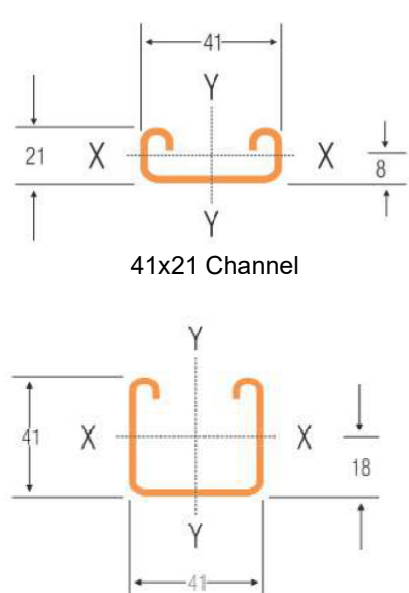


## Strut Product Data Sheet

Product Range	Metal Strut	<p>Image for reference only</p>  <p>41x21 Channel</p> <p>41x41 Channel</p>
Description	Slotted and Plain Strut Channel	
Key Features	<p>1.5mm or 2.5mm options</p> <p>Supplied in lengths of 3m and 6m (2.5mm only)</p> <p>Range of fittings available</p> <p>All Brackets are manufactured from 40x5mm or 40x6mm thick steel that complies with BS EN 1011</p> <p>Brackets have minimum yield stress of 170 N/mm<sup>2</sup></p> <p>All Brackets are 40mm Wide and have 14mm holes to accept M12 setscrews</p>	
Dimensions	<p>41 x 21 x 3m</p> <p>41 x 41 x 3m or 6m options</p>	
Material(s)	<p>1.5mm Pre-Galvanised Mild Steel to BS EN 10326</p> <p>1.5mm and 2.5mm Hot Dip Galvanised after manufacture to BS EN ISO 1461</p>	
Compliance / Standards(s)	<p>CE and UKCA compliant</p> <p>BS 7671:2018</p> <p>BS 6946</p>	
Packaging	Recyclable	

### Plain Channel Loading Characteristics (41x21x1.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.
250	395	2	-	-	-
500	201	2.6	195	108	2039
750	134	5.5	91	51	1162
1000	100	9.6	15.1	29	681
1250	80	15.1	33	52	443
1500	67	22.4	22	12	310
1750	53	24.7	16	10	-
2000	50	41.1	12	7	-
2250	42	51.2	9	8	-
2500	40	68.2	7	4	-
2750	33	78.7	6	3	-
3000	31	105	5	3	-

### Slotted Channel Loading Characteristics (41x21x1.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.
250	395	2	-	-	-
500	201	2.6	195	108	2039
750	134	5.5	91	51	1162
1000	100	9.6	15.1	29	681
1250	80	15.1	33	52	443
1500	67	22.4	22	12	310
1750	53	24.79	16	9	-
2000	50	41.1	12	7	-
2250	42	50.1	10	6	-
2500	40	68.2	7	4	-
2750	33	76.2	6	4	-
3000	31	105	5	3	-

### Plain Channel Loading Characteristics (41x41x1.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.
250	703	2	-	-	3250
500	608	2.3	-	370	3179
750	405	3	-	277	3041
1000	304	4.8	-	175	2732
1250	243	7.4	208	116	2153
1500	203	10.2	146	81	1601
1750	171	13.2	109	59	-
2000	152	18.7	81	45	-
2250	138	21.6	66	36	-
2500	122	28.3	51	29	-
2750	106	31.4	43	24	-
3000	101	41.2	35	19	-

### Slotted Channel Loading Characteristics (41x41x1.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.
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1250	243	7.4	208	116	2153
1500	203	10.2	146	81	1601
1750	171	13.2	109	59	-
2000	152	18.7	81	45	-
2250	138	21.6	66	36	-
2500	122	28.3	51	29	-
2750	106	31.4	43	24	-
3000	101	41.2	35	19	-

### Plain Channel Loading Characteristics (41x21x2.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.	Max. Load of Column Loaded @Slot Face kg.
250	1638	70.23	-	-	5351	1660
500	819	1.05	-	-	5100	1635
750	546	2.35	-	483	4412	1557
1000	409	4.18	-	271	3284	1389
1250	327	6.54	313	174	2436	1211
1500	273	8.41	2.17	120	1899	1062
1750	234	12.81	159	88	1546	941
2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	-	-
3000	136	37.65	54	30	-	-

### Slotted Channel Loading Characteristics (41x21x2.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.	Max. Load of Column Loaded @Slot Face kg.
250	508	0.5	-	-	-	-
500	254	2.01	-	174	-	-
750	169	4.54	139	77	-	-
1000	127	8.07	78	43	-	-
1250	101	12.61	50	27	-	-
1500	84	18.71	34	-	-	-
1750	72	24.73	25	-	-	-
2000	63	32.3	-	-	-	-

### Plain Channel Loading Characteristics (41x41x2.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.	Max. Load of Column Loaded @Slot Face kg.
250	1769	0.23	–	–	5869	1693
500	884	0.95	–	–	5379	1650
750	589	2.15	–	571	4479	1554
1000	442	3.82	–	321	3373	1395
1250	353	5.97	–	205	2556	1232
1500	294	8.6	257	142	2020	1093
1750	252	11.7	188	104	1656	976
2000	221	15.29	144	80	1395	879
2250	196	19.35	114	63	1198	797
2500	176	23.89	92	51	1044	725
2750	160	28.91	76	42	919	663
3000	147	34.4	64	35	816	607

### Slotted Channel Loading Characteristics (41x41x2.5mm)

Span or Column Unsupported Length in mm	Uniform Load at 175N/mm <sup>2</sup> Stress kg	Deflection in mm at 175Nmm <sup>2</sup>	Uniform Load at Max. Deflec. of 1/200th Span kg.	Uniform Load at Max. Deflec. of 1/360th Span kg.	Max. Load of Column Loaded @Centroid kg.	Max. Load of Column Loaded @Slot Face kg.
250	1638	70.23	–	–	5351	1660
500	819	1.05	–	–	5100	1635
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2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	855	631
3000	136	37.65	54	30	761	578

### Sustainability

All Strut and fittings are manufactured from 100% recyclable material.