.80		
14400	0.36	263.74	0.53	0.75	0.80	0.82				0.62	0.76		
14700	0.34	286.55	0.51	0.71	0.76	0.78				0.59	0.72		
15000	0.32	310.56	0.48	0.68	0.73	0.75				0.55	0.68		
15300	0.30	336.63	0.46	0.66	0.70	0.72				0.52	0.65		
15600	0.29	363.64	0.44	0.63	0.67	0.70				0.49	0.62		
15900	0.27	392.59	0.43	0.61	0.65	0.67				0.46	0.59		
16200	0.26	421.88	0.41	0.58	0.62	0.64				0.43	0.56		
16500	0.24	454.55		0.56	0.60	0.62				0.40	0.54		
16800	0.23	489.08		0.54	0.57	0.60					0.51		
17100	0.22	525.35		0.52	0.55	0.58					0.49		
17400	0.21	563.11		0.50	0.53	0.55					0.47		
17700	0.20	602.04		0.48	0.51	0.53					0.44		
18000	0.19	645.16		0.47	0.50	0.52					0.42		

DHS30019			Load Capacity (kN/m)										
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	153.75	0.09	27.22						27.22				
2400	103.00	0.16	23.82						23.82				
2700	72.34	0.25	21.17						21.17				
3000	52.74	0.38	19.06						19.06				
3300	39.62	0.56	17.32						17.32				
3600	30.52	0.79	15.88						15.88				
3900	24.01	1.08	14.20	14.66					14.66				
4200	19.22	1.46	11.97	13.27					12.69	13.27			
4500	15.63	1.92	10.20	11.56					10.68	11.56			
4800	12.88	2.49	8.78	10.16					9.04	10.16			
5100	10.73	3.17	7.62	9.00					7.68	9.00			
5400	9.04	3.98	6.66	8.03					6.53	8.03			
5700	7.69	4.94	5.87	7.21					5.55	7.21			
6000	6.59	6.07	5.20	6.50					4.62	6.50			
6300	5.70	7.37	4.64	5.90					3.87	5.90			
6600	4.95	8.88	4.15	5.38					3.26	5.38			
6900	4.33	10.61	3.72	4.92					2.77	4.92			
7200	3.82	12.58	3.34	4.52					2.37	4.44	4.52		
7500	3.38	14.81	3.02	4.16					2.04	4.03	4.16		
7800	3.00	17.33	2.74	3.85					1.76	3.66	3.85		
8100	2.68	20.16	2.50	3.57					1.53	3.33	3.57		
8400	2.40	23.31	2.29	3.32					1.33	3.03	3.32		
8700	2.16	26.83	2.10	3.09					1.16	2.77	3.09		
9000	1.95	30.72	1.93	2.89					1.02	2.53	2.89		
9300	1.77	35.03	1.79	2.69	2.71				0.90	2.31	2.71		
9600	1.61	39.78	1.66	2.51	2.54				0.80	2.11	2.54		
9900	1.47	44.96	1.54	2.35	2.39				0.71	1.93	2.39		
10200	1.34	50.67	1.44	2.20	2.25				0.63	1.77	2.25		
10500	1.23	56.91	1.34	2.07	2.12				0.57	1.60	2.10	2.12	
10800	1.13	63.72	1.25	1.95	2.01				0.51	1.45	1.96	2.01	
11100	1.04	71.09	1.18	1.84	1.90				0.46	1.31	1.84	1.90	
11400	0.96	79.08	1.11	1.73	1.80				0.42	1.18	1.72	1.80	
11700	0.89	87.74	1.04	1.64	1.71				0.42	1.07	1.61	1.71	
12000	0.82	97.09	0.98	1.55	1.63				0.38	0.98	1.51	1.63	
12300	0.77	107.19	0.93	1.47	1.55				0.35	0.89	1.42	1.55	
12600	0.71	117.98	0.88	1.40	1.48				0.32	0.82	1.33	1.48	
12900	0.66	129.71	0.83	1.33	1.41				0.29	0.75	1.25	1.41	
13200	0.62	142.16	0.79	1.26	1.34				0.27	0.69	1.18	1.34	
13500	0.58	155.44	0.75	1.20	1.29				0.25	0.63	1.11	1.29	
13800	0.54	169.74	0.71	1.15	1.23				0.23	0.58	1.04	1.23	
14100	0.51	185.04	0.68	1.09	1.18				0.21	0.53	0.98	1.16	
14400	0.48	201.26	0.65	1.05	1.13				0.20	0.49	0.92	1.10	
14700	0.45	218.75	0.62	1.00	1.08				0.19	0.45	0.87	1.05	
15000	0.42	236.97	0.59	0.96	1.04				0.18	0.42	0.82	1.00	
15300	0.40	256.28	0.56	0.92	1.00				0.17	0.40	0.77	0.95	
15600	0.38	277.33	0.54	0.88	0.96				0.16	0.38	0.72	0.91	
15900	0.35	299.44	0.52	0.85	0.92	0.93			0.15	0.36	0.67	0.87	
16200	0.34	322.39	0.49	0.81	0.88	0.89			0.14	0.34	0.62	0.83	
16500	0.32	347.00	0.47	0.78	0.85	0.86			0.13	0.32	0.58	0.79	
16800	0.30	373.33	0.46	0.75	0.81	0.83			0.12	0.30	0.54	0.75	
17100	0.29	400.00	0.44	0.72	0.78	0.80			0.11	0.29	0.51	0.72	
17400	0.27	429.63	0.42	0.70	0.76	0.77			0.10	0.27	0.48	0.68	
17700	0.26	459.14	0.41	0.67	0.73	0.75			0.09	0.26	0.45	0.65	
18000	0.24	491.80		0.65	0.70	0.72			0.08	0.24	0.42	0.62	

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS300

## DHS Load Tables

<b>DHS30024</b>				Load Capacity (kN/m)										
Span (mm)	Δ L/150	k	No. of rows of bridging											
			Inward				Outward							
			0	1	2	3	0	1	2	3				
2100	201.68	0.07	<b>53.01</b>							<b>53.01</b>				
2400	135.10	0.12	<b>46.39</b>							<b>46.39</b>				
2700	94.88	0.19	<b>41.23</b>							<b>41.23</b>				
3000	69.17	0.29	<b>36.07</b>							<b>36.07</b>				
3300	51.97	0.42	<b>29.08</b>	<b>29.81</b>						<b>29.81</b>				
3600	40.03	0.60	<b>23.53</b>	<b>25.05</b>						<b>25.05</b>				
3900	31.49	0.83	<b>19.30</b>	<b>21.34</b>						<b>21.34</b>				
4200	25.21	1.11	<b>16.03</b>	<b>18.40</b>						<b>18.10</b>	<b>18.40</b>			
4500	20.50	1.46	<b>13.45</b>	<b>16.03</b>						<b>15.09</b>	<b>16.03</b>			
4800	16.89	1.89	11.39	<b>14.09</b>						<b>12.62</b>	<b>14.09</b>			
5100	14.08	2.41	9.73	<b>12.48</b>						10.58	<b>12.48</b>			
5400	11.86	3.04	8.38	11.13						8.87	11.13			
5700	10.09	3.77	7.26	9.99						7.42	9.99			
6000	8.65	4.63	6.34	9.02						6.18	9.02			
6300	7.47	5.62	5.56	8.18						5.12	8.18			
6600	6.50	6.77	4.90	7.45						4.28	7.45			
6900	5.69	8.09	4.35	6.82						3.61	6.82			
7200	5.00	9.59	3.88	6.26						3.06	6.26			
7500	4.43	11.29	3.49	5.77						2.62	5.77			
7800	3.94	13.21	3.15	5.34						2.25	5.22	5.34		
8100	3.51	15.37	2.86	4.95						1.95	4.72	4.95		
8400	3.15	17.77	2.60	4.60						1.70	4.28	4.60		
8700	2.84	20.45	2.38	4.29						1.49	3.88	4.29		
9000	2.56	23.42	2.19	4.01						1.31	3.52	4.01		
9300	2.32	26.70	2.02	3.75						1.16	3.19	3.75		
9600	2.11	30.32	1.86	3.50	3.52					1.03	2.90	3.52		
9900	1.93	34.29	1.73	3.27	3.31					0.92	2.63	3.31		
10200	1.76	38.64	1.60	3.05	3.12					0.82	2.38	3.12		
10500	1.61	43.40	1.50	2.86	2.94					0.73	2.16	2.94		
10800	1.48	48.55	1.40	2.68	2.78					0.66	1.95	2.78		
11100	1.37	54.17	1.31	2.52	2.64					0.60	1.75	2.63	2.64	
11400	1.26	60.27	1.23	2.37	2.50					0.54	1.58	2.46	2.50	
11700	1.17	66.90	1.15	2.23	2.37					0.49	1.43	2.29	2.37	
12000	1.08	74.01	1.08	2.11	2.25					0.45	1.29	2.14	2.25	
12300	1.00	81.67	1.02	1.99	2.15					0.41	1.17	2.01	2.15	
12600	0.93	89.94	0.97	1.88	2.05					1.07	1.88	2.05		
12900	0.87	98.85	0.91	1.78	1.95					0.97	1.76	1.95		
13200	0.81	108.37	0.87	1.69	1.86					0.89	1.64	1.86		
13500	0.76	118.58	0.82	1.61	1.78					0.82	1.54	1.78		
13800	0.71	129.40	0.78	1.53	1.71					0.75	1.44	1.71		
14100	0.67	141.14	0.74	1.46	1.63					0.69	1.35	1.63		
14400	0.63	153.60	0.71	1.39	1.57					0.63	1.26	1.57		
14700	0.59	166.67	0.67	1.32	1.50					0.59	1.18	1.50		
15000	0.55	180.83	0.64	1.26	1.44					0.54	1.10	1.43		
15300	0.52	195.78	0.61	1.21	1.39					0.50	1.03	1.36		
15600	0.49	211.38	0.59	1.16	1.33					0.47	0.96	1.29		
15900	0.47	227.96	0.56	1.11	1.28					0.43	0.90	1.23		
16200	0.44	246.01	0.54	1.06	1.23	1.24				0.40	0.84	1.17		
16500	0.42	264.42	0.52	1.02	1.18	1.19				0.78	1.11			
16800	0.39	284.26	0.50	0.98	1.13	1.15				0.73	1.06			
17100	0.37	304.81	0.48	0.94	1.08	1.11				0.68	1.01			
17400	0.36	326.76	0.46	0.90	1.04	1.07				0.63	0.96			
17700	0.34	350.15	0.44	0.87	1.00	1.04				0.59	0.91			
18000	0.32	375.00	0.42	0.83	0.96	1.00				0.55	0.87			

<b>DHS30030</b>				Load Capacity (kN/m)										
Span (mm)	Δ L/150	k	No. of rows of bridging											
			Inward				Outward							
			0	1	2	3	0	1	2	3				
2100	256.11	0.05	<b>99.15</b>							<b>99.15</b>				
2400	171.57	0.09	<b>75.91</b>							<b>75.91</b>				
2700	120.50	0.15	<b>59.98</b>							<b>59.98</b>				
3000	87.85	0.23	<b>47.26</b>	<b>48.58</b>						<b>48.58</b>				
3300	66.00	0.33	<b>37.25</b>	<b>40.15</b>						<b>40.15</b>				
3600	50.84	0.47	<b>29.80</b>	<b>33.74</b>						<b>33.74</b>				
3900	39.98	0.65	<b>24.16</b>	<b>28.75</b>						<b>28.75</b>				
4200	32.01	0.87	<b>19.80</b>	<b>24.79</b>						<b>23.82</b>	<b>24.79</b>			
4500	26.03	1.15	<b>16.38</b>	<b>21.59</b>						<b>19.78</b>	<b>21.59</b>			
4800	21.45	1.49	<b>13.68</b>	<b>18.98</b>						<b>16.48</b>	<b>18.98</b>			
5100	17.88	1.90	11.51	<b>16.81</b>						<b>13.75</b>	<b>16.81</b>			
5400	15.06	2.39	9.75	<b>14.99</b>						<b>11.48</b>	<b>14.99</b>			
5700	12.81	2.97	8.34	<b>13.46</b>						9.56	<b>13.46</b>			
6000	10.98	3.64	7.19	<b>12.15</b>						7.94	<b>12.15</b>			
6300	9.49	4.43	6.26	<b>11.02</b>						6.59	<b>11.02</b>			
6600	8.25	5.33	5.50	<b>10.04</b>						5.52	<b>10.04</b>			
6900	7.22	6.37	4.87	<b>9.18</b>						4.65	<b>9.18</b>			
7200	6.36	7.55	4.33	<b>8.43</b>						3.96	<b>8.43</b>			
7500	5.62	8.89	3.88	<b>7.77</b>						3.39	<b>7.62</b>	<b>7.77</b>		
7800	5.00	10.40	3.50	<b>7.19</b>						2.92	<b>6.87</b>	<b>7.19</b>		
8100	4.46	12.10	3.17	6.64	6.66					2.54	<b>6.21</b>	<b>6.66</b>		
8400	4.00	13.99	2.88	6.10	6.20					2.21	<b>5.61</b>	<b>6.20</b>		
8700	3.60	16.10	2.63	5.62	5.78					1.94	<b>5.08</b>	<b>5.78</b>		
9000	3.25	18.44	2.41	5.18	5.40					1.71	<b>4.60</b>	<b>5.40</b>		
9300	2.95	21.02	2.22	4.80	5.06					1.51	<b>4.17</b>	<b>5.06</b>		
9600	2.68	23.87	2.05	4.45	4.74					1.35	<b>3.78</b>	<b>4.74</b>		
9900	2.45	26.99	1.90	4.13	4.46					1.20	<b>3.42</b>	<b>4.46</b>		
10200	2.24	30.43	1.76	3.85	4.20					1.08	<b>3.09</b>	<b>4.20</b>		
10500	2.05	34.16	1.64	3.59	3.97					0.97	<b>2.80</b>	<b>3.97</b>		
10800	1.88	38.24	1.53	3.35	3.75					0.88	<b>2.52</b>	<b>3.72</b>	<b>3.75</b>	
11100	1.73	42.68	1.43	3.14	3.55					0.79	<b>2.28</b>	<b>3.47</b>	<b>3.55</b>	
11400	1.60	47.47	1.34	2.94	3.36					0.72	<b>2.05</b>	<b>3.24</b>	<b>3.36</b>	
11700	1.48	52.67	1.26	2.76	3.19					0.66	<b>1.85</b>	<b>3.02</b>	<b>3.19</b>	
12000	1.37	58.27	1.19	2.60	3.04					0.60	<b>1.68</b>	<b>2.82</b>	<b>3.04</b>	
12300	1.28	64.31	1.12	2.45	2.89					0.55	<b>1.53</b>	<b>2.63</b>	<b>2.89</b>	
12600	1.19	70.83	1.06	2.31	2.75					0.50	<b>1.39</b>	<b>2.46</b>	<b>2.75</b>	
12900	1.11	77.83	1.00	2.18	2.63					0.46	<b>1.27</b>	<b>2.30</b>	<b>2.63</b>	
13200	1.03	85.35	0.95	2.06	2.50	2.51				0.43	<b>1.16</b>	<b>2.15</b>	<b>2.51</b>	
13500	0.96	93.36	0.90	1.95	2.38	2.40				0.40	<b>1.07</b>	<b>2.01</b>	<b>2.40</b>	
13800	0.90	102.00	0.85	1.85	2.26	2.30				0.38	<b>0.98</b>	<b>1.88</b>	<b>2.30</b>	
14100	0.85	111.11	0.81	1.75	2.15	2.20				0.36	<b>0.90</b>	<b>1.76</b>	<b>2.20</b>	
14400	0.79	120.91	0.77	1.67	2.04	2.11				0.34	<b>0.83</b>	<b>1.64</b>	<b>2.10</b>	
14700	0.75	131.19	0.73	1.59	1.95	2.02				0.32	<b>0.77</b>	<b>1.54</b>	<b>1.99</b>	
15000	0.70	142.25	0.70	1.51	1.86	1.94				0.30	<b>0.71</b>	<b>1.43</b>	<b>1.89</b>	
15300	0.66	154.08	0.67	1.44	1.77	1.87				0.28	<b>0.66</b>	<b>1.34</b>	<b>1.79</b>	
15600	0.63	166.40	0.64	1.37	1.69	1.80				0.26	<b>0.61</b>	<b>1.25</b>	<b>1.70</b>	
15900	0.59	179.66	0.61	1.31	1.62	1.73				0.24	<b>0.57</b>	<b>1.17</b>	<b>1.62</b>	
16200	0.56	193.55	0.59	1.25	1.55	1.67				0.22	<b>0.53</b>	<b>1.09</b>	<b>1.53</b>	
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## Single Span DHS350

## DHS Load Tables

DHS35019			Load Capacity (kN/m)										
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	222.52	0.06	22.84						22.84				
2400	149.06	0.11	19.98						19.99				
2700	104.69	0.17	17.76						17.76				
3000	76.32	0.26	15.99						15.99				
3300	57.34	0.38	14.53						14.53				
3600	44.17	0.54	13.32						13.32				
3900	34.74	0.75	12.30						12.30				
4200	27.82	1.01	11.42						11.42				
4500	22.61	1.33	10.66						10.66				
4800	18.63	1.72	9.99						9.99				
5100	15.54	2.19	8.94	9.41					9.23	9.41			
5400	13.09	2.75	7.80	8.88					7.86	8.88			
5700	11.13	3.41	6.85	8.41					6.69	8.42			
6000	9.54	4.19	6.05	7.91					5.69	7.91			
6300	8.24	5.10	5.38	7.18					4.86	7.18			
6600	7.17	6.14	4.81	6.54					4.17	6.54			
6900	6.27	7.33	4.32	5.98					3.56	5.91	5.98		
7200	5.52	8.69	3.90	5.49					3.04	5.35	5.49		
7500	4.89	10.24	3.53	5.06					2.61	4.84	5.06		
7800	4.34	11.98	3.22	4.68					2.26	4.40	4.68		
8100	3.88	13.92	2.94	4.33	4.34				1.96	4.00	4.34		
8400	3.48	16.11	2.70	4.00	4.04				1.70	3.65	4.04		
8700	3.13	18.54	2.49	3.70	3.76				1.48	3.33	3.76		
9000	2.83	21.22	2.30	3.44	3.52				1.30	3.04	3.52		
9300	2.56	24.20	2.13	3.20	3.29				1.15	2.78	3.29		
9600	2.33	27.48	1.98	2.99	3.09				1.02	2.54	3.09		
9900	2.12	31.07	1.85	2.79	2.91				0.90	2.33	2.90	2.91	
10200	1.94	35.02	1.72	2.62	2.74				0.81	2.13	2.70	2.74	
10500	1.78	39.33	1.60	2.46	2.58				0.72	1.95	2.52	2.58	
10800	1.64	44.01	1.50	2.31	2.44				0.65	1.78	2.36	2.44	
11100	1.51	49.10	1.41	2.17	2.31				0.58	1.63	2.21	2.31	
11400	1.39	54.64	1.32	2.05	2.19				0.53	1.49	2.07	2.19	
11700	1.29	60.61	1.24	1.94	2.08				0.48	1.37	1.94	2.08	
12000	1.19	67.06	1.17	1.83	1.98				0.43	1.26	1.82	1.98	
12300	1.11	74.07	1.10	1.74	1.88				1.15	1.71	1.88		
12600	1.03	81.55	1.04	1.65	1.79				1.05	1.61	1.79		
12900	0.96	89.58	0.99	1.57	1.71				0.96	1.51	1.71		
13200	0.90	98.21	0.94	1.49	1.63				0.88	1.42	1.63		
13500	0.84	107.40	0.89	1.42	1.56				0.81	1.33	1.55		
13800	0.78	117.35	0.85	1.35	1.48	1.50			0.75	1.26	1.47		
14100	0.74	127.89	0.81	1.29	1.42	1.43			0.69	1.18	1.40		
14400	0.69	139.13	0.77	1.23	1.35	1.37			0.63	1.11	1.33		
14700	0.65	151.00	0.73	1.18	1.29	1.32			0.58	1.05	1.26		
15000	0.61	163.67	0.70	1.13	1.24	1.27			0.54	0.99	1.20		
15300	0.58	177.39	0.67	1.08	1.19	1.22			0.50	0.93	1.15		
15600	0.54	191.53	0.64	1.03	1.14	1.17			0.46	0.87	1.09		
15900	0.51	206.63	0.61	0.99	1.09	1.13			0.43	0.82	1.04		
16200	0.49	222.68	0.59	0.95	1.05	1.09			0.40	0.77	0.99		
16500	0.46	239.65	0.56	0.92	1.01	1.05				0.73	0.95		
16800	0.44	257.47	0.54	0.88	0.97	1.01				0.69	0.90		
17100	0.41	276.70	0.52	0.85	0.93	0.97				0.65	0.86		
17400	0.39	296.68	0.50	0.82	0.90	0.94				0.61	0.82		
17700	0.37	317.20	0.48	0.79	0.86	0.91				0.58	0.79		
18000	0.35	339.94	0.46	0.76	0.83	0.88				0.54	0.75		

DHS35024			Load Capacity (kN/m)										
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	291.64	0.05	44.52						44.52				
2400	195.38	0.08	38.95						38.95				
2700	137.21	0.13	34.62						34.63				
3000	100.03	0.20	31.16						31.16				
3300	75.15	0.29	28.33						28.33				
3600	57.89	0.41	25.97						25.97				
3900	45.53	0.57	23.97						23.97				
4200	36.45	0.77	19.98	22.21					22.21				
4500	29.64	1.01	16.71	19.35					18.88	19.35			
4800	24.42	1.31	14.10	17.00					16.02	17.00			
5100	20.36	1.67	12.00	15.06					13.50	15.06			
5400	17.15	2.10	10.28	13.44					11.34	13.44			
5700	14.58	2.61	8.87	12.06					9.51	12.06			
6000	12.50	3.20	7.71	10.88					7.94	10.88			
6300	10.80	3.89	6.73	9.87					6.61	9.87			
6600	9.39	4.68	5.91	8.99					5.52	8.99			
6900	8.22	5.60	5.24	8.23					4.64	8.23			
7200	7.24	6.63	4.67	7.56					3.94	7.56			
7500	6.40	7.81	4.19	6.97					3.37	6.97			
7800	5.69	9.14	3.77	6.44					2.89	6.44			
8100	5.08	10.63	3.42	5.97					2.50	5.89	5.97		
8400	4.56	12.29	3.11	5.55					2.18	5.37	5.55		
8700	4.10	14.14	2.84	5.18					1.90	4.91	5.18		
9000	3.71	16.19	2.61	4.84					1.67	4.49	4.84		
9300	3.36	18.46	2.40	4.53					1.48	4.08	4.53		
9600	3.05	20.96	2.22	4.25					1.31	3.71	4.25		
9900	2.78	23.71	2.05	3.99	4.00				1.16	3.36	4.00		
10200	2.55	26.72	1.91	3.73	3.77				1.04	3.05	3.77		
10500	2.33	30.00	1.77	3.49	3.55				0.93	2.77	3.55		
10800	2.14	33.58	1.65	3.28	3.36				0.84	2.51	3.36		
11100	1.98	37.47	1.55	3.09	3.18				0.76	2.27	3.18		
11400	1.82	41.69	1.45	2.91	3.01				0.68	2.04	3.01		
11700	1.69	46.26	1.36	2.74	2.86				0.62	1.85	2.85	2.86	
12000	1.56	51.18	1.28	2.59	2.72				0.56	1.67	2.68	2.72	
12300	1.45	56.51	1.21	2.45	2.59				0.51	1.52	2.52	2.59	
12600	1.35	62.22	1.14	2.32	2.47				0.47	1.38	2.37	2.47	
12900	1.26	68.36	1.08	2.20	2.35				0.43	1.26	2.23	2.35	
13200	1.17	74.96	1.02	2.09	2.25				0.40	1.15	2.10	2.25	
13500	1.10	81.97	0.97	1.99	2.15					1.05	1.96	2.15	
13800	1.03	89.49	0.92	1.89	2.06					0.96	1.84	2.06	
14100	0.96	97.61	0.87	1.80	1.97					0.89	1.72	1.97	
14400	0.91	106.08	0.83	1.71	1.89					0.82	1.62	1.89	
14700	0.85	115.29	0.79	1.63	1.81					0.75	1.51	1.81	
15000	0.80	125.00	0.76	1.56	1.74					0.70	1.42	1.74	
15300	0.75	135.28	0.72	1.49	1.67					0.64	1.33	1.67	
15600	0.71	146.27	0.69	1.42	1.61					0.60	1.24	1.60	
15900	0.67	157.74	0.66	1.36	1.55					0.55	1.16	1.53	
16200	0.64	170.08	0.63	1.30	1.49					0.52	1.08	1.46	
16500	0.60	183.03	0.61	1.25	1.43	1.44				0.48	1.01	1.39	
16800	0.57	196.49	0.58	1.19	1.38	1.39				0.45	0.94	1.33	
17100	0.54	211.11	0.56	1.15	1.32	1.34				0.42	0.88	1.27	
17400	0.51	226.12	0.54	1.10	1.27	1.29					0.82	1.22	
17700	0.49	242.30	0.52	1.06	1.23	1.25					0.77	1.16	
18000	0.46	259.18	0.50	1.02	1.18	1.21					0.72	1.11	

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS350

## DHS Load Tables

DHS35030			Load Capacity (kN/m)												
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging												
			Inward				Outward								
			0	1	2	3	0	1	2	3					
2100	374.70	0.04	<b>84.14</b>							<b>84.13</b>					
2400	251.02	0.06	<b>73.62</b>							<b>73.62</b>					
2700	176.30	0.10	<b>65.44</b>							<b>65.44</b>					
3000	128.52	0.16	<b>58.89</b>							<b>58.89</b>					
3300	96.56	0.23	<b>46.49</b>	<b>48.83</b>						<b>48.84</b>					
3600	74.38	0.32	<b>37.10</b>	<b>41.04</b>						<b>41.04</b>					
3900	58.50	0.44	<b>29.97</b>	<b>34.96</b>						<b>34.97</b>					
4200	46.84	0.60	24.47	<b>30.15</b>						<b>30.03</b>	<b>30.15</b>				
4500	38.08	0.79	20.16	<b>26.26</b>						24.95	<b>26.26</b>				
4800	31.38	1.02	16.75	23.08						20.80	23.08				
5100	26.16	1.30	14.01	20.45						17.38	20.45				
5400	22.04	1.63	11.81	18.24						14.52	18.24				
5700	18.74	2.03	10.06	16.37						12.10	16.37				
6000	16.07	2.49	8.66	14.77						10.05	14.77				
6300	13.88	3.03	7.52	13.40						8.34	13.40				
6600	12.07	3.65	6.59	12.21						6.97	12.21				
6900	10.56	4.35	5.82	11.17						5.87	11.17				
7200	9.30	5.16	5.17	10.26						4.99	10.26				
7500	8.23	6.08	4.63	9.45						4.26	9.46				
7800	7.31	7.11	4.16	8.74						3.67	8.66	8.74			
8100	6.53	8.27	3.76	8.11						3.18	7.83	8.11			
8400	5.86	9.56	3.42	7.54						2.77	7.08	7.54			
8700	5.27	11.01	3.12	6.99	7.03					2.42	6.41	7.03			
9000	4.76	12.61	2.85	6.45	6.57					2.13	5.81	6.57			
9300	4.31	14.37	2.62	5.96	6.15					1.89	5.27	6.15			
9600	3.92	16.32	2.42	5.52	5.77					1.67	4.77	5.77			
9900	3.58	18.46	2.24	5.12	5.43					1.49	4.32	5.43			
10200	3.27	20.80	2.07	4.76	5.11					1.33	3.91	5.11			
10500	3.00	23.35	1.93	4.44	4.82					1.20	3.54	4.82			
10800	2.76	26.13	1.80	4.14	4.56					1.08	3.19	4.56			
11100	2.54	29.17	1.68	3.87	4.32					0.98	2.88	4.32			
11400	2.34	32.45	1.57	3.63	4.09					0.88	2.60	4.08	4.09		
11700	2.17	35.99	1.48	3.40	3.89					0.80	2.34	3.81	3.89		
12000	2.01	39.84	1.39	3.20	3.69					0.73	2.12	3.55	3.69		
12300	1.87	43.97	1.31	3.01	3.52					0.67	1.93	3.32	3.52		
12600	1.74	48.41	1.23	2.83	3.35					0.61	1.76	3.10	3.35		
12900	1.62	53.22	1.17	2.67	3.20					0.56	1.60	2.90	3.20		
13200	1.51	58.32	1.10	2.52	3.05					0.52	1.46	2.71	3.05		
13500	1.41	63.83	1.05	2.39	2.92					0.48	1.34	2.54	2.92		
13800	1.32	69.70	0.99	2.26	2.79					0.44	1.23	2.37	2.79		
14100	1.24	75.93	0.94	2.14	2.67	2.68				0.41	1.13	2.22	2.68		
14400	1.16	82.62	0.90	2.03	2.54	2.57					1.04	2.08	2.57		
14700	1.09	89.74	0.86	1.93	2.42	2.46					0.96	1.94	2.46		
15000	1.03	97.28	0.82	1.83	2.31	2.36					0.89	1.81	2.36		
15300	0.97	105.26	0.78	1.75	2.20	2.27					0.83	1.69	2.26		
15600	0.91	113.79	0.74	1.66	2.10	2.19					0.77	1.58	2.14		
15900	0.86	122.83	0.71	1.59	2.01	2.10					0.71	1.48	2.04		
16200	0.82	132.35	0.68	1.51	1.92	2.03					0.66	1.38	1.94		
16500	0.77	142.30	0.65	1.44	1.83	1.95					0.62	1.28	1.84		
16800	0.73	153.01	0.63	1.38	1.76	1.88					0.58	1.19	1.75		
17100	0.69	164.27	0.60	1.32	1.68	1.82					0.54	1.11	1.66		
17400	0.66	176.02	0.58	1.26	1.61	1.76					0.50	1.04	1.58		
17700	0.63	188.50	0.56	1.21	1.55	1.70					0.47	0.97	1.50		
18000	0.60	201.68	0.53	1.16	1.49	1.64					0.44	0.91	1.43		

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Single Span DHS400

## DHS Load Tables

DHS40019				Load Capacity (kN/m)									
Span (mm)	Δ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	302.27	0.05	19.64						19.64				
2400	202.51	0.08	17.19						17.19				
2700	142.23	0.13	15.28						15.28				
3000	103.68	0.19	13.75						13.75				
3300	77.90	0.28	12.50						12.50				
3600	60.00	0.40	11.46						11.46				
3900	47.20	0.55	10.58						10.58				
4200	37.79	0.74	9.82						9.82				
4500	30.72	0.98	9.17						9.17				
4800	25.31	1.26	8.59						8.59				
5100	21.10	1.61	8.09						8.09				
5400	17.78	2.02	7.64						7.64				
5700	15.12	2.51	7.24						7.24				
6000	12.96	3.09	6.75	6.88					6.51	6.87			
6300	11.20	3.75	5.99	6.55					5.58	6.55			
6600	9.74	4.52	5.36	6.25					4.79	6.25			
6900	8.52	5.40	4.81	5.98					4.14	5.98			
7200	7.50	6.40	4.34	5.73					3.60	5.73			
7500	6.64	7.53	3.94	5.50					3.15	5.50			
7800	5.90	8.82	3.59	5.29					2.74	4.99	5.29		
8100	5.27	10.25	3.28	4.88	4.98				2.36	4.54	4.98		
8400	4.72	11.86	3.01	4.51	4.63				2.05	4.14	4.63		
8700	4.25	13.64	2.77	4.18	4.32				1.79	3.78	4.32		
9000	3.84	15.63	2.56	3.88	4.04				1.57	3.45	4.04		
9300	3.48	17.82	2.37	3.61	3.78				1.39	3.16	3.78		
9600	3.16	20.23	2.20	3.36	3.55				1.23	2.89	3.53	3.55	
9900	2.89	22.88	2.05	3.14	3.34				1.09	2.65	3.29	3.34	
10200	2.64	25.78	1.91	2.94	3.14				0.97	2.42	3.07	3.14	
10500	2.42	28.95	1.79	2.76	2.97				0.87	2.22	2.86	2.97	
10800	2.22	32.40	1.68	2.60	2.80				0.78	2.03	2.68	2.80	
11100	2.05	36.15	1.57	2.44	2.65				0.70	1.86	2.50	2.65	
11400	1.89	40.21	1.48	2.30	2.52				0.63	1.71	2.35	2.52	
11700	1.75	44.62	1.40	2.18	2.39				0.57	1.57	2.20	2.39	
12000	1.62	49.38	1.32	2.06	2.27				0.52	1.44	2.06	2.27	
12300	1.50	54.52	1.25	1.95	2.15	2.16			0.47	1.33	1.94	2.16	
12600	1.40	60.04	1.18	1.85	2.04	2.06	0.43		1.23	1.82	2.06	2.06	
12900	1.30	65.95	1.12	1.76	1.94	1.97			1.13	1.71	1.95	1.95	
13200	1.22	72.31	1.06	1.67	1.84	1.88			1.05	1.61	1.85	1.85	
13500	1.14	79.09	1.01	1.59	1.75	1.79			0.98	1.52	1.76	1.76	
13800	1.07	86.38	0.96	1.51	1.67	1.72			0.90	1.43	1.67	1.67	
14100	1.00	94.09	0.92	1.44	1.60	1.65			0.83	1.34	1.58	1.58	
14400	0.94	102.35	0.88	1.38	1.52	1.58			0.77	1.27	1.51	1.51	
14700	0.88	111.24	0.84	1.32	1.46	1.51			0.71	1.19	1.43	1.43	
15000	0.83	120.63	0.80	1.26	1.39	1.45			0.65	1.12	1.37	1.37	
15300	0.78	130.43	0.77	1.21	1.34	1.40			0.60	1.06	1.30	1.30	
15600	0.74	141.11	0.73	1.16	1.28	1.34			0.56	1.00	1.24	1.24	
15900	0.70	152.30	0.70	1.11	1.23	1.29			0.52	0.94	1.18	1.18	
16200	0.66	164.13	0.68	1.06	1.18	1.25			0.48	0.88	1.13	1.13	
16500	0.62	176.57	0.65	1.02	1.13	1.20			0.45	0.83	1.08	1.08	
16800	0.59	189.83	0.62	0.98	1.09	1.15			0.42	0.79	1.03	1.03	
17100	0.56	203.57	0.60	0.95	1.05	1.11				0.74	0.98	0.98	
17400	0.53	218.46	0.58	0.91	1.01	1.07				0.70	0.94	0.94	
17700	0.51	233.66	0.55	0.88	0.97	1.03				0.66	0.89	0.89	
18000	0.48	250.00	0.53	0.85	0.94	0.99				0.63	0.85	0.85	

DHS40024				Load Capacity (kN/m)									
Span (mm)	Δ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	396.10	0.04	38.32						38.32				
2400	265.36	0.06	33.53						33.53				
2700	186.37	0.10	29.80						29.80				
3000	135.86	0.15	26.82						26.82				
3300	102.08	0.22	24.38						24.38				
3600	78.62	0.31	22.35						22.35				
3900	61.84	0.42	20.63						20.63				
4200	49.51	0.57	19.16						19.16				
4500	40.26	0.75	17.88						17.88				
4800	33.17	0.96	16.37	16.76					16.76				
5100	27.66	1.23	14.03	15.78					15.51	15.78			
5400	23.30	1.55	12.09	14.90					13.27	14.90			
5700	19.81	1.92	10.39	13.93					11.32	13.93			
6000	16.98	2.36	8.97	12.58					9.55	12.58			
6300	14.67	2.86	7.81	11.41					7.92	11.41			
6600	12.76	3.45	6.86	10.39					6.61	10.39			
6900	11.17	4.12	6.07	9.51					5.56	9.51			
7200	9.83	4.88	5.41	8.73					4.71	8.73			
7500	8.70	5.75	4.84	8.05					4.02	8.04	8.05		
7800	7.73	6.73	4.36	7.44					3.46	7.31	7.44		
8100	6.90	7.82	3.95	6.90					2.99	6.67	6.90		
8400	6.19	9.05	3.59	6.42					2.60	6.09	6.42		
8700	5.57	10.41	3.28	5.98					2.27	5.57	5.98		
9000	5.03	11.92	3.01	5.55	5.59				1.99	5.10	5.59		
9300	4.56	13.59	2.76	5.16	5.23				1.76	4.68	5.24		
9600	4.15	15.44	2.55	4.80	4.91				1.56	4.30	4.91		
9900	3.78	17.46	2.36	4.48	4.62				1.38	3.94	4.62		
10200	3.46	19.67	2.19	4.19	4.35				1.23	3.61	4.35		
10500	3.17	22.09	2.04	3.93	4.11				1.10	3.30	4.11		
10800	2.91	24.73	1.90	3.69	3.88				0.99	3.01	3.88		
11100	2.68	27.59	1.78	3.47	3.67				0.89	2.72	3.66	3.68	
11400	2.48	30.69	1.67	3.27	3.48				0.81	2.45	3.44	3.48	
11700	2.29	34.06	1.56	3.08	3.31				0.73	2.21	3.23	3.31	
12000	2.12	37.68	1.47	2.91	3.14				0.67	2.00	3.03	3.14	
12300	1.97	41.60	1.39	2.76	2.99				0.61	1.81	2.85	2.99	
12600	1.83	45.80	1.31	2.61	2.85				0.55	1.65	2.68	2.85	
12900	1.71	50.32	1.24	2.48	2.72				0.51	1.50	2.52	2.72	
13200	1.60	55.17	1.17	2.35	2.60				0.47	1.37	2.38	2.60	
13500	1.49	60.36	1.11	2.24	2.48				0.43	1.26	2.24	2.48	
13800	1.40	65.90	1.05	2.13	2.38				1.15	2.12	2.38	2.38	
14100	1.31	71.81	1.00	2.03	2.28				1.06	2.00	2.28	2.28	
14400	1.23	78.11	0.95	1.94	2.18				0.98	1.88	2.18	2.18	
14700	1.16	84.85	0.91	1.85	2.08	2.10			0.90	1.78	2.10	2.10	
15000	1.09	92.00	0.86	1.77	1.99	2.01			0.83	1.67	2.00	2.00	
15300	1.02	99.61	0.83	1.69	1.91	1.93			0.77	1.58	1.90	1.90	
15600	0.97	107.66	0.79	1.62	1.83	1.86			0.71	1.48	1.82	1.82	
15900	0.91	116.10	0.75	1.55	1.75	1.79			0.66	1.39	1.73	1.73	
16200	0.86	125.14	0.72	1.49	1.68	1.73			0.61	1.30	1.65	1.65	
16500	0.82	134.64	0.69	1.43	1.61	1.66			0.57	1.21	1.58	1.58	
16800	0.77	144.70	0.66	1.37	1.55	1.60			0.53	1.13	1.51	1.51	
17100	0.73	155.31	0.64	1.32	1.49	1.55			0.50	1.05	1.44	1.44	
17400	0.70	166.67	0.61	1.26	1.43	1.50			0.47	0.98	1.38	1.38	
17700	0.66	178.25	0.59	1.22	1.38	1.45			0.44	0.92	1.32	1.32	
18000	0.63	190.78	0.57	1.17	1.33	1.40			0.41	0.86	1.26	1.26	

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables

## Single Span DHS400

## DHS Load Tables

<b>DHS40030</b>			Load Capacity (kN/m)												
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging												
			Inward				Outward								
			0	1	2	3	0	1	2	3					
2100	513.34	0.03	<b>72.48</b>							<b>72.48</b>					
2400	343.87	0.05	<b>63.42</b>							<b>63.42</b>					
2700	241.52	0.07	<b>56.37</b>							<b>56.37</b>					
3000	176.08	0.11	<b>50.74</b>							<b>50.74</b>					
3300	132.28	0.17	<b>46.12</b>							<b>46.12</b>					
3600	101.89	0.24	<b>42.28</b>							<b>42.28</b>					
3900	80.14	0.32	<b>35.53</b>	<b>39.03</b>						<b>39.03</b>					
4200	64.17	0.44	<b>28.90</b>	<b>34.85</b>						<b>34.85</b>					
4500	52.17	0.58	23.70	<b>30.36</b>						<b>29.93</b>	<b>30.36</b>				
4800	42.99	0.74	19.59	<b>26.68</b>						<b>24.92</b>	<b>26.68</b>				
5100	35.84	0.95	16.31	<b>23.63</b>						20.78	<b>23.64</b>				
5400	30.19	1.19	13.70	21.08						17.32	21.08				
5700	25.67	1.48	11.65	18.92						14.40	18.92				
6000	22.01	1.82	10.01	17.08						11.92	17.08				
6300	19.01	2.21	8.69	15.49						9.87	15.49				
6600	16.54	2.66	7.60	14.11						8.24	14.11				
6900	14.47	3.18	6.71	12.91						6.94	12.91				
7200	12.74	3.77	5.96	11.86						5.89	11.86				
7500	11.27	4.44	5.32	10.93						5.03	10.93				
7800	10.02	5.19	4.78	10.10						4.33	10.10				
8100	8.95	6.04	4.32	9.37						3.74	9.37				
8400	8.02	6.98	3.92	8.71						3.26	8.49	8.71			
8700	7.22	8.03	3.57	8.12						2.85	7.68	8.12			
9000	6.52	9.20	3.27	7.59						2.50	6.95	7.59			
9300	5.91	10.49	3.00	7.10	7.11					2.21	6.29	7.11			
9600	5.37	11.91	2.77	6.57	6.67					1.96	5.70	6.67			
9900	4.90	13.47	2.56	6.09	6.27					1.75	5.15	6.27			
10200	4.48	15.18	2.37	5.66	5.91					1.56	4.66	5.91			
10500	4.11	17.04	2.20	5.27	5.58					1.40	4.20	5.58			
10800	3.77	19.08	2.05	4.91	5.27					1.26	3.79	5.27			
11100	3.48	21.29	1.92	4.59	4.99					1.14	3.41	4.99			
11400	3.21	23.68	1.80	4.29	4.73					1.03	3.07	4.73			
11700	2.97	26.28	1.69	4.02	4.49					0.93	2.77	4.49			
12000	2.75	29.08	1.58	3.77	4.27					0.85	2.51	4.26	4.27		
12300	2.56	32.09	1.49	3.55	4.06					0.78	2.28	3.98	4.06		
12600	2.38	35.35	1.41	3.34	3.87					0.71	2.07	3.72	3.87		
12900	2.22	38.83	1.33	3.14	3.69					0.65	1.89	3.47	3.69		
13200	2.07	42.57	1.26	2.97	3.53					0.60	1.73	3.25	3.53		
13500	1.93	46.58	1.19	2.80	3.37					0.55	1.58	3.04	3.37		
13800	1.81	50.86	1.13	2.65	3.23					0.51	1.45	2.84	3.23		
14100	1.70	55.42	1.07	2.51	3.09					0.47	1.34	2.65	3.09		
14400	1.59	60.30	1.02	2.38	2.96					0.44	1.23	2.48	2.96		
14700	1.50	65.46	0.97	2.26	2.85					0.41	1.14	2.31	2.85		
15000	1.41	70.97	0.93	2.14	2.73					0.05	2.16	2.73			
15300	1.33	76.87	0.89	2.04	2.62	2.63				0.97	2.02	2.63			
15600	1.25	83.07	0.85	1.94	2.50	2.53				0.90	1.88	2.53			
15900	1.18	89.60	0.81	1.85	2.39	2.43				0.84	1.75	2.43			
16200	1.12	96.60	0.77	1.76	2.28	2.34				0.78	1.63	2.32			
16500	1.06	103.97	0.74	1.68	2.18	2.26				0.73	1.52	2.21			
16800	1.00	111.67	0.71	1.60	2.09	2.18				0.68	1.41	2.10			
17100	0.95	119.87	0.68	1.53	2.00	2.10				0.63	1.32	1.99			
17400	0.90	128.60	0.66	1.46	1.91	2.03				0.59	1.23	1.89			
17700	0.86	137.69	0.63	1.40	1.84	1.96				0.55	1.15	1.80			
18000	0.82	147.24	0.61	1.34	1.76	1.90				0.52	1.08	1.71			

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS100

## DHS Load Tables

<b>DHS10010</b>			Load Capacity (kN/m)							
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1,2,3	0	1	2	3		
2100	9.20	1.52	4.75		4.75					
2400	6.16	2.60	3.82		3.82					
2700	4.33	4.16	3.04		3.04					
3000	3.16	6.34	2.46		2.46					
3300	2.37	9.28	2.03		2.03					
3600	1.83	13.14	1.71		1.71					
3900	1.44	18.11	1.46		1.42	1.46				
4200	1.15	24.35	1.26		1.17	1.26				
4500	0.94	32.09	1.09		0.98	1.09				
4800	0.77	41.56	0.95	0.96	0.81	0.96				
5100	0.64	52.96	0.83	0.85	0.68	0.85				
5400	0.54	66.54	0.73	0.76	0.57	0.76				
5700	0.46	82.61	0.65	0.68	0.48	0.67	0.68			
6000	0.39	101.52	0.58	0.62	0.40	0.58	0.62			
6300	0.34	123.17	0.52	0.56		0.51	0.56			
6600	0.30	148.65	0.46	0.51		0.45	0.51			
6900	0.26	177.61	0.42	0.47		0.40	0.47			
7200	0.23	210.53		0.43			0.43			

<b>DHS10012</b>			Load Capacity (kN/m)							
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1,2,3	0	1	2	3		
2100	11.18	1.25	6.07		6.07					
2400	7.49	2.14	4.65		4.65					
2700	5.26	3.42	3.67		3.67					
3000	3.84	5.22	2.98		2.98					
3300	2.88	7.63	2.46		2.46					
3600	2.22	10.81	2.05	2.07	2.04	2.07				
3900	1.75	14.89	1.73	1.76	1.69	1.76				
4200	1.40	20.03	1.48	1.52	1.40	1.52				
4500	1.14	26.41	1.27	1.32	1.18	1.32				
4800	0.94	34.19	1.11	1.16	0.99	1.16				
5100	0.78	43.53	0.97	1.03	0.84	1.03				
5400	0.66	54.71	0.85	0.92	0.71	0.91	0.92			
5700	0.56	67.98	0.76	0.82	0.61	0.80	0.82			
6000	0.48	83.51	0.67	0.74	0.51	0.70	0.74			
6300	0.41	101.45	0.60	0.68	0.43	0.62	0.68			
6600	0.36	122.22	0.54	0.62		0.55	0.62			
6900	0.32	146.03	0.49	0.56		0.49	0.56			
7200	0.28	173.29	0.44	0.52		0.43	0.52			
7500	0.25	204.08	0.40	0.48			0.47	0.48		
7800	0.22	238.53		0.44			0.43	0.44		
8100	0.20	276.92		0.41				0.41		

<b>DHS10015</b>			Load Capacity (kN/m)							
Span (mm)	L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1	2,3	0	1	2	3	
2100	14.14	0.99	7.54	7.61		7.61				
2400	9.47	1.69	5.68	5.83		5.83				
2700	6.65	2.71	4.42	4.60		4.60				
3000	4.85	4.12	3.54	3.73		3.73				
3300	3.64	6.04	2.88	3.08		3.00	3.08			
3600	2.81	8.55	2.40	2.59		2.45	2.59			
3900	2.21	11.78	2.02	2.21		2.03	2.21			
4200	1.77	15.84	1.72	1.90		1.69	1.90			
4500	1.44	20.88	1.48	1.66		1.42	1.66			
4800	1.18	27.03	1.29	1.46		1.21	1.44	1.46		
5100	0.99	34.45	1.13	1.29		1.03	1.25	1.29		
5400	0.83	43.27	0.99	1.15		0.88	1.09	1.15		
5700	0.71	53.75	0.88	1.03		0.76	0.96	1.03		
6000	0.61	66.01	0.79	0.93		0.65	0.85	0.93		
6300	0.52	80.15	0.70	0.85		0.56	0.75	0.85		
6600	0.46	96.49	0.63	0.77		0.49	0.67	0.76	0.77	
6900	0.40	115.29	0.57	0.71		0.42	0.59	0.69	0.71	
7200	0.35	136.75	0.52	0.64	0.65		0.53	0.62	0.65	
7500	0.31	161.29	0.47	0.59	0.60		0.48	0.57	0.60	
7800	0.28	188.41	0.43	0.54	0.55		0.43	0.51	0.55	
8100	0.25	219.51		0.50	0.51			0.47	0.51	
8400	0.22	253.39		0.46	0.48			0.43	0.47	
8700	0.20	291.46		0.42	0.44				0.43	
9000	0.18	333.33			0.41				0.40	

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- 2.55** Numbers in bold italics require grade 8.8 bolts
- 3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS100

## DHS Load Tables

DHS10019			Load Capacity (kN/m)										
Span (mm)	Δ L/150	k	No. of rows of bridging										
			Inward				Outward						
			0	1	2	3	0	1	2	3			
2100	17.61	0.80	9.25	9.80					9.80				
2400	11.80	1.36	6.95	7.51					7.51				
2700	8.29	2.17	5.40	5.93					5.88	5.93			
3000	6.04	3.31	4.31	4.80					4.65	4.80			
3300	4.54	4.85	3.51	3.97					3.75	3.97			
3600	3.50	6.87	2.91	3.34					3.07	3.34			
3900	2.75	9.46	2.45	2.84					2.54	2.84			
4200	2.20	12.72	2.09	2.45					2.13	2.43	2.45		
4500	1.79	16.76	1.80	2.14					1.80	2.09	2.14		
4800	1.48	21.69	1.57	1.88					1.53	1.80	1.88		
5100	1.23	27.66	1.37	1.66					1.31	1.57	1.66		
5400	1.04	34.75	1.21	1.48					1.13	1.37	1.48		
5700	0.88	43.13	1.07	1.32	1.33				0.98	1.21	1.33		
6000	0.76	52.98	0.96	1.19	1.20				0.85	1.07	1.18	1.20	
6300	0.65	64.42	0.86	1.07	1.09				0.74	0.95	1.06	1.09	
6600	0.57	77.60	0.77	0.97	0.99				0.65	0.85	0.96	0.99	
6900	0.50	92.74	0.70	0.88	0.91				0.57	0.76	0.86	0.91	
7200	0.44	109.84	0.64	0.80	0.83				0.50	0.68	0.78	0.83	
7500	0.39	129.20	0.58	0.73	0.77				0.44	0.61	0.71	0.76	
7800	0.34	151.16	0.53	0.67	0.71					0.55	0.65	0.69	
8100	0.31	175.90	0.48	0.62	0.65	0.66				0.50	0.59	0.64	
8400	0.28	203.64	0.44	0.57	0.60	0.61				0.45	0.54	0.59	
8700	0.25	233.87	0.41	0.52	0.55	0.57				0.41	0.50	0.54	
9000	0.22	267.86		0.49	0.51	0.53					0.46	0.50	

DHS10024			Load Capacity (kN/m)												
Span (mm)	Δ L/150	k	No. of rows of bridging												
			Inward				Outward								
			0	1	2	3	0	1	2	3					
2100	21.94	0.64	11.43	<b>12.21</b>									<b>12.21</b>		
2400	14.70	1.09	8.57	9.35									9.35		
2700	10.32	1.74	6.65	7.39								7.35	7.39		
3000	7.52	2.66	5.30	5.98								5.83	5.98		
3300	5.65	3.89	4.32	4.95								4.70	4.95		
3600	4.35	5.51	3.58	4.16								3.86	4.16		
3900	3.43	7.59	3.01	3.54								3.21	3.54		
4200	2.74	10.21	2.57	3.05								2.69	3.05		
4500	2.23	13.46	2.22	2.66								2.29	2.62	2.66	
4800	1.84	17.42	1.93	2.34								1.96	2.27	2.34	
5100	1.53	22.19	1.69	2.07								1.69	1.98	2.07	
5400	1.29	27.91	1.49	1.84	1.85							1.46	1.74	1.85	
5700	1.10	34.64	1.33	1.64	1.66							1.28	1.53	1.66	
6000	0.94	42.51	1.19	1.47	1.50							1.12	1.36	1.49	1.50
6300	0.81	51.66	1.07	1.33	1.36							0.99	1.21	1.34	1.36
6600	0.71	62.23	0.96	1.20	1.24							0.87	1.08	1.20	1.24
6900	0.62	74.43	0.87	1.09	1.13							0.78	0.97	1.09	1.13
7200	0.54	88.24	0.79	1.00	1.04							0.69	0.88	0.99	1.04
7500	0.48	103.73	0.73	0.91	0.96							0.62	0.79	0.90	0.95
7800	0.43	121.50	0.66	0.84	0.88							0.56	0.72	0.82	0.87
8100	0.38	141.36	0.61	0.77	0.81	0.82						0.50	0.65	0.75	0.80
8400	0.34	163.27	0.56	0.71	0.75	0.76						0.45	0.59	0.69	0.74
8700	0.31	187.70	0.52	0.66	0.70	0.71						0.41	0.54	0.63	0.68
9000	0.28	215.05	0.48	0.61	0.65	0.67							0.49	0.58	0.63

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS150

## DHS Load Tables

DHS15012			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	34.31	0.41	8.63			8.63		
2400	22.98	0.70	7.10			7.10		
2700	16.14	1.12	5.93			5.93		
3000	11.77	1.70	5.02			5.02		
3300	8.84	2.49	4.30			4.30		
3600	6.81	3.52	3.71			3.71		
3900	5.36	4.85	3.16			3.16		
4200	4.29	6.53	2.72			2.72		
4500	3.49	8.60	2.37			2.37		
4800	2.87	11.14	2.08	2.09	2.09			
5100	2.40	14.20	1.82	1.85	1.85			
5400	2.02	17.84	1.61	1.65	1.61	1.65		
5700	1.72	22.14	1.42	1.48	1.40	1.48		
6000	1.47	27.19	1.27	1.34	1.22	1.34		
6300	1.27	33.04	1.14	1.21	1.07	1.21		
6600	1.11	39.82	1.03	1.10	0.93	1.10		
6900	0.97	47.57	0.93	1.01	0.81	1.01		
7200	0.85	56.40	0.84	0.93	0.71	0.93		
7500	0.75	66.40	0.77	0.85	0.62	0.85		
7800	0.67	77.61	0.70	0.79	0.54	0.79		
8100	0.60	90.30	0.64	0.73	0.48	0.71	0.73	
8400	0.54	104.48	0.59	0.68	0.42	0.65	0.68	
8700	0.48	120.33	0.54	0.64		0.59	0.64	
9000	0.44	137.61	0.50	0.59		0.54	0.59	

DHS15019			Load Capacity (kN/m)							
Span (mm)	Δ L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1	2	3	0	1	2	3
2100	55.86	0.25	18.65				18.65			
2400	37.42	0.43	14.40	14.42			14.42			
2700	26.28	0.68	11.14	11.40			11.40			
3000	19.16	1.04	8.89	9.23			9.23			
3300	14.39	1.53	7.23	7.63			7.63			
3600	11.09	2.16	5.96	6.41			6.41			
3900	8.72	2.98	4.99	5.46			5.46			
4200	6.98	4.01	4.22	4.71			4.71			
4500	5.68	5.28	3.62	4.10			4.07	4.10		
4800	4.68	6.84	3.13	3.61			3.51	3.61		
5100	3.90	8.72	2.73	3.19			3.05	3.19		
5400	3.29	10.96	2.40	2.85			2.66	2.85		
5700	2.79	13.61	2.12	2.56			2.31	2.56		
6000	2.40	16.70	1.89	2.31			2.02	2.31		
6300	2.07	20.30	1.69	2.09			1.77	2.09		
6600	1.80	24.46	1.52	1.91			1.56	1.91		
6900	1.58	29.21	1.37	1.75			1.37	1.73	1.75	
7200	1.39	34.63	1.24	1.60			1.21	1.57	1.60	
7500	1.23	40.78	1.13	1.48			1.07	1.43	1.48	
7800	1.09	47.71	1.03	1.37			0.94	1.30	1.37	
8100	0.97	55.50	0.94	1.27			0.83	1.19	1.27	
8400	0.87	64.15	0.86	1.18			0.74	1.08	1.18	
8700	0.79	73.79	0.79	1.10			0.65	0.99	1.10	
9000	0.71	84.51	0.73	1.03			0.58	0.90	1.03	

DHS15015			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2	3
2100	43.94	0.32	13.02			13.02		
2400	29.44	0.54	10.42			10.42		
2700	20.67	0.87	8.35			8.35		
3000	15.07	1.33	6.76			6.76		
3300	11.32	1.94	5.59			5.59		
3600	8.72	2.75	4.65	4.70		4.70		
3900	6.86	3.79	3.91	4.00		4.00		
4200	5.49	5.10	3.33	3.45		3.45		
4500	4.47	6.72	2.86	3.01		3.01		
4800	3.68	8.70	2.49	2.64		2.64		
5100	3.07	11.08	2.18	2.34		2.31	2.34	
5400	2.58	13.93	1.92	2.09		2.01	2.09	
5700	2.20	17.30	1.71	1.87		1.75	1.87	
6000	1.88	21.23	1.52	1.69		1.53	1.69	
6300	1.63	25.81	1.37	1.53		1.35	1.53	
6600	1.42	31.10	1.23	1.40		1.19	1.40	
6900	1.24	37.13	1.11	1.28		1.05	1.28	
7200	1.09	44.04	1.01	1.17		0.93	1.17	
7500	0.97	51.81	0.92	1.08		0.82	1.08	
7800	0.86	60.68	0.84	1.00		0.72	0.98	1.00
8100	0.77	70.50	0.77	0.93		0.64	0.89	0.93
8400	0.69	81.51	0.71	0.86		0.56	0.81	0.86
8700	0.62	93.85	0.65	0.80		0.50	0.74	0.80
9000	0.56	107.53	0.60	0.75		0.44	0.68	0.75

DHS15024			Load Capacity (kN/m)							
Span (mm)	Δ L/150	k	No. of rows of bridging							
			Inward				Outward			
			0	1	2	3	0	1	2	3
2100	71.22	0.20	24.76	25.28			25.28			
2400	47.71	0.34	18.37	19.76			19.76			
2700	33.51	0.54	14.09	15.64			15.64			
3000	24.43	0.82	11.10	12.67			12.67			
3300	18.35	1.20	8.94	10.47			10.47			
3600	14.14	1.70	7.33	8.80			8.80			
3900	11.12	2.34	6.11	7.50			7.35	7.50		
4200	8.90	3.15	5.16	6.46			6.20	6.46		
4500	7.24	4.14	4.41	5.63			5.28	5.63		
4800	5.96	5.37	3.81	4.95			4.53	4.95		
5100	4.97	6.84	3.31	4.38			3.91	4.38		
5400	4.19	8.59	2.91	3.91			3.40	3.91		
5700	3.56	10.67	2.57	3.51			2.97	3.51		
6000	3.05	13.10	2.28	3.17			2.60	3.12	3.17	
6300	2.64	15.92	2.04	2.87			2.29	2.79	2.87	
6600	2.29	19.18	1.83	2.60		2.62	2.02	2.51	2.62	
6900	2.01	22.91	1.65	2.37		2.40	1.79	2.26	2.40	
7200	1.77	27.16	1.50	2.16		2.20	1.59	2.04	2.20	
7500	1.56	31.99	1.36	1.98		2.03	1.41	1.85	2.03	
7800	1.39	37.41	1.24	1.82		1.87	1.25	1.68	1.87	
8100	1.24	43.51	1.14	1.67		1.74	1.12	1.53	1.73	1.74
8400	1.11	50.31	1.04	1.55		1.62	1.00	1.40	1.59	1.62
8700	1.00	57.88	0.96	1.43		1.51	0.89	1.28	1.47	1.51
9000	0.91	66.30	0.88	1.33		1.41	0.80	1.17	1.36	1.41

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS200

## DHS Load Tables

DHS20012			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	71.65	0.20	7.45		7.45			
2400	48.00	0.33	6.36		6.36			
2700	33.71	0.53	5.51		5.51			
3000	24.58	0.81	4.82		4.82			
3300	18.47	1.19	4.26		4.26			
3600	14.22	1.69	3.79		3.79			
3900	11.19	2.32	3.39		3.39			
4200	8.96	3.13	3.06		3.06			
4500	7.28	4.12	2.76		2.76			
4800	6.00	5.33	2.51		2.51			
5100	5.00	6.80	2.29		2.29			
5400	4.21	8.54	2.10		2.10			
5700	3.58	10.61	1.93		1.93			
6000	3.07	13.02	1.77		1.77			
6300	2.65	15.83	1.62	1.64	1.64			
6600	2.31	19.06	1.46	1.52	1.48	1.52		
6900	2.02	22.77	1.32	1.41	1.32	1.41		
7200	1.78	27.00	1.20	1.31	1.18	1.31		
7500	1.57	31.79	1.10	1.22	1.05	1.22		
7800	1.40	37.20	1.00	1.14	0.94	1.14		
8100	1.25	43.23	0.92	1.07	0.84	1.07		
8400	1.12	50.00	0.85	1.01	0.76	0.99	1.01	
8700	1.01	57.54	0.78	0.95	0.68	0.91	0.95	
9000	0.91	65.93	0.72	0.89	0.61	0.84	0.89	

DHS20019			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	122.01	0.11	<b>20.01</b>		<b>20.01</b>			
2400	81.73	0.20	<b>17.51</b>		<b>17.51</b>			
2700	57.40	0.31	<b>15.57</b>		<b>15.57</b>			
3000	41.85	0.48	<b>13.19</b>		<b>13.19</b>			
3300	31.44	0.70	<b>11.29</b>		<b>11.29</b>			
3600	24.22	0.99	<b>9.44</b>	<b>9.76</b>	<b>9.76</b>			
3900	19.05	1.37	<b>7.87</b>	<b>8.32</b>	<b>8.32</b>			
4200	15.25	1.84	<b>6.65</b>	<b>7.18</b>	<b>7.18</b>			
4500	12.40	2.42	<b>5.68</b>	<b>6.25</b>	<b>6.25</b>			
4800	10.22	3.13	4.90	<b>5.49</b>	<b>5.49</b>			
5100	8.52	3.99	4.26	<b>4.87</b>	<b>4.87</b>			
5400	7.18	5.02	3.74	4.34	4.34			
5700	6.10	6.23	3.30	3.90	3.90			
6000	5.23	7.65	2.93	3.52	3.45	3.52		
6300	4.52	9.29	2.62	3.19	3.06	3.19		
6600	3.93	11.20	2.35	2.91	2.71	2.91		
6900	3.44	13.38	2.12	2.66	2.42	2.66		
7200	3.03	15.86	1.91	2.44	2.15	2.44		
7500	2.68	18.67	1.74	2.25	1.92	2.25		
7800	2.38	21.84	1.58	2.08	1.72	2.08		
8100	2.13	25.40	1.44	1.93	1.54	1.93		
8400	1.91	29.38	1.32	1.79	1.38	1.79		
8700	1.72	33.80	1.21	1.67	1.23	1.67		
9000	1.55	38.71	1.11	1.56	1.10	1.55		

DHS20015			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	94.09	0.15	<b>13.13</b>		<b>13.13</b>			
2400	63.04	0.25	<b>11.03</b>		<b>11.03</b>			
2700	44.27	0.41	<b>9.39</b>		<b>9.39</b>			
3000	32.28	0.62	<b>8.09</b>		<b>8.09</b>			
3300	24.25	0.91	7.04		7.04			
3600	18.68	1.28	6.18		6.18			
3900	14.69	1.77	5.45		5.46			
4200	11.76	2.38	4.85		4.85			
4500	9.56	3.14	4.34		4.34			
4800	7.88	4.06	3.84	3.90	3.90			
5100	6.57	5.18	3.35	3.52	3.52			
5400	5.53	6.51	2.95	3.15	3.15			
5700	4.71	8.08	2.61	2.83	2.83			
6000	4.03	9.92	2.33	2.55	2.55			
6300	3.49	12.05	2.09	2.32	2.28	2.32		
6600	3.03	14.52	1.88	2.11	2.02	2.11		
6900	2.65	17.34	1.70	1.93	1.80	1.93		
7200	2.34	20.56	1.54	1.77	1.60	1.77		
7500	2.07	24.20	1.40	1.63	1.43	1.63		
7800	1.84	28.32	1.28	1.51	1.28	1.51		
8100	1.64	32.93	1.17	1.40	1.14	1.40		
8400	1.47	38.10	1.08	1.30	1.02	1.30		
8700	1.32	43.84	0.99	1.21	0.91	1.21		
9000	1.20	50.21	0.91	1.14	0.82	1.14		

DHS20024			Load Capacity (kN/m)					
Span (mm)	Δ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	155.37	0.09	<b>25.28</b>		<b>25.28</b>			
2400	104.08	0.15	<b>22.12</b>		<b>22.12</b>			
2700	73.10	0.25	<b>19.66</b>		<b>19.66</b>			
3000	53.29	0.38	<b>17.69</b>		<b>17.70</b>			
3300	40.04	0.55	<b>14.53</b>	<b>15.83</b>	<b>15.83</b>			
3600	30.84	0.78	<b>11.83</b>	<b>13.30</b>	<b>13.30</b>			
3900	24.26	1.07	<b>9.79</b>	<b>11.33</b>	<b>11.33</b>			
4200	19.42	1.44	<b>8.20</b>	<b>9.77</b>	<b>9.77</b>			
4500	15.79	1.90	<b>6.95</b>	<b>8.51</b>	<b>8.51</b>			
4800	13.01	2.46	<b>5.95</b>	<b>7.48</b>	<b>7.48</b>			
5100	10.85	3.13	<b>5.15</b>	<b>6.63</b>	<b>6.63</b>			
5400	9.14	3.94	<b>4.48</b>	<b>5.91</b>	<b>5.84</b>	<b>5.91</b>		
5700	7.77	4.89	3.93	<b>5.31</b>	<b>5.11</b>	<b>5.30</b>		
6000	6.66	6.01	3.47	<b>4.79</b>	<b>4.50</b>	<b>4.79</b>		
6300	5.75	7.30	3.08	<b>4.34</b>	<b>3.97</b>	<b>4.34</b>		
6600	5.01	8.79	2.75	<b>3.96</b>	3.52	<b>3.96</b>		
6900	4.38	10.50	2.47	<b>3.62</b>	3.12	<b>3.62</b>		
7200	3.86	12.45	2.22	3.32	2.78	3.32		
7500	3.41	14.66	2.01	3.06	2.48	3.06		
7800	3.03	17.15	1.83	2.83	2.21	2.83		
8100	2.71	19.95	1.66	2.63	1.98	2.63		
8400	2.43	23.06	1.52	2.44	1.77	2.41	2.44	
8700	2.19	26.54	1.39	2.28	1.58	2.21	2.28	
9000	1.97	30.40	1.28	2.13	1.41	2.03	2.13	

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS250

## DHS Load Tables

DHS25012			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	131.39	0.11	6.69		6.69	
2400	88.02	0.18	5.79		5.79	
2700	61.82	0.29	5.09		5.09	
3000	45.07	0.44	4.52		4.52	
3300	33.86	0.65	4.06		4.06	
3600	26.08	0.92	3.67		3.67	
3900	20.51	1.27	3.33		3.33	
4200	16.42	1.70	3.04		3.04	
4500	13.35	2.25	2.79		2.79	
4800	11.00	2.91	2.57		2.57	
5100	9.17	3.71	2.38		2.38	
5400	7.73	4.66	2.21		2.21	
5700	6.57	5.78	2.05		2.05	
6000	5.63	7.10	1.91		1.91	
6300	4.87	8.63	1.79		1.79	
6600	4.23	10.40	1.68		1.68	
6900	3.70	12.42	1.57		1.57	
7200	3.26	14.72	1.48		1.48	
7500	2.88	17.34	1.39		1.39	
7800	2.56	20.28	1.31		1.31	
8100	2.29	23.58	1.21	1.24	1.24	
8400	2.05	27.28	1.11	1.17	1.12	1.17
8700	1.85	31.39	1.03	1.11	1.01	1.11
9000	1.67	35.95	0.95	1.05	0.92	1.05

DHS25019			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	224.95	0.06	<b>20.01</b>		<b>20.01</b>	
2400	150.69	0.11	<b>17.51</b>		<b>17.51</b>	
2700	105.84	0.17	<b>15.57</b>		<b>15.57</b>	
3000	77.16	0.26	<b>14.01</b>		<b>14.01</b>	
3300	57.97	0.38	12.65		12.65	
3600	44.65	0.54	11.17		11.17	
3900	35.12	0.74	9.93		9.93	
4200	28.12	1.00	8.88		8.88	
4500	22.86	1.31	7.98		7.98	
4800	18.84	1.70	7.07	7.21	7.21	
5100	15.70	2.17	6.12	6.54	6.54	
5400	13.23	2.72	5.34	5.95	5.95	
5700	11.25	3.38	4.70	5.44	5.44	
6000	9.65	4.15	4.16	4.97	4.97	
6300	8.33	5.04	3.70	4.51	4.51	
6600	7.25	6.07	3.30	4.11	4.11	
6900	6.34	7.25	2.97	3.76	3.73	3.76
7200	5.58	8.60	2.68	3.45	3.34	3.45
7500	4.94	10.13	2.42	3.18	3.00	3.18
7800	4.39	11.85	2.20	2.94	2.70	2.94
8100	3.92	13.78	2.00	2.73	2.44	2.73
8400	3.52	15.93	1.83	2.54	2.20	2.54
8700	3.16	18.33	1.68	2.37	1.99	2.37
9000	2.86	20.99	1.54	2.21	1.80	2.21

DHS25015			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	171.83	0.08	12.25		12.25	
2400	115.11	0.14	10.51		10.51	
2700	80.85	0.22	<b>9.14</b>		<b>9.14</b>	
3000	58.94	0.34	8.03		8.03	
3300	44.28	0.50	7.13		7.13	
3600	34.11	0.70	6.37		6.37	
3900	26.83	0.97	5.72		5.72	
4200	21.48	1.30	5.17		5.17	
4500	17.46	1.72	4.70		4.70	
4800	14.39	2.22	4.28		4.28	
5100	12.00	2.83	3.92		3.92	
5400	10.11	3.56	3.60		3.60	
5700	8.59	4.42	3.31		3.31	
6000	7.37	5.43	3.06		3.06	
6300	6.36	6.60	2.81	2.84	2.84	
6600	5.54	7.95	2.53	2.63	2.63	
6900	4.84	9.50	2.29	2.45	2.45	
7200	4.26	11.26	2.08	2.29	2.29	
7500	3.77	13.26	1.90	2.14	2.10	2.14
7800	3.35	15.51	1.74	2.00	1.91	2.00
8100	2.99	18.04	1.59	1.88	1.73	1.88
8400	2.69	20.86	1.47	1.76	1.57	1.76
8700	2.42	24.00	1.35	1.66	1.43	1.66
9000	2.18	27.49	1.25	1.57	1.30	1.57

DHS25024			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	289.14	0.05	<b>25.28</b>		<b>25.28</b>	
2400	193.70	0.08	<b>22.12</b>		<b>22.12</b>	
2700	136.05	0.13	<b>19.66</b>		<b>19.66</b>	
3000	99.18	0.20	<b>17.69</b>		<b>17.70</b>	
3300	74.52	0.30	<b>16.09</b>		<b>16.09</b>	
3600	57.39	0.42	<b>14.75</b>		<b>14.75</b>	
3900	45.14	0.58	<b>13.61</b>		<b>13.61</b>	
4200	36.15	0.77	<b>12.33</b>	12.64	12.69	
4500	29.39	1.02	<b>10.39</b>	<b>11.80</b>	<b>11.80</b>	
4800	24.21	1.32	8.84	<b>10.68</b>	<b>10.68</b>	
5100	20.19	1.68	<b>7.59</b>	<b>9.46</b>	<b>9.46</b>	
5400	17.01	2.12	<b>6.57</b>	8.44	8.44	
5700	14.46	2.63	<b>5.72</b>	7.58	7.58	
6000	12.40	3.23	<b>5.02</b>	6.84	6.84	
6300	10.71	3.92	<b>4.42</b>	<b>6.20</b>	<b>6.19</b>	<b>6.20</b>
6600	9.31	4.72	<b>3.92</b>	<b>5.65</b>	<b>5.52</b>	<b>5.65</b>
6900	8.15	5.64	3.49	<b>5.17</b>	<b>4.94</b>	<b>5.17</b>
7200	7.17	6.69	3.13	<b>4.75</b>	<b>4.43</b>	<b>4.75</b>
7500	6.35	7.88	2.81	<b>4.38</b>	<b>3.98</b>	<b>4.38</b>
7800	5.64	9.21	2.53	<b>4.05</b>	<b>3.57</b>	<b>4.05</b>
8100	5.04	10.72	2.30	<b>3.75</b>	<b>3.21</b>	<b>3.75</b>
8400	4.52	12.39	2.09	<b>3.49</b>	<b>2.89</b>	<b>3.49</b>
8700	4.07	14.26	1.91	<b>3.25</b>	<b>2.60</b>	<b>3.25</b>
9000	3.67	16.34	1.75	<b>3.04</b>	2.34	<b>3.04</b>

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS300

## DHS Load Tables

DHS30015			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	282.87	0.05	10.73		10.73	
2400	189.50	0.08	9.30		9.30	
2700	133.09	0.14	8.17		8.17	
3000	97.03	0.21	7.27		7.27	
3300	72.89	0.30	6.52		6.52	
3600	56.15	0.43	5.90		5.90	
3900	44.16	0.59	5.37		5.37	
4200	35.36	0.79	4.91		4.91	
4500	28.75	1.04	4.51		4.51	
4800	23.69	1.35	4.16		4.16	
5100	19.75	1.72	3.85		3.85	
5400	16.64	2.16	3.57		3.57	
5700	14.15	2.69	3.33		3.33	
6000	12.13	3.30	3.10		3.10	
6300	10.48	4.01	2.90		2.90	
6600	9.11	4.83	2.72		2.72	
6900	7.97	5.77	2.55		2.55	
7200	7.02	6.84	2.40		2.40	
7500	6.21	8.05	2.26		2.26	
7800	5.52	9.42	2.14		2.14	
8100	4.93	10.96	1.97	2.02	2.02	
8400	4.42	12.67	1.81	1.91	1.91	
8700	3.98	14.58	1.66	1.81	1.81	
9000	3.59	16.69	1.54	1.72	1.72	

DHS30024			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	486.28	0.03	<b>25.28</b>		<b>25.28</b>	
2400	325.77	0.05	<b>22.12</b>		<b>22.12</b>	
2700	228.80	0.08	<b>19.66</b>		<b>19.66</b>	
3000	166.79	0.12	<b>17.70</b>		<b>17.70</b>	
3300	125.31	0.18	<b>16.09</b>		<b>16.09</b>	
3600	96.52	0.25	<b>14.75</b>		<b>14.75</b>	
3900	75.92	0.34	<b>13.61</b>		<b>13.61</b>	
4200	60.79	0.46	<b>12.64</b>		<b>12.64</b>	
4500	49.42	0.61	<b>11.80</b>		<b>11.80</b>	
4800	40.72	0.79	<b>11.06</b>		<b>11.06</b>	
5100	33.95	1.00	<b>10.41</b>		<b>10.41</b>	
5400	28.60	1.26	<b>9.30</b>	<b>28.57</b>	<b>9.83</b>	
5700	24.32	1.56	<b>8.09</b>	<b>24.29</b>	<b>9.31</b>	
6000	20.85	1.92	<b>7.08</b>	<b>20.82</b>	<b>8.85</b>	
6300	18.01	2.33	<b>6.23</b>	<b>8.16</b>	<b>8.16</b>	
6600	15.67	2.81	<b>5.51</b>	<b>7.45</b>	<b>7.45</b>	
6900	13.71	3.36	<b>4.89</b>	<b>6.82</b>	<b>6.82</b>	
7200	12.07	3.98	<b>4.36</b>	<b>6.26</b>	<b>6.26</b>	
7500	10.68	4.68	<b>3.90</b>	<b>5.77</b>	<b>5.77</b>	
7800	9.49	5.48	<b>3.50</b>	<b>5.34</b>	<b>5.30</b>	5.34
8100	8.47	6.37	<b>3.16</b>	<b>4.95</b>	<b>4.82</b>	4.95
8400	7.60	7.37	2.86	<b>4.60</b>	<b>4.38</b>	<b>4.60</b>
8700	6.84	8.48	2.61	<b>4.29</b>	<b>3.99</b>	<b>4.29</b>
9000	6.18	9.71	2.38	<b>4.01</b>	<b>3.64</b>	<b>4.01</b>

DHS30019			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	370.75	0.04	<b>20.01</b>		<b>20.01</b>	
2400	248.37	0.06	<b>17.51</b>		<b>17.51</b>	
2700	174.44	0.10	<b>15.40</b>		<b>15.40</b>	
3000	127.16	0.16	<b>13.59</b>		<b>13.59</b>	
3300	95.54	0.23	<b>12.10</b>		<b>12.10</b>	
3600	73.59	0.33	<b>10.85</b>		<b>10.85</b>	
3900	57.88	0.45	<b>9.78</b>		<b>9.79</b>	
4200	46.34	0.60	<b>8.87</b>		<b>8.87</b>	
4500	37.68	0.80	<b>8.08</b>		<b>8.08</b>	
4800	31.05	1.03	<b>7.39</b>		<b>7.39</b>	
5100	25.88	1.31	<b>6.79</b>		<b>6.79</b>	
5400	21.81	1.65	<b>6.25</b>		<b>6.25</b>	
5700	18.54	2.05	<b>5.77</b>		<b>5.77</b>	
6000	15.90	2.52	<b>5.35</b>		<b>5.35</b>	
6300	13.73	3.06	<b>4.91</b>	<b>4.96</b>	<b>4.96</b>	
6600	11.94	3.68	<b>4.39</b>	<b>4.62</b>	<b>4.62</b>	
6900	10.45	4.40	<b>3.95</b>	<b>4.31</b>	<b>4.31</b>	
7200	9.20	5.22	<b>3.57</b>	<b>4.03</b>	<b>4.03</b>	
7500	8.14	6.14	<b>3.24</b>	<b>3.77</b>	<b>3.77</b>	
7800	7.24	7.19	2.93	<b>3.54</b>	<b>3.54</b>	
8100	6.46	8.36	2.66	<b>3.33</b>	<b>3.33</b>	
8400	5.79	9.67	2.43	<b>3.13</b>	<b>3.10</b>	<b>3.13</b>
8700	5.21	11.12	2.22	<b>2.95</b>	<b>2.84</b>	<b>2.95</b>
9000	4.71	12.74	2.03	<b>2.79</b>	2.61	<b>2.79</b>

DHS30030			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	617.55	0.02	<b>45.21</b>		<b>45.21</b>	
2400	413.71	0.04	<b>39.56</b>		<b>39.55</b>	
2700	290.55	0.06	<b>35.16</b>		<b>35.16</b>	
3000	211.82	0.09	<b>31.64</b>		<b>31.65</b>	
3300	159.15	0.14	<b>28.77</b>		<b>28.77</b>	
3600	122.58	0.20	<b>26.37</b>		<b>26.37</b>	
3900	96.41	0.27	<b>24.34</b>		<b>24.34</b>	
4200	77.19	0.36	<b>22.20</b>	<b>22.60</b>	<b>22.60</b>	
4500	62.76	0.48	<b>18.57</b>	<b>21.10</b>	<b>21.10</b>	
4800	51.71	0.62	<b>15.66</b>	<b>18.98</b>	<b>18.98</b>	
5100	43.12	0.79	<b>13.31</b>	<b>16.81</b>	<b>16.81</b>	
5400	36.32	0.99	<b>11.38</b>	<b>14.99</b>	<b>15.00</b>	
5700	30.88	1.23	<b>9.80</b>	<b>13.46</b>	<b>13.46</b>	
6000	26.48	1.51	<b>8.48</b>	<b>12.15</b>	<b>12.15</b>	
6300	22.87	1.84	<b>7.38</b>	<b>11.02</b>	<b>11.02</b>	
6600	19.89	2.21	<b>6.45</b>	<b>10.04</b>	<b>10.04</b>	
6900	17.41	2.64	<b>5.67</b>	<b>9.18</b>	<b>9.18</b>	
7200	15.32	3.13	<b>5.02</b>	<b>8.43</b>	<b>8.43</b>	
7500	13.56	3.69	<b>4.47</b>	<b>7.77</b>	<b>7.70</b>	<b>7.77</b>
7800	12.05	4.31	<b>4.01</b>	<b>7.19</b>	<b>6.97</b>	<b>7.19</b>
8100	10.76	5.02	<b>3.61</b>	<b>6.67</b>	<b>6.32</b>	<b>6.66</b>
8400	9.65	5.80	<b>3.27</b>	<b>6.20</b>	<b>5.74</b>	<b>6.20</b>
8700	8.69	6.68	<b>2.97</b>	<b>5.78</b>	<b>5.22</b>	<b>5.78</b>
9000	7.85	7.65	<b>2.71</b>	<b>5.40</b>	<b>4.75</b>	<b>5.40</b>

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)\
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS350

## DHS Load Tables

<b>DHS35019</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	536.54	0.03	17.73		17.73	
2400	359.44	0.04	15.37		15.37	
2700	252.44	0.07	13.53		13.53	
3000	184.04	0.11	12.05		12.05	
3300	138.26	0.16	10.82		10.82	
3600	106.50	0.23	9.80		9.80	
3900	83.77	0.31	8.93		8.93	
4200	67.07	0.42	8.17		8.17	
4500	54.53	0.55	7.52		7.52	
4800	44.93	0.71	6.94		6.94	
5100	37.46	0.91	6.43		6.43	
5400	31.56	1.14	5.98		5.98	
5700	26.83	1.42	5.57		5.57	
6000	23.01	1.74	5.21		5.21	
6300	19.87	2.11	4.87		4.87	
6600	17.28	2.55	4.57		4.57	
6900	15.13	3.04	4.30		4.30	
7200	13.31	3.61	4.05		4.05	
7500	11.78	4.25	3.75	3.82	3.82	
7800	10.47	4.97	3.41	3.61	3.61	
8100	9.35	5.78	3.11	3.41	3.41	
8400	8.38	6.68	2.84	3.23	3.23	
8700	7.55	7.69	2.60	3.07	3.07	
9000	6.82	8.80	2.40	2.91	2.91	

<b>DHS35030</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	903.51	0.02	<b>45.21</b>		<b>45.20</b>	
2400	605.29	0.03	<b>39.56</b>		<b>39.55</b>	
2700	425.13	0.04	<b>35.16</b>		<b>35.16</b>	
3000	309.92	0.06	<b>31.65</b>		<b>31.64</b>	
3300	232.84	0.09	<b>28.77</b>		<b>28.76</b>	
3600	179.34	0.13	<b>26.37</b>		<b>26.37</b>	
3900	141.06	0.18	<b>24.34</b>		<b>24.34</b>	
4200	112.94	0.25	<b>22.60</b>		<b>22.60</b>	
4500	91.82	0.33	<b>21.10</b>		<b>21.09</b>	
4800	75.66	0.42	<b>19.34</b>	<b>19.78</b>	<b>19.78</b>	
5100	63.08	0.54	<b>16.38</b>	<b>18.62</b>	<b>18.61</b>	
5400	53.14	0.68	<b>13.95</b>	<b>17.07</b>	<b>17.07</b>	
5700	45.18	0.84	<b>11.95</b>	<b>15.67</b>	<b>15.67</b>	
6000	38.74	1.03	<b>10.29</b>	<b>14.42</b>	<b>14.42</b>	
6300	33.46	1.26	<b>8.91</b>	<b>13.32</b>	<b>13.32</b>	
6600	29.11	1.51	<b>7.75</b>	<b>12.21</b>	<b>12.21</b>	
6900	25.47	1.81	<b>6.80</b>	<b>11.17</b>	<b>11.17</b>	
7200	22.42	2.14	6.01	<b>10.26</b>	<b>10.26</b>	
7500	19.84	2.52	5.34	<b>9.45</b>	<b>9.45</b>	
7800	17.63	2.95	4.78	<b>8.74</b>	<b>8.74</b>	
8100	15.75	3.43	4.29	<b>8.11</b>	<b>7.95</b>	<b>8.11</b>
8400	14.12	3.97	3.88	<b>7.54</b>	<b>7.22</b>	<b>7.54</b>
8700	12.71	4.56	3.52	<b>7.03</b>	<b>6.56</b>	<b>7.03</b>
9000	11.48	5.23	3.21	<b>6.57</b>	<b>5.97</b>	<b>6.57</b>

<b>DHS35024</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	703.21	0.02	<b>25.28</b>		<b>25.28</b>	
2400	471.11	0.03	<b>22.12</b>		<b>22.12</b>	
2700	330.87	0.05	<b>19.66</b>		<b>19.66</b>	
3000	241.20	0.08	<b>17.69</b>		<b>17.70</b>	
3300	181.21	0.12	<b>16.09</b>		<b>16.09</b>	
3600	139.58	0.17	<b>14.75</b>		<b>14.75</b>	
3900	109.78	0.24	<b>13.61</b>		<b>13.61</b>	
4200	87.90	0.32	<b>12.64</b>		<b>12.64</b>	
4500	71.47	0.42	<b>11.80</b>		<b>11.80</b>	
4800	58.89	0.54	<b>11.06</b>		<b>11.06</b>	
5100	49.09	0.69	<b>10.41</b>		<b>10.41</b>	
5400	41.36	0.87	<b>9.83</b>		<b>9.83</b>	
5700	35.17	1.08	<b>9.31</b>		<b>9.31</b>	
6000	30.15	1.33	<b>8.72</b>	<b>8.85</b>	<b>8.85</b>	
6300	26.04	1.61	<b>7.64</b>	<b>8.39</b>	<b>8.39</b>	
6600	22.65	1.94	6.73	<b>7.82</b>	<b>7.82</b>	
6900	19.82	2.32	5.96	<b>7.30</b>	<b>7.30</b>	
7200	17.45	2.75	5.29	<b>6.84</b>	<b>6.83</b>	
7500	15.44	3.24	4.72	<b>6.41</b>	<b>6.41</b>	
7800	13.72	3.79	4.23	<b>6.02</b>	<b>6.02</b>	
8100	12.25	4.41	3.81	<b>5.66</b>	<b>5.66</b>	
8400	10.99	5.10	3.44	5.34	5.34	
8700	9.89	5.86	3.13	5.04	5.00	5.04
9000	8.93	6.72	2.85	4.76	4.59	4.76

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Double Continuous Span DHS400

## DHS Load Tables

<b>DHS40019</b>			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0,1,2,3	
2100	728.91	0.02	15.44		15.44	
2400	488.31	0.03	13.43		13.43	
2700	342.94	0.05	11.87		11.87	
3000	250.01	0.08	10.61		10.61	
3300	187.84	0.12	9.58		9.58	
3600	144.68	0.17	8.71		8.71	
3900	113.79	0.23	7.98		7.98	
4200	91.11	0.31	7.34		7.34	
4500	74.08	0.40	6.79		6.79	
4800	61.04	0.52	6.30		6.30	
5100	50.89	0.67	5.87		5.87	
5400	42.87	0.84	5.49		5.49	
5700	36.45	1.04	5.14		5.14	
6000	31.25	1.28	4.83		4.83	
6300	27.00	1.56	4.55		4.55	
6600	23.48	1.87	4.29		4.29	
6900	20.55	2.24	4.05		4.05	
7200	18.09	2.65	3.84		3.84	
7500	16.00	3.12	3.64		3.64	
7800	14.23	3.66	3.45		3.45	
8100	12.70	4.25	3.28		3.28	
8400	11.39	4.92	3.12		3.12	
8700	10.25	5.66	2.91	2.98	2.98	
9000	9.26	6.48	2.68	2.84	2.84	

<b>DHS40030</b>			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	1237.72	0.01	<b>45.21</b>		<b>45.21</b>	
2400	829.23	0.02	<b>39.55</b>		<b>39.56</b>	
2700	582.37	0.03	<b>35.16</b>		<b>35.16</b>	
3000	424.56	0.05	<b>31.65</b>		<b>31.64</b>	
3300	318.98	0.07	<b>28.77</b>		<b>28.77</b>	
3600	245.69	0.10	<b>26.37</b>		<b>26.37</b>	
3900	193.25	0.13	<b>24.34</b>		<b>24.34</b>	
4200	154.72	0.18	<b>22.60</b>		<b>22.60</b>	
4500	125.79	0.24	<b>21.10</b>		<b>21.10</b>	
4800	103.65	0.31	<b>19.78</b>		<b>19.78</b>	
5100	86.41	0.39	<b>18.61</b>		<b>18.61</b>	
5400	72.80	0.49	<b>16.34</b>	<b>17.18</b>	<b>17.18</b>	
5700	61.90	0.61	<b>13.94</b>	<b>15.90</b>	<b>15.90</b>	
6000	53.07	0.75	<b>11.94</b>	<b>14.75</b>	<b>14.75</b>	
6300	45.85	0.92	<b>10.30</b>	<b>13.72</b>	<b>13.72</b>	
6600	39.87	1.10	<b>8.95</b>	<b>12.79</b>	<b>12.79</b>	
6900	34.89	1.32	<b>7.84</b>	<b>11.95</b>	<b>11.95</b>	
7200	30.71	1.56	<b>6.92</b>	<b>11.19</b>	<b>11.19</b>	
7500	27.17	1.84	<b>6.14</b>	<b>10.49</b>	<b>10.49</b>	
7800	24.16	2.15	5.49	<b>9.86</b>	<b>9.86</b>	
8100	21.57	2.50	4.93	<b>9.28</b>	<b>9.28</b>	
8400	19.34	2.90	4.45	<b>8.71</b>	<b>8.64</b>	<b>8.71</b>
8700	17.41	3.33	4.04	<b>8.12</b>	<b>7.85</b>	<b>8.12</b>
9000	15.72	3.82	3.67	<b>7.59</b>	<b>7.14</b>	<b>7.59</b>

<b>DHS40024</b>			Load Capacity (kN/m)			
Span (mm)	Δ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0,1,2,3	
2100	955.09	0.01	<b>25.28</b>		<b>25.28</b>	
2400	639.85	0.03	<b>22.12</b>		<b>22.12</b>	
2700	449.38	0.04	<b>19.66</b>		<b>19.66</b>	
3000	327.61	0.06	<b>17.70</b>		<b>17.70</b>	
3300	246.13	0.09	<b>16.09</b>		<b>16.09</b>	
3600	189.58	0.13	<b>14.75</b>		<b>14.75</b>	
3900	149.11	0.17	<b>13.61</b>		<b>13.61</b>	
4200	119.39	0.23	<b>12.64</b>		<b>12.64</b>	
4500	97.07	0.31	<b>11.80</b>		<b>11.80</b>	
4800	79.98	0.40	<b>11.06</b>		<b>11.06</b>	
5100	66.68	0.51	<b>10.41</b>		<b>10.41</b>	
5400	56.174	0.64	<b>9.83</b>		<b>9.83</b>	
5700	47.77	0.80	<b>9.30</b>		<b>9.30</b>	
6000	40.95	0.98	<b>8.68</b>		<b>8.68</b>	
6300	35.38	1.19	<b>8.13</b>		<b>8.13</b>	
6600	30.77	1.43	<b>7.62</b>		<b>7.62</b>	
6900	26.93	1.71	<b>6.94</b>	<b>7.16</b>	<b>7.16</b>	
7200	23.70	2.03	6.14	<b>6.74</b>	<b>6.74</b>	
7500	20.97	2.38	5.47	<b>6.36</b>	<b>6.36</b>	
7800	18.64	2.79	4.89	<b>6.00</b>	<b>6.00</b>	
8100	16.64	3.24	4.40	<b>5.68</b>	<b>5.68</b>	
8400	14.92	3.75	3.98	5.38	5.38	
8700	13.43	4.32	3.61	5.10	5.10	
9000	12.13	4.95	3.30	4.84	4.84	

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
  - **2.55** Numbers in bold italics require grade 8.8 bolts
  - **3.47** Shaded numbers require M16 bolts
  - Inward = Inward loading capacity for bridging configuration (kN/m)
  - Outward = Outward loading capacity for bridging configuration (kN/m)
  - L/150 = Load deflection for span/150 (kN/m)
  - K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual
- These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS100

## DHS Load Tables

DHS10010			Load Capacity (kN/m)					
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	7.30	1.92	5.49		5.49			
2400	4.89	3.27	4.46		4.46			
2700	3.44	5.24	3.69		3.69			
3000	2.51	7.98	3.08		3.05	3.08		
3300	1.88	11.69	2.54		2.39	2.54		
3600	1.45	16.55	2.10	2.14	1.89	2.14		
3900	1.14	22.81	1.76	1.82	1.51	1.82		
4200	0.91	30.67	1.49	1.57	1.20	1.57		
4500	0.74	40.43	1.27	1.37	0.95	1.36	1.37	
4800	0.61	52.29	1.10	1.20	0.76	1.16	1.20	
5100	0.51	66.67	0.95	1.06	0.61	0.98	1.06	
5400	0.43	83.72	0.83	0.95	0.50	0.84	0.95	
5700	0.37	104.11	0.72	0.85	0.41	0.72	0.85	
6000	0.31	127.80	0.63	0.77		0.62	0.77	

DHS10015			Load Capacity (kN/m)					
Span (mm)	$\Delta$ L/150	k	No. of Bridging					
			Inward			Outward		
			0	1	0	1	2	3
2100	11.23	1.25	9.06	9.43	9.43			
2400	7.52	2.13	6.79	7.28	7.28			
2700	5.28	3.41	5.27	5.76	5.58	5.76		
3000	3.85	5.19	4.19	4.66	4.35	4.66		
3300	2.89	7.60	3.41	3.85	3.45	3.85		
3600	2.23	10.77	2.82	3.24	2.76	3.24		
3900	1.75	14.83	2.36	2.76	2.24	2.73	2.76	
4200	1.40	19.94	2.01	2.38	1.82	2.30	2.38	
4500	1.14	26.29	1.72	2.07	1.49	1.95	2.07	
4800	0.94	34.04	1.49	1.82	1.22	1.67	1.82	
5100	0.78	43.37	1.29	1.61	1.01	1.43	1.61	
5400	0.66	54.55	1.13	1.44	0.83	1.24	1.43	1.44
5700	0.56	67.62	1.00	1.29	0.68	1.07	1.26	1.29
6000	0.48	83.16	0.88	1.17	0.57	0.93	1.12	1.17

DHS10012			Load Capacity (kN/m)					
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1,2,3	0	1	2,3	
2100	8.88	1.58	7.41		7.41			
2400	5.95	2.69	5.81		5.81			
2700	4.18	4.31	4.53	4.59	4.59			
3000	3.05	6.57	3.61	3.72	3.62	3.72		
3300	2.29	9.62	2.94	3.08	2.86	3.08		
3600	1.76	13.61	2.43	2.58	2.29	2.58		
3900	1.39	18.76	2.04	2.20	1.84	2.20		
4200	1.11	25.23	1.73	1.90	1.49	1.90		
4500	0.90	33.26	1.48	1.65	1.20	1.62	1.65	
4800	0.74	43.01	1.28	1.45	0.96	1.38	1.45	
5100	0.62	54.84	1.11	1.29	0.77	1.18	1.29	
5400	0.52	68.97	0.97	1.15	0.62	1.02	1.15	
5700	0.44	85.59	0.85	1.03	0.51	0.88	1.03	
6000	0.38	104.99	0.75	0.93	0.42	0.76	0.93	

DHS10019			Load Capacity (kN/m)					
Span (mm)	L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1	2,3	0	1	2
2100	13.98	1.00	11.07	12.06	12.06			
2400	9.37	1.71	8.27	9.38	9.12	9.38		
2700	6.58	2.74	6.39	7.41	6.97	7.41		
3000	4.80	4.17	5.08	6.00	5.44	6.00		
3300	3.60	6.10	4.12	4.96	4.32	4.96		
3600	2.78	8.65	3.41	4.17	3.47	4.10	4.17	
3900	2.18	11.91	2.86	3.55	2.82	3.42	3.55	
4200	1.75	16.02	2.42	3.06	2.31	2.88	3.06	
4500	1.42	21.11	2.08	2.67	1.91	2.45	2.67	
4800	1.17	27.33	1.80	2.34	1.58	2.10	2.33	2.35
5100	0.98	34.84	1.57	2.06	1.31	1.81	2.03	2.08
5400	0.82	43.80	1.38	1.83	1.10	1.56	1.79	1.85
5700	0.70	54.36	1.22	1.63	0.92	1.36	1.58	1.66
6000	0.60	66.67	1.08	1.46	0.77	1.19	1.40	1.49

DHS10024			Load Capacity (kN/m)					
Span (mm)	L/150	k	No. of rows of bridging					
			Inward			Outward		
			0	1	2,3	0	1	2
2100	17.42	0.80	<b>13.64</b>	<b>15.03</b>	<b>15.02</b>			
2400	11.67	1.37	10.16	<b>11.68</b>	11.42	<b>11.68</b>		
2700	8.20	2.20	7.84	9.24	8.74	9.24		
3000	5.98	3.35	6.22	7.48	6.85	7.48		
3300	4.49	4.90	5.04	6.18	5.46	6.18		
3600	3.46	6.94	4.17	5.20	4.41	5.14	5.20	
3900	2.72	9.56	3.50	4.43	3.61	4.29	4.43	
4200	2.18	12.86	2.97	3.82	2.98	3.63	3.82	
4500	1.77	16.95	2.55	3.31	2.48	3.09	3.32	
4800	1.46	21.93	2.21	2.89	2.08	2.65	2.92	
5100	1.22	27.96	1.94	2.54	1.75	2.29	2.55	2.59
5400	1.03	35.12	1.71	2.26	1.49	1.99	2.24	2.31
5700	0.87	43.63	1.51	2.01	1.26	1.74	1.99	2.07
6000	0.75	53.55	1.35	1.81	1.08	1.53	1.76	1.87

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS150

## DHS Load Tables

DHS15012			Load Capacity (kN/m)							
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging							
			Inward			Outward				
			0	1,2,3	0	1,2,3	0	1,2,3		
2100	27.24	0.51	9.64			9.64				
2400	18.25	0.88	8.03			8.03				
2700	12.82	1.40	6.78			6.78				
3000	9.35	2.14	5.80			5.80				
3300	7.02	3.13	5.01			5.01				
3600	5.41	4.44	4.36			4.36				
3900	4.25	6.11	3.83			3.83				
4200	3.41	8.22	3.25	3.39	3.39	3.25	3.39			
4500	2.77	10.83	2.78	2.97	2.97	2.84	2.97			
4800	2.28	14.03	2.41	2.61	2.61	2.39	2.61			
5100	1.90	17.88	2.10	2.31	2.31	2.01	2.31			
5400	1.60	22.47	1.84	2.06	2.06	1.70	2.06			
5700	1.36	27.90	1.63	1.85	1.85	1.43	1.85			
6000	1.17	34.25	1.44	1.67	1.67	1.20	1.67			

DHS15019			Load Capacity (kN/m)							
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging							
			Inward			Outward				
			0	1,2,3	0	1	2,3	0	1	2,3
2100	44.36	0.32	22.22			22.22				
2400	29.72	0.54	17.33	17.65	17.65	17.33				
2700	20.87	0.86	13.33	14.25	14.25	13.33				
3000	15.22	1.31	<b>10.46</b>	<b>11.54</b>	<b>11.54</b>	<b>10.46</b>				
3300	11.43	1.92	<b>8.39</b>	<b>9.54</b>	<b>9.54</b>	<b>8.39</b>				
3600	8.80	2.73	6.86	<b>8.01</b>	<b>8.00</b>	6.86				
3900	6.93	3.75	5.70	6.83	6.83	5.70	6.64	6.83		
4200	5.55	5.05	4.80	5.89	5.89	4.80	5.59	5.89		
4500	4.51	6.65	4.09	5.13	5.13	4.09	4.69	5.13		
4800	3.71	8.62	3.51	4.51	4.51	3.51	3.95	4.51		
5100	3.10	10.98	3.05	3.99	3.99	3.05	3.34	3.99		
5400	2.61	13.80	2.66	3.56	3.56	2.66	2.83	3.56		
5700	2.22	17.13	2.34	3.20	3.20	2.34	2.41	3.17	3.20	
6000	1.90	21.03	2.07	2.89	2.89	2.07	2.05	2.81	2.89	

DHS15015			Load Capacity (kN/m)							
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging							
			Inward			Outward				
			0	1,2,3	0	1,2,3	0	1,2,3		
2100	34.89	0.40	15.11			15.11				
2400	23.38	0.68	12.23			12.23				
2700	16.42	1.10	10.08			10.08				
3000	11.97	1.67	8.19	8.44	8.44	8.19				
3300	8.99	2.45	6.63	6.98	6.98	6.63				
3600	6.93	3.47	5.47	5.87	5.87	5.47				
3900	5.45	4.77	4.58	5.00	5.00	4.58				
4200	4.36	6.42	3.88	4.31	4.22	4.31	4.31			
4500	3.55	8.46	3.32	3.76	3.55	3.76	3.55	3.76		
4800	2.92	10.95	2.87	3.30	3.00	3.30	3.00	3.30		
5100	2.44	13.96	2.51	2.92	2.55	2.92	2.55	2.92		
5400	2.05	17.54	2.20	2.61	2.17	2.61	2.17	2.61		
5700	1.75	21.78	1.94	2.34	1.85	2.34	1.85	2.34		
6000	1.50	26.74	1.73	2.11	1.58	2.11	1.58	2.11		

DHS15024			Load Capacity (kN/m)							
Span (mm)	L/150	k	No. of rows of bridging							
			Inward			Outward				
			0	1	2,3	0	1	2,3		
2100	56.56	0.25	28.73			28.73				
2400	37.89	0.42	21.75	23.98	23.98	21.75				
2700	26.61	0.68	16.52	19.33	19.33	16.52				
3000	19.40	1.03	12.89	15.84	15.84	12.89	15.81	15.84		
3300	14.58	1.51	10.29	13.09	13.09	10.29	12.73	13.09		
3600	11.23	2.14	8.37	11.00	11.00	8.37	10.40	11.00		
3900	8.83	2.94	6.92	9.37	9.37	6.92	8.59	9.37		
4200	7.07	3.96	5.80	8.08	8.08	5.80	7.16	8.08		
4500	5.75	5.22	4.92	7.04	7.04	4.92	6.01	7.04		
4800	4.74	6.76	4.21	6.19	6.19	4.21	5.08	6.15	6.19	
5100	3.95	8.61	3.64	5.48	5.48	3.64	4.32	5.35	5.48	
5400	3.33	10.82	3.18	4.85	4.89	3.18	3.68	4.69	4.89	
5700	2.83	13.44	2.79	4.32	4.39	2.79	3.15	4.13	4.39	
6000	2.43	16.49	2.46	3.87	3.96	2.46	2.69	3.65	3.96	

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS200

## DHS Load Tables

<b>DHS20012</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0,1,2,3	0,1,2,3	0,1,2,3	0,1,2,3
2100	56.90	0.25	7.96		7.96	
2400	38.12	0.42	6.84		6.84	
2700	26.77	0.67	5.96		5.96	
3000	19.52	1.02	5.26		5.26	
3300	14.66	1.50	4.67		4.67	
3600	11.29	2.13	4.19		4.19	
3900	8.88	2.93	3.77		3.77	
4200	7.11	3.94	3.42		3.42	
4500	5.78	5.19	3.11		3.11	
4800	4.77	6.72	2.84		2.84	
5100	3.97	8.56	2.61		2.61	
5400	3.35	10.76	2.40		2.40	
5700	2.85	13.36	2.21		2.21	
6000	2.44	16.40	2.05		2.05	

<b>DHS20019</b>			Load Capacity (kN/m)						
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0,1,2,3	0	1,2,3	0,1,2,3	
2100	96.88	0.14	<b>22.74</b>					<b>22.74</b>	
2400	64.90	0.25	<b>19.90</b>					<b>19.90</b>	
2700	45.58	0.39	<b>17.69</b>					<b>17.69</b>	
3000	33.23	0.60	<b>15.24</b>					<b>15.24</b>	
3300	24.97	0.88	<b>13.15</b>					<b>13.15</b>	
3600	19.23	1.25	<b>10.94</b>	<b>11.45</b>				<b>11.45</b>	
3900	15.13	1.72	<b>9.05</b>	<b>10.05</b>				<b>10.05</b>	
4200	12.11	2.31	<b>7.58</b>	<b>8.88</b>				<b>8.88</b>	
4500	9.85	3.05	<b>6.43</b>	<b>7.81</b>				<b>7.81</b>	
4800	8.11	3.94	5.50	<b>6.87</b>				<b>6.81</b>	
5100	6.76	5.03	4.75	<b>6.08</b>				<b>5.85</b>	<b>6.08</b>
5400	5.70	6.32	4.14	<b>5.43</b>				5.04	<b>5.43</b>
5700	4.85	7.84	3.61	<b>4.87</b>				4.36	<b>4.87</b>
6000	4.15	9.63	3.18	4.40				3.78	4.40

<b>DHS20015</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	74.72	0.19	<b>14.29</b>		<b>14.29</b>	
2400	50.06	0.32	<b>12.12</b>		<b>12.12</b>	
2700	35.16	0.51	<b>10.42</b>		<b>10.42</b>	
3000	25.63	0.78	9.06		9.06	
3300	19.26	1.14	7.95		7.95	
3600	14.83	1.62	7.03		7.03	
3900	11.67	2.23	6.25		6.25	
4200	9.34	3.00	5.60		5.60	
4500	7.59	3.95	5.03		5.03	
4800	6.26	5.11	4.40	4.55	4.55	
5100	5.22	6.52	3.82	4.13	4.13	
5400	4.40	8.19	3.34	3.76	3.75	
5700	3.74	10.17	2.95	3.44	3.24	3.44
6000	3.20	12.48	2.61	3.16	2.81	3.16

<b>DHS20024</b>			Load Capacity (kN/m)						
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging						
			Inward			Outward			
			0	1,2,3	0,1,2,3	0	1,2,3	0,1,2,3	
2100	123.38	0.11	<b>28.73</b>					<b>28.73</b>	
2400	82.66	0.19	<b>25.14</b>					<b>25.14</b>	
2700	58.05	0.31	<b>22.34</b>					<b>22.34</b>	
3000	42.32	0.47	<b>20.11</b>					<b>20.11</b>	
3300	31.80	0.69	<b>16.69</b>	<b>18.28</b>				<b>18.28</b>	
3600	24.49	0.98	<b>13.43</b>	<b>16.62</b>				<b>16.62</b>	
3900	19.26	1.35	<b>10.98</b>	<b>14.16</b>				<b>14.16</b>	
4200	15.42	1.82	<b>9.10</b>	<b>12.21</b>				<b>12.21</b>	
4500	12.54	2.39	<b>7.63</b>	<b>10.64</b>				<b>10.44</b>	10.64
4800	10.33	3.10	<b>6.46</b>	<b>9.35</b>				<b>8.88</b>	<b>9.35</b>
5100	8.61	3.95	<b>5.52</b>	<b>8.28</b>				<b>7.60</b>	<b>8.28</b>
5400	7.26	4.96	4.76	<b>7.39</b>				<b>6.53</b>	<b>7.39</b>
5700	6.17	6.16	4.13	<b>6.63</b>				<b>5.63</b>	<b>6.63</b>
6000	5.29	7.56	3.61	<b>5.98</b>				<b>4.87</b>	<b>5.98</b>

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS250

## DHS Load Tables

<b>DHS25012</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	104.33	0.13	7.05	7.05
2400	69.90	0.23	6.12	6.12
2700	49.09	0.37	5.39	5.39
3000	35.79	0.56	4.81	4.81
3300	26.89	0.82	4.33	4.33
3600	20.71	1.16	3.93	3.93
3900	16.29	1.60	3.58	3.58
4200	13.04	2.15	3.29	3.29
4500	10.60	2.83	3.03	3.03
4800	8.74	3.66	2.81	2.81
5100	7.28	4.67	2.60	2.60
5400	6.14	5.87	2.43	2.43
5700	5.22	7.28	2.27	2.27
6000	4.47	8.94	2.12	2.12

<b>DHS20019</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0,1,2,3
2100	178.65	0.08	<b>22.74</b>		<b>22.74</b>
2400	119.67	0.13	<b>19.90</b>		<b>19.90</b>
2700	84.05	0.21	<b>17.69</b>		<b>17.69</b>
3000	61.27	0.33	<b>15.92</b>		<b>15.92</b>
3300	46.04	0.48	14.08		14.08
3600	35.46	0.68	12.53		12.53
3900	27.89	0.93	11.22		11.22
4200	22.33	1.25	10.10		10.10
4500	18.16	1.65	9.13		9.13
4800	14.96	2.14	7.92	8.30	8.30
5100	12.47	2.73	6.79	7.56	7.57
5400	10.51	3.43	<b>5.88</b>	6.93	6.93
5700	8.93	4.25	<b>5.12</b>	6.36	6.36
6000	7.66	5.22	4.48	<b>5.86</b>	<b>5.86</b>

<b>DHS25015</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	136.44	0.10	13.03	13.03
2400	91.41	0.18	11.24	11.24
2700	64.20	0.28	9.83	9.83
3000	46.80	0.43	8.69	8.69
3300	35.16	0.63	7.76	7.76
3600	27.09	0.89	6.97	6.97
3900	21.30	1.22	6.31	6.31
4200	17.06	1.64	5.73	5.73
4500	13.87	2.16	5.24	5.24
4800	11.43	2.80	4.80	4.80
5100	9.53	3.57	4.42	4.42
5400	8.03	4.49	4.08	4.08
5700	6.82	5.57	3.77	3.77
6000	5.85	6.84	3.50	3.50

<b>DHS20024</b>			Load Capacity (kN/m)			
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging			
			Inward		Outward	
			0	1,2,3	0	1,2,3
2100	229.62	0.06	<b>28.73</b>		<b>28.73</b>	
2400	153.83	0.10	<b>25.13</b>		<b>25.13</b>	
2700	108.03	0.17	<b>22.34</b>		<b>22.34</b>	
3000	78.76	0.25	<b>20.11</b>		<b>20.11</b>	
3300	59.17	0.37	<b>18.28</b>		<b>18.28</b>	
3600	45.58	0.53	<b>16.76</b>		<b>16.76</b>	
3900	35.85	0.73	<b>15.47</b>		<b>15.47</b>	
4200	28.70	0.98	<b>13.72</b>	14.36	<b>14.36</b>	
4500	23.34	1.29	11.40	<b>13.41</b>	<b>13.41</b>	
4800	19.23	1.66	9.57	<b>12.57</b>	<b>12.57</b>	
5100	16.03	2.12	<b>8.10</b>	<b>11.78</b>	<b>11.79</b>	
5400	13.51	2.67	<b>6.90</b>	<b>10.55</b>	<b>10.34</b>	<b>10.55</b>
5700	11.48	3.31	<b>5.94</b>	<b>9.47</b>	9.01	<b>9.47</b>
6000	9.85	4.06	<b>5.15</b>	8.55	7.89	8.55

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS300

## DHS Load Tables

<b>DHS30015</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	224.63	0.06	11.29	11.29
2400	150.49	0.11	9.81	9.81
2700	105.69	0.17	8.65	8.65
3000	77.05	0.26	7.72	7.72
3300	57.89	0.38	6.95	6.95
3600	44.59	0.54	6.31	6.31
3900	35.07	0.74	5.76	5.76
4200	28.08	1.00	5.29	5.29
4500	22.83	1.31	4.88	4.88
4800	18.81	1.70	4.52	4.52
5100	15.68	2.17	4.20	4.20
5400	13.21	2.72	3.91	3.91
5700	11.23	3.38	3.66	3.66
6000	9.63	4.15	3.43	3.43

<b>DHS30024</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0,1,2,3
2100	386.17	0.04	<b>28.73</b>		<b>28.73</b>
2400	258.72	0.06	<b>25.13</b>		<b>25.14</b>
2700	181.71	0.10	<b>22.34</b>		<b>22.34</b>
3000	132.46	0.15	<b>20.11</b>		<b>20.11</b>
3300	99.52	0.22	<b>18.28</b>		<b>18.28</b>
3600	76.65	0.31	<b>16.76</b>		<b>16.76</b>
3900	60.29	0.43	<b>15.47</b>		<b>15.47</b>
4200	48.27	0.58	<b>14.36</b>		<b>14.36</b>
4500	39.25	0.76	<b>13.41</b>		<b>13.41</b>
4800	32.34	0.99	<b>12.57</b>		<b>12.57</b>
5100	26.96	1.26	<b>11.80</b>	<b>11.82</b>	<b>11.83</b>
5400	22.71	1.59	<b>10.05</b>	<b>11.17</b>	<b>11.17</b>
5700	19.31	1.97	<b>8.62</b>	<b>10.58</b>	<b>10.58</b>
6000	16.56	2.42	<b>7.41</b>	<b>10.05</b>	<b>10.05</b>

<b>DHS30019</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	294.40	0.05	<b>21.75</b>	<b>21.75</b>
2400	197.22	0.08	<b>18.80</b>	<b>18.80</b>
2700	138.52	0.13	<b>16.49</b>	<b>16.49</b>
3000	100.98	0.20	<b>14.62</b>	<b>14.62</b>
3300	75.87	0.29	<b>13.09</b>	<b>13.09</b>
3600	58.44	0.41	<b>11.80</b>	<b>11.80</b>
3900	45.97	0.57	<b>10.70</b>	<b>10.70</b>
4200	36.80	0.76	<b>9.76</b>	<b>9.76</b>
4500	29.92	1.00	<b>8.94</b>	<b>8.94</b>
4800	24.66	1.30	<b>8.22</b>	<b>8.22</b>
5100	20.55	1.65	<b>7.58</b>	<b>7.58</b>
5400	17.32	2.08	<b>7.02</b>	<b>7.02</b>
5700	14.72	2.58	<b>6.51</b>	<b>6.51</b>
6000	12.62	3.17	<b>6.06</b>	<b>6.06</b>

<b>DHS30030</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0,1,2,3
2100	490.41	0.03	<b>51.37</b>		<b>51.37</b>
2400	328.53	0.05	<b>44.95</b>		<b>44.95</b>
2700	230.74	0.08	<b>39.95</b>		<b>39.95</b>
3000	168.21	0.12	<b>35.96</b>		<b>35.96</b>
3300	126.37	0.17	<b>32.69</b>		<b>32.69</b>
3600	97.35	0.25	<b>29.97</b>		<b>29.97</b>
3900	76.57	0.34	<b>27.66</b>		<b>27.66</b>
4200	61.30	0.46	<b>24.91</b>	<b>25.69</b>	<b>25.69</b>
4500	49.84	0.60	<b>20.49</b>	<b>23.98</b>	<b>23.97</b>
4800	41.07	0.78	<b>16.98</b>	<b>22.42</b>	<b>22.43</b>
5100	34.24	0.99	<b>14.15</b>	<b>20.29</b>	<b>20.31</b>
5400	28.84	1.25	<b>11.88</b>	<b>18.46</b>	<b>18.46</b>
5700	24.52	1.55	<b>10.06</b>	<b>16.82</b>	<b>16.82</b>
6000	21.03	1.90	<b>8.61</b>	<b>15.18</b>	<b>15.18</b>

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS350

## DHS Load Tables

<b>DHS35019</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0
2100	426.07	0.03	18.63	18.63
2400	285.43	0.06	16.20	16.20
2700	200.47	0.09	14.30	14.30
3000	146.15	0.14	12.77	12.77
3300	109.80	0.20	11.51	11.51
3600	84.58	0.28	10.46	10.46
3900	66.52	0.39	9.56	9.56
4200	53.26	0.53	8.79	8.79
4500	43.30	0.69	8.11	8.11
4800	35.68	0.90	7.52	7.52
5100	29.75	1.14	7.00	7.00
5400	25.06	1.44	6.53	6.53
5700	21.31	1.78	6.11	6.11
6000	18.27	2.19	5.73	5.73

<b>DHS35030</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0,1,2,3
2100	717.51	0.02	<b>51.37</b>		<b>51.37</b>
2400	480.67	0.03	<b>44.95</b>		<b>44.95</b>
2700	337.58	0.05	<b>39.95</b>		<b>39.95</b>
3000	246.11	0.08	<b>35.96</b>		<b>35.96</b>
3300	184.90	0.12	<b>32.69</b>		<b>32.69</b>
3600	142.43	0.17	<b>29.97</b>		<b>29.97</b>
3900	112.02	0.23	<b>27.66</b>		<b>27.66</b>
4200	89.69	0.31	<b>25.68</b>		<b>25.68</b>
4500	72.92	0.41	<b>23.97</b>		<b>23.97</b>
4800	60.08	0.53	<b>20.84</b>	<b>22.47</b>	<b>22.48</b>
5100	50.10	0.68	<b>17.27</b>	<b>21.14</b>	<b>21.15</b>
5400	42.20	0.85	<b>14.42</b>	<b>19.58</b>	<b>19.59</b>
5700	35.88	1.06	<b>12.18</b>	<b>18.05</b>	<b>18.06</b>
6000	30.76	1.30	<b>10.39</b>	<b>16.70</b>	<b>16.71</b>

<b>DHS35024</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0
2100	558.42	0.03	<b>28.73</b>		<b>28.73</b>
2400	374.11	0.04	<b>25.14</b>		<b>25.13</b>
2700	262.74	0.07	<b>22.34</b>		<b>22.34</b>
3000	191.55	0.10	<b>20.11</b>		<b>20.11</b>
3300	143.91	0.15	<b>18.28</b>		<b>18.28</b>
3600	110.84	0.22	<b>16.76</b>		<b>16.76</b>
3900	87.18	0.30	<b>15.47</b>		<b>15.47</b>
4200	69.80	0.40	<b>14.36</b>		<b>14.36</b>
4500	56.75	0.53	<b>13.41</b>		<b>13.41</b>
4800	46.76	0.68	<b>12.57</b>		<b>12.57</b>
5100	38.99	0.87	<b>11.83</b>		<b>11.83</b>
5400	32.84	1.10	<b>11.17</b>		<b>11.17</b>
5700	27.93	1.36	<b>10.56</b>	<b>10.58</b>	<b>10.58</b>
6000	23.94	1.67	<b>9.05</b>	<b>10.05</b>	<b>10.05</b>

**Notes:**

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Triple Continuous Span DHS400

## DHS Load Tables

<b>DHS40019</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	578.84	0.02	16.17	16.17
2400	387.77	0.04	14.09	14.09
2700	272.34	0.07	12.47	12.47
3000	198.54	0.10	11.17	11.17
3300	149.16	0.15	10.11	10.11
3600	114.89	0.21	9.21	9.21
3900	90.37	0.29	8.45	8.45
4200	72.35	0.39	7.80	7.80
4500	58.83	0.51	7.23	7.23
4800	48.47	0.66	6.73	6.73
5100	40.41	0.84	6.29	6.29
5400	34.04	1.06	5.89	5.89
5700	28.94	1.31	5.54	5.54
6000	24.82	1.61	5.22	5.22

<b>DHS40030</b>			Load Capacity (kN/m)		
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging		
			Inward		Outward
			0	1,2,3	0,1,2,3
2100	982.97	0.01	<b>51.37</b>		<b>51.37</b>
2400	658.49	0.02	<b>44.95</b>		<b>44.95</b>
2700	462.48	0.04	<b>39.96</b>		<b>39.96</b>
3000	337.15	0.06	<b>35.96</b>		<b>35.96</b>
3300	253.30	0.09	<b>32.69</b>		<b>32.69</b>
3600	195.11	0.12	<b>29.97</b>		<b>29.97</b>
3900	153.46	0.17	<b>27.66</b>		<b>27.66</b>
4200	122.87	0.23	<b>25.68</b>		<b>25.69</b>
4500	99.89	0.30	<b>23.97</b>		<b>23.97</b>
4800	82.31	0.39	<b>22.36</b>		<b>22.36</b>
5100	68.62	0.50	<b>20.11</b>	<b>20.64</b>	<b>20.67</b>
5400	57.81	0.62	<b>16.74</b>	<b>19.16</b>	<b>19.17</b>
5700	49.15	0.77	<b>14.11</b>	<b>17.80</b>	<b>17.82</b>
6000	42.14	0.95	<b>12.03</b>	<b>16.61</b>	<b>16.61</b>

<b>DHS40024</b>			Load Capacity (kN/m)	
Span (mm)	$\Delta$ L/150	k	No. of rows of bridging	
			Inward	Outward
			0,1,2,3	0,1,2,3
2100	758.49	0.02	<b>28.73</b>	<b>28.73</b>
2400	508.13	0.03	<b>25.14</b>	<b>25.14</b>
2700	356.88	0.05	<b>22.34</b>	<b>22.34</b>
3000	260.17	0.08	<b>20.11</b>	<b>20.11</b>
3300	195.45	0.11	<b>18.28</b>	<b>18.28</b>
3600	150.55	0.16	<b>16.76</b>	<b>16.76</b>
3900	118.41	0.22	<b>15.47</b>	<b>15.47</b>
4200	94.81	0.30	<b>14.36</b>	<b>14.36</b>
4500	77.08	0.39	<b>13.41</b>	<b>13.41</b>
4800	63.51	0.50	<b>12.57</b>	<b>12.57</b>
5100	52.95	0.64	<b>11.69</b>	<b>11.69</b>
5400	44.61	0.81	<b>10.91</b>	<b>10.91</b>
5700	37.93	1.00	<b>10.20</b>	<b>10.20</b>
6000	32.52	1.23	<b>9.56</b>	<b>9.56</b>

### Notes:

- For DHS purlin depths less than 350mm, 2 x M12 bolts are required and for depths 350mm or greater, 2 x M16 bolts are required, unless otherwise specified.
- **2.55** Numbers in bold italics require grade 8.8 bolts
- **3.47** Shaded numbers require M16 bolts
- Inward = Inward loading capacity for bridging configuration (kN/m)
- Outward = Outward loading capacity for bridging configuration (kN/m)
- L/150 = Load deflection for span/150 (kN/m)
- K = Deflection factor. See notes to section 7.3 of the Purlin & Girt Design Manual

These tables are to be read in conjunction with the Fielders Purlin & Girt Design Manual.

## Guarantees & Warranties

Fielders offer a warranty of 10 years from the date of installation against perforation by natural degradation, when used within the building envelope (not exposed to the external environment). It is applicable to light industrial/ commercial applications located greater than 1km from a marine or heavy industrial environment only and applies to Z250 and Z450 products when used in purlin applications: Warranty requests are evaluated on a case-by-case basis. Fielders reserves the right to determine the warranty period given, and warranties are subject to terms and conditions, which are available from Fielders.

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It is recommended that you obtain qualified expert advice when seeking confirmation of product application. This document has been produced for use by practising Architects and Engineers as a design aid. The responsibility for the use of the data lies entirely with the Architect or Engineer, Contractor or Builder.

In using Fielders products, the user must take into account the various factors that may influence the suitability of its application for a particular project. Some of these factors may include, but are not limited to, the overall building structure, structural type, stability and layout, loads (dead, live, wind, earthquake, accidental damage and impact), fire requirements, environmental factors (including corrosive environments), and other detailing requirements including end bearing and supports, as well as the effect of penetrations and nonrectangular geometry.

Fielders are not responsible for the manner in which purlins and associated products represented in this Design Manual are used in projects, and accordingly, any building certification pertaining to individual projects must be obtained from the Architect and Structural Engineer responsible for the project. If the need arises to use products described within this document outside the guidelines within this or other current technical literature or if any doubt exists over the interpretation of the use of the products, the designer should refer to Fielder's technical representatives for project specific comment and assistance prior to work commencing.

## Fielders Services

For advice regarding the following items, or any other queries relating to the information contained in this brochure please contact Fielders Australia Pty Ltd.

- The BlueScope Steel corrosion warranty, Fielders product performance warranty.
- Advice on improving the life expectancy of the profiles.
- Access to design engineers to assist in the application of the Fielders product.
- Design service for large projects including software analysis.





