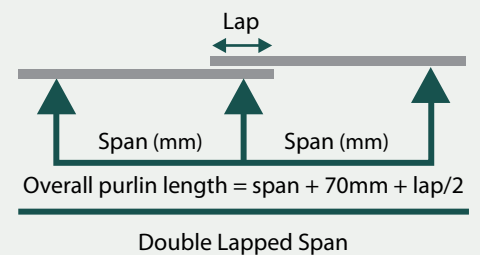


# PURLINS & GIRTS - DOUBLE LAPPED SPAN

SECTION	10010					Def
LOADING	Inward	Outward				
BRIDGING	0,1,2,3	0	1	2	3	
2100	5.32	5.32	5.32	5.32	5.32	11.83
2400	4.07	4.07	4.07	4.07	4.07	7.92
2700	3.22	3.22	3.22	3.22	3.22	5.57
3000	2.61	2.61	2.61	2.61	2.61	4.06
3300	2.15	2.15	2.15	2.15	2.15	3.05
3600	1.81	1.81	1.81	1.81	1.81	2.35
3900	1.54	1.54	1.54	1.54	1.54	1.85
4200	1.33	1.33	1.33	1.33	1.33	1.48
4500	1.16	1.16	1.16	1.16	1.16	1.20
4800	1.02	1.02	1.02	1.02	1.02	0.99
5100	0.90	0.90	0.90	0.90	0.90	0.83
5400	0.80	0.80	0.80	0.80	0.80	0.70
5700	0.72	0.72	0.72	0.72	0.72	0.59

SECTION	10012					Def
LOADING	Inward	Outward				
BRIDGING	0,1,2,3	0	1	2	3	
2100	6.09	6.02	6.09	6.09	6.09	14.78
2400	4.66	4.61	4.66	4.66	4.66	9.90
2700	3.69	3.64	3.69	3.69	3.69	6.95
3000	2.99	2.95	2.99	2.99	2.99	5.07
3300	2.47	2.44	2.47	2.47	2.47	3.81
3600	2.07	2.05	2.07	2.07	2.07	2.93
3900	1.77	1.75	1.77	1.77	1.77	2.31
4200	1.52	1.51	1.52	1.52	1.52	1.85
4500	1.33	1.31	1.33	1.33	1.33	1.50
4800	1.17	1.15	1.17	1.17	1.17	1.24
5100	1.03	1.02	1.03	1.03	1.03	1.03
5400	0.92	0.91	0.92	0.92	0.92	0.87
5700	0.83	0.82	0.83	0.83	0.83	0.74
6000	0.75	0.74	0.75	0.75	0.75	0.63
6300	0.68	0.67	0.68	0.68	0.68	0.55
6600	0.62	0.61	0.62	0.62	0.62	0.48



#### NOTES:

- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
 OUT = outward load capacity.  
 DEF. = Load required to give a deflection of SPAN/150

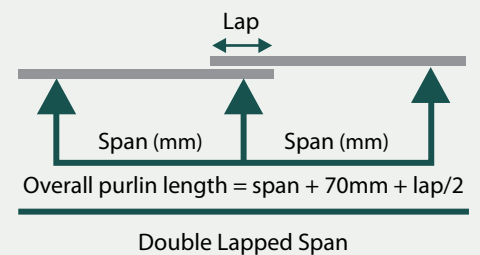
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

SECTION	10015					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
2100	8.15	7.34	8.15	8.15	8.15	18.85
2400	6.24	5.62	6.24	6.24	6.24	12.63
2700	4.93	4.44	4.93	4.93	4.93	8.87
3000	3.99	3.60	3.99	3.99	3.99	6.47
3300	3.30	2.97	3.30	3.30	3.30	4.86
3600	2.77	2.50	2.77	2.77	2.77	3.74
3900	2.36	2.13	2.36	2.36	2.36	2.94
4200	2.04	1.84	2.04	2.04	2.04	2.36
4500	1.77	1.60	1.77	1.77	1.77	1.92
4800	1.56	1.41	1.56	1.56	1.56	1.58
5100	1.38	1.24	1.38	1.38	1.38	1.32
5400	1.23	1.11	1.23	1.23	1.23	1.11
5700	1.11	1.00	1.11	1.11	1.11	0.94
6000	1.00	0.90	1.00	1.00	1.00	0.81
6300	0.91	0.82	0.91	0.91	0.91	0.70
6600	0.82	0.74	0.82	0.82	0.82	0.61
6900	0.75	0.68	0.75	0.75	0.75	0.53
7200	0.69	0.62	0.69	0.69	0.69	0.47
7500	0.64	0.58	0.64	0.64	0.64	0.41

SECTION	10019					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
2700	6.30	5.56	6.30	7.05	7.05	11.11
3000	5.11	4.51	5.11	5.71	5.71	8.10
3300	4.22	3.72	4.22	4.72	4.72	6.09
3600	3.55	3.13	3.55	3.96	3.96	4.69
3900	3.02	2.67	3.02	3.38	3.38	3.69
4200	2.61	2.30	2.61	2.91	2.91	2.95
4500	2.27	2.00	2.27	2.54	2.54	2.40
4800	1.99	1.76	1.99	2.23	2.23	1.98
5100	1.77	1.56	1.77	1.98	1.98	1.65
5400	1.58	1.39	1.58	1.76	1.76	1.39
5700	1.41	1.25	1.41	1.58	1.58	1.18
6000	1.28	1.13	1.28	1.43	1.43	1.01
6300	1.16	1.02	1.16	1.29	1.29	0.87
6600	1.06	0.93	1.06	1.18	1.18	0.76
6900	0.97	0.85	0.97	1.08	1.08	0.67
7200	0.89	0.78	0.89	0.99	0.99	0.59
7500	0.82	0.72	0.82	0.91	0.91	0.52
7800	0.76	0.67	0.76	0.84	0.84	0.46
8100	0.70	0.62	0.70	0.78	0.78	0.41
8400	0.65	0.57	0.65	0.73	0.73	0.37
8700	0.61	0.54	0.61	0.68	0.68	0.33
9000	0.57	0.50	0.57	0.63	0.63	0.30



#### NOTES:

1. The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method

2. Following values of Fy considered for calculating the ultimate loads

- 1.0 mm BMT Grade AS1397/G550 Z350 - Fy = **550 Mpa**

- 1.2 mm BMT Grade AS1397/G500 Z350 - Fy = **500 Mpa**

- 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 - Fy = **450 Mpa**

3. The loads have been based on the use of approved Metroll sections & bridging systems.

4. The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).

5. IN = Inward load capacity.  
 OUT = outward load capacity.  
 DEF. = Load required to give a deflection of SPAN/150

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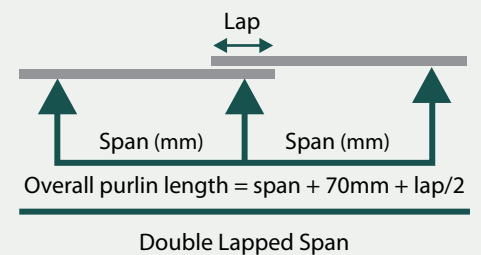
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

SECTION	15019					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3000	10.30	9.09	10.30	10.41	10.41	24.24
3300	8.52	7.51	8.52	8.61	8.61	18.21
3600	7.16	6.31	7.16	7.23	7.23	14.03
3900	6.10	5.38	6.10	6.16	6.16	11.03
4200	5.26	4.64	5.26	5.31	5.31	8.83
4500	4.58	4.04	4.58	4.63	4.63	7.18
4800	4.02	3.55	4.02	4.07	4.07	5.92
5100	3.57	3.15	3.57	3.60	3.60	4.93
5400	3.18	2.81	3.18	3.21	3.21	4.16
5700	2.85	2.52	2.85	2.88	2.88	3.53
6000	2.58	2.27	2.58	2.60	2.60	3.03
6300	2.34	2.06	2.34	2.36	2.36	2.62
6600	2.13	1.88	2.13	2.15	2.15	2.28
6900	1.95	1.72	1.95	1.97	1.97	1.99
7200	1.79	1.58	1.79	1.81	1.81	1.75
7500	1.65	1.45	1.65	1.67	1.67	1.55
7800	1.52	1.34	1.52	1.54	1.54	1.38
8100	1.41	1.25	1.41	1.43	1.43	1.23
8400	1.31	1.16	1.31	1.33	1.33	1.10
8700	1.23	1.08	1.23	1.24	1.24	0.99
9000	1.14	1.01	1.14	1.16	1.16	0.90



#### NOTES:

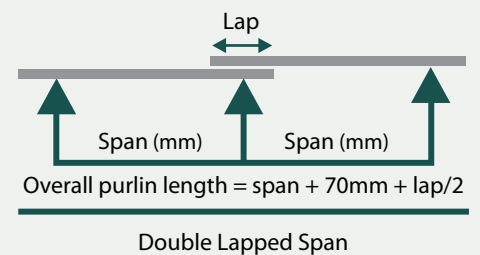
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL150-Double Spans(Lapped) for Z150 Sections - Limit state capacity (kN/m)						
SECTION	15024					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3000	12.87	11.36	12.87	14.39	14.39	30.47
3300	10.64	9.39	10.64	11.89	11.89	22.89
3600	8.94	7.89	8.94	9.99	9.99	17.63
3900	7.62	6.72	7.62	8.51	8.51	13.87
4200	6.57	5.79	6.57	7.34	7.34	11.10
4500	5.72	5.05	5.72	6.39	6.39	9.03
4800	5.03	4.44	5.03	5.62	5.62	7.44
5100	4.45	3.93	4.45	4.98	4.98	6.20
5400	3.97	3.51	3.97	4.44	4.44	5.22
5700	3.57	3.15	3.57	3.98	3.98	4.44
6000	3.22	2.84	3.22	3.60	3.60	3.81
6300	2.92	2.58	2.92	3.26	3.26	3.29
6600	2.66	2.35	2.66	2.97	2.97	2.86
6900	2.43	2.15	2.43	2.72	2.72	2.50
7200	2.23	1.97	2.23	2.50	2.50	2.20
7500	2.06	1.82	2.06	2.30	2.30	1.95
7800	1.90	1.68	1.90	2.13	2.13	1.73
8100	1.77	1.56	1.77	1.97	1.97	1.55
8400	1.64	1.45	1.64	1.83	1.83	1.39
8700	1.53	1.35	1.53	1.71	1.71	1.25
9000	1.43	1.26	1.43	1.60	1.60	1.13
9300	1.34	1.18	1.34	1.50	1.50	1.02
9600	1.26	1.11	1.26	1.40	1.40	0.93
9900	1.18	1.04	1.18	1.32	1.32	0.85
10200	1.11	0.98	1.11	1.24	1.24	0.78
10500	1.05	0.93	1.05	1.17	1.17	0.71
10800	0.99	0.88	0.99	1.11	1.11	0.65
11100	0.94	0.83	0.94	1.05	1.05	0.60
11400	0.89	0.79	0.89	1.00	1.00	0.56
11700	0.85	0.75	0.85	0.95	0.95	0.51
12000	0.80	0.71	0.80	0.90	0.90	0.48



#### NOTES:

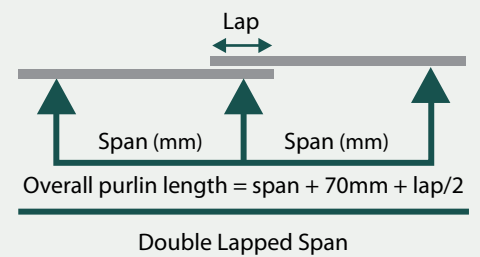
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
OUT = outward load capacity.  
DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL200-Double Spans(Lapped) for Z200 Sections - Limit state capacity (kN/m)						
SECTION	20015					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3000	8.90	8.90	8.90	8.90	8.90	39.61
3300	7.64	7.64	7.64	7.64	7.64	29.76
3600	6.42	5.94	6.42	6.42	6.42	22.92
3900	5.47	5.06	5.47	5.47	5.47	18.03
4200	4.71	4.36	4.71	4.71	4.71	14.44
4500	4.11	3.80	4.11	4.11	4.11	11.74
4800	3.61	3.34	3.61	3.61	3.61	9.67
5100	3.20	2.96	3.20	3.20	3.20	8.06
5400	2.85	2.64	2.85	2.85	2.85	6.79
5700	2.56	2.37	2.56	2.56	2.56	5.78
6000	2.31	2.14	2.31	2.31	2.31	4.95
6300	2.10	1.94	2.10	2.10	2.10	4.28
6600	1.91	1.77	1.91	1.91	1.91	3.72
6900	1.75	1.62	1.75	1.75	1.75	3.26
7200	1.60	1.48	1.60	1.60	1.60	2.87
7500	1.48	1.37	1.48	1.48	1.48	2.54
7800	1.37	1.26	1.37	1.37	1.37	2.25
8100	1.27	1.17	1.27	1.27	1.27	2.01
8400	1.18	1.09	1.18	1.18	1.18	1.80
8700	1.10	1.02	1.10	1.10	1.10	1.62
9000	1.03	0.95	1.03	1.03	1.03	1.47
9300	0.96	0.89	0.96	0.96	0.96	1.33
9600	0.90	0.84	0.90	0.90	0.90	1.21
9900	0.85	0.79	0.85	0.85	0.85	1.10
10200	0.80	0.74	0.80	0.80	0.80	1.01
10500	0.75	0.70	0.75	0.75	0.75	0.92
10800	0.71	0.66	0.71	0.71	0.71	0.85
10200	0.64	0.64	0.64	0.64	0.64	1.01
10500	0.61	0.61	0.61	0.61	0.61	0.92
10800	0.57	0.57	0.57	0.57	0.57	0.85



#### NOTES:

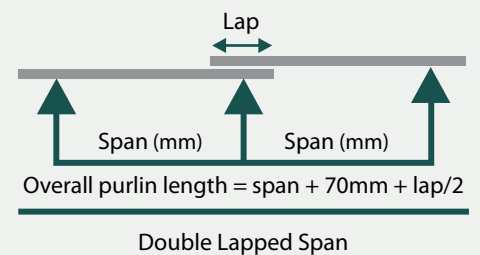
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL200-Double Spans(Lapped) for Z200 Sections - Limit state capacity (kN/m)						
SECTION	20019					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3000	14.01	11.71	13.66	14.01	14.01	52.94
3300	11.57	9.68	11.29	11.57	11.57	39.78
3600	9.73	8.13	9.49	9.73	9.73	30.64
3900	8.29	6.93	8.08	8.29	8.29	24.10
4200	7.15	5.97	6.97	7.15	7.15	19.29
4500	6.22	5.20	6.07	6.22	6.22	15.69
4800	5.47	4.57	5.34	5.47	5.47	12.93
5100	4.85	4.05	4.73	4.85	4.85	10.78
5400	4.32	3.61	4.22	4.32	4.32	9.08
5700	3.88	3.24	3.78	3.88	3.88	7.72
6000	3.50	2.93	3.42	3.50	3.50	6.62
6300	3.18	2.66	3.10	3.18	3.18	5.72
6600	2.89	2.42	2.82	2.89	2.89	4.97
6900	2.65	2.21	2.58	2.65	2.65	4.35
7200	2.43	2.03	2.37	2.43	2.43	3.83
7500	2.24	1.87	2.19	2.24	2.24	3.39
7800	2.07	1.73	2.02	2.07	2.07	3.01
8100	1.92	1.61	1.87	1.92	1.92	2.69
8400	1.79	1.49	1.74	1.79	1.79	2.41
8700	1.67	1.39	1.62	1.67	1.67	2.17
9000	1.56	1.30	1.52	1.56	1.56	1.96
9300	1.46	1.22	1.42	1.46	1.46	1.78
9600	1.37	1.14	1.33	1.37	1.37	1.62
9900	1.29	1.08	1.25	1.29	1.29	1.47
10200	1.21	1.01	1.18	1.21	1.21	1.35
10500	1.14	0.96	1.12	1.14	1.14	1.23
10800	1.08	0.90	1.05	1.08	1.08	1.13
11100	1.02	0.86	1.00	1.02	1.02	1.05
11400	0.97	0.81	0.95	0.97	0.97	0.96
11700	0.92	0.77	0.90	0.92	0.92	0.89
12000	0.88	0.73	0.85	0.88	0.88	0.83



#### NOTES:

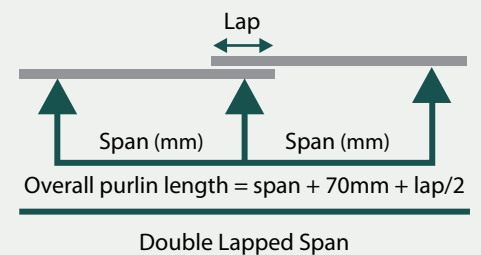
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- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
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OUT = outward load capacity.  
DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL200-Double Spans(Lapped) for Z200 Sections - Limit state capacity (kN/m)						
SECTION	20024					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3600	13.46	10.69	12.47	13.46	13.46	39.72
3900	11.47	9.11	10.62	11.47	11.47	31.24
4200	9.89	7.85	9.16	9.89	9.89	25.02
4500	8.61	6.84	7.98	8.61	8.61	20.34
4800	7.57	6.01	7.01	7.57	7.57	16.76
5100	6.71	5.32	6.21	6.71	6.71	13.97
5400	5.98	4.75	5.54	5.98	5.98	11.77
5700	5.37	4.26	4.97	5.37	5.37	10.01
6000	4.85	3.85	4.49	4.85	4.85	8.58
6300	4.39	3.49	4.07	4.39	4.39	7.41
6600	4.00	3.18	3.71	4.00	4.00	6.45
6900	3.66	2.91	3.39	3.66	3.66	5.64
7200	3.36	2.67	3.12	3.36	3.36	4.97
7500	3.10	2.46	2.87	3.10	3.10	4.39
7800	2.87	2.28	2.66	2.87	2.87	3.91
8100	2.66	2.11	2.46	2.66	2.66	3.49
8400	2.47	1.96	2.29	2.47	2.47	3.13
8700	2.30	1.83	2.13	2.30	2.30	2.81
9000	2.15	1.71	1.99	2.15	2.15	2.54
9300	2.02	1.60	1.87	2.02	2.02	2.30
9600	1.89	1.50	1.75	1.89	1.89	2.09
9900	1.78	1.41	1.65	1.78	1.78	1.91
10200	1.68	1.33	1.55	1.68	1.68	1.75
10500	1.58	1.26	1.47	1.58	1.58	1.60
10800	1.50	1.19	1.39	1.50	1.50	1.47
11100	1.42	1.12	1.31	1.42	1.42	1.36
11400	1.34	1.07	1.24	1.34	1.34	1.25
11700	1.27	1.01	1.18	1.27	1.27	1.16
12000	1.21	0.96	1.12	1.21	1.21	1.07



#### NOTES:

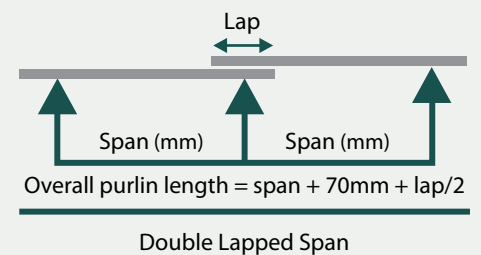
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
OUT = outward load capacity.  
DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL250-Double Spans(Lapped) for Z250 Sections - Limit state capacity (kN/m)						
SECTION	25019					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
3600	11.34	11.03	11.34	11.34	11.34	51.82
3900	9.66	9.40	9.66	9.66	9.66	40.76
4200	8.33	8.10	8.33	8.33	8.33	32.63
4500	7.26	7.06	7.26	7.26	7.26	26.53
4800	6.38	6.20	6.38	6.38	6.38	21.86
5100	5.65	5.50	5.65	5.65	5.65	18.23
5400	5.04	4.90	5.04	5.04	5.04	15.35
5700	4.52	4.40	4.52	4.52	4.52	13.06
6000	4.08	3.97	4.08	4.08	4.08	11.19
6300	3.70	3.60	3.70	3.70	3.70	9.67
6600	3.37	3.28	3.37	3.37	3.37	8.41
6900	3.09	3.00	3.09	3.09	3.09	7.36
7200	2.83	2.76	2.83	2.83	2.83	6.48
7500	2.61	2.54	2.61	2.61	2.61	5.73
7800	2.42	2.35	2.42	2.42	2.42	5.09
8100	2.24	2.18	2.24	2.24	2.24	4.55
8400	2.08	2.03	2.08	2.08	2.08	4.08
8700	1.94	1.89	1.94	1.94	1.94	3.67
9000	1.81	1.76	1.81	1.81	1.81	3.32
9300	1.70	1.65	1.70	1.70	1.70	3.01
9600	1.59	1.55	1.59	1.59	1.59	2.73
9900	1.50	1.46	1.50	1.50	1.50	2.49
10200	1.41	1.37	1.41	1.41	1.41	2.28
10500	1.33	1.30	1.33	1.33	1.33	2.09
10800	1.26	1.23	1.26	1.26	1.26	1.92
11100	1.19	1.16	1.19	1.19	1.19	1.77
11400	1.13	1.10	1.13	1.13	1.13	1.63
11700	1.07	1.04	1.07	1.07	1.07	1.51
12000	1.02	0.99	1.02	1.02	1.02	1.40



#### NOTES:

- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
OUT = outward load capacity.  
DEF. = Load required to give a deflection of SPAN/150

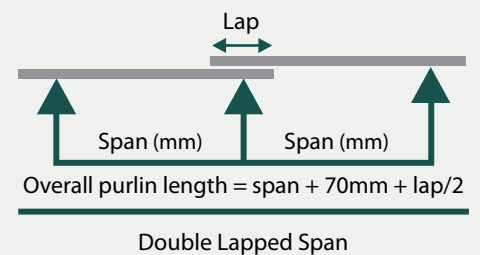
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL250-Double Spans(Lapped) for Z250 Sections - Limit state capacity (kN/m)						
SECTION	25024					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
4500	11.10	9.26	10.81	11.10	11.10	34.41
4800	9.76	8.14	9.50	9.76	9.76	28.35
5100	8.65	7.21	8.41	8.65	8.65	23.64
5400	7.71	6.43	7.51	7.71	7.71	19.91
5700	6.92	5.77	6.74	6.92	6.92	16.93
6000	6.25	5.21	6.08	6.25	6.25	14.52
6300	5.67	4.73	5.51	5.67	5.67	12.54
6600	5.16	4.31	5.02	5.16	5.16	10.91
6900	4.72	3.94	4.60	4.72	4.72	9.54
7200	4.34	3.62	4.22	4.34	4.34	8.40
7500	4.00	3.33	3.89	4.00	4.00	7.43
7800	3.70	3.08	3.60	3.70	3.70	6.61
8100	3.43	2.86	3.34	3.43	3.43	5.90
8400	3.19	2.66	3.10	3.19	3.19	5.29
8700	2.97	2.48	2.89	2.97	2.97	4.76
9000	2.78	2.32	2.70	2.78	2.78	4.30
9300	2.60	2.17	2.53	2.60	2.60	3.90
9600	2.44	2.04	2.37	2.44	2.44	3.54
9900	2.29	1.91	2.23	2.29	2.29	3.23
10200	2.16	1.80	2.10	2.16	2.16	2.95
10500	2.04	1.70	1.99	2.04	2.04	2.71
10800	1.93	1.61	1.88	1.93	1.93	2.49
11100	1.82	1.52	1.78	1.82	1.82	2.29
11400	1.73	1.44	1.68	1.73	1.73	2.12
11700	1.64	1.37	1.60	1.64	1.64	1.96
12000	1.56	1.30	1.52	1.56	1.56	1.81
12300	1.49	1.24	1.45	1.49	1.49	1.68
12600	1.42	1.18	1.38	1.42	1.42	1.57
12900	1.35	1.13	1.32	1.35	1.35	1.46
13200	1.29	1.08	1.26	1.29	1.29	1.36
13500	1.23	1.03	1.20	1.23	1.23	1.27
13800	1.18	0.99	1.15	1.18	1.18	1.19
14100	1.13	0.94	1.10	1.13	1.13	1.12
14400	1.08	0.90	1.06	1.08	1.08	1.05
14700	1.04	0.87	1.01	1.04	1.04	0.99
15000	1.00	0.83	0.97	1.00	1.00	0.93
15300	0.96	0.80	0.93	0.96	0.96	0.88
15600	0.92	0.77	0.90	0.92	0.92	0.83
15900	0.89	0.74	0.87	0.89	0.89	0.78
16200	0.86	0.71	0.83	0.86	0.86	0.74
16500	0.83	0.69	0.80	0.83	0.83	0.70
16800	0.80	0.66	0.78	0.80	0.80	0.66
17100	0.77	0.64	0.75	0.77	0.77	0.63
17400	0.74	0.62	0.72	0.74	0.74	0.60
17700	0.72	0.60	0.70	0.72	0.72	0.57
18000	0.69	0.58	0.68	0.69	0.69	0.54



#### NOTES:

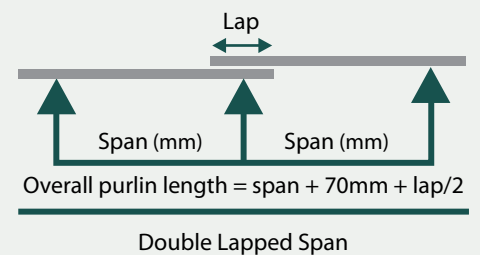
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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DEF. = Load required to give a deflection of  $SPAN/150$

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL300-Double Spans(Lapped) for Z300 Sections - Limit state capacity (kN/m)						
SECTION	30024					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
6000	8.44	7.42	8.44	8.44	8.44	24.82
6300	7.66	6.73	7.66	7.66	7.66	21.44
6600	6.98	6.13	6.98	6.98	6.98	18.65
6900	6.38	5.61	6.38	6.38	6.38	16.32
7200	5.86	5.15	5.86	5.86	5.86	14.36
7500	5.40	4.75	5.40	5.40	5.40	12.71
7800	5.00	4.39	5.00	5.00	5.00	11.30
8100	4.63	4.07	4.63	4.63	4.63	10.09
8400	4.31	3.79	4.31	4.31	4.31	9.05
8700	4.02	3.53	4.02	4.02	4.02	8.14
9000	3.75	3.30	3.75	3.75	3.75	7.35
9300	3.51	3.09	3.51	3.51	3.51	6.67
9600	3.30	2.90	3.30	3.30	3.30	6.06
9900	3.10	2.73	3.10	3.10	3.10	5.53
10200	2.92	2.57	2.92	2.92	2.92	5.05
10500	2.76	2.42	2.76	2.76	2.76	4.63
10800	2.61	2.29	2.61	2.61	2.61	4.26
11100	2.47	2.17	2.47	2.47	2.47	3.92
11400	2.34	2.06	2.34	2.34	2.34	3.62
11700	2.22	1.95	2.22	2.22	2.22	3.35
12000	2.11	1.86	2.11	2.11	2.11	3.10
12300	2.01	1.77	2.01	2.01	2.01	2.88
12600	1.91	1.68	1.91	1.91	1.91	2.68
12900	1.83	1.61	1.83	1.83	1.83	2.50
13200	1.74	1.53	1.74	1.74	1.74	2.33
13500	1.67	1.47	1.67	1.67	1.67	2.18
13800	1.60	1.40	1.60	1.60	1.60	2.04
14100	1.53	1.34	1.53	1.53	1.53	1.91
14400	1.47	1.29	1.47	1.47	1.47	1.80
14700	1.41	1.24	1.41	1.41	1.41	1.69
15000	1.35	1.19	1.35	1.35	1.35	1.59
15300	1.30	1.14	1.30	1.30	1.30	1.50
15600	1.25	1.10	1.25	1.25	1.25	1.41
15900	1.20	1.06	1.20	1.20	1.20	1.33
16200	1.16	1.02	1.16	1.16	1.16	1.26
16500	1.12	0.98	1.12	1.12	1.12	1.19
16800	1.08	0.95	1.08	1.08	1.08	1.13
17100	1.04	0.91	1.04	1.04	1.04	1.07
17400	1.00	0.88	1.00	1.00	1.00	1.02
17700	0.97	0.85	0.97	0.97	0.97	0.97
18000	0.94	0.82	0.94	0.94	0.94	0.92



#### NOTES:

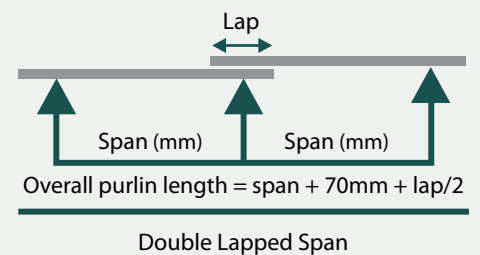
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL300-Double Spans(Lapped) for Z300 Sections - Limit state capacity (kN/m)						
SECTION	30030					Def
LOADING	Inward	Outward				
BRIDGING	0,1,2,3	0	1	2	3	
6000	12.20	9.78	11.40	12.20	12.20	32.14
6300	11.07	8.87	10.34	11.07	11.07	27.76
6600	10.09	8.08	9.43	10.09	10.09	24.14
6900	9.23	7.39	8.62	9.23	9.23	21.13
7200	8.48	6.79	7.92	8.48	8.48	18.60
7500	7.81	6.26	7.30	7.81	7.81	16.45
7800	7.22	5.78	6.75	7.22	7.22	14.63
8100	6.70	5.36	6.26	6.70	6.70	13.06
8400	6.23	4.99	5.82	6.23	6.23	11.71
8700	5.80	4.65	5.42	5.80	5.80	10.54
9000	5.42	4.34	5.07	5.42	5.42	9.52
9300	5.08	4.07	4.75	5.08	5.08	8.63
9600	4.77	3.82	4.45	4.77	4.77	7.85
9900	4.48	3.59	4.19	4.48	4.48	7.15
10200	4.22	3.38	3.95	4.22	4.22	6.54
10500	3.99	3.19	3.72	3.99	3.99	6.00
10800	3.77	3.02	3.52	3.77	3.77	5.51
11100	3.57	2.86	3.33	3.57	3.57	5.08
11400	3.38	2.71	3.16	3.38	3.38	4.69
11700	3.21	2.57	3.00	3.21	3.21	4.33
12000	3.05	2.44	2.85	3.05	3.05	4.02
12300	2.90	2.33	2.71	2.90	2.90	3.73
12600	2.77	2.22	2.59	2.77	2.77	3.47
12900	2.64	2.11	2.47	2.64	2.64	3.23
13200	2.52	2.02	2.36	2.52	2.52	3.02
13500	2.41	1.93	2.25	2.41	2.41	2.82
13800	2.31	1.85	2.16	2.31	2.31	2.64
14100	2.21	1.77	2.07	2.21	2.21	2.48
14400	2.12	1.70	1.98	2.12	2.12	2.32
14700	2.03	1.63	1.90	2.03	2.03	2.19
15000	1.95	1.56	1.82	1.95	1.95	2.06
15300	1.88	1.50	1.75	1.88	1.88	1.94
15600	1.81	1.45	1.69	1.81	1.81	1.83
15900	1.74	1.39	1.62	1.74	1.74	1.73
16200	1.67	1.34	1.56	1.67	1.67	1.63
16500	1.61	1.29	1.51	1.61	1.61	1.55
16800	1.56	1.25	1.45	1.56	1.56	1.46
17100	1.50	1.20	1.40	1.50	1.50	1.39
17400	1.45	1.16	1.36	1.45	1.45	1.32
17700	1.40	1.12	1.31	1.40	1.40	1.25
18000	1.36	1.09	1.27	1.36	1.36	1.19



#### NOTES:

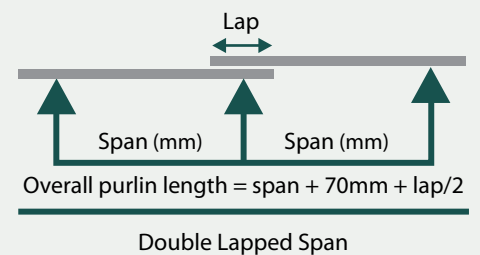
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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DEF. = Load required to give a deflection of SPAN/150

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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL350-Double Spans(Lapped) for Z350 Sections - Limit state capacity (kN/m)						
SECTION	35030					Def
LOADING	Inward	Outward			0	
BRIDGING	0,1,2,3	1	2	3		
6000	14.52	13.11	14.52	14.52	14.52	51.56
6300	13.17	11.89	13.17	13.17	13.17	44.54
6600	12.00	10.83	12.00	12.00	12.00	38.73
6900	10.98	9.91	10.98	10.98	10.98	33.90
7200	10.08	9.10	10.08	10.08	10.08	29.84
7500	9.29	8.39	9.29	9.29	9.29	26.40
7800	8.59	7.76	8.59	8.59	8.59	23.47
8100	7.97	7.19	7.97	7.97	7.97	20.95
8400	7.41	6.69	7.41	7.41	7.41	18.79
8700	6.91	6.23	6.91	6.91	6.91	16.91
9000	6.45	5.83	6.45	6.45	6.45	15.28
9300	6.04	5.46	6.04	6.04	6.04	13.84
9600	5.67	5.12	5.67	5.67	5.67	12.59
9900	5.33	4.81	5.33	5.33	5.33	11.48
10200	5.02	4.54	5.02	5.02	5.02	10.49
10500	4.74	4.28	4.74	4.74	4.74	9.62
10800	4.48	4.05	4.48	4.48	4.48	8.84
11100	4.24	3.83	4.24	4.24	4.24	8.14
11400	4.02	3.63	4.02	4.02	4.02	7.52
11700	3.82	3.45	3.82	3.82	3.82	6.95
12000	3.63	3.28	3.63	3.63	3.63	6.44
12300	3.45	3.12	3.45	3.45	3.45	5.98
12600	3.29	2.97	3.29	3.29	3.29	5.57
12900	3.14	2.84	3.14	3.14	3.14	5.19
13200	3.00	2.71	3.00	3.00	3.00	4.84
13500	2.87	2.59	2.87	2.87	2.87	4.53
13800	2.74	2.48	2.74	2.74	2.74	4.24
14100	2.63	2.37	2.63	2.63	2.63	3.97
14400	2.52	2.28	2.52	2.52	2.52	3.73
14700	2.42	2.18	2.42	2.42	2.42	3.51
15000	2.32	2.10	2.32	2.32	2.32	3.30
15300	2.23	2.02	2.23	2.23	2.23	3.11
15600	2.15	1.94	2.15	2.15	2.15	2.93
15900	2.07	1.87	2.07	2.07	2.07	2.77
16200	1.99	1.80	1.99	1.99	1.99	2.62
16500	1.92	1.73	1.92	1.92	1.92	2.48
16800	1.85	1.67	1.85	1.85	1.85	2.35
17100	1.79	1.61	1.79	1.79	1.79	2.23
17400	1.73	1.56	1.73	1.73	1.73	2.11
17700	1.67	1.51	1.67	1.67	1.67	2.01
18000	1.61	1.46	1.61	1.61	1.61	1.91



#### NOTES:

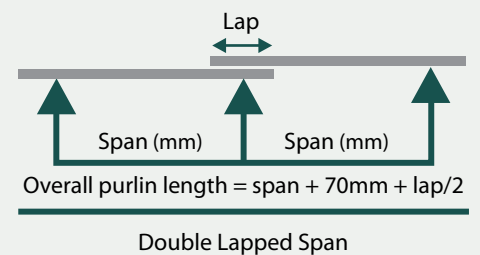
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL350-Double Spans(Lapped) for Z350 Sections - Limit state capacity (kN/m)						
SECTION	35024					Def
LOADING	Inward	Outward				
BRIDGING	0,1,2,3	0	1	2	3	
6000	10.12	10.01	10.12	10.12	10.12	40.25
6300	9.18	9.08	9.18	9.18	9.18	34.77
6600	8.37	8.27	8.37	8.37	8.37	30.24
6900	7.65	7.57	7.65	7.65	7.65	26.46
7200	7.03	6.95	7.03	7.03	7.03	23.29
7500	6.48	6.41	6.48	6.48	6.48	20.61
7800	5.99	5.92	5.99	5.99	5.99	18.32
8100	5.55	5.49	5.55	5.55	5.55	16.36
8400	5.16	5.11	5.16	5.16	5.16	14.67
8700	4.81	4.76	4.81	4.81	4.81	13.20
9000	4.50	4.45	4.50	4.50	4.50	11.93
9300	4.21	4.17	4.21	4.21	4.21	10.81
9600	3.95	3.91	3.95	3.95	3.95	9.83
9900	3.72	3.68	3.72	3.72	3.72	8.96
10200	3.50	3.46	3.50	3.50	3.50	8.19
10500	3.31	3.27	3.31	3.31	3.31	7.51
10800	3.12	3.09	3.12	3.12	3.12	6.90
11100	2.96	2.92	2.96	2.96	2.96	6.36
11400	2.80	2.77	2.80	2.80	2.80	5.87
11700	2.66	2.63	2.66	2.66	2.66	5.43
12000	2.53	2.50	2.53	2.53	2.53	5.03
12300	2.41	2.38	2.41	2.41	2.41	4.67
12600	2.30	2.27	2.30	2.30	2.30	4.35
12900	2.19	2.17	2.19	2.19	2.19	4.05
13200	2.09	2.07	2.09	2.09	2.09	3.78
13500	2.00	1.98	2.00	2.00	2.00	3.53
13800	1.91	1.89	1.91	1.91	1.91	3.31
14100	1.83	1.81	1.83	1.83	1.83	3.10
14400	1.76	1.74	1.76	1.76	1.76	2.91
14700	1.69	1.67	1.69	1.69	1.69	2.74
15000	1.62	1.60	1.62	1.62	1.62	2.58
15300	1.56	1.54	1.56	1.56	1.56	2.43
15600	1.50	1.48	1.50	1.50	1.50	2.29
15900	1.44	1.43	1.44	1.44	1.44	2.16
16200	1.39	1.37	1.39	1.39	1.39	2.04
16500	1.34	1.32	1.34	1.34	1.34	1.94
16800	1.29	1.28	1.29	1.29	1.29	1.83
17100	1.25	1.23	1.25	1.25	1.25	1.74
17400	1.20	1.19	1.20	1.20	1.20	1.65
17700	1.16	1.15	1.16	1.16	1.16	1.57
18000	1.12	1.11	1.12	1.12	1.12	1.49



#### NOTES:

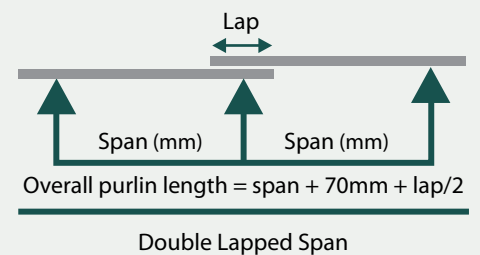
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL400-Double Spans(Lapped) for Z400 Sections - Limit state capacity (kN/m)						
SECTION	40024					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
40.25	11.26	11.26	11.26	11.26	11.26	55.24
34.77	10.22	10.22	10.22	10.22	10.22	47.72
30.24	9.31	9.31	9.31	9.31	9.31	41.50
26.46	8.52	8.52	8.52	8.52	8.52	36.32
23.29	7.82	7.82	7.82	7.82	7.82	31.97
20.61	7.21	7.21	7.21	7.21	7.21	28.28
18.32	6.66	6.66	6.66	6.66	6.66	25.14
16.36	6.18	6.18	6.18	6.18	6.18	22.45
14.67	5.75	5.75	5.75	5.75	5.75	20.13
13.20	5.36	5.36	5.36	5.36	5.36	18.12
11.93	5.01	5.01	5.01	5.01	5.01	16.37
10.81	4.69	4.69	4.69	4.69	4.69	14.83
9.83	4.40	4.40	4.40	4.40	4.40	13.49
8.96	4.14	4.14	4.14	4.14	4.14	12.30
8.19	3.90	3.90	3.90	3.90	3.90	11.24
7.51	3.68	3.68	3.68	3.68	3.68	10.31
6.90	3.48	3.48	3.48	3.48	3.48	9.47
6.36	3.29	3.29	3.29	3.29	3.29	8.72
5.87	3.12	3.12	3.12	3.12	3.12	8.05
5.43	2.96	2.96	2.96	2.96	2.96	7.45
5.03	2.82	2.82	2.82	2.82	2.82	6.91
4.67	2.68	2.68	2.68	2.68	2.68	6.41
4.35	2.55	2.55	2.55	2.55	2.55	5.96
4.05	2.44	2.44	2.44	2.44	2.44	5.56
3.78	2.33	2.33	2.33	2.33	2.33	5.19
3.53	2.22	2.22	2.22	2.22	2.22	4.85
3.31	2.13	2.13	2.13	2.13	2.13	4.54
3.10	2.04	2.04	2.04	2.04	2.04	4.26
2.91	1.96	1.96	1.96	1.96	1.96	4.00
2.74	1.88	1.88	1.88	1.88	1.88	3.76
2.58	1.80	1.80	1.80	1.80	1.80	3.54
2.43	1.73	1.73	1.73	1.73	1.73	3.33
2.29	1.67	1.67	1.67	1.67	1.67	3.14
2.16	1.60	1.60	1.60	1.60	1.60	2.97
2.04	1.55	1.55	1.55	1.55	1.55	2.81
1.94	1.49	1.49	1.49	1.49	1.49	2.66
1.83	1.44	1.44	1.44	1.44	1.44	2.52
1.74	1.39	1.39	1.39	1.39	1.39	2.39
1.65	1.34	1.34	1.34	1.34	1.34	2.27
1.57	1.29	1.29	1.29	1.29	1.29	2.15
1.49	1.25	1.25	1.25	1.25	1.25	2.05



#### NOTES:

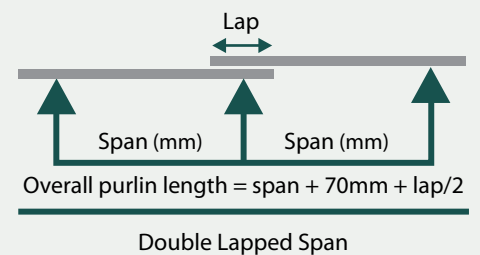
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table DL400-Double Spans(Lapped) for Z400 Sections - Limit state capacity (kN/m)						
SECTION	40030					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
6000	17.15	15.88	17.15	17.15	17.15	71.17
6300	15.55	14.40	15.55	15.55	15.55	61.48
6600	14.17	13.12	14.17	14.17	14.17	53.47
6900	12.97	12.01	12.97	12.97	12.97	46.80
7200	11.91	11.03	11.91	11.91	11.91	41.19
7500	10.97	10.16	10.97	10.97	10.97	36.44
7800	10.15	9.40	10.15	10.15	10.15	32.39
8100	9.41	8.71	9.41	9.41	9.41	28.93
8400	8.75	8.10	8.75	8.75	8.75	25.94
8700	8.16	7.55	8.16	8.16	8.16	23.34
9000	7.62	7.06	7.62	7.62	7.62	21.09
9300	7.14	6.61	7.14	7.14	7.14	19.11
9600	6.70	6.20	6.70	6.70	6.70	17.38
9900	6.30	5.83	6.30	6.30	6.30	15.84
10200	5.93	5.49	5.93	5.93	5.93	14.49
10500	5.60	5.19	5.60	5.60	5.60	13.28
10800	5.29	4.90	5.29	5.29	5.29	12.20
11100	5.01	4.64	5.01	5.01	5.01	11.24
11400	4.75	4.40	4.75	4.75	4.75	10.38
11700	4.51	4.18	4.51	4.51	4.51	9.60
12000	4.29	3.97	4.29	4.29	4.29	8.90
12300	4.08	3.78	4.08	4.08	4.08	8.26
12600	3.89	3.60	3.89	3.89	3.89	7.68
12900	3.71	3.44	3.71	3.71	3.71	7.16
13200	3.54	3.28	3.54	3.54	3.54	6.68
13500	3.39	3.14	3.39	3.39	3.39	6.25
13800	3.24	3.00	3.24	3.24	3.24	5.85
14100	3.10	2.88	3.10	3.10	3.10	5.48
14400	2.98	2.76	2.98	2.98	2.98	5.15
14700	2.86	2.65	2.86	2.86	2.86	4.84
15000	2.74	2.54	2.74	2.74	2.74	4.55
15300	2.64	2.44	2.64	2.64	2.64	4.29
15600	2.54	2.35	2.54	2.54	2.54	4.05
15900	2.44	2.26	2.44	2.44	2.44	3.82
16200	2.35	2.18	2.35	2.35	2.35	3.62
16500	2.27	2.10	2.27	2.27	2.27	3.42
16800	2.19	2.03	2.19	2.19	2.19	3.24
17100	2.11	1.95	2.11	2.11	2.11	3.07
17400	2.04	1.89	2.04	2.04	2.04	2.92
17700	1.97	1.82	1.97	1.97	1.97	2.77
18000	1.91	1.76	1.91	1.91	1.91	2.64



#### NOTES:

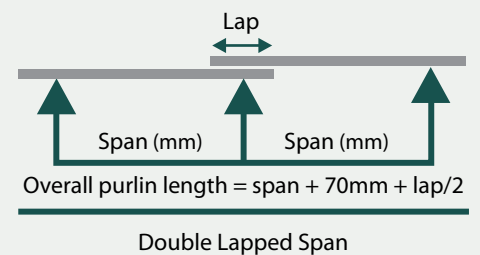
- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
- The loads have been based on the use of approved Metroll sections & bridging systems.
- The BOLD HORIZONTAL LINE marks where the overall length of the sections exceeds the normal delivery length (12000 mm nominal).
- IN = Inward load capacity.  
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# PURLINS & GIRTS - DOUBLE LAPPED SPAN

Table F100-Four Spans for Z/C100 Sections - Limit state capacity (kN/m)						
SECTION	10012					
LOADING	Inward	Outward				Def
BRIDGING	0,1,2,3	0	1	2	3	
2100	4.84	4.84	4.84	4.84	4.84	8.73
2400	3.71	3.71	3.71	3.71	3.71	5.85
2700	2.93	2.93	2.93	2.93	2.93	4.11
3000	2.37	2.37	2.37	2.37	2.37	2.99
3300	1.96	1.96	1.96	1.96	1.96	2.25
3600	1.65	1.65	1.65	1.65	1.65	1.73
3900	1.40	1.40	1.40	1.40	1.40	1.36
4200	1.21	1.21	1.21	1.21	1.21	1.09
4500	1.05	1.05	1.05	1.05	1.05	0.89
4800	0.93	0.93	0.93	0.93	0.93	0.73
5100	0.82	0.82	0.82	0.82	0.82	0.61
5400	0.73	0.73	0.73	0.73	0.73	0.51
5700	0.66	0.66	0.66	0.66	0.66	0.44
6000	0.59	0.59	0.59	0.59	0.59	0.37
6300	0.54	0.54	0.54	0.54	0.54	0.32
6600	0.49	0.49	0.49	0.49	0.49	0.28



#### NOTES:

- The loads have been based on the Standard AS/NZS 4600:1996 using Limit State method
- Following values of  $F_y$  considered for calculating the ultimate loads
  - 1.0 mm BMT Grade AS1397/G550 Z350 -  $F_y = 550 \text{ Mpa}$
  - 1.2 mm BMT Grade AS1397/G500 Z350 -  $F_y = 500 \text{ Mpa}$
  - 1.5, 1.9, 2.4, 3.0 mm BMT Grade AS1397/G450 Z350 -  $F_y = 450 \text{ Mpa}$
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