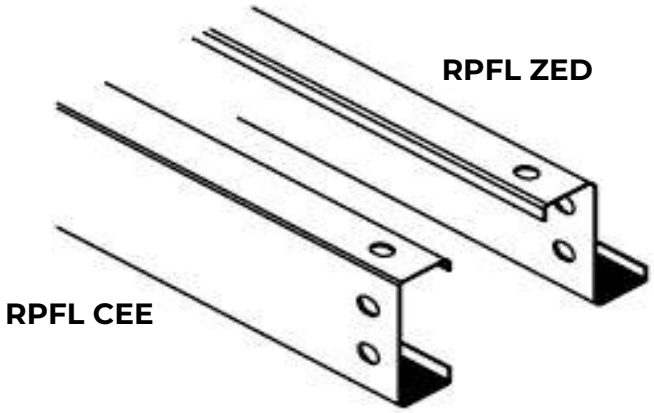

RPFL
ROOFING & PROFILES (FIJI) PTE LTD
Build With Confidence
RPFL
STEEL
PURLIN
CERTIFIED
ISO 9001
CERTIFIED
FIJIAN
MADE
NEW ZEALAND
STEEL

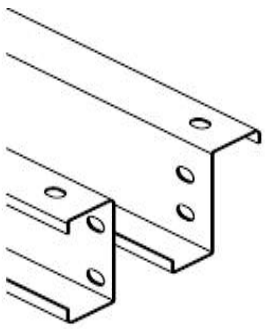
Table of Contents

THE COMPLETE PURLIN AND GIRT SYSTEM

The Roofing & Profiles (Fiji) Ltd (RPFL) Cee and Zed Purlin sections range from 100 to 300 mm and are accurately roll-formed from in a Hayes NZ machine from high strength Zinc coated steel - G450 Z450 and combine to provide efficient, lightweight, economical roofing and cladding support system for framed structures. The system, which includes a comprehensive range of accessories, is supplied ready for erection and, once erected, requires minimal maintenance throughout the life of the building.



GENERAL DATA FOR CEE AND ZED SECTIONS



RPFL CEE & ZED

Applications

RPFL Cee sections may be used in single spans and unlapped continuous spans in multi-bay buildings. Cee sections are ideal as eave purlins or where compact sections are required for detailing. Cee sections cannot be lapped.

RPFL Zed sections may be used over single spans, unlapped continuous and lapped continuous spans in multi-bay buildings. Lapped continuous spans result in a considerable capacity increase in the system.

Range of products & services

Our Wide Range Includes:

- A full range of RPFL Cees and Zeds.
- A full range of RPFL Cees and Zeds with downturned lip.
- Section sizes from 100 mm to 300 mm.
- Technical information for cleat less connections (see Design notes for capacity tables).
- Bridging systems.
- Bolting systems to suit project needs.
- Advice on improving the life expectancy of purl in systems in corrosive environments.

Performance

In accordance with the provisions of AS/ANZ 4600:1996 Cold-formed steel structures, load capacities have been calculated for RPFL sections using approved RPFL bridging systems, bolting and other accessories. Sections chosen using the data provided in the tables will perform as specified when the design, fabrication and erection are conducted in accordance with RPFL recommendations and accepted building practice.

STANDARD RANGE OF RPFL CEES AND ZEDS			
NOMINAL SECTION SIZE (MM)	BMT		
100		1.9	
150	1.5	1.9	2.4
200	1.5	1.9	2.4
250		1.9	2.4
300		2.4	3.0

Non-standard sections

We can supply a wide range of non-standard sizes (up to 300 mm) and shapes, including Cees and Zeds with downturned lip-the Zeds can also be made to lap.

Corrosion protection & material compatibility

Some building materials and environmental conditions can be detrimental to coated steel products. These include contact with or exposure to runoff from:

- Industrial, agricultural, marine, or other aggressive atmospheric conditions.
- Incompatible metals, like lead or copper.
- Building materials subject to cycles of dryness and wetness, or which have excessive moisture content such as improperly seasoned timber.
- Materials which have been treated with preservatives, like CCA or tanalith-treated timber.

A zinc coating of Z450 (450 g/m2 minimum coating mass) is the standard coating class provided with RPFL Cee and Zed sections. This will provide a long and trouble-free life for enclosed buildings and open-sided rural buildings, in a non-aggressive environment and also meets the Fiji Standards.

A non-aggressive environment is 1000 m from rough surf, 750 m from industrial emission and fossil fuel combustion, and 300 m from calm salt waters. Consideration must be given to the nature of activities performed within the building.

For severe corrosive environments Z450 (450 g/m2 minimum coating mass) is required. All our purlin raw materials are imported and supplied in Z450 coating.

Direct contact of incompatible materials with the coating must be avoided. In such applications, and in very corrosive environments, suitable paint systems can be obtained from paint manufacturers.

In applications where, particular attention is required for corrosion, or the buildup of substances like dust or grain, then consideration should be given to the shape of the sections (either Zed, or Cee, or Zed with downturned lip); orientation of the sections; and coating class.

Available lengths

RPFL purlins are available custom-cut in any transportable length, however there are some limitations.

- Minimum length 1.2m and maximum length unlimited, (refer note below transportation)
- For normal deliveries nominal lengths should not exceed 10.900 m. Lengths greater than 10.900 m require special transportation and on-site handling. We can roll form up to 25-meter lengths or longer if required.
- Length tolerance for all sections is ±5 mm.
- RPFL Cee and Zed sections are delivered in strapped bundles. The actual quantity in each bundle will vary with section size, order, and length.

Storage on-site

If not required for immediate use, sections should be neatly stacked off the ground and on a slight slope so that water can drain away. Sections and accessories should not be left exposed in the open for extended periods.

Material specifications

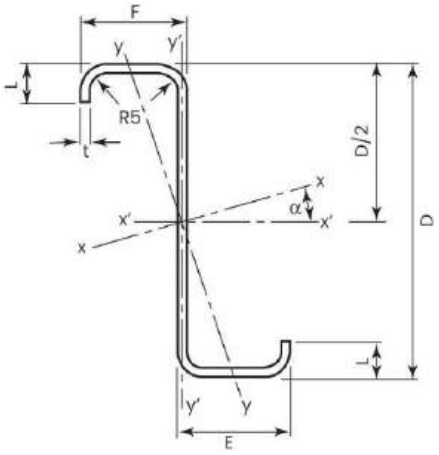
RPFL Cee and Zed sections are roll-formed from GALVASTEEL- steel complying with AS1397-2001. In the grades shown, the number prefixed with G indicates minimum yield stress in MPA; and the number prefixed with Z indicates minimum coating mass in g/m^2.

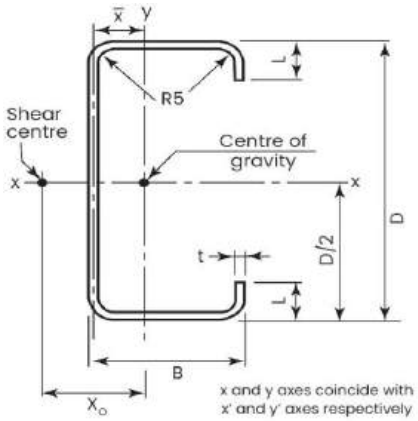
- 1.5, 1.9, 2.4 and 3.0mm BMT: G450, 2450

Bolt Specification with Nut and Washer

NOMINAL SECTION SIZE (MM)	BOLT SPECIFICATION
100, 150, 200, 250	M12 RPFL purlin bolt: standard (grade 4.6) or high strength (grade 8.8)
300	M16 RPFL purlin bolt: standard (grade 4.6) or high strength (grade 8.8)

CEES AND ZEDS SECTIONS DIMENSIONS AND PROPERTIES





RPFL Cee sections

RPFL Cee sections have equal flanges and are suitable for simply supported spans. For shorter spans they may be used continuously over two or more spans with the ends butted, thus producing reduced deflection compared with simple spans. They cannot be lapped. “Typical assemblies are shown later in this manual. “

RPFL Zed sections

RPFL Zed sections feature one broad and one narrow flange, sized so that two sections of the same size fit together snugly, making them suitable for lapping.

Continuous lengths of purlin result in better economy, but lapping provides two thicknesses of metal over interior supports. Lapping increases the strength of the sections where bending moments and shear are at a maximum, thus improving the load capacity and rigidity of the system.

RPFL Zed sections of the same depth and different thicknesses can be lapped in any combination.

RPFL Zed sections may also be used over simple spans. For shorter spans they may be used continuously over two or more spans without laps-thus producing reduced deflection compared with simple spans-but it does not give the strength of a fully lapped system.

RPFL Zed sections with one lip turned outward (called downturned lip purlins) may be used in simple or continuous spans with the ends butted. “Typical assemblies are shown later in this manual.”

Dimensions of Cees and Zeds

				ZEDS			CEES	
CATALOGUE NUMBER	T (MM)	D (MM)	MASS PER UNIT LENGTH (KG/M)	E (MM)	F (MM)	L (MM)	B (MM)	L (MM)
Z/C10019	1.9	102	3.29	53	49	14.5	51	14.5
Z/C15015	1.5	152	3.59	65	61	17.5	64	15.5
Z/C15019	1.9	152	4.51	65	61	17.5	64	16.5
Z/C15024	2.4	152	5.70	66	60	19.5	64	18.5
Z/C20015	1.5	203	4.49	79	74	15.0	76	15.5
Z/C20019	1.9	203	5.74	79	74	18.5	76	19.0
Z/C20024	2.4	203	7.24	79	73	21.5	76	21.0
Z/C25019	1.9	254	6.50	79	74	18.0	76	18.5
Z/C25024	2.4	254	8.16	79	73	21.0	76	20.5
Z/C30024	2.4	300	10.09	100	93	27.0	96	27.5
Z/C30030	3.0	300	12.76	100	93	31.0	96	31.5

SECTION PROPERTIES

Section Properties of RPFL Cees

FULL SECTION PROPERTIES								
Product Code	Area	SECOND MOMENT OF AREA		SECTION MODULUS		RADIUS OF GYRATION		CENTROID
	A (mm^2)	LX (10 MM^4)	ZY (10' MM')	ZX (10 MM)	ZY (10 MM)	RX (MM)	RY (MM)	X (MM)
C10019	409	0.673	0.142	13.2	421	40.6	18.7	162
C15015	443	1.61	0.237	21.1	5.29	60.2	23.1	18.4
C15019	561	2.02	0.3	26.6	6.74	60	23.1	18.5
C15024	712	254	0.386	33.5	8.79	59.8	23.3	18.9
C20015	555	3.53	0.396	34.7	7.17	79.7	26.7	19.9
C20019	713	4.51	0.531	44.4	9.77	79.6	273	20.8
C20024	904	5.69	0.681	56	127	793	274	21.1
C25019	808	7.62	0.561	60	9.86	97.1	26.4	18.1
C25024	1020	9.62	1.57	75.7	128	96.9	26.5	18.4
C30024	1260	17	1.57	113	21.7	116	34.6	25
C30030	1600	21.3	1.96	142	28.5	116	35	25.8

*Table Column Continued on next Table

COLUMN PROPERTIES					EFFECTIVE SECTION PROPERTIES AT YIELD STRESS	
PRODUCT CODE	SHEAR CENTER	TORSION CONSTANT	WARPING CONSTANT	MONO SYMMETRY SECTION CONSTANT	SECTION MODULUS IN BENDING	AREA IN COMPRESSION
	X (MM)	J (MM)	LW (10 MM)	B (MM)	ZXE (10 MM)	AE (MM)
C10019	404	492	311	122	123	329
C15015	469	332	1070	171	17.1	244
C15019	47.1	675	1370	170	21.8	340
C15024	480	1370	1810	169	309	527
C20015	516	416	3060	223	241	251
C20019	53.6	858	4240	221	36.6	381
C20024	54.4	1740	5540	219	47.5	541
C25019	48.5	972	6860	276	46.2	381
C25024	49.3	1970	8920	274	64.9	543
C30024	66	2430	26800	320	91.1	632
C30030	67.9	4790	35700	316	124	897

Properties have been computed based on mean flange width. The introduced error is negligible, the shear centre and mono symmetry constant deviations can be disregarded, that is, taken as zero.

Section Properties of RPFL Zeds

FULL SECTION PROPERTIES						
PRINCIPAL AXES						
PRODUCT CODE	AREA	SECOND MOMENT OF AREA		SECTION RADIUS OF MODULUS GYRATION		
	A (MM^2)	LX (10 MM)	LY (10 MM)	ZY (10 MM)	RY (MM)	A (MM)
Z10019	409	0.84	0.0829	2.94	14.2	28.1
Z15015	443	1.84	0.145	3.96	18.1	22
Z15019	561	2.32	0.184	5.02	18.1	22.1
Z15024	712	2.92	0.238	6.38	18.3	22.5
Z20015	555	3.89	0.255	5.53	21.4	18.5
Z20019	713	5.02	0.342	7.45	21.9	19.1
Z20024	907	6.36	0.443	9.64	22.1	19.4
Z25019	808	8.08	0.381	7.82	21.7	14
Z25024	1030	10.2	0.493	10.2	21.9	14.3
Z30024	1260	18.3	1.01	16.8	28.3	16
Z30030	1600	23.1	1.32	21.9	28.7	16.3

*Table Column Continued on next Table

FULL SECTION PROPERTIES							
AXES PERPENDICULAR & PARALLEL TO WEB							
PRODUCT CODE	SECOND MOMENT OF AREA		PRODUCT OF MOMENT AREA	SECTION MODULUS	RADIUS OF GYRATION		
	LX (10 MM)	LY' ($10\ MM^4$)	LX' Y' (10 MM)	ZY' (10 MM)	ZY' ZY'	RX' (MM)	RY' (10 MM)
Z10019	0.673	0.25	314	13	4.92	40.6	24.7
Z15015	1.6	0.383	588	20.8	6.06	60.1	29.4
Z15019	2.01	0.487	0.744	26.1	7.73	59.9	29.5
Z15024	2.53	0.632	0.95	326	10	59.9	29.8
Z20015	3.53	0.621	1.09	34.3	8.05	79.7	33.4
Z20019	4.52	0.843	1.45	43.9	11	79.6	34.4
Z20024	5.7	1.1	1.86	55.3	14.4	793	34.8
Z25019	7.62	0.833	1.81	59.3	10.8	97.1	32.1
Z25024	9.64	1.08	2.33	74.9	14.2	96.9	32.5
Z30024	17	2.32	4.57	112	23.8	116	42.8
Z30030	21.3	3.04	5.88	140	31.4	116	43.6

*Table Column Continued on next Table

COLUMN PROPERTIES			EFFECTIVE SECTION PROPERTIES AT YIELD STRESS	
PRODUCT CODE	TORSION CONSTANT	WARPING CONSTANT	SECTION MODULUS IN BENDING	AREA IN COMPRESSION
	J (MM^4)	LW (10MM)	ZX'E (10MM)	AE (MM^2)
Z10019	492	409	12.4	329
Z15015	332	1460	17.2	248
Z15019	675	1860	22.4	347
Z15024	1370	2410	31.4	535
Z20015	416	4260	23.8	248
Z20019	858	5830	36.4	378
Z20024	1740	7630	48.4	546
Z25019	972	9480	45.7	379
Z25024	1970	12400	66	547
Z30024	2430	36600	89.9	628
Z30030	4790	48200	125	908

*Picture for illustration purpose

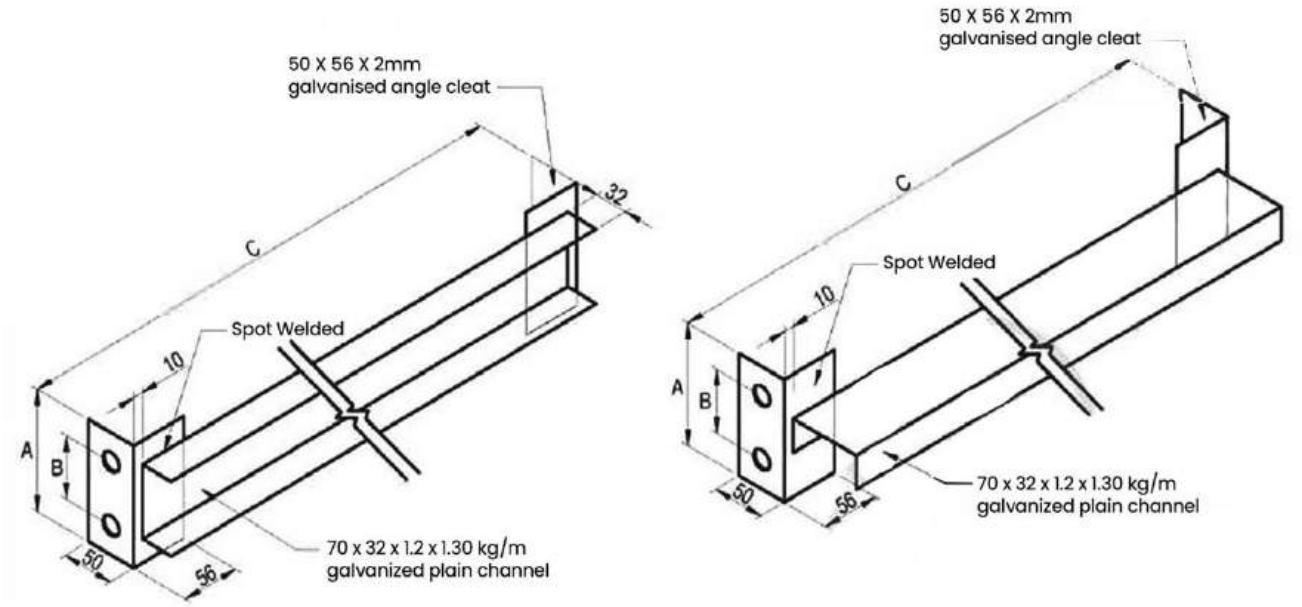
RPFL 100, 150, 200, 250 SERIES BRIDGING SYSTEM

Bridging piece

Purlins are normally braced by Alternating bridging member and Tie rods. For flat roofs, up to 10 Slope, alternate bridging without Tie rods may be used (engineer to confirm).

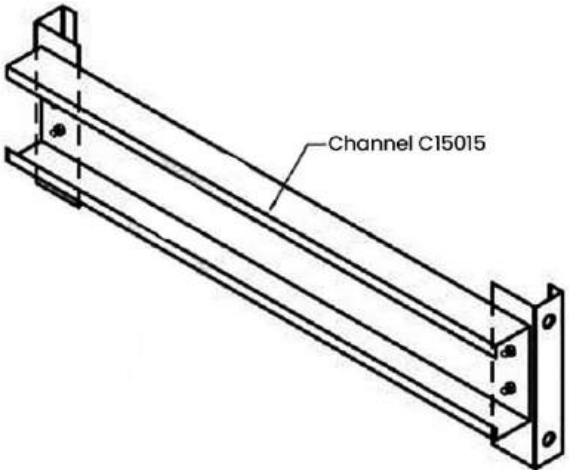
Bridging End Dimensions

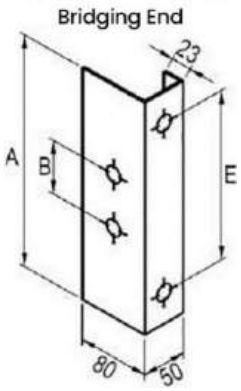
PURLIN DEPTH (MM)	A (MM)	B (MM)	C
102	65	40	Purlin spacing less 2mm
152	115	60	
203	160	110	
254	215	160	
300	260	210	



All components are made from pre-galvanized material for long lasting and can be assembled using the recommended bolts or by welding. When ordering the overall bridging length should be specified, i.e. purlin or girt spacing, less 3mm.

RPFL 200 Series Bridging System





RPFL 300 SERIES BRIDGING END DIMENSIONS

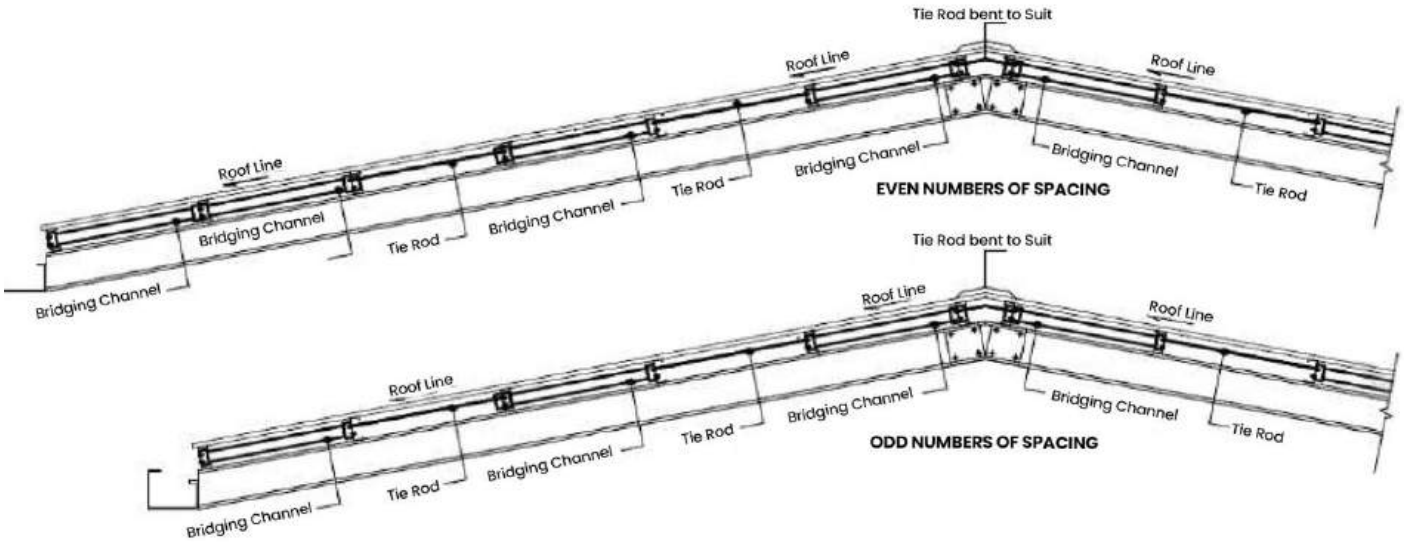
PURLIN DEPTH (MM)	CATALOGUE NO.	DIMENSIONS (MM)		
		A	B	E
300	300EB	260	60	210
300	300EBV	260	70	210

For the largest sections, 300 series (Zeds and Big Cees), a more substantial bridging system is required, due to larger spans and greater loads.

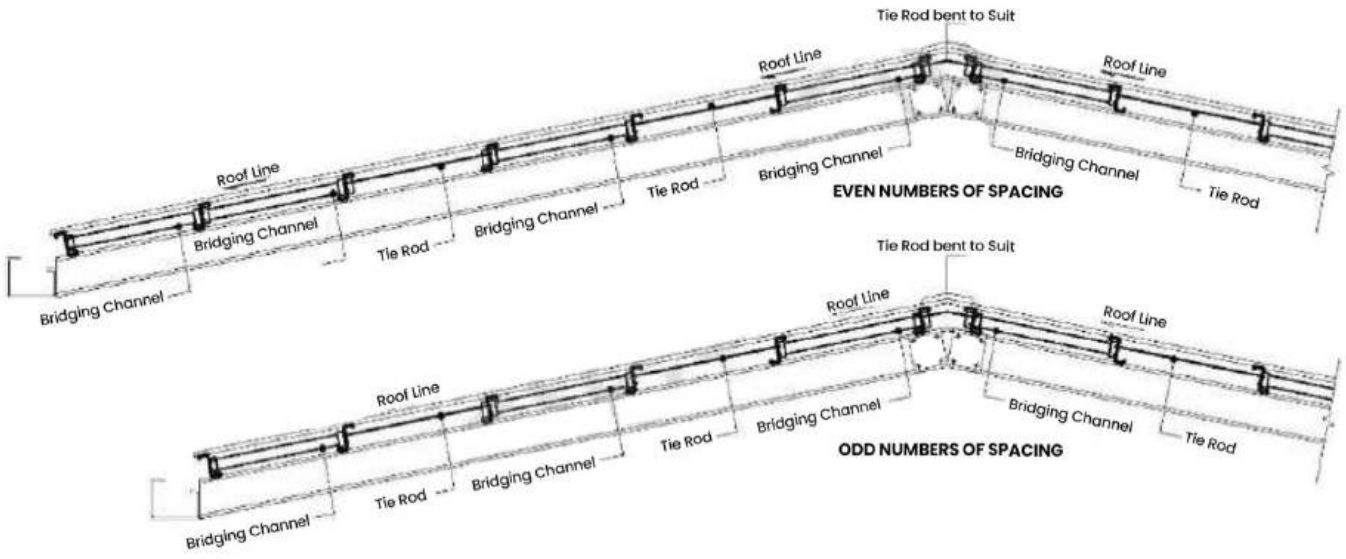
These components consist of a C15015 channel and bridging ends assembled with high strength M12 x 30mm purlin.

The bridging components are bigger and have additional lip stiffening.

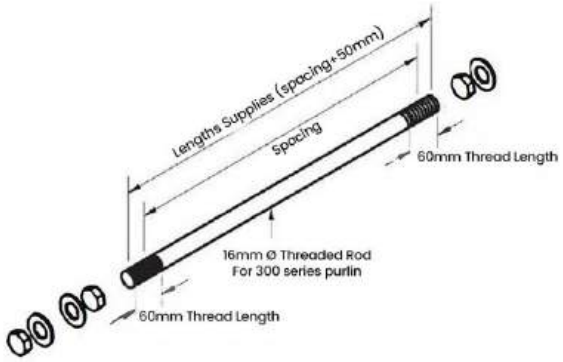
Cee Purlin Bridging and tie rod arrangement

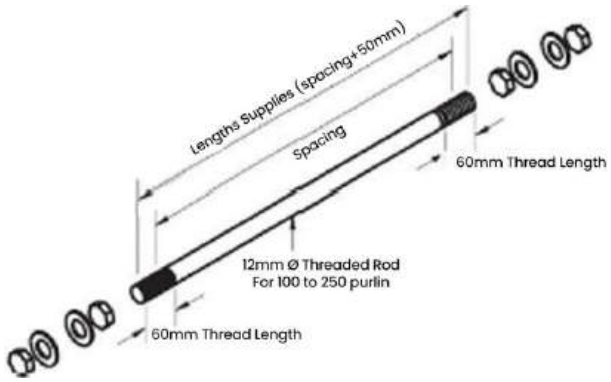


Zed Purlin Bridging and tie rod arrangement



Tie rods (ZP or GALVANISED) Girts are supported only by tie rods, which also act as braces for outward (wind suction) loads.

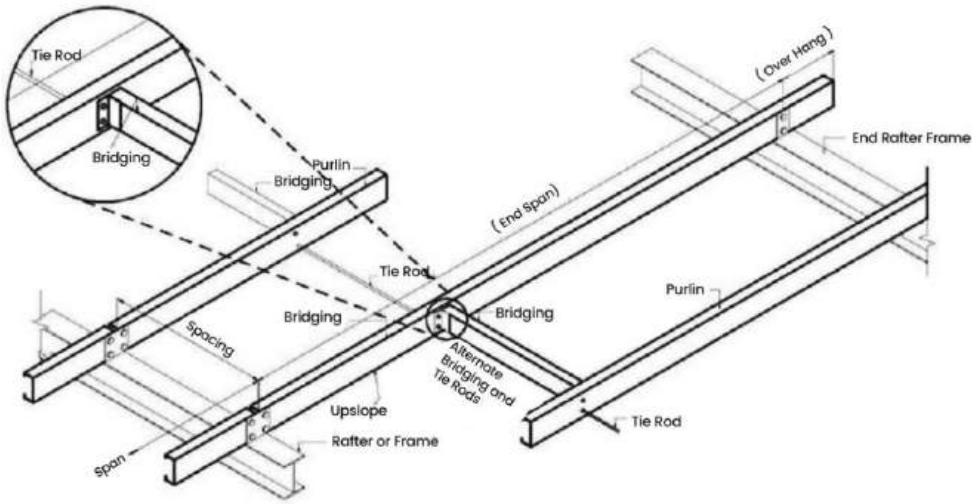




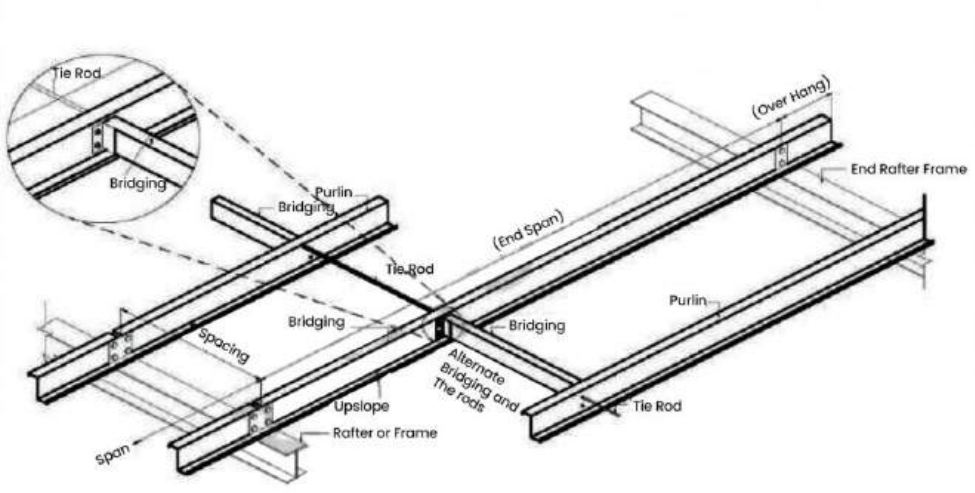
Cee Purlin Bridging System

Typical arrangement of in-line C Purlins

The upper lip of C purlin should face up the slope. Outside Lip of girts should face upwards.

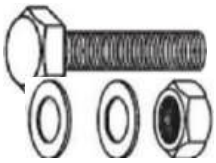


Zed Purlin Bridging System



Flange Purlin Bolt Specification

Standard purlin bolt, nut and washer M12 x 30mm grade 4.6 ZP/HD Galv.
High strength purlin bolt M12 x 30 grade 8.8 with bolt, nut and washer ZP/HD Galv.

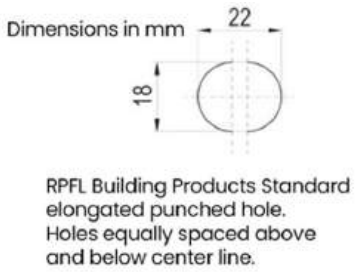


Standard purlin bolt (grade 4.6): M12x30mm with nut.
High strength purlin bolt (grade 8.8): M12x30mm with nut.
Shouldered purlin bolt (grade 4.6) with 16mm shoulder: M12x30mm with nut.
Standard purlin bolt (grade 4.6): M16x45mm with nut.
High-strength purlinbolt (grade 8.8): M16x45mm with nut for 300 series purlins.

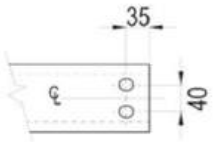
HOLES & CLEATS

RPFL Cee and Zeds sections are normally supplied with 18 x 22mm elongated holes punched to the Australian Institute of Steel Construction gauge lines. They are intended for use with standard M 12 purlin bolts. Where reactions are greater than the allowable load on two standard M12 purlin bolts or greater strength bolts are desired, High strength M12 or M16 purlin bolts are recommended. Sections are also available unpunched if required. M16 purlins bolts are recommended for 300 series purlins.

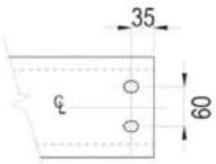
NOMINAL SECTION SIZE (MM)	G (MM)	D_H
100	40	18
150	60	18
200	110	18
250	160	18
300	210	18



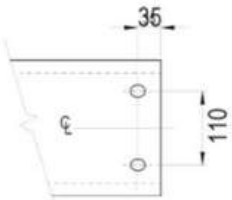
RPFL Building Products Standard elongated punched hole. Holes equally spaced above and below center line.



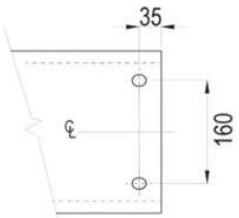
100 Series Cee and Zed



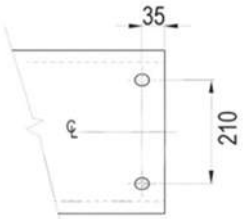
150 Series Cee and Zed



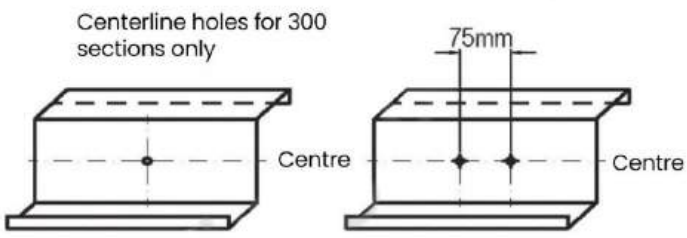
200 Series Cee and Zed



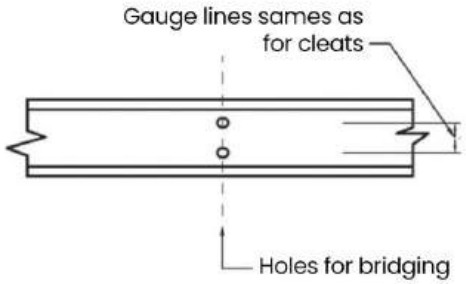
250 Series Cee and Zed



300 Series Cee and Zed

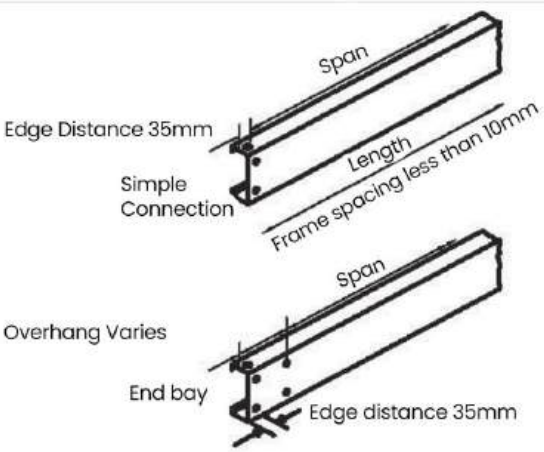


Bridging holes and cleat holes

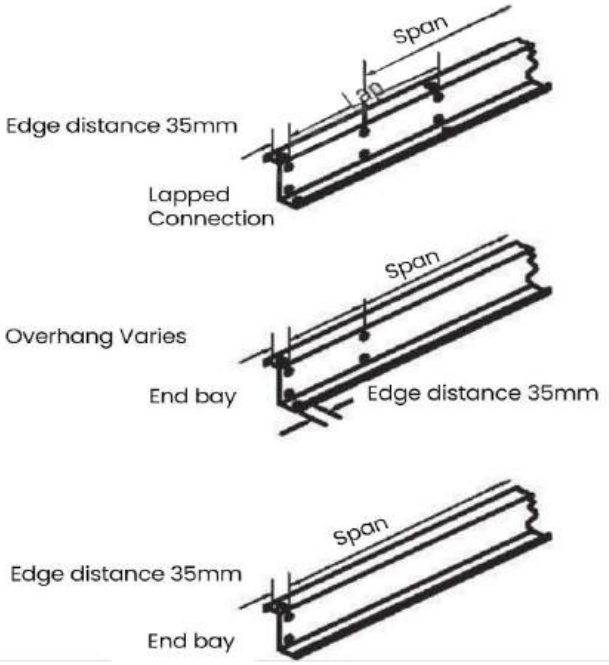


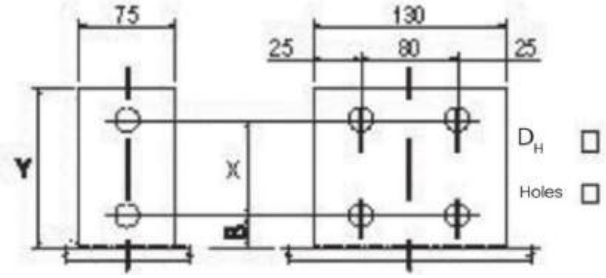
The holes are required at cleat supports at end of lap and at bridging point.
For the web of 100, 150, 200 and 250 deep sections the holes are elongated with dimensions of 18mm suitable for M12 bolts
For 300mm sections 18mm suitable for M16 bolts.

Standard holes for CEE sections



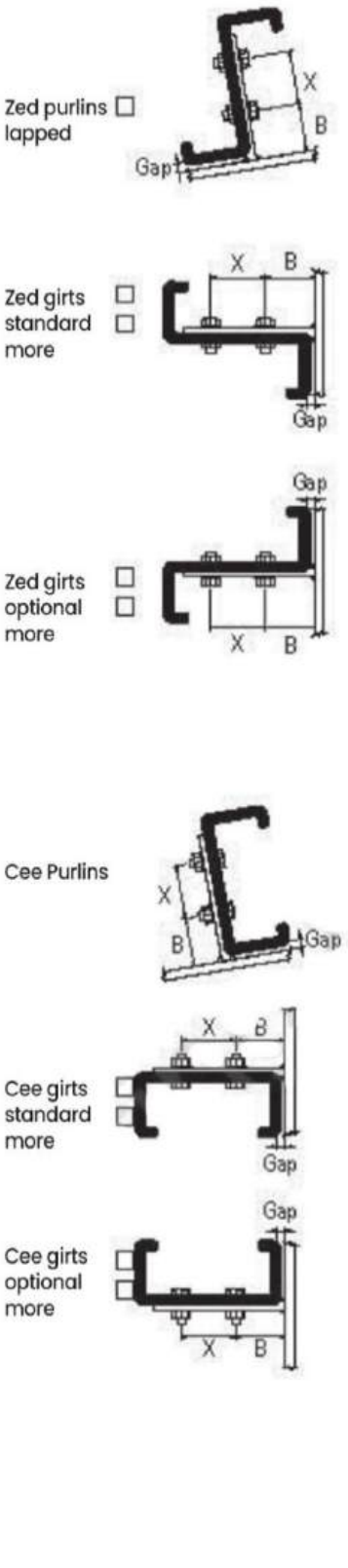
End holes for ZEE sections



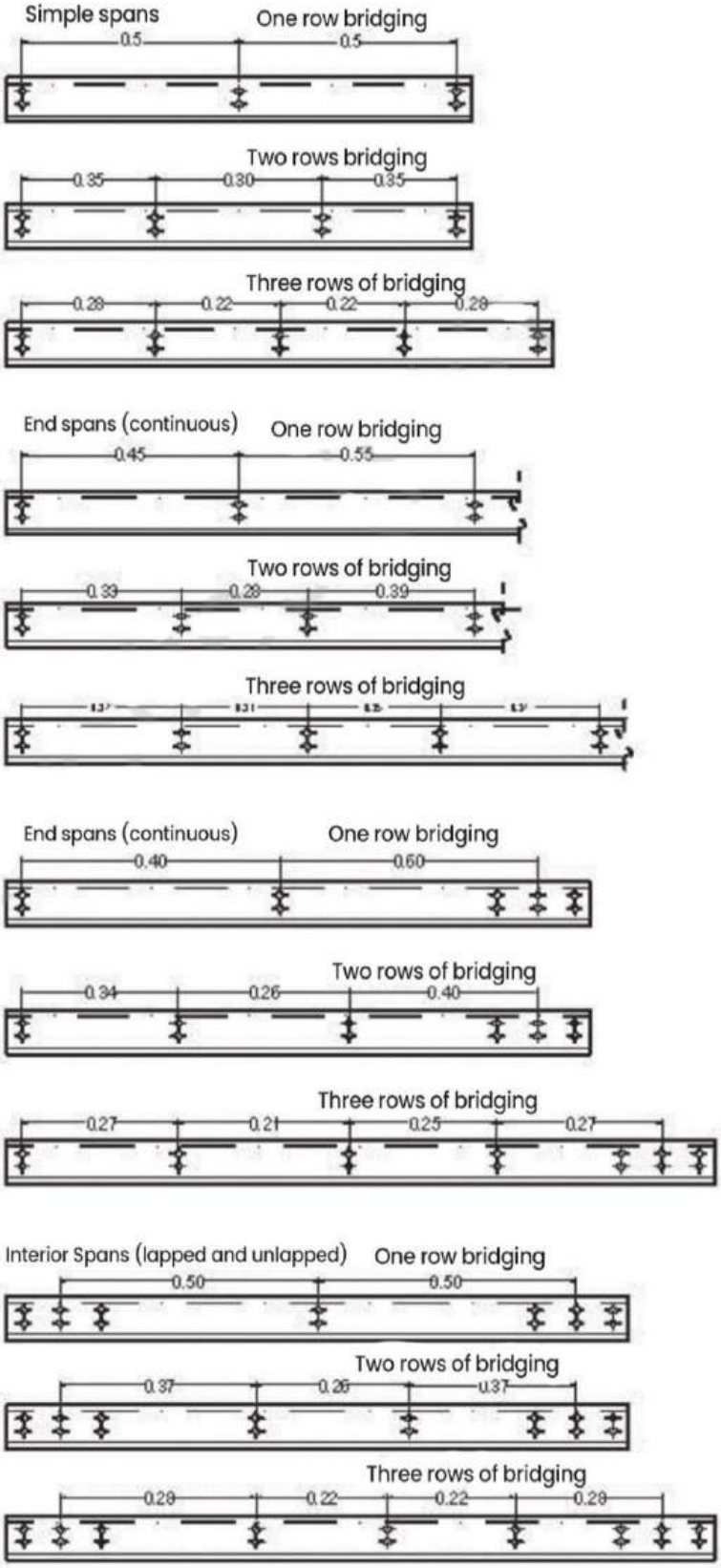


CLEAT NOMINAL DIMENSIONS (MM) NOM. SECTION SIZE(MM)	X	B	Y	T (THICKNESS)	GAP	D_H
100	40	40	105	8	10	18
50	70	50	145	8	10	18
150	60	50	145	8	10	18
200	110	55	195	8	10	18
250	160	55	245	8	10	18
300	210	65	305	12	20	22
When using zed sections with downturned lips, longer cleats are required to give clearance from the main support						

Fastening to Cleat



Location of bridging holes



Note

To minimize the tendency of Cees and Zeds to rotate when used as purlins, it is necessary to have the top Flange positioning up the slope purlin orientation maybe a Consideration in certain projects

DESIGN NOTE FOR CAPACITY TABLE

When determining a design, consideration should be given to load combinations for both strength and for serviceability.

Deflection

There are no specific rules governing acceptable deflections, though structural codes give guidance. You need to consider the specific requirements of any structure. It may be necessary to design for deflection under more than one load combination. See also Assumptions used in tables.

Axial loads

Where a section is not loaded to its full capacity in bending, it has a reserve of strength to carry some axial load. This reserve in purlins and girts can be used to transmit forces due to wind loading on end walls, or to resist forces due to bracing of wall and roof structures. Where required, the combined bending and axial load capacity should be calculated using AS/NZS 4600:1996 Cold-formed steel structures.

Point loads

The values in this publication assume uniformly distributed loading. However, in many applications (like the mounting of services and maintenance equipment) the loads applied to a structure are point loads. Thus, to use these tables for point loadings, the loads must be converted to equivalent distributed loads.

The table on the following page gives conversion formulae for loads on simple spans and lapped spans. They have been derived from commonly published moment and shear data and give conservative conversions.

For simple spans the formulae are straight forward. For non-continuous lapped spans, the formulae depend on the number of spans, the position of the span and the lapping ratio; thus, the worst-case configuration has been used, and the values may be safely used for end spans, interior spans and any lapping ratio greater than 10%.

Formulae for loads on continuous unlapped configurations, and for deflections in all configurations, are not given but may be derived similarly.

Symbols used in table for conversion of point loads

P = Single Point Load (kN)
L = span (m)
a = Larger distance from support (m)
b = smaller distance from support (m)
w = equivalent uniform load (kN/m)

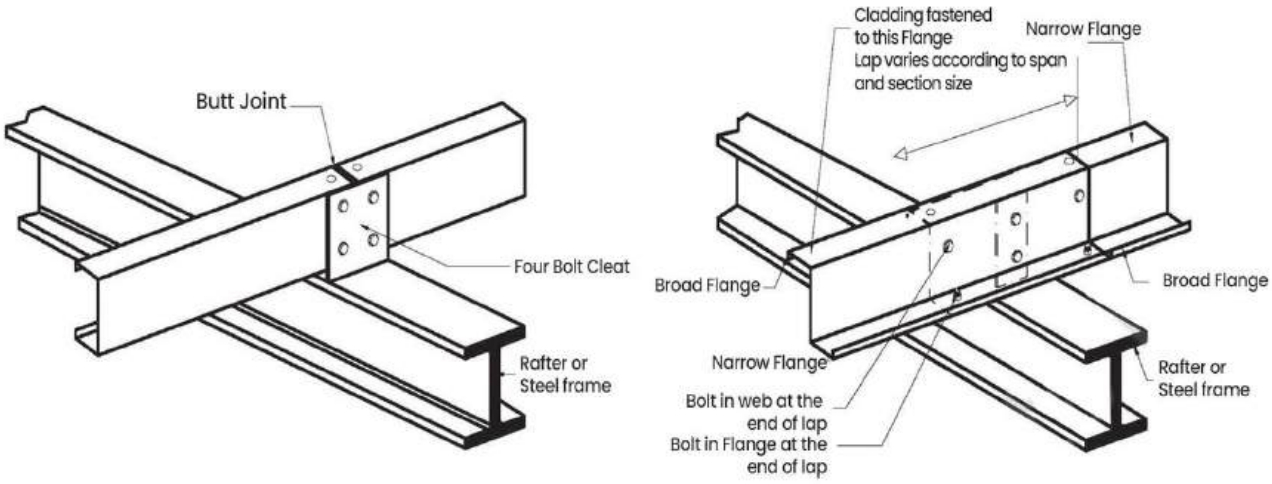
Design optimization

The capacity tables provide economical design solutions for most projects. Designs can be optimized by varying:

- Material specifications
- Bolt specifications and number
- Non-standard purlin profile
- Reduced or enlarged end spans
- Span range
- Cantilevers at one or both ends
- Lap length
- Bridging quantity
- Load distribution

Bridging

The capacity tables give solutions for an equal number of rows of bridging in each span provision is made for or 0, 1, 2 or 3 rows of bridging.
In practice it may be necessary to use at least one row of bridging in each span. We suggest that un-bridging length be limited to 20 times the section depth.



Cleat connections

The capacity tables are based on the sections being fastened through the web to cleats (cleat connection) so that the load path is via the web of the sections. The connections may be single section thickness such as in end connections, or the internal support connection of continuous configurations. Connections with double section thickness occur at the internal support of lapped configurations. Each connection uses two bolts.

Cleat less connections

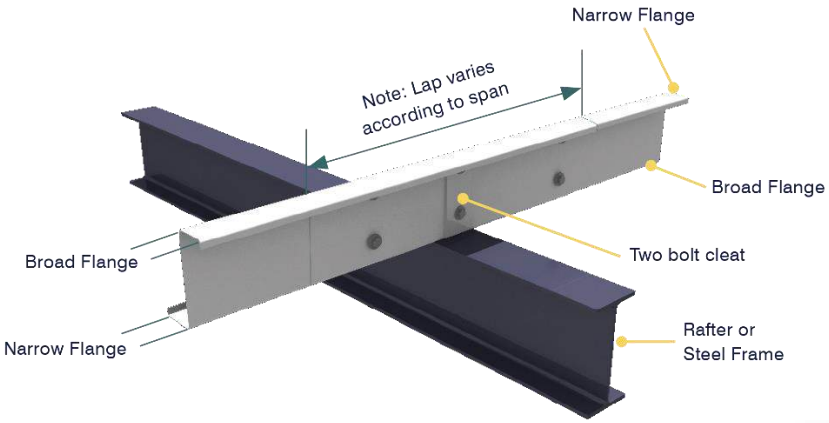
Fixing of purl ins through the bottom flange of the purl in (cleat less connection) is used in some forms of construction. The purl in capacity tables should not be used for these types of connections. For these types of connections there are other design issues (both strength and serviceability) and construction issues that need to be considered. The number of bolts used is halved compared with the number used in conventional cleated connections.

Lapping

The structural lap at the interior supports of lapped configurations must be detailed to provide adequate structural continuity.

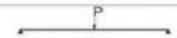
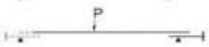
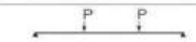
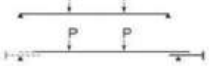
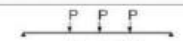
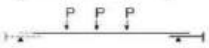
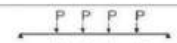
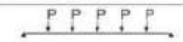
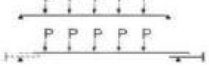
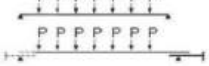
Each end of the lap must have one bolt through the flange furthest from the cladding, and one bolt through the webs near the flanges connected to the cladding.

The nominal lap length is the distance between the bolt centers at the end of the laps. Laps vary in length with both section size and span as shown in the table below. In no situation must the lap be less than 10% of the span.

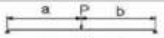
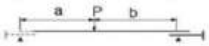


CONVERSATION OF POINT INTO EQUIVALENT UNIFORM LOADS

Symmetrical equidistant point loads

Loading Condition			Conversion formula
SINGLE LOAD	Simple		w= 2P/L
	Lapped		w= 2.22P/L
2 LOADS	Simple		w= 2.67P/L
	Lapped		w=3.16P/L
3 LOADS	Simple		w= 4P/L
	Lapped		w= 3.78P/L
4 LOADS	Simple		w= 4.80P/L
	Lapped		w= 5.12P/L
5 LOADS	Simple		w= 6P/L
	Lapped		w= 6.65P/L
6 OR MORE LOADS	Simple		w= 1.14NP/L
	Lapped		w= 1.22NP/L

Single eccentric and two symmetrical point loads

Loadingcondition			convertion formula
SINGLE ECCENTRIC POINT LOA	Simple		$w= 8abP/L^3$
	Lapped		$w= 17.76ab^2P/L^4$
2 ECCENTRIC POINT LOAD	Simple		$w= 8abP/L^2$
	Lapped		$w= 9.45b(2L-3b)P/L^3$

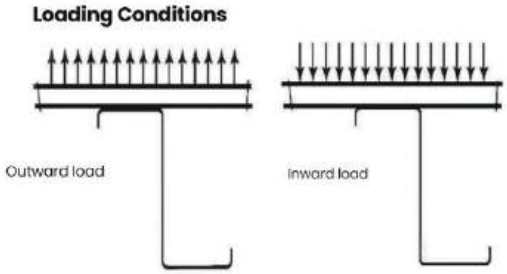
Intermediate values

Within a given bridging configuration, capacities for intermediate spans may be interpolated linearly.

Notes to capacity tables

- loads are assumed to be uniformly distributed (see also Point loads).
- The capacities assume the use of approved RPFL sections, bridging system and bolts.
- The column, load for deflection span/150, is the load that will produce this deflection. It is not a design capacity.
- All connections use RPFL purlin bolts grade 4.6, except for boldened capacities which require grade 8.8.
- Forces acting to hold cladding against a structure are defined as inward. Forces acting to remove cladding from a structure are defined as outward
-

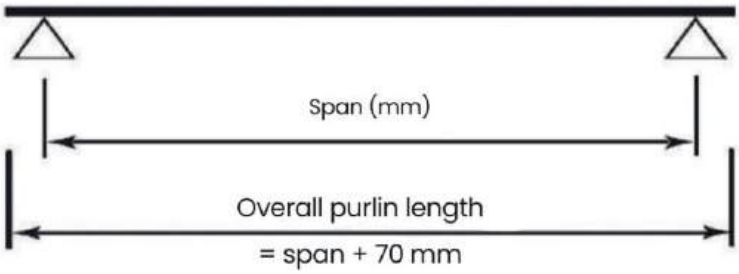
LAP LENGTHS NOMINAL SECTION SIZE (MM)	SPAN (MM)	LAP LENGTH (MM)
100	≤600 0> 6000	600 900
150, 200, 250	≤9000 >900 ≤12000 >12000*	900 1200 1800
300	≤9000 >12000	900 1200



*Load capacities for these spans are beyond the scope of this publication

LIMIT STATE CAPACITY TABLES

SINGLE SPAN: C/Z 10019 (KN/M)

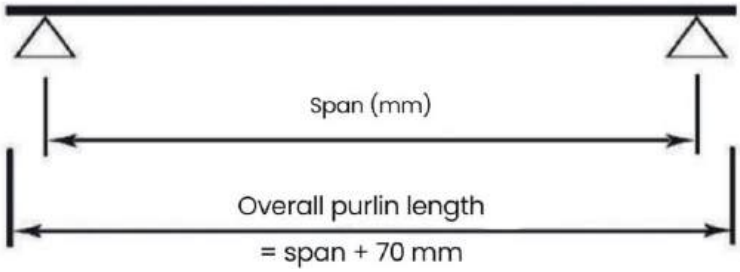


SINGLE SPAN: C/Z 10019 (KN/M)							
		IN		OUT			LOAD FOR
BRIDGING > SPAN (MM)	**0**	**1,2,3**	**0**	**1**	**2**	**3**	**DEFLECTION SPAN/150**
2100	8.44	8.79	7.37	8.79	8.79	8.79	7.34
2400	6.3	6.73	4.9	6.73	6.73	6.73	4.99
2700	4.88	5.32	3.35	5.32	5.32	5.32	3.5
3000	3.89	4.31	2.34	4.24	4.31	4.31	2.55
3300	3.17	3.56	1.7	3.32	3.56	3.56	1.92
3600	2.63	2.99	1.27	2.61	2.99	2.99	1.48
3900	2.22	2.55	0.97	2.08	2.55	2.55	1.16
4200	1.89	2.2	0.76	1.65	2.2	2.2	0.93
4500	1.64	1.91	0.61	1.32	1.87	1.91	0.76
4800	1.43	1.68	0.5	1.06	1.58	1.68	0.62
5100	1.26	1.49	0.41	0.86	1.34	1.49	0.52
5400	1.11	1.33		0.71	1.14	1.33	0.44
5700	0.99	1.19		0.58	0.98	1.19	0.37
6000	0.89	1.08		0.49	0.84	1.05	0.32
6300	0.81	0.98		0.41	0.71	0.93	0.28
6600	0.73	0.89			0.61	0.82	0.24
6900	0.67	0.81			0.53	0.72	0.21
7200	0.61	0.75			0.46	0.64	0.19
7500	0.56	0.56				0.57	0.16

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

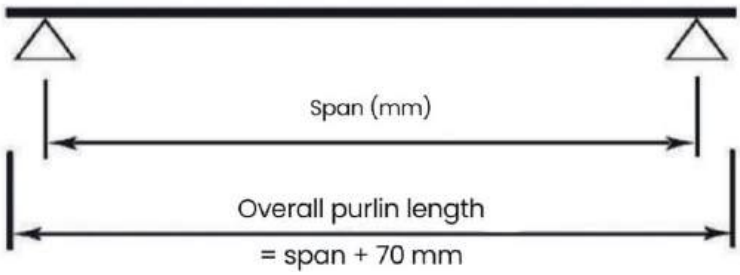
LIMIT STATE CAPACITY TABLES

SINGLE SPAN: C/Z 150 SERIES (KN/M)



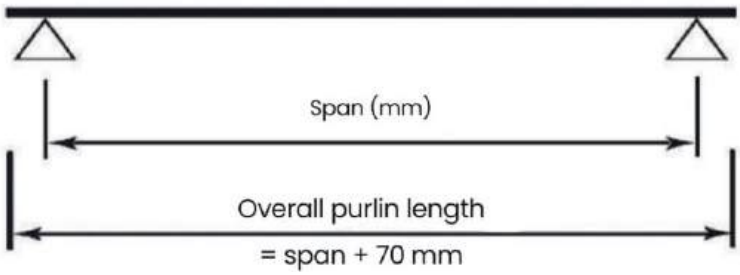
SINGLE SPAN: C/Z 15015 (KN/M)							
		IN		OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
2100	11.12	11.12	11.12	11.12	11.12	11.12	15.62
2400	8.51	8.51	8.17	8.51	8.51	8.51	10.5
2700	6.73	6.73	5.79	6.73	6.73	6.73	7.48
3000	5.41	5.45	4.02	5.45	5.45	5.45	5.52
3300	4.39	4.5	3	4.5	4.5	4.5	4.19
3600	3.64	3.78	2.29	3.78	3.78	3.78	3.27
3900	3.06	3.22	1.75	3.22	3.22	3.22	2.61
4200	2.61	2.78	1.36	2.73	2.78	2.78	2.12
4500	2.25	2.42	1.06	2.25	2.42	2.42	1.74
4800	1.96	2.13	0.84	1.85	2.13	2.13	1.45
5100	1.72	1.89	0.67	1.52	1.89	1.89	1.21
5400	1.52	1.68	0.55	1.23	1.68	1.68	1.03
5700	1.36	1.51	0.45	1.04	1.51	1.51	0.88
6000	1.21	1.36		0.89	1.36	1.36	0.76
6300	1.09	1.24		0.76	1.19	1.24	0.66
6600	0.98	1.13		0.65	1.05	1.13	0.57
6900	0.89	1.03		0.56	0.92	1.03	0.5
7200	0.82	0.95		0.48	0.8	0.95	0.44
7500	0.75	0.87		0.42	0.7	0.87	0.39

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.



SINGLE SPAN: C/Z 15019 (KN/M)								
		IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2,3	0	1	2	3	SPAN/150
3000	6.79	7.68	7.68	5.67	7.68	7.68	7.68	7.33
3300	5.51	6.35	6.35	4.12	6.35	6.35	6.35	5.59
3600	4.56	5.33	5.33	3.09	5.33	5.33	5.33	4.32
3900	3.82	4.55	4.55	2.32	4.37	4.55	4.55	3.42
4200	3.24	3.92	3.92	1.78	3.62	3.92	3.92	2.76
4500	2.78	3.41	3.41	1.39	3.02	3.41	3.41	2.26
4800	2.41	3	3	1.11	2.53	3	3	1.86
5100	2.11	2.66	2.66	0.9	2.1	2.66	2.66	1.55
5400	1.87	2.37	2.37	0.73	1.75	2.35	2.37	1.31
5700	1.66	2.13	2.13	0.61	1.45	2.05	2.13	1.11
6000	1.48	1.92	1.92	0.51	1.22	1.8	1.92	0.95
6300	1.33	1.74	1.74	0.43	1.04	1.59	1.74	0.82
6600	1.2	1.59	1.59		0.88	1.41	1.59	0.72
6900	1.09	1.45	1.45		0.75	1.25	1.45	0.63
7200	0.99	1.33	1.33		0.64	1.1	1.32	0.55
7500	0.91	1.22	1.23		0.55	0.97	1.2	0.49
7800	0.83	1.12	1.14		0.48	0.86	1.08	0.43
8100	0.77	1.04	1.05		0.42	0.75	0.98	0.39

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

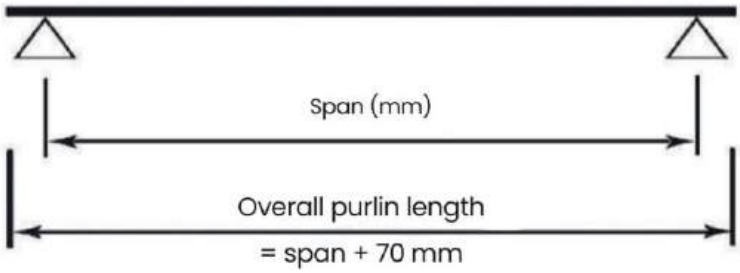


SINGLE SPAN: C/Z 15024 (KN/M)								
	IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2,3	0	1	2	3	SPAN/150
3000	8.82	10.82	10.82	7.71	10.82	10.82	10.82	9.58
3300	7.04	8.94	8.94	5.54	8.94	8.94	8.94	7.22
3600	5.7	7.52	7.52	4.09	7.52	7.52	7.52	5.56
3900	4.71	6.4	6.4	3.09	6.2	6.4	6.4	4.37
4200	3.95	5.52	5.52	2.39	5.09	5.52	5.52	3.5
4500	3.36	4.81	4.81	1.88	4.22	4.81	4.81	2.85
4800	2.89	4.23	4.23	1.51	3.52	4.23	4.23	2.35
5100	2.52	3.74	3.74	1.23	2.93	3.74	3.74	1.96
5400	2.21	3.34	3.34	1.01	2.4	3.34	3.34	1.65
5700	1.95	2.98	3	0.84	1.98	2.91	3	1.4
6000	1.74	2.66	2.71	0.71	1.65	2.54	2.71	1.2
6300	1.56	2.39	2.45	0.61	1.39	2.23	2.45	1.04
6600	1.41	2.16	2.24	0.52	1.18	1.97	2.24	0.9
6900	1.27	1.96	2.05	0.45	1.01	1.74	2.05	0.79
7200	1.16	1.79	1.88		0.86	1.54	1.88	0.7
7500	1.06	1.64	1.73		0.75	1.35	1.7	0.62
7800	0.97	1.5	1.6		0.65	1.18	1.53	0.55
8100	0.89	1.38	1.48		0.57	1.03	1.39	0.49

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

SINGLE SPAN: C/Z 200 SERIES **(KN/M)**



SINGLE SPAN: C/Z 20015 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
3000	7.38	7.38	7.28	7.38	7.38	7.38	10.6
3300	6.1	6.1	5.47	6.1	6.1	6.1	7.96
3600	5.13	5.13	4.1	5.13	5.13	5.13	6.28
3900	4.33	4.37	3.13	4.37	4.37	4.37	5.07
4200	3.69	3.77	2.44	3.77	3.77	3.77	4.15
4500	3.17	3.28	1.86	3.28	3.28	3.28	3.45
4800	2.75	2.88	1.51	2.88	2.88	2.88	2.88
5100	2.41	2.56	1.25	2.56	2.56	2.56	2.42
5400	2.13	2.28	1.04	2.24	2.28	2.28	2.05
5700	1.89	2.05	0.87	1.92	2.05	2.05	1.75
6000	1.68	1.85	0.72	1.62	1.85	1.85	1.51
6300	1.51	1.67	0.61	1.38	1.67	1.67	1.31
6600	1.36	1.53	0.52	1.18	1.53	1.53	1.15
6900	1.23	1.4	0.44	1.01	1.4	1.4	1.01
7200	1.12	1.28		0.87	1.28	1.28	0.89
7500	1.03	1.18		0.76	1.18	1.18	0.79
7800	0.94	1.09		0.64	1.09	1.09	0.71
8100	0.87	1.01		0.56	0.98	1.01	0.64
8400	0.8	0.94		0.5	0.88	0.94	0.58
8700	0.74	0.88		0.45	0.79	0.88	0.52
9000	0.69	0.82		0.4	0.7	0.82	0.47
9300	0.64	0.77			0.63	0.77	0.43

SINGLE SPAN: C/Z 20015 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
9600	0.6	0.72			0.56	0.72	0.39
9900	0.56	0.68			0.51	0.68	0.36
10200	0.53	0.64			0.46	0.64	0.33
10500	0.49	0.6			0.42	0.6	0.31
10800	0.46	0.57				0.55	0.28
11100	0.44	0.54				0.51	0.26
11400	0.41	0.51				0.47	0.24
11700	0.39	0.49				0.43	0.22
12000	0.37	0.46				0.4	0.21

SINGLE SPAN: C/Z 20019 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
3000	10.52	11.25	10.56	11.25	11.25	11.25	15.1
3300	8.38	9.3	7.83	9.3	9.3	9.3	11.42
3600	6.78	7.81	5.77	7.81	7.81	7.81	8.89
3900	5.59	6.66	4.5	6.66	6.66	6.66	7.06
4200	4.54	5.74	3.57	5.74	5.74	5.74	5.7
4500	3.88	5	2.84	5	5	5	4.67
4800	3.35	4.39	2.27	4.39	4.39	4.39	3.88
5100	2.92	3.89	1.84	3.84	3.89	3.89	3.27
5400	2.57	3.47	1.51	3.27	3.47	3.47	2.78
5700	2.27	3.12	1.24	2.77	3.12	3.12	2.39
6000	2.03	2.81	1.03	2.26	2.81	2.81	2.07
6300	1.82	2.55	0.86	1.94	2.55	2.55	1.8
6600	1.64	2.32	0.72	1.68	2.32	2.32	1.57
6900	1.49	2.13	0.62	1.46	2.13	2.13	1.38
7200	1.36	1.95	0.53	1.28	1.95	1.95	1.22
7500	1.24	1.8	0.46	1.12	1.78	1.8	1.08

SINGLE SPAN: C/Z 20019 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
7800	1.14	1.66	0.4	0.99	1.59	1.66	0.96
8100	1.05	1.54		0.86	1.43	1.54	0.86
8400	0.97	1.44		0.76	1.27	1.44	0.77
8700	0.9	1.34		0.67	1.13	1.34	0.7
9000	0.84	1.25		0.6	0.98	1.25	0.63
9300	0.78	1.17		0.53	0.89	1.17	0.58
9600	0.73	1.1		0.47	0.8	1.1	0.52
9900	0.68	1.03		0.42	0.73	1.03	0.48
10200	0.64	0.97			0.66	0.95	0.44
10500	0.6	0.92			0.61	0.87	0.4
10800	0.56	0.87			0.55	0.8	0.37
11100	0.53	0.82			0.51	0.74	0.34
11400	0.5	0.78			0.47	0.68	0.31
11700	0.48	0.74			0.43	0.62	0.29
12000	0.45	0.7				0.55	0.27

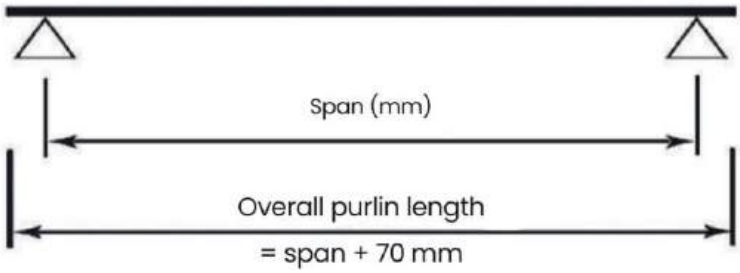
SINGLE SPAN: C/Z 20024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
3000	13.7	16.35	16.35	16.35	14.57	16.35	16.35	16.35	19.93
3300	10.79	13.52	13.52	13.52	11.11	13.52	13.52	13.52	15.19
3600	8.65	11.36	11.36	11.36	8.32	11.36	11.36	11.36	11.89
3900	7.08	9.68	9.68	9.68	6.38	9.68	9.68	9.68	9.49
4200	5.91	8.34	8.34	8.34	4.95	8.34	8.34	8.34	7.67
4500	5	7.27	7.27	7.27	3.86	7.23	7.27	7.27	6.27
4800	4.29	6.39	6.39	6.39	3.06	6.14	6.39	6.39	5.19
5100	3.72	5.66	5.66	5.66	2.46	5.26	5.66	5.66	4.35
5400	3.26	5.05	5.05	5.05	2	4.53	5.05	5.05	3.69
5700	2.88	4.53	4.53	4.53	1.65	3.91	4.53	4.53	3.15
6000	2.55	4.05	4.09	4.09	1.38	3.35	4.09	4.09	2.7

SINGLE SPAN: C/Z 20024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
6300	2.28	3.64	3.71	3.71	1.16	2.84	3.71	3.71	2.34
6600	2.04	3.28	3.38	3.38	0.98	2.43	3.36	3.38	2.03
6900	1.84	2.98	3.09	3.09	0.84	2.09	3.01	3.09	1.78
7200	1.67	2.71	2.84	2.84	0.72	1.82	2.7	2.84	1.57
7500	1.52	2.48	2.62	2.62	0.63	1.57	2.43	2.62	1.38
7800	1.39	2.27	2.42	2.42	0.55	1.36	2.2	2.42	1.23
8100	1.28	2.09	2.24	2.24	0.48	1.19	1.99	2.24	1.1
8400	1.18	1.93	2.09	2.09	0.42	1.04	1.8	2.09	0.99
8700	1.09	1.79	1.95	1.95		0.91	1.62	1.95	0.89
9000	1.01	1.66	1.82	1.82		0.81	1.45	1.79	0.8
9300	0.93	1.55	1.7	1.7		0.72	1.3	1.65	0.73
9600	0.87	1.44	1.6	1.6		0.64	1.17	1.52	0.66
9900	0.81	1.35	1.49	1.5		0.57	1.05	1.41	0.6
10200	0.76	1.27	1.4	1.42		0.51	0.95	1.3	0.55
10500	0.71	1.19	1.31	1.34		0.46	0.86	1.21	0.5
10800	0.67	1.12	1.23	1.26		0.41	0.78	1.12	0.46
11100	0.63	1.06	1.16	1.2			0.71	1.04	0.43
11400	0.59	1	1.09	1.13			0.64	0.96	0.39
11700	0.56	0.94	1.03	1.08			0.59	0.89	0.37
12000	0.53	0.89	0.98	1.02			0.53	0.82	0.34

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

SINGLE SPAN: C/Z 250 SERIES (KN/M)



SINGLE SPAN: C/Z 25019 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
3000	13.83	14.28	14.17	14.28	14.28	14.28	24.52
3300	10.9	11.8	10.06	11.8	11.8	11.8	18.42
3600	8.51	9.92	7.64	9.92	9.92	9.92	14.19
3900	7.04	8.45	5.92	8.45	8.45	8.45	11.16
4200	5.91	7.28	4.67	7.28	7.28	7.28	9.07
4500	5.04	6.35	3.69	6.35	6.35	6.35	7.54
4800	4.34	5.58	2.936	5.58	5.58	5.58	6.35
5100	3.78	4.94	2.37	4.94	4.94	4.94	5.38
5400	3.32	4.41	1.94	4.39	4.41	4.41	4.56
5700	2.94	3.96	1.58	3.68	3.96	3.96	3.9
6000	2.62	3.57	1.31	3.01	3.57	3.57	3.37
6300	2.35	3.24	1.09	2.58	3.24	3.24	2.93
6600	2.12	2.95	0.92	2.22	2.95	2.95	2.57
6900	1.92	2.7	0.78	1.92	2.7	2.7	2.26
7200	1.75	2.48	0.67	1.68	2.48	2.48	2
7500	1.6	2.28	0.57	1.47	2.28	2.28	1.78
7800	1.46	2.11	0.5	1.29	2.11	2.11	1.6
8100	1.35	1.96	0.43	1.12	1.91	1.96	1.43
8400	1.24	1.82		0.98	1.69	1.82	1.29
8700	1.15	1.7		0.87	1.46	1.7	1.16
9000	1.07	1.59		0.77	1.31	1.59	1.05

SINGLE SPAN: C/Z 25019 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
9300	1	1.49		0.69	1.18	1.49	0.95
9600	0.93	1.39		0.61	1.06	1.39	0.87
9900	0.87	1.31		0.54	0.96	1.31	0.79
10200	0.82	1.24		0.49	0.87	1.24	0.73
10500	0.77	1.17		0.44	0.8	1.17	0.67
10800	0.72	1.1			0.73	1.07	0.61
11100	0.68	1.04			0.66	0.98	0.57
11400	0.64	0.99			0.61	0.9	0.53
11700	0.61	0.94			0.55	0.8	0.49
12000	0.58	0.89			0.5	0.74	0.45

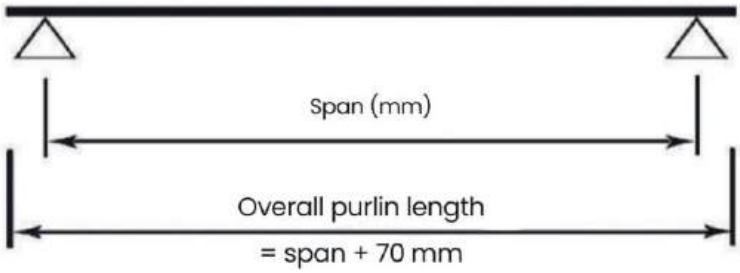
SINGLE SPAN: C/Z 25024 (KN/M)								
IN				OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2,3	0	1	2	3	SPAN/150
3000	17.71	20.96	20.96	19.42	20.96	20.96	20.96	33.82
3300	13.78	17.32	17.32	14.58	17.32	17.32	17.32	25.41
3600	11.02	14.56	14.56	10.84	14.56	14.56	14.56	79.57
3900	9.01	12.4	12.4	8029	12.4	12.4	12.4	15.46
4200	7.5	10.69	10.69	6.39	10.69	10.69	10.69	12.53
4500	6.34	9.32	9.32	4.97	9.32	9.32	9.32	10.3
4800	5.43	8.19	8.19	3.93	8.19	8.19	8.19	8.58
5100	4.71	7.25	7.25	3.15	7.03	7.25	7.25	7.22
5400	4.11	6.47	6.47	2.55	6.03	6.47	6.47	6.11
5700	3.61	5.81	5.81	2.1	5.16	5.81	5.81	5.21
6000	3.19	5.24	5.24	1.74	4.38	5.24	5.24	4.48
6300	2.85	4.75	4.75	1.46	3.7	4.75	4.75	3.89
6600	2.55	4.33	4.33	1.23	3.16	4.33	4.33	3.4
6900	2.3	3.96	3.96	1.05	2.72	3.96	3.96	2.99
7200	2.08	3.6	3.64	0.9	2.35	3.62	3.64	2.64
7500	1.9	3.29	3.35	0.78	2.03	3.25	3.35	2.34

SINGLE SPAN: C/Z 25024 (KN/M)								
IN				OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2,3	0	1	2	3	SPAN/150
7800	1.73	3.01	3.1	0.68	1.75	2.93	3.1	2.08
8100	1.59	2.77	2.88	0.59	1.53	2.64	2.88	1.86
8400	1.46	2.56	2.67	0.52	1.33	2.37	2.67	1.67
8700	1.35	2.36	2.49	0.46	1.17	2.12	2.49	1.5
9000	1.25	2.19	2.33	0.41	1.03	1.89	2.33	1.36
9300	1.16	2.04	2.18		0.91	1.69	2.18	1.23
9600	1.08	1.9	1.05		0.81	1.52	2.04	1.12
9900	1.01	1.78	1.93		0.72	1.36	1.88	1.02
10200	0.94	1.67	1.81		0.65	1.23	1.74	0.93
10500	0.88	1.56	1.71		0.58	1.12	1.61	0.85
10800	0.83	1.47	1.62		0.52	1.01	1.49	0.78
11100	0.78	1.38	1.53		0.47	0.92	1.37	0.72
11400	0.74	1.3	1.45		0.43	0.83	1.26	0.67
11700	0.69	1.23	1.38			0.75	1.16	0.62
12000	0.66	1.16	1.3			0.69	1.07	0.57

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

SINGLE SPAN: C/Z 300 SERIES (KN/M)



SINGLE SPAN: C/Z 30024 (KN/M)									
	IN				OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
6000	4.5	7.2	7.2	7.2	3.84	7.2	7.2	7.2	7.44
6300	3.99	6.53	6.53	6.53	3.21	6.53	6.53	6.53	6.46
6600	3.57	5.95	5.95	5.95	2.7	5.93	5.95	5.95	5.65
6900	3.21	5.44	5.44	5.44	2.29	5.24	5.44	5.44	4.97
7200	2.89	5	5	5	1.96	4.61	5	5	4.4
7500	2.61	4.61	4.61	4.61	1.68	4.03	4.61	4.61	3.93
7800	2.37	4.26	4.26	4.26	1.45	3.54	4.26	4.26	3.52
8100	2.17	3.95	3.95	3.95	1.27	3.08	3.95	3.95	3.17
8400	1.99	3.67	3.67	3.67	1.11	2.75	3.67	3.67	2.86
8700	1.83	3.4	3.42	3.42	0.97	2.47	3.42	3.42	2.6
9000	1.68	3.14	3.2	3.2	0.86	2.22	3.2	3.2	2.35
9300	1.56	2.91	3	3	0.76	2.01	3	3	0.14
9600	1.45	2.7	2.81	2.81	0.68	1.8	2.81	2.81	1.95
9900	1.35	2.51	2.64	2.64	0.61	1.62	2.6	2.64	1.79
10200	1.25	2.34	2.49	2.49	0.54	1.47	2.39	2.49	1.64
10500	1.17	2.18	2.35	2.35	0.49	1.32	2.19	2.35	1.5
10800	1.1	2.04	2.22	2.22	0.44	1.18	2	2.22	1.38
11100	1.03	1.91	2.1	2.1	0.4	1.07	1.83	2.1	1.27
11400	0.97	1.79	1.99	1.99		0.97	1.67	1.99	1.18
11700	0.91	1.68	1.89	1.89		0.88	1.53	1.89	1.09

SINGLE SPAN: C/Z 30024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
12000	0.86	1.58	1.8	1.8		0.8	1.39	1.8	1.01
12300	0.81	1.48	1.71	1.71		0.73	1.29	1.71	0.94
12600	0.77	1.4	1.63	1.63		0.66	1.2	1.63	0.87
12900	0.73	1.32	1.56	1.56		0.61	1.11	1.56	0.81
13200	0.69	1.25	1.49	1.49		0.56	1.04	1.46	0.76
13500	0.66	1.19	1.42	1.42		0.51	0.97	1.37	0.71
13800	0.63	1.13	1.36	1.36		0.47	0.9	1.29	0.66
14100	0.6	1.07	1.3	1.3		0.43	0.84	1.21	0.62
14400	0.57	1.02	1.25	1.25		0.4	0.78	1.13	0.58
14700	0.5	0.97	1.19	1.2			0.73	1.05	0.55
15000	0.52	0.91	1.13	1.15			0.68	0.98	0.52
15300	0.5	0.87	1.08	1.11			0.63	0.92	0.49
15600	0.48	0.83	1.03	1.07			0.59	0.86	0.46
15900	0.46	0.8	0.99	1.03			0.54	0.8	0.43
16200	0.44	0.77	0.95	0.99			0.51	0.75	0.41
16500	0.42	0.73	0.91	0.95			0.47	0.71	0.39
16800	0.4	0.71	0.87	0.92			0.44	0.67	0.37
17100		0.68	0.84	0.89			0.41	0.64	0.35
17400		0.65	0.8	0.86				0.6	0.33
17700		0.63	0.77	0.83				0.57	0.31
18000		0.6	0.74	0.8				0.54	0.3

SINGLE SPAN: C/Z 30024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
6000	5.21	10.26	10.26	10.26	5.04	10.26	10.26	10.26	9.95
6300	4.59	9.31	9.31	9.31	4.22	9.11	9.31	9.31	8.64
6600	4.06	8.46	8.48	8.48	3.56	8.09	8.48	8.48	7.56

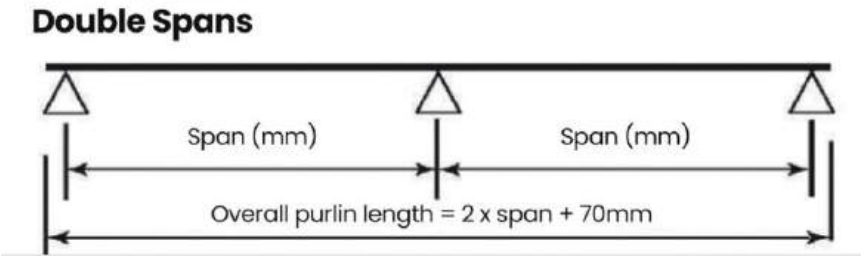
SINGLE SPAN: C/Z 30024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
6900	3.63	7.63	7.76	7.76	3.03	7.21	7.76	7.76	6.66
7200	3.25	6.91	7.13	7.13	2.59	6.44	7.13	7.13	5.86
7500	2.94	6.29	6.57	6.57	2.23	5.74	6.57	6.57	5.18
7800	2.66	5.74	6.07	6.07	1.94	5.05	6.07	6.07	4.16
8100	2.43	5.26	5.63	5.63	1.69	4.47	5.63	5.63	4.12
8400	2.22	4.83	5.24	5.24	1.48	3.95	5.24	5.24	3.69
8700	2.04	4.45	4.88	4.88	1.3	3.48	4.88	4.88	3.32
9000	1.88	4.11	4.56	4.56	1.15	3.07	4.53	4.56	3
9300	1.73	3.8	4.27	4.27	1.02	2.73	4.17	4.27	2.72
9600	1.61	3.52	4.01	4.01	0.91	2.43	3.85	4.01	2.47
9900	1.49	3.26	3.77	3.77	0.82	2.17	3.56	3.77	2.25
10200	1.39	3.02	3.55	3.55	0.74	1.94	3.29	3.55	2.06
10500	1.3	2.8	3.35	3.35	0.67	1.74	3.05	3.35	1.89
10800	1.22	2.61	3.16	3.17	0.6	1.57	2.82	3.17	1.74
11100	1.14	2.44	2.97	3	0.55	1.42	2.6	3	1.6
11400	1.07	2.28	2.79	2.84	0.5	1.29	2.39	2.84	1.48
11700	1.01	2.14	2.63	2.7	0.46	1.17	2.19	2.7	1.37
12000	0.95	2.01	2.48	2.57	0.42	1.06	2.02	2.55	1.27
12300	0.9	1.89	2.34	2.44		0.97	1.86	2.4	1.18
12600	0.85	1.78	2.21	2.33		0.89	1.7	2.26	1.09
12900	0.81	1.67	2.1	2.22		0.81	1.56	2.12	1.02
13200	0.76	1.58	1.99	2.12		0.75	1.44	2	0.95
13500	0.73	1.49	1.89	2.03		0.69	1.32	1.89	0.89
13800	0.69	1.41	1.79	1.94		0.63	1.22	1.78	0.83
14100	0.66	1.3	1.71	1.86		0.58	1.13	1.68	0.78
14400	0.63	1.27	1.62	1.78		0.54	1.04	1.59	0.73
14700	0.6	1.2	1.55	1.71		0.5	0.97	1.5	0.69
15000	0.57	1.15	1.48	1.63		0.47	0.9	1.4	0.65
15300	0.55	1.09	1.41	1.56		0.43	0.83	1.32	0.61
15600	0.52	1.04	1.35	1.49		0.4	0.78	1.23	0.58

SINGLE SPAN: C/Z 30024 (KN/M)									
IN					OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1	2	3	0	1	2	3	SPAN/150
15900	0.5	0.99	1.29	1.43			0.72	1.16	0.54
16200	0.48	0.95	1.23	1.37			0.68	1.09	0.51
16500	0.46	0.91	1.17	1.31			0.63	1.02	0.49
16800	0.44	0.87	1.12	1.26			0.59	0.96	0.46
17100	0.43	0.83	1.07	1.21			0.55	0.9	0.44
17400	0.41	0.8	1.03	1.16			0.52	0.84	0.42
17700	0.4	0.76	0.98	1.11			0.49	0.79	0.39
18000		0.73	0.94	1.07			0.46	0.75	0.38

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE CONTINUOUS SPAN: C/Z 100 SERIES (KN/M)

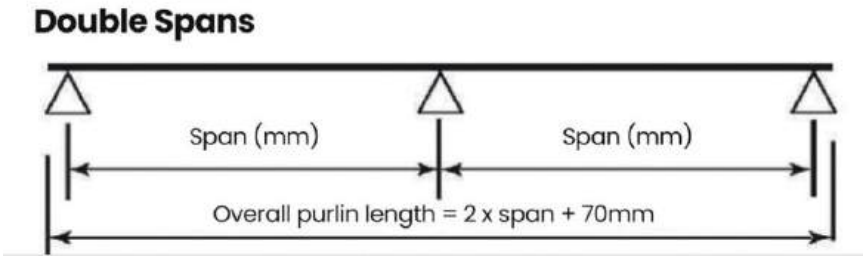


DOUBLE SPAN: C/Z 10019 (KN/M)							
IN			OUT				LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	3	SPAN/150
2100	8.68	8.79	8.79	8.79	8.79	8.79	17.31
2400	6.5	6.73	6.73	6.73	6.73	6.73	11.59
2700	5.02	5.32	5.32	5.32	5.32	5.32	8.14
3000	3.97	4.31	4.31	4.31	4.31	4.31	5.94
3300	3.22	3.56	3.56	3.56	3.56	3.56	4.46
3600	2.66	2.99	2.99	2.99	2.99	2.99	3.44
3900	2.22	2.55	2.28	2.55	2.55	2.55	2.72
4200	1.89	2.2	1.87	2.2	2.2	2.2	2.18
4500	1.62	1.91	1.55	1.91	1.91	1.91	1.78
4800	1.4	1.68	1.28	1.67	1.68	1.68	1.47
5100	1.22	1.49	1.07	1.45	1.49	1.49	1.23
5400	1.07	1.33	0.9	1.25	1.33	1.33	1.02
5700	0.94	1.19	0.76	1.08	1.19	1.19	0.89
6000	0.83	1.08	0.65	0.94	1.08	1.08	0.77
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM							
6300	0.74	0.98	0.56	0.82	0.98	0.98	0.66
6600	0.66	0.89	0.48	0.72	0.89	0.89	0.58
6900	0.59	0.81	0.42	0.63	0.8	0.81	0.5
7200	0.54	0.75		0.55	0.72	0.75	0.44
7500	0.48	0.69		0.49	0.6	0.69	0.39

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE CONTINUOUS SPAN: C/Z 150 SERIES (KN/M)



DOUBLE SPAN: Z/C 15015 (KN/M)							
BRIDGING > SPAN (MM)	LOAD FOR DEFLECTION	IN		OUT			LOAD FOR DEFLECTION
	SPAN/150	0	1,2,3	0	1	2, 3	SPAN/150
2100	27.65	10.29	10.29	10.29	10.29	10.29	37.56
2400	18.52	8.28	8.28	8.28	8.28	8.28	25.16
2700	13.01	6.73	6.73	6.73	6.73	6.73	17.67
3000	9.48	5.45	5.45	5.45	5.45	5.45	12.88
3300	7.12	4.48	4.5	4.5	4.5	4.5	9.68
3600	5.49	3.69	3.78	3.78	3.78	3.78	7.46
3900	4.32	3.09	3.22	3.22	3.22	3.22	5.86
4200	3.46	2.62	2.78	2.78	2.78	2.78	4.7
4500	2.81	2.24	2.42	2.4	2.42	2.42	3.82
4800	2.32	1.94	2.13	2.02	2.13	2.13	3.15
5100	1.93	4.69	1.89	1.71	1.89	1.89	2.62
5400	1.63	1.48	1.68	1.44	1.68	1.68	2.21
5700	1.41	1.3	1.51	1.21	1.51	1.51	1.88
6000	1.23	1.15	1.36	1.01	1.36	1.36	1.62
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM							
6300	1.07	1.02	1.24	0.87	1.24	1.24	1.41
6600	0.95	0.91	1.13	0.76	1.13	1.13	1.23
6900	0.84	0.8	1.03	0.67	1	1.03	1.09
7200	0.75	0.72	0.95	0.59	0.89	0.95	0.96
7500	0.66	0.65	0.87	0.52	0.8	0.87	0.85
7800	0.59	0.59	0.81	0.45	0.71	0.81	0.76
8100	0.53	0.54	0.75	0.4	0.63	0.75	0.68

DOUBLE SPAN: Z/C 15019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	7.01	7.68	7.68	7.68	7.68	7.68	7.68	16.81
3300	5.67	6.35	6.35	6.35	6.35	6.35	6.35	12.63
3600	4.68	5.33	5.33	5.33	5.33	5.33	5.33	9.73
3900	3.92	4.55	4.55	4.51	4.55	4.55	4.55	7.65
4200	3.32	3.92	3.92	3.76	3.92	3.92	3.92	6.13
4500	2.83	3.41	3.41	3.17	3.41	3.41	3.41	4.98
4800	2.44	3	3	2.69	3	3	3	4.1
5100	2.12	2.66	2.66	2.3	2.66	2.66	2.66	3.42
5400	1.86	2.37	2.37	1.96	2.37	2.37	2.37	2.88
5700	1.64	2.13	2.13	1.68	2.13	2.13	2.13	2.47
6000	1.45	1.92	1.92	1.43	1.9	1.92	1.92	2.13
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
6300	1.29	1.74	1.74	1.22	1.68	1.74	1.74	1.86
6600	1.16	1.59	1.59	1.05	1.5	1.59	1.59	1.63
6900	1.04	1.45	1.45	0.91	1.34	1.45	1.45	1.44
7200	0.93	1.33	1.33	0.8	1.02	1.33	1.33	1.27
7500	0.85	1.23	1.23	0.7	1.07	1.23	1.23	1.14
7800	0.77	1.14	1.14	0.62	0.97	1.14	1.14	1.02
8100	0.7	1.05	1.05	0.54	0.87	1.05	1.05	0.91
8400	0.64	0.98	0.98	0.48	0.78	0.96	0.98	0.82
8700	0.59	0.9	0.91	0.43	0.7	0.88	0.91	0.74
9000	0.54	0.84	0.85		0.62	0.81	0.85	0.67

DOUBLE SPAN: Z/C 15024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	9.34	10.82	10.82	10.82	10.82	10.82	10.82	22.42
3300	7.5	8.94	8.94	8.94	8.94	8.94	8.94	16.84
3600	6.13	7.52	7.52	7.52	7.52	7.52	7.52	12.97
3900	5.07	6.4	6.4	6.4	6.4	6.4	6.4	10.2
4200	4.23	5.52	5.52	5.3	5.52	5.52	5.52	8.17

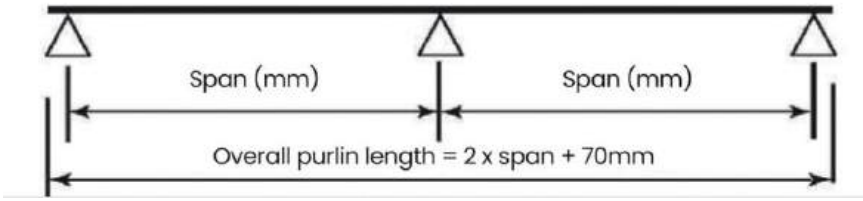
DOUBLE SPAN: Z/C 15024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
4500	3.57	4.81	4.81	4.43	4.81	4.81	4.81	6.64
4800	3.05	4.23	4.23	3.74	4.23	4.23	4.23	5.47
5100	2.64	3.74	3.74	3.18	3.74	3.74	3.74	4.56
5400	2.3	3.34	3.34	2.72	3.34	3.34	3.34	3.85
5700	2.01	3	3	2.31	3	3	3	3.28
6000	1.78	2.71	2.71	1.95	2.71	2.71	2.71	2.82
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
6300	1.58	2.45	2.45	1.67	2.39	2.45	2.45	2.45
6600	1.41	2.24	2.24	1.43	2.11	2.24	2.24	2.14
6900	1.27	2.05	2.05	1.24	1.88	2.05	2.05	1.88
7200	1.15	1.88	1.88	1.08	1.68	1.88	1.88	1.67
7500	1.04	1.73	1.73	0.94	1.5	1.73	1.73	1.48
7800	0.94	1.6	1.6	0.83	1.35	1.6	1.6	1.31
8100	0.86	1.48	1.48	0.74	1.22	1.48	1.48	1.17
8400	0.79	1.36	1.38	0.66	1.09	1.37	1.38	1.05
8700	0.72	1.25	1.29	0.59	0.97	1.25	1.29	0.95
9000	0.66	1.16	1.2	0.53	0.87	1.15	1.2	0.86

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE CONTINUOUS SPAN: C/Z 200 SERIES (KN/M)

Double Spans



DOUBLE SPAN: C/Z 20015 (KN/M)						
IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2	SPAN/150
3000	6.1	6.1	6.1	6.1	6.1	25.47
3300	5.3	5.3	5.3	5.3	5.3	19.14
3600	4.64	4.64	4.64	4.64	4.64	14.74
3900	4.1	4.1	4.1	4.1	4.1	11.59
4200	3.64	3.64	3.64	3.64	3.64	9.28
4500	3.23	3.25	3.25	3.25	3.25	7.55
4800	2.79	2.88	2.88	2.88	2.88	6.22
5100	2.43	2.56	2.56	2.56	2.56	5.19
5400	2.14	2.28	2.28	2.28	2.28	4.37
5700	1.88	2.05	2.05	2.05	2.05	3.71
6000	1.66	1.8	1.85	1.85	1.85	3.18
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
6300	1.45	1.67	1.57	1.67	1.67	2.75
6600	1.32	1.53	1.35	1.53	1.53	2.39
6900	1.19	1.4	1.17	1.4	1.4	2.09
7200	1.07	1.28	1.02	1.28	1.28	1.84
7500	0.97	1.18	0.89	1.18	1.18	1.63
7800	0.89	1.09	0.79	1.09	1.09	1.45
8100	0.81	1.01	0.69	1.01	1.01	1.3
8400	0.74	0.94	0.62	0.94	0.94	1.18
8700	0.68	0.88	0.55	0.87	0.88	1.07
9000	0.62	0.82	0.47	0.79	0.82	0.98

DOUBLE SPAN: C/Z 20019 (KN/M)						
IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2, 3	SPAN/150
3000	10.69	10.69	10.69	10.7	10.7	36.3
3300	8.88	9.16	9.16	9.16	9.16	27.27
3600	7.24	7.81	7.81	7.81	7.81	21
3900	5.96	6.66	6.66	6.66	6.66	16.52
4200	4.96	5.74	5.74	5.74	5.74	13.23
4500	4.19	5	5	5	5	10.75
4800	3.47	4.39	4.39	4.39	4.39	8.86
5100	3.01	3.89	3.89	3.89	3.89	7.39
5400	2.63	3.47	3.46	3.47	3.47	6.22
5700	2.32	3.12	2.99	3.12	3.12	5.29
6000	2.06	2.81	2.59	2.81	2.81	4.54
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
6300	1.84	2.55	2.23	2.55	2.55	3.92
6600	1.65	2.32	1.86	2.32	2.32	3.41
6900	1.49	2.13	1.63	2.13	2.13	2.98
7200	1.35	1.95	1.43	1.95	1.95	2.63
7500	1.23	1.8	1.26	1.8	1.8	2.32
7800	1.12	1.66	1.12	1.66	1.66	2.08
8100	1.02	1.54	1	1.54	1.54	1.86
8400	0.94	1.44	0.9	1.4	1.44	1.68
8700	0.87	1.34	0.81	1.27	1.34	1.52
9000	0.8	1.25	0.72	1.15	1.25	1.37

DOUBLE SPAN: C/Z 20024 (KN/M)						
IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAM (MM)	0	1,2,3	0	1	2, 3	SPAN/150
3000	13.82	13.82	13.82	13.82	13.82	47.93
3300	11.73	12.57	12.57	12.57	12.57	36.01
3600	9.48	11.36	11.36	11.36	11.36	27.73
3900	7.76	9.68	9.68	9.68	9.68	21.81

DOUBLE SPAN: C/Z 20024 (KN/M)						
	IN		OUT			LOAD FOR DEFLECTION
BRIDGING > SPAM (MM)	0	1,2,3	0	1	2, 3	SPAN/150
4200	6.42	8.34	8.34	8.34	8.34	17.47
4500	5.39	7.27	7.27	7.27	7.27	14.2
4800	4.59	6.39	6.3	6.39	6.39	11.7
5100	3.96	5.66	5.42	5.66	5.66	9.76
5400	3.44	5.05	4.7	5.05	5.05	8.22
5700	3.02	4.53	4.09	4.53	4.53	6.99
6000	2.67	4.09	3.58	4.09	4.09	5.99
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
6300	2.38	3.71	3.12	3.71	3.71	5.18
6600	2.13	3.38	2.72	3.38	3.38	4.5
6900	1.91	3.09	2.35	3.09	3.09	3.94
7200	1.72	2.84	2.05	2.83	2.84	3.47
7500	1.55	2.62	1.8	2.56	2.62	0.08
7800	1.41	2.42	1.59	2.32	2.42	2.76
8100	1.29	2.24	1.42	2.11	2.24	2.48
8400	1.18	2.09	1.25	1.92	2.09	2.24
8700	1.08	1.95	1.11	1.75	1.95	2.03
9000	0.99	1.8	0.99	1.6	1.82	1.84

DOUBLE SPAN: C/Z 25019 (KN/M)						
	IN		OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2, 3	SPAN/150
4500	5.27	5.83	5.83	5.83	5.83	17.47
4800	4.51	5.26	5.26	5.26	5.26	14.39
5100	3.9	4.77	4.77	4.77	4.77	12
5400	3.41	4.35	4.35	4.35	4.35	10.11
5700	3	3.96	3.96	3.96	3.96	8.59
6000	2.66	3.57	3.44	3.57	3.57	7.37
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
6300	2.37	3.24	2.94	3.24	3.24	6.37
6600	2.12	2.95	2.46	2.95	2.95	5.54

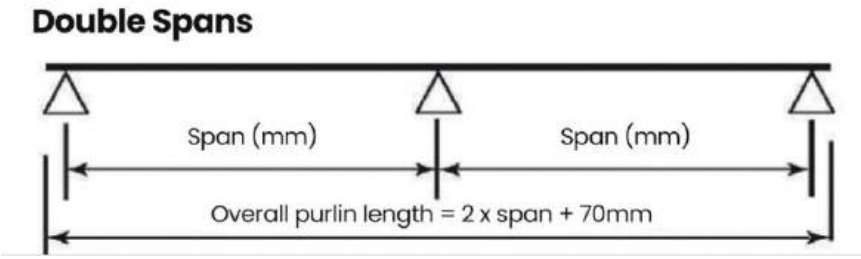
DOUBLE SPAN: C/Z 25019 (KN/M)						
IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2, 3	SPAN/150
6900	1.91	2.7	2.15	2.7	2.7	4.85
7200	1.73	2.48	1.88	2.48	2.48	4.26
7500	1.57	2.28	1.66	2.28	2.28	3.77
7800	1.43	2.11	1.47	2.11	2.11	3.35
8100	1.31	1.96	1.31	1.96	1.96	3
8400	1.2	1.82	1.17	1.82	1.82	2.69
8700	1.11	1.7	1.04	1.69	1.7	2.42
9000	1.02	1.59	0.93	1.53	1.59	2.18

DOUBLE SPAN: C/Z 25024 (KN/M)						
IN			OUT			LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1	2, 3	SPAN/150
4500	6.82	9.22	9.22	9.22	9.22	24.09
4800	5.8	8.91	8.19	8.19	8.19	19.85
5100	4.99	7.25	7.25	7.25	7.25	16.55
5400	4.34	6.47	6.27	6.47	6.47	13.94
5700	3.81	5.81	5.45	5.81	5.81	11.85
6000	3.36	5.24	4.74	5.24	5.24	10.16
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
6300	2.97	4.75	4.1	4.75	4.75	8.78
6600	2.65	4.33	3.53	4.33	4.33	7.64
6900	2.37	3.96	3.05	3.96	3.96	6.68
7200	2.13	3.64	2.65	3.64	3.64	5.88
7500	1.93	3.35	2.32	3.35	3.35	5.2
7800	1.75	3.1	2.05	3.1	3.1	4.63
8100	1.59	2.88	1.81	2.82	2.88	4.13
8400	1.46	2.67	1.59	2.56	2.67	3.7
8700	1.34	2.49	1.41	2.33	2.49	3.33
9000	1.23	2.33	1.25	2.13	2.33	3.01

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE CONTINUOUS SPAN: C/Z 300 SERIES (KN/M)



DOUBLE SPAN: C/Z 30024 (KN/M)					
	IN		OUT		LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1, 2, 3	SPAN/150
6000	4.86	6.83	6.83	6.83	16.87
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM					
6300	4.31	6.31	6.31	6.31	14.57
6600	3.83	5.84	5.84	5.84	12.67
6900	3.42	5.41	5.41	5.41	11.09
7200	3.08	5	4.84	5	9.76
7500	2.78	4.61	4.32	4.61	8.64
7800	2.53	4.26	3.82	4.26	7.68
8100	2.3	3.95	3.38	3.95	6.85
8400	2.1	3.67	3.01	3.67	6.15
8700	1.92	3.42	2.65	3.42	5.53
9000	1.76	3.2	2.4	3.2	5
9300	1.62	3	2.17	3	4.53
9600	1.5	2.81	1.98	2.81	4.12

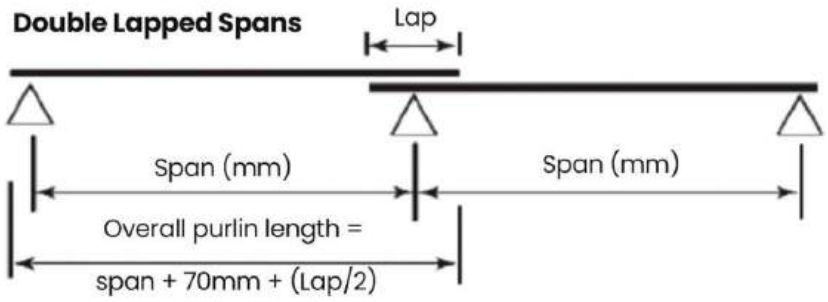
DOUBLE SPAN: C/Z 30030 (KN/M)					
	IN		OUT		LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1, 2, 3	SPAN/150
6000	5.91	10.26	10.26	10.26	22.55
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM					
6300	5.17	9.31	9.26	9.31	19.44
6600	4.56	8.48	8.24	8.48	16.91
6900	4.05	7.76	7.37	7.76	14.79

DOUBLE SPAN: C/Z 30030 (KN/M)					
	IN		OUT		LOAD FOR DEFLECTION
BRIDGING > SPAN (MM)	0	1,2,3	0	1, 2, 3	SPAN/150
7200	3.62	7.13	6.61	7.13	13.02
7500	3.25	6.57	5.95	6.57	11.52
7800	2.93	6.07	5.34	6.07	10.24
8100	2.66	5.63	4.76	5.63	9.15
8400	2.42	5.24	4.25	5.24	8.2
8700	2.21	4.88	3.8	4.88	7.38
9000	2.03	4.56	3.39	4.56	6.67
9300	1.87	4.27	3.03	4.27	6.04
9600	1.72	4.01	2.71	4.01	5.49

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 100 SERIES (KN/M)

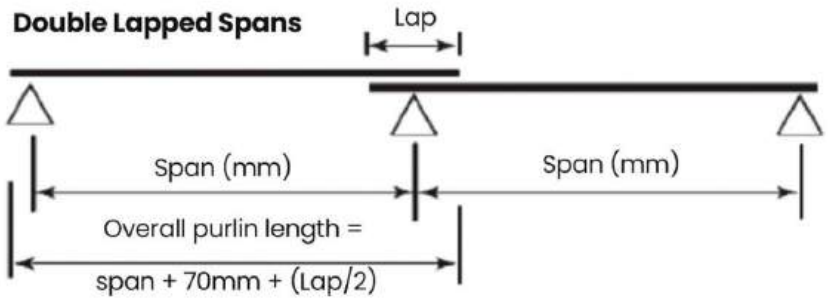


DOUBLE LAPPED SPAN: C/Z 10019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
2100	15.08	15.08	15.08	15.08	15.08	15.08	15.08	21.19
2400	11.7	11.7	11.7	11.7	11.7	11.7	11.7	13.97
2700	6.57	8.63	8.63	8.49	8.63	8.63	8.63	9.67
3000	5.02	6.59	6.59	6.24	6.59	6.59	6.59	6.96
3300	3.96	5.2	5.2	4.7	5.2	5.2	5.2	5.18
3600	3.19	4.21	4.21	3.63	4.21	4.21	4.21	3.95
3900	2.62	3.48	3.48	2.86	3.48	3.48	3.48	3.08
4200	2.19	2.92	2.92	2.27	2.92	2.92	2.92	2.45
4500	1.85	2.49	2.49	1.82	2.48	2.49	2.49	1.98
4800	1.58	2.15	2.15	1.48	2.09	2.15	2.15	1.63
5100	1.36	1.87	1.87	1.22	1.77	1.87	1.87	1.36
5400	1.19	1.65	1.65	1.01	1.5	1.65	1.65	1.14
5700	1.04	1.46	1.46	0.84	1.29	1.46	1.46	0.97
6000	0.92	1.3	1.3	0.71	1.11	1.3	1.3	0.83
6300	0.84	1.26	1.3	0.63	1.03	1.26	1.3	0.74
6600	0.75	1.12	1.17	0.54	0.88	1.11	1.17	0.64
6900	0.67	1	1.05	0.47	0.76	0.97	1.05	0.56
7200	0.6	0.9	0.96	0.41	0.66	0.86	0.96	0.5
7500	0.54	0.81	0.87		0.58	0.76	0.87	0.44
7800	0.49	0.73	0.8		0.51	0.68	0.78	0.39

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 150 SERIES (KN/M)

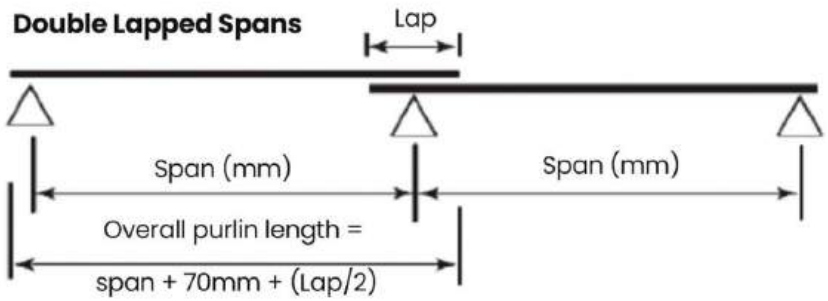


DOUBLE LAPPED SPAN: C/Z 15015 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
2400	14.23	14.23	14.23	14.23	14.23	14.23	14.23	31.72
2700	11.37	11.37	11.37	11.37	11.37	11.37	11.37	22.02
3000	9.3	9.3	9.3	9.3	9.3	9.3	9.3	15.86
3300	7.76	7.76	7.76	7.76	7.76	7.76	7.76	11.79
3600	6.53	6.53	6.53	6.53	6.53	6.53	6.53	8.99
3900	3.39	5.36	5.36	5.17	5.36	5.36	5.36	7
4200	3.13	4.42	4.42	4.1	4.42	4.42	4.42	5.55
4500	2.63	3.7	3.7	3.28	3.7	3.7	3.7	4.48
4800	2.23	3.15	3.15	2.63	3.15	3.15	3.15	3.66
5100	1.92	2.72	2.72	2.08	2.72	2.72	2.72	3.03
5400	1.67	2.37	2.37	1.73	2.37	2.37	2.37	2.54
5700	1.46	2.08	2.08	1.45	2.08	2.08	2.08	2.15
6000	1.28	1.84	1.84	1.23	1.84	1.84	1.84	1.83
6300	1.14	1.64	1.64	1.05	1.64	1.64	1.64	1.57
6600	1.02	1.48	1.48	0.91	1.42	1.48	1.48	1.36
6900	0.91	1.33	1.33	0.79	0.25	1.33	1.33	1.19
7200	0.82	1.21	1.21	0.68	0.1	1.21	1.21	1.05
7500	0.74	1.1	1.1	0.59	0.96	1.1	1.1	0.93
7800	0.67	1.01	1.01	0.52	0.84	1.01	1.01	0.83
8100	0.61	0.93	0.93	0.45	0.72	0.93	0.93	0.74
8400	0.56	0.85	0.85	0.4	0.64	0.85	0.85	0.66
8700	0.51	0.79	0.79		0.57	0.79	0.79	0.6
9000	0.47	0.73	0.73		0.51	0.73	0.73	0.54
9300	0.45	0.71	0.73		0.48	0.73	0.73	0.5
9600	0.41	0.65	0.68		0.44	0.68	0.68	0.46
9900		0.6	0.63			0.63	0.63	0.42

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 150 SERIES (KN/M)



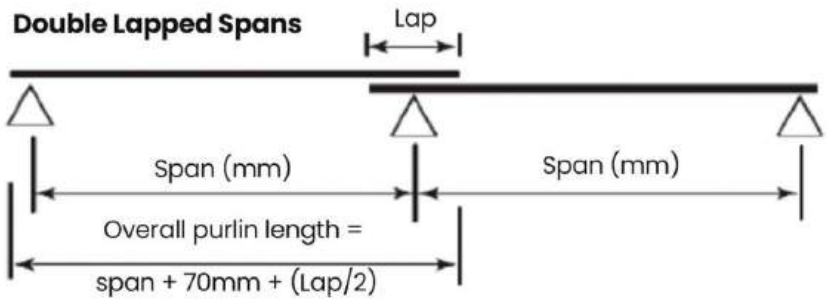
DOUBLE LAPPED SPAN: C/Z 15019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
2400	20.06	20.06	20.06	20.06	20.06	20.06	20.06	41.39
2700	15.8	16.03	16.03	16.03	16.03	16.03	16.03	28.73
3000	12.63	13.12	13.12	13.12	13.12	13.12	13.12	20.7
3300	10.31	10.94	10.94	10.94	10.94	10.94	10.94	15.38
3600	8.58	9.27	9.27	9.27	9.27	9.27	9.27	11.72
3900	4.75	7.55	7.55	6.84	7.55	7.55	7.55	9.13
4200	3.93	6.22	6.22	5.46	6.22	6.22	6.22	7.25
4500	3.3	5.22	5.22	4.42	5.22	5.22	5.22	5.84
4800	2.8	4.44	4.44	3.59	4.44	4.44	4.44	4.78
5100	2.41	3.83	3.83	2.95	3.83	3.83	3.83	3.96
5400	2.09	3.34	3.34	2.42	3.32	3.34	3.34	3.31
5700	7.83	2.93	2.93	2.01	2.85	2.93	2.93	2.8
6000	1.61	2.58	2.6	1.69	2.47	2.6	2.6	2.39
6300	1.43	2.29	2.32	1.44	2.16	2.32	2.32	2.05
6600	1.28	2.04	2.08	1.23	1.89	2.08	2.08	1.78
6900	1.14	1.83	1.88	1.05	1.67	1.88	1.88	1.56
7200	1.03	1.64	1.7	0.91	1.48	1.7	1.7	1.38
7500	0.93	1.49	1.55	0.79	1.3	1.55	1.55	1.22
7800	0.85	1.35	1.42	0.69	1.16	1.39	1.42	1.09
8100	0.77	1.23	1.3	0.6	1.03	1.26	1.31	0.98
8400	0.7	1.13	1.2	0.53	0.92	1.14	1.2	0.88
8700	0.64	1.03	1.1	0.47	0.81	1.04	1.11	0.8
9000	0.59	0.95	1.03	0.42	0.72	0.94	1.03	0.72
9300	0.55	0.92	1.03		0.67	0.9	1.02	0.67
9600	0.51	0.85	0.96		0.6	0.83	0.94	0.61
9900	0.47	0.78	0.89		0.54	0.76	0.86	0.56
10200	0.43	0.73	0.83		0.49	0.69	0.8	0.51
10500	0.4	0.67	0.77		0.44	0.63	0.73	0.46

DOUBLE LAPPED SPAN: C/Z 15024 (KN/M)								
Bridging > Span (mm)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
2400	21.18	21.18	21.18	21.18	21.18	21.18	21.18	55.2
2700	18.88	18.88	18.88	18.88	18.88	18.88	18.88	38.3
3000	17.03	17.03	17.03	17.03	17.03	17.03	17.03	27.6
3300	13.92	15.42	15.42	15.42	15.42	15.42	15.42	20.51
3600	11.49	13.06	13.06	13.06	13.06	13.06	13.06	15.64
3900	5.66	10.64	10.64	9.48	10.64	10.64	10.64	12.18
4200	4.67	8.77	8.77	7.53	8.77	8.77	8.77	9.66
4500	3.92	7.36	7.36	6.08	7.36	7.36	7.36	7.79
4800	3.33	6.26	6.26	4.93	6.26	6.26	6.26	6.37
5100	2.86	5.4	5.4	3.99	5.4	5.4	5.4	5.28
5400	2.48	4.69	4.7	3.27	4.7	4.7	4.7	4.42
5700	2.17	4.08	4.13	2.71	4.05	4.13	4.13	3.73
6000	1.92	3.57	3.66	2.27	3.49	3.66	3.66	3.18
6300	1.7	3.16	3.26	1.91	3.04	3.26	3.26	2.74
6600	1.52	2.81	2.93	1.63	2.65	2.93	2.93	2.37
6900	1.36	2.51	2.65	1.4	2.33	2.65	2.65	2.07
7200	1.23	2.26	2.4	1.21	2.06	2.4	2.4	1.82
7500	1.11	2.04	2.19	1.05	1.83	2.19	2.19	1.61
7800	1.01	1.85	2	0.92	1.62	1.98	2	1.43
8100	0.92	1.68	1.84	0.8	1.44	1.79	1.84	1.28
8400	0.84	1.54	1.7	0.72	1.27	1.61	1.7	1.15
8700	0.77	1.41	1.57	0.66	1.12	1.46	1.57	1.04
9000	0.71	1.29	1.46	0.57	1	1.33	1.46	0.94
9300	0.66	1.24	1.45	0.53	0.91	1.27	1.45	0.87
9600	0.61	1.14	1.35	0.48	0.82	1.16	1.34	0.79
9900	0.57	1.06	1.26	0.43	0.73	1.06	1.23	0.72
10200	0.53	0.98	1.17		0.66	0.97	1.13	0.65
10500	0.49	0.91	1.08		0.6	0.88	1.04	0.6

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 200 SERIES (KN/M)



DOUBLE LAPPED SPAN: C/Z 20015 (KN/M)							
BRIDGING > SPAN (MM)	IN		OUT				LOAD FOR DEFLECTION
	0	1,2,3	0	1	2	3	SPAN/150
3000	9.07	9.07	9.07	9.07	9.07	9.07	31.37
3300	7.71	7.71	7.71	7.71	7.71	7.71	23.3
3600	6.63	6.63	6.63	6.63	6.63	6.63	17.76
3900	5.54	5.75	5.75	5.75	5.75	5.75	13.84
4200	4.56	5.02	5.02	5.02	5.02	5.02	10.98
4500	3.81	4.42	4.42	4.42	4.42	4.42	8.86
4800	3.23	3.92	3.92	3.92	3.92	3.92	7.24
5100	2.78	3.49	3.49	3.49	3.49	3.49	6
5400	2.41	3.13	3.1	3.13	3.13	3.13	5.02
5700	2.1	2.82	2.62	2.82	2.82	2.82	4.24
6000	1.85	2.5	2.2	2.5	2.5	2.5	3.62
6300	1.64	2.23	1.86	2.23	2.23	2.23	3.11
6600	1.46	2	1.59	2	2	2	2.69
6900	1.31	1.81	1.37	1.81	1.81	1.81	2.35
7200	1.18	1.64	1.18	1.64	1.64	1.64	2.06
7500	1.07	1.49	1.03	1.49	1.49	1.49	1.81
7800	0.97	1.37	0.9	1.37	1.37	1.37	1.61
8100	0.88	1.26	0.79	1.26	1.26	1.26	1.28
8400	0.81	1.16	0.67	1.15	1.16	1.16	1.28
8700	0.74	1.07	0.6	1.04	1.07	1.07	1.15
9000	0.68	0.99	0.54	0.94	0.99	0.99	1.03
9300	0.64	0.99	0.5	0.87	0.99	0.99	0.96
9600	0.59	0.92	0.45	0.78	0.92	0.92	0.87
9900	0.54	0.86	0.41	0.7	0.92	0.92	0.87

DOUBLE LAPPED SPAN: C/Z 20015 (KN/M)							
BRIDGING > SPAN (MM)	IN		OUT				LOAD FOR DEFLECTION
	0	1,2,3	0	1	2	3	SPAN/150
10200	0.5	0.8		0.63	0.8	0.8	0.73
10500	0.47	0.75		0.57	0.75	0.75	0.68
10800	0.43	0.71		0.52	0.71	0.71	0.63
11100		0.66		0.47	0.66	0.66	0.58
11400		0.63		0.43	0.61	0.63	0.54
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM							
11700		0.59			0.56	0.59	0.5
12000		0.56			0.52	0.56	.0.47

DOUBLE LAPPED SPAN: C/Z 20019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	17	17	17	17	17	17	17	44.69
3300	14.16	14.16	14.16	14.16	14.16	14.16	14.16	33.21
3600	11.94	11.94	11.94	11.94	11.94	11.94	11.94	25.31
3900	7.09	10.18	10.18	10.18	10.18	10.18	10.18	19.72
4200	5.82	8.77	8.77	8.77	8.77	8.77	8.77	15.65
4500	4.86	7.61	7.61	7.61	7.61	7.61	7.61	12.62
4800	4.12	6.51	6.51	6.39	6.51	6.51	6.51	10.32
5100	3.53	5.61	5.61	5.31	5.61	5.61	5.61	8.54
5400	3.06	4.88	4.88	4.45	4.88	4.88	4.88	7.15
5700	2.67	4.29	4.29	3.7	4.29	4.29	4.29	6.05
6000	2.36	3.8	3.8	3.02	3.8	3.8	3.8	5.16
6300	2.09	3.39	3.39	2.58	3.39	3.39	3.39	4.43
6600	1.87	3.05	3.05	2.22	3.05	3.05	3.05	3.84
6900	1.67	2.75	2.75	1.93	2.75	2.75	2.75	3.34
7200	1.51	2.5	2.5	1.48	2.5	2.5	2.5	2.93
7500	1.37	2.28	2.28	1.68	2.28	2.28	2.28	2.58
7800	1.24	2.08	2.08	1.3	2.07	2.08	2.08	2.29
8100	1.13	1.91	1.91	1.16	1.86	1.91	1.91	2.04
8400	1.04	1.76	1.76	1.02	1.67	1.76	1.76	1.82

DOUBLE LAPPED SPAN: C/Z 20019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
8700	0.95	1.63	1.63	0.9	1.5	1.63	1.63	1.63
9000	0.87	1.51	1.51	0.8	1.35	1.51	1.51	1.48
9300	0.82	1.48	1.51	0.74	1.2	1.51	1.51	1.37
9600	0.75	1.37	1.4	0.67	1.09	1.4	1.4	1.25
9900	0.7	1.26	1.31	0.6	0.99	1.31	1.31	1.14
10200	0.65	1.17	1.22	0.54	0.9	1.22	1.22	1.04
10500	0.6	1.09	1.15	0.49	0.82	1.13	1.15	0.96
10800	0.56	1.01	1.09	0.44	0.75	1.04	1.08	0.88
11100	0.52	0.94	1.01	0.4	0.68	0.96	1.01	0.81
11400	0.49	0.88	0.95		0.63	0.89	0.95	0.75
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
11700	0.46	0.82	0.9		0.58	0.82	0.9	0.69
12000	0.43	0.77	0.85		0.53	0.75	0.85	0.64

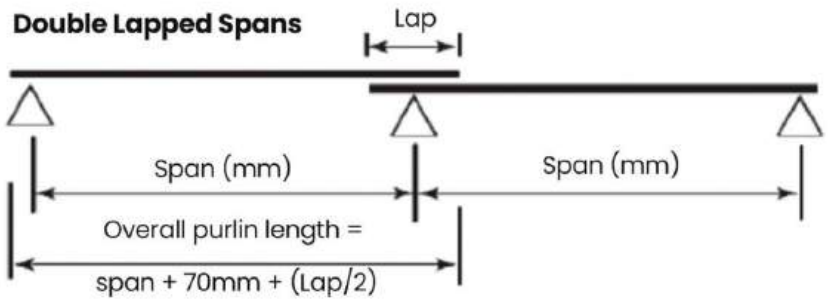
DOUBLE LAPPED SPAN: C/Z 20024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	17.03	17.03	17.03	17.03	17.03	17.03	17.03	59.02
3300	15.51	15.51	15.51	15.51	15.51	15.51	15.51	43.85
3600	14.25	14.25	14.25	14.25	14.25	14.25	14.25	33.42
3900	8.88	13.18	13.18	13.18	13.18	13.18	13.18	26.04
4200	7.24	12.25	12.25	12.25	12.25	12.25	12.25	20.66
4500	6.01	11.12	11.12	10.51	11.12	11.12	11.12	16.66
4800	5.06	9.46	9.46	8.7	9.46	9.46	9.46	13.63
5100	4.32	8.15	8.15	7.28	8.15	8.15	8.15	11.28
5400	3.73	7.1	7.1	6.16	7.1	7.1	7.1	9.44
5700	3.25	6.24	6.24	5.19	6.24	6.24	6.24	7.98
6000	2.85	5.53	5.53	4.38	5.53	5.53	5.53	6.81
6300	2.52	4.9	4.93	3.71	4.93	4.93	4.93	5.85
6600	2.25	4.36	4.43	3.17	4.43	4.43	4.43	5.06
6900	2.01	3.9	4	2.73	3.96	4	4	4.41

7200	1.81	3.51	3.63	2.37	3.53	3.63	3.63	3.87
7500	1.64	3.17	3.31	2.07	3.15	3.31	3.31	3.41
7800	1.49	2.88	3.03	1.8	2.83	3.03	3.03	3.02
8100	1.35	2.63	2.78	1.57	2.55	2.78	2.78	2.69
8400	1.24	2.4	2.57	1.39	2.31	2.57	2.57	2.4
8700	1.14	2.21	2.37	1.22	2.09	2.37	2.37	2.16
9000	1.05	2.03	2.2	1.09	1.9	2.2	2.2	1.96
9300	0.97	1.96	2.19	1	1.79	2.17	2.19	1.82
9600	0.9	1.81	2.04	0.89	1.6	1.99	2.04	1.66
9900	0.83	1.68	1.9	0.8	1.44	1.83	1.9	1.52
10200	0.78	1.56	1.78	0.72	1.3	1.68	1.78	1.39
10500	0.72	1.45	1.67	0.65	1.18	1.56	1.67	1.28
10800	0.67	1.35	1.57	0.59	1.07	1.44	1.57	1.18
11100	0.63	1.26	1.47	0.54	0.98	1.33	1.47	1.09
11400	0.59	1.17	1.39	0.49	0.89	1.24	1.39	1.01
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
11700	0.55	1.09	1.31	0.45	0.82	1.15	1.3	0.94
12000	0.52	1.02	1.23	0.41	0.75	1.02	1.21	0.87

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 250 SERIES (KN/M)



DOUBLE LAPPED SPAN: C/Z 25019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	15.13	15.13	15.13	15.13	15.13	15.13	15.13	72.59
3300	13	13	13	13	13	13	13	53.93
3600	11.28	11.28	11.28	11.28	11.28	11.28	11.28	41.11
3900	9.11	9.88	9.88	9.88	9.88	9.88	9.88	32.02
4200	7.47	8.72	8.72	8.72	8.72	8.72	8.72	25.41
4500	6.23	7.74	7.74	7.74	7.74	7.74	7.74	20.49
4800	5.27	6.91	6.91	6.91	6.91	6.91	6.91	16.76
5100	4.51	6.2	6.2	6.2	6.2	6.2	6.2	13.88
5400	3.91	5.59	5.59	5.59	5.59	5.59	5.59	13.61
5700	3.41	5.07	5.07	4.9	5.07	5.07	5.07	9.82
6000	3	4.61	4.61	4	4.61	4.61	4.61	8.37
6300	2.66	4.02	4.2	3.41	4.2	4.2	4.2	7.2
6600	2.37	3.85	3.85	2.93	3.85	3.85	3.85	6.23
6900	2.12	3.69	3.49	2.53	3.49	3.49	3.49	5.43
7200	1.91	3.17	3.17	2.2	3.17	3.17	3.17	4.76
7500	1.72	2.89	2.89	1.93	2.89	2.89	2.89	4.19
7800	1.56	2.64	2.64	1.7	2.64	2.64	2.64	3.72
8100	1.42	2.43	2.43	1.5	2.43	2.43	2.43	3.31
8400	1.3	2.24	2.24	1.31	2.23	2.24	2.24	2.96
8700	1.19	2.07	2.07	1.16	2	2.07	2.07	2.65
9000	1.1	1.92	1.92	1.03	1.78	1.92	1.92	2.39
9300	1.02	1.92	1.92	0.95	1.6	1.92	1.92	2.22
9600	0.95	1.78	1.78	0.85	1.44	1.78	1.78	2.01
9900	0.88	1.66	1.66	0.76	1.3	1.66	1.66	1.83

DOUBLE LAPPED SPAN: C/Z 25019 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
10200	0.81	1.55	1.55	10.69	1.18	1.55	1.55	1.66
10500	0.76	1.44	1.46	0.62	1.07	1.46	1.46	1.52
10800	0.7	1.34	1.37	0.56	0.98	1.37	1.37	1.4
11100	0.66	1.24	1.29	0.5	0.89	1.29	1.29	1.28
11400	0.61	1.15	1.21	0.46	0.82	1.19	1.21	1.18
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
11700	0.57	1.07	1.14	0.41	0.75	1.09	1.14	1.1
12000	0.54	1	1.08		0.69	1	1.08	1.03

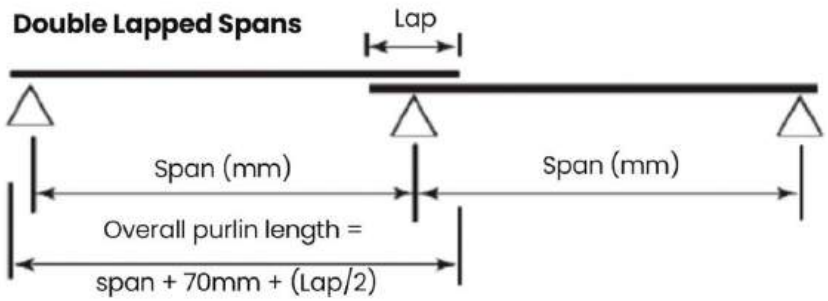
DOUBLE LAPPED SPAN: C/Z 25024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
3000	17.03	17.03	17.03	17.03	17.03	17.03	17.03	100.2
3300	15.51	15.51	15.51	15.51	15.51	15.51	15.51	74.38
3600	14.25	14.25	14.25	14.25	14.25	14.25	14.25	56.7
3900	11.1	13.18	13.18	13.18	13.18	13.18	13.18	44.17
4200	9.04	12.25	12.25	12.25	12.25	12.25	12.25	35.05
4500	7.49	11.45	11.45	11.45	11.45	11.45	11.45	28.26
4800	6.3	10.75	10.75	10.75	10.75	10.75	10.75	23.11
5100	5.37	10.13	10.13	9.7	10.13	10.13	10.13	19.14
5400	4.63	9.06	9.06	8.12	9.06	9.06	9.06	16.02
5700	4.03	8	8	6.82	8	8	8	13.54
6000	3.53	7.09	7.09	5.71	7.09	7.09	7.09	11.55
6300	3.12	6.32	6.32	4.82	6.32	6.32	6.32	9093
6600	2.78	5.68	5.68	4.11	5.68	5.68	5.68	8.59
6900	2.49	5.13	5.13	3.53	5.13	5.13	5.13	7.49
7200	2.24	4.65	4.65	3.06	4.65	4.65	4.65	6.56
7500	2.02	4.22	4.24	2.65	4.22	4.24	4.24	5.78
7800	1.83	3.82	3.88	2.3	3.78	3.88	3.88	5.12
8100	1.67	3.48	3.57	2.01	3.4	3.57	3.57	4.56
8400	1.53	3.18	3.29	1.76	3.07	3.29	3.29	4.08

8700	1.4	2.92	3.04	1.56	2.77	3.04	3.04	3.66
9000	1.29	2.68	2.82	1.38	2.49	2.82	2.82	3.3
9300	1.2	2.58	2.81	1.26	2.33	2.81	2.81	3.05
9600	1.1	2.38	2.62	1.12	2.08	2.62	2.62	2.77
9900	1.02	2.19	2.44	1.01	1.87	2.44	2.44	2.52
10200	0.95	2.03	2.28	0.9	1.68	2.25	2.28	2.3
10500	0.88	1.88	2.14	0.81	1.52	2.08	2.14	2.1
10800	0.82	1.74	2.01	0.74	1.38	1.92	2.01	1.92
11100	0.77	1.62	1.89	0.67	1.26	1.77	1.89	1.78
11400	0.72	1.51	1.78	0.61	1.15	1.64	1.78	1.64
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM								
11700	0.67	1.14	1.68	0.55	1.05	1.52	1.68	1.52
12000	0.63	1.31	1.59	0.51	0.95	1.4	1.59	1.42

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

DOUBLE LAPPED SPAN: C/Z 250 SERIES (KN/M)



DOUBLE LAPPED SPAN: C/Z 30024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
6000	5.26	8.51	8.51	8.51	8.51	8.51	8.51	19.16
6300	4.61	7.8	7.8	7.8	7.8	7.8	7.8	16.47
6600	4.06	7.17	7.17	7.17	7.17	7.17	7.17	14.26
6900	3.61	6.61	6.61	6.59	6.61	6.61	6.61	12.42
7200	3.23	6.12	6.12	5.72	6.12	6.12	6.12	10.89
7500	2.9	5.67	5.67	4.99	5.67	5.67	5.67	9.6
7800	262	5.27	5.27	4.37	5.27	5.27	5.27	8.5
8100	2.38	4.9	4.9	3.8	4.9	4.9	4.9	7.57
8400	2.17	4.51	4.51	3.39	4.51	4.51	4.51	6.77
8700	1.98	4.18	4.18	3.04	4.18	4.18	4.18	6.07
9000	1.82	3.87	3.87	2.73	3.87	3.87	3.87	5.47
9300	1.69	3.86	3.86	2.58	3.86	3.86	3.86	5.07
9600	1.56	3.55	3.59	2.31	3.59	3.59	3.59	4.59
9900	1.44	3.28	3.35	2.08	3.35	3.35	3.35	4.18
10200	1.34	3.03	3.13	1.88	3.1	3.13	3.13	3.81
10500	1.24	2.81	2.93	1.7	2.85	2.93	2.93	3.48
10800	1.16	2.62	2.75	1.53	2.62	2.75	2.75	3.19
11100	1.08	2.44	2.59	1.39	2.41	2.59	2.59	2.93
11400	1.01	2.27	2.44	1.26	2.2	2.44	2.44	2.7
11700	0.95	2.12	2.3	1.15	2.02	2.3	2.3	2,49
12000	0.89	1.98	2.18	1.05	1.85	2.18	2.18	2.31
12300	0.85	1.91	2.3	1	1.78	2.3	2.3	2.22
12600	0.8	1.79	2.17	0.91	1.64	2.17	2.17	2.06

DOUBLE LAPPED SPAN: C/Z 30024 (KN/M)								
BRIDGING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
12900	0.75	1.68	2.06	0.84	1.52	2.06	2.06	1.91
13200	0.71	1.57	1.95	0.77	1.41	1.95	1.95	1.78
13500	0.67	1.45	1.85	0.71	1.31	1.83	1.85	1.66
13800	0.64	1.37	1.76	0.65	1.22	1.72	1.76	1.56
14100	0.6	1.3	1.68	0.6	1.14	1.61	1.68	1.47
14400	0.57	1.22	1.6	0.56	1.07	1.51	1.6	1.39
14700	0.54	1.16	1.52	0.52	1	1.41	1.52	1.32
15000	0.52	1.1	1.46	0.48	0.93	1.32	1.46	1.25
15300	0.49	1.04	1.39	0.45	0.87	1.23	1.39	1.18
15600	0.47	0.99	1.33	0.42	0.81	1.16	1.33	1.12
15900	0.45	0.94	1.28		0.76	1.08	1.28	1.05
16200	0.43	0.9	1.22		0.71	1.02	1.22	1
16500	0.41	0.85	1.18		0.66	0.95	1.18	0.94
16800		0.81	1.13		0.62	0.88	1.13	0.9
17100		0.78	1.09		0.58	0.83	1.08	0.85
17400		0.74	1.04		0.54	0.79	1.02	0.81
17700		0.71	1		0.51	0.75	0.97	0.77

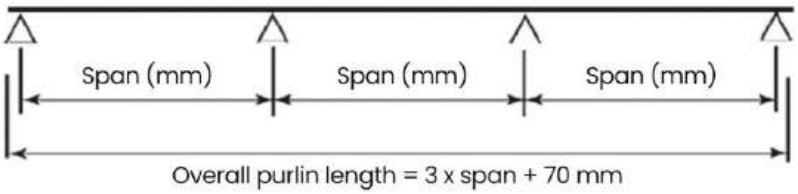
DOUBLE LAPPED SPAN: C/Z 30024/30030 (KN/M)									
BRIDGING > SPAN (MM)	IN				OUT				LOAD FOR DEFLECTION
	0	1	2	3	0	1	2	3	SPAN/150
6000	6.18	13.28	13.28	13.28	13.28	13.28	13.28	13.28	25.7
6300	5.4	12.05	12.05	12.05	11.73	12.05	12.05	12.05	21.97
6600	4.75	10.98	10.98	10.98	10.29	10.98	10.98	10.98	19.02
6900	4.21	10.04	10.04	10.04	9.08	10.04	10.04	10.04	16.58
7200	3.75	9.11	9.11	9.11	8	9.11	9.11	9.11	14.53
7500	3.37	8.3	8.3	8.3	7.01	8.3	8.3	8.3	12.81
7800	3.03	7.54	7.6	7.6	6.15	7.6	7.6	7.6	11.35
8100	2.75	6.86	6.98	6.98	5.44	6.98	6.98	6.98	10.1
8400	2.5	6.26	6.44	6.44	4.78	6.44	6.44	6.44	9.03

DOUBLE LAPPED SPAN: C/Z 30024/30030 (KN/M)									
BRIDGING > SPAN (MM)	IN				OUT				LOAD FOR DEFLECTION
	0	1	2	3	0	1	2	3	SPAN/150
8700	2.29	5.74	5.95	5.95	4.22	5.95	5.95	5.95	8.1
9000	2.1	5.27	5.52	5.52	3.74	5.52	5.52	5.52	7.3
9300	1.94	5.1	5.51	5.51	3.43	5.45	5.51	5.51	6.76
9600	1.79	4.71	5.12	5.12	3.06	5	5.12	5.12	6.13
9900	1.66	4.35	4.78	4.78	2.73	4.59	4.78	4.78	5.57
10200	1.54	4.03	4.47	4.47	2.45	4.23	4.47	4.47	5.08
10500	1.43	3.75	0.18	0.18	2.21	3.91	0.18	0.18	4.65
10800	1.33	3.48	3.93	3.93	2	3.61	3.93	3.93	4.26
11100	1.25	3.23	3,69	3.69	1.81	3.35	3.69	3.69	3.91
11400	1.17	3.01	3.48	3.48	1.64	3.1	3.48	3.48	3.61
11700	1.09	2.8	3.29	3.29	1.5	2.86	3.29	3.29	3.33
12000	1.03	2.62	3.11	3.11	1.37	2.63	3.11	3.11	3.08
12300	0.98	2.55	3.27	3.27	1.31	2.57	3.25	3.27	2.96
12600	0.92	2.38	3.1	3.1	1.2	2.36	3.04	3.1	2.75
12900	0.87	2.22	2.93	2.93	1.1	2.17	2.85	2.93	2.55
13200	0.82	2.08	2.78	2.78	1.01	1.99	2.67	2.78	2.38
13500	0.78	1.95	2.64	2.64	0.93	1.84	2.51	2.64	2.23
13800	0.74	1.83	2.51	2.51	0.86	1.69	2.36	2.51	2.09
14100	0.7	1.72	2.39	2.39	0.8	1.57	2.22	2.39	1.97
14400	0.66	1.62	2.27	2.28	0.74	1.45	2.09	2.27	1.85
14700	0.63	1.53	2.15	2.17	0.69	1.34	1.97	2.15	1.75
15000	0.6	1.45	2.05	2.08	0.64	1.25	1.86	2.05	1.65
15300	0.57	1.37	1.95	1.98	0.6	1.16	1.75	1.95	1.56
15600	0.55	1.29	1.85	1.9	0.56	1.08	1.65	1.85	1.48
15900	0.52	1.23	1.76	1.82	0.52	1.01	1.55	1.76	1.4
16200	0.5	1.16	1.68	1.75	0.49	0.94	1.45	1.68	1.33
16500	0.48	1.1	1.6	1.68	0.46	0.88	1.37	1.6	1.26
16800	0.46	1.05	1.53	1.61	0.43	0.82	1.29	1.53	1.2
17100	0.44	1	146	1.55	0.41	0.77	1.21	146	1.14
17400	0.42	0.95	1.4	1.49		0.72	1.14	1.4	1.08
17700	0.4	0.91	1.34	1.43		0.68	1.07	1.34	1.03

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE CONTINUOUS SPANS: C/Z 100 SERIES (KN/M)

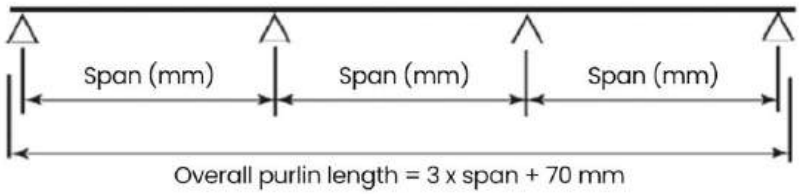


THREE CONTINUOUS SPANS: C/Z 10019 (KN/M)							
BRIDGING > SPAN (MM)	IN		OUT				LOAD FOR DEFLECTION
	0	1,2,3	0	1	2	3	SPAN/150
2100	10.14	10.99	10.99	10.99	10.99	10.99	13.61
2400	7.5	8.41	8.41	8.41	8.41	8.41	9.18
2700	5.75	6.65	6.45	6.65	6.65	6.65	6.47
3000	4.54	5.38	4.9	5.38	5.38	5.38	4.75
3300	3.66	4.45	3.78	4.45	4.45	4.45	3.59
3600	3.01	3.74	2.96	3.74	3.74	3.74	2.79
3900	2.5	3.19	2.3	3.17	3.19	3.19	2.2
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM							
4200	2.09	2.75	1.83	2.65	2.75	2.75	1.76
4500	1.78	2.39	1.46	2.2	2.39	2.39	1.43
4800	1.52	2.1	1.18	1.85	2.1	2.1	1.18
1500	1.32	1.86	0.96	1.56	1.86	1.86	0.98
5400	1.15	1.66	0.8	1.32	1.66	1.66	0.83
5700	1.01	1.49	0.67	1.11	1.45	1.49	0.7
6000	0.88	1.35	0.57	0.95	1.27	1.35	0.6

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE CONTINUOUS SPANS: C/Z 150 SERIES (KN/M)



THREE SPANS: C/Z 15015 (KN/M)						
BRIDGING > SPAN (MM)	IN		OUT			LOAD FOR DEFLECTION
	0	1,2,3	0	1	3	SPAN/150
2100	10.14	10.99	10.99	10.99	10.99	13.61
2400	7.5	8.41	8.41	8.41	8.41	9.18
2700	5.75	6.65	6.45	6.65	6.65	6.47
3000	4.54	5.38	4.9	5.38	5.38	4.75
3300	3.66	4.45	3.78	4.45	4.45	3.59
3600	3.01	3.74	2.96	3.74	3.74	2.79
3900	2.5	3.19	2.3	3.17	3.19	2.2
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
4200	2.09	2.75	1.83	2.65	2.75	1.76
4500	1.78	2.39	1.46	2.2	2.39	1.43
4800	1.52	2.1	1.18	1.85	2.1	1.18
1500	1.32	1.86	0.96	1.56	1.86	0.98
5400	1.15	1.66	0.8	1.32	1.66	0.83
5700	1.01	1.49	0.67	1.11	1.49	0.7
6000	0.88	1.35	0.57	0.95	1.35	0.6

THREE SPANS: C/Z 15019 (KN/M)						
BRIDGING > SPAN (MM)	IN		OUT			LOAD FOR DEFLECTION
	0	1,2,3	0	1	3	SPAN/150
2100	17.77	17.77	17.77	17.77	17.77	38.56
2400	13.5	14.45	14.45	14.45	14.45	25.83
2700	10.32	11.7	11.7	11.7	11.7	18.14
3000	3.09	9.6	9.6	9.6	9.6	13.23
3300	6.46	7.93	7.74	7.93	7.93	9.94
3600	5.26	6.67	6.22	6.67	6.67	7.7

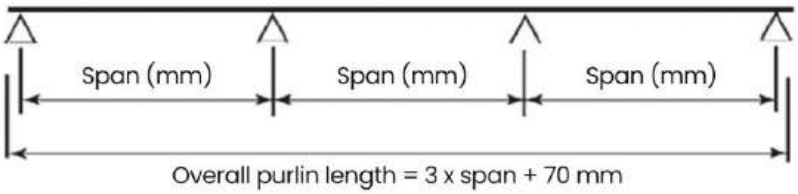
THREE SPANS: C/Z 15019 (KN/M)						
BRIDGING > SPAN (MM)	IN		OUT			LOAD FOR DEFLECTION
	0	1,2,3	0	1	3	SPAN/150
3900	4.36	5.68	5.06	5.68	5.68	6.14
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
4200	3.64	4.9	4.16	4.9	4.9	4.98
4500	3.08	4.27	3.39	4.27	4.27	4.1
4800	2.64	3.75	2.76	3.75	3.75	3.42
5100	2.28	3.32	2.26	3.23	3.32	2.87
5400	0.99	2.96	1.87	2.79	2.96	2.42
5700	0.74	2.66	1.58	2.43	2.66	2.07
6000	1.54	2.4	1.32	2.13	2.4	1.78
6300	1.37	2.18	1.11	1.87	2.18	1.54

THREE SPANS: C/Z 15024 (KN/M)						
BRIDGING > SPAN (MM)	IN		OUT			LOAD FOR DEFLECTION
	0	1,2,3	0	1	3	SPAN/150
2100	22.44	22.44	22.44	22.44	22.44	51.42
2400	18.03	19.64	19.64	19.64	19.64	34.45
2700	13.58	16.7	16.7	16.7	16.7	24.19
3000	10.38	13.53	13.53	13.53	13.53	17.64
3300	8.1	11.18	10.94	11.18	11.18	3.25
3600	6.5	9.39	8.71	9.39	9.39	10.25
3900	5.3	8	7.03	8	8	8.1
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
4200	4.42	6.9	5.75	6.9	6.9	6.54
4500	3.72	6.01	4.67	6	6.01	5.36
4800	3.18	5.28	3.75	5.28	5.28	4.44
5100	2.74	4.68	3.05	4.58	4.68	3.7C
5400	2.39	4.18	2.5	3.94	4.18	3.12
5700	2.09	3.75	2.09	3.4	3.75	2.65
6000	1.85	3.38	1.76	2.97	3.38	2.27
6300	1.64	3.07	1.49	2.6	3.07	1.96

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE CONTINUOUS SPANS: C/Z 200 SERIES (KN/M)



THREE SPANS: C/Z 20015 (KN/M)					
BRIDGING > SPAN (MM)	IN		OUT		LOAD FOR DEFLECTION
	0	1,2,3	0	1,2,3	SPAN/150
2100	10.83	10.83	10.83	10.83	58.42
2400	9.18	9.18	9.18	9.18	39.14
2700	7.88	7.88	7.88	7.88	27.49
3000	6.84	6.84	6.84	6.84	20.04
3300	6	6	5	6	15.061
3600	5.29	5.29	5.29	5.29	11.6
3900	4.7	4.71	4.71	4.71	9.12
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM					
4200	4.2	4.2 1	4.21	4.21	7.3
4500	3.56	3.78	3.78	3.78	5.94
4800	3.05	3..41	3.41	3.41	4.89
5100	2.64	3.1	2.97	3.1	4.1
5400	2.3	2.82	2.47	2.82	3.5 1
5700	2.02	2.56	2.06	2.56	3.04
6000	1.78	2.31	1.74	2.31	2.65
6300	1.58	2.09	1.48	2.09	2.32

THREE SPANS: C/Z 20019 (KN/M)					
BRIDGING > SPAN (MM)	IN		OUT		LOAD FOR DEFLECTION
	0	1,2,3	0	1,2,3	SPAN/150
2100	17.77	17.77	17.77	17.77	83.25
2400	15.55	15.55	15.55	15.55	55.77
2700	13.82	13.82	13.82	13.82	39.17
3000	12.3 1	12.31	12.31	12.31	28.55
3300	9.8	10 .64.	10 64	10.64	21 .45
3600	7.62	9.28	9.28	9.28	16.52

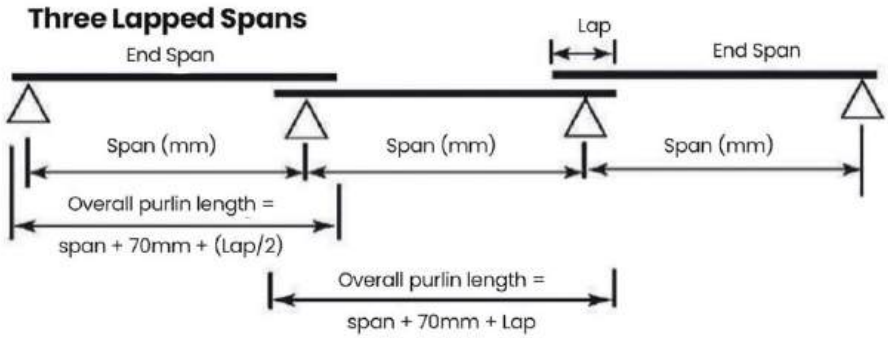
THREE SPANS: C/Z 20019 (KN/M)					
BRIDGING > SPAN (MM)	IN		OUT		LOAD FOR DEFLECTION
	0	1,2,3	0	1,2,3	SPAN/150
3900	6.27	8.15	8.15	8. 15	13
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM					
4200	5.24	7.17	7.17	7..17	10.41
4500	4.45	6.25	6.11	6.25	8.46
4800	3.81	5.49	5.11	5..49	6.99
5100	3.31	4.87	4.23	4.87	5.87
5400	2.89	4.34	3.41	4.34	4.98
5700	2.55	3.9	2.85	3.9C	4.26
6000	2.26	3.52	2.47	3.52	3.67
6300	2.01	3.19	2.13	3.19	3.19

THREE SPANS: C/Z 20024 (KN/M)						
BRIDGING > SPAN (MM)	IN		OUT			LOAD FOR DEFLECTION
	0	1,2,3	0	1	2,3	SPAN/150
2100	22.44	22.44	22.44	22.44	22.44	109.93
2400	19.64	19.64	19.64	19.64	19.64	73.64
2700	17..46	17.46	17'.46	17.46	17.46	51 .72
3000	15.71	15.71	15.71	15.71	15.7 1	37.7
3300	12.81	14.28	14.28	14.28	14.:28	28.33
3600	10.17	13.09	13.09	13.09	13.09	21.82
3900	8.27	12.07	11..98	12.07	12.07	17.16
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000MM						
4200	6.85	40271	9.96	10.43	10.43	13.74
4500	5.'77	9.09	B.35	9.09	9.09	1.17
4800	4.89	7.99	7.05	'7. 99	7.99	9.27
5100	4.1, S	7.07	5.95	'7.07	7.07	7.81
5400	3.62	6.31	4.97	6.31	6.31	6.65
5700	3.16	5.66	4.16	5.66	5.66	5.71
6000	2.78	5.1 1	3.52	5.07	5.11	4.9'5
6300	2.46	4.64	3	4.49	4.64	4.3

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE LAPPED SPANS: C/Z 100 SERIES (KN/M)

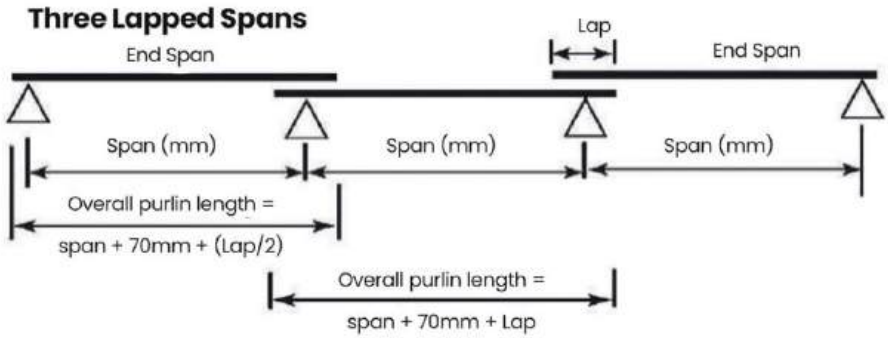


THREE LAPPED SPANS: C/Z 10019 (KN/M)								
BRID GING > SPAN (MM)	IN			OUT				LOAD FOR DEFLECTION
	0	1	2, 3	0	1	2	3	SPAN/150
2100	12.16	14.65	14.65	14.65	14.65	14.65	14.7	14.96
2400	8.87	11.16	11.16	11'10	11.16	11.16	11.2	9.96
2700	6.66	8.77	8.77	8.08	8.77	8.77	8.77	6.95
3000	5.18	7.07	7.07	6.02	7.07	7.07	7.07	5.08
3300	4.14	5.83	5.83	4.54	5.83	5.83	5.83	3.82
3600	3.37	4.88	4.88	3.43	4.87	4.88	4.88	2.94
3900	2.8	4.15	4.15	2.63	3.99	4.15	4.15	2.32
4200	2.35	3.57	3.57	2.04	3.26	3.57	3.57	1.87
4500	1.99	3. 10	3.1	1.61	2.69	3.1	3.1	1.51
4800	1.7	2 .72	2.72	1.29	2 .24	2.72	2.72	1.24
5100	1.46	2.37	2.37	1.05	1.85	2.32	2.37	1.03
5400	1.27	2 .08	2.08	0.86	1.52	1.99	2.08	0.87
5700	1.1	1.84	1.85	0.72	1.28	1.7	1.85	0.74
6000	0.97	1.63	1.65	0.61	1.07	1.47	1.65	0.63
6300	0.87	1.53	1.59	0.53	0 .93	1.33	1.55	0.55
6600	0.77	1.38	1.44	0.45	0.79	1.17	1.37	0.48
6900	0.69	1.24	1.32		0 .68	1.01	1.22	0.42
7200	0.61	1.13	1.21		0 .58	0.88	1.08	0.37
7500	0.55	1.02	1.1		0.5	0.77	0.96	0.33
7800	0.49	0 .92	1.01		0 .44	0.67	0.85	0.29

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE LAPPED SPANS: C/Z 150 SERIES (KN/M)



THREE LAPPED SPAN C/Z 15015 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	7.08	9.1	9.1	9.1	9.1	9.1	9.1	11.17
3300	5.64	7.49	7.49	7.49	7.49	7.49	7.49	8.35
3600	4.59	6.27	6.27	5.94	6.27	6.27	6.67	6.4
3900	3.8	5.32	5.32	4.69	5.32	5.32	5.32	5.02
4200	3.2	4.58	4.58	3.56	4.58	4.58	4.58	4
4500	2.72	3.98	3.98	2.87	3.98	3.98	3.98	3.27
4800	2.34	3.49	3.49	2.34	3.49	3.49	3.49	2.71
5100	2.04	3.08	3.08	1.94	3.08	3.08	3.08	2.27
5400	1.78	2.74	2.74	1.61	2.74	2.74	2.74	1.92
5700	1.57	2.46	2.46	1.34	2.46	2.46	2.46	1.64
6000	1.39	2.21	2.21	1.12	2.21	2.21	2.21	1.41
6300	1.24	2	2	0.95	2	2	2	1.23
6600	1.11	1.82	1.82	0.8	1.82	1.82	1.82	1.07
6900	1	1.67	1.67	0.68	1.67	1.65	1.67	0.95
7200	0.89	1.53	1.53	0.58	1.53	1.47	1.53	0.84
7500	0.8	1.39	1.39	0.5	1.39	1.3	1.39	0.75
7800	0.72	1.28	1.28	0.43	1.28	1.16	1.28	0.67
8100	0.65	1.17	1.17		1.17	1.02	1.17	0.6
3400	0.59	1.08	1.08		1.08	0.91	1.08	0.54
8700	0.54	1	1		0.99	0.8	0.99	0.49
9000	0.49	0.93	0.93		0.9	0.7	0.9	0.44
9300	0.45	0.89	0.92		0.85	0.65	0.85	0.4
9600	0.42	0.82	0.86		0.78	0.59	0.78	0.37
9900		0.76	0.8		0.7	0.53	0.7	0.33

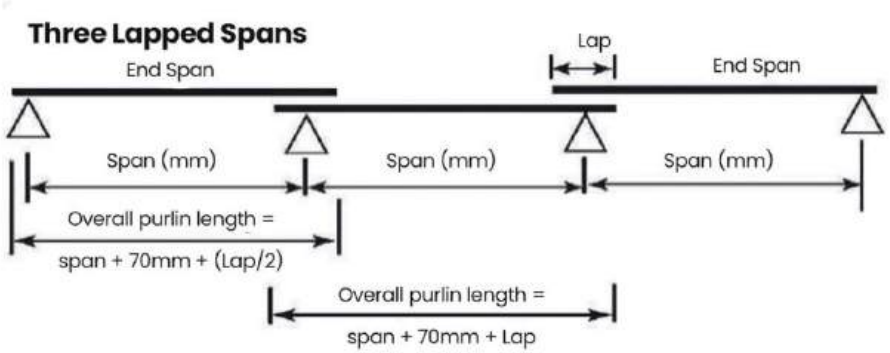
THREE LAPPED SPAN C/Z 15019 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
3000	9.2	12.83	12.83	12.83	12.69	12.83	12.83	12.83	14.57
3300	7.22	10.56	10.56	10.56	9.94	10.56	10.56	10.56	10.9
3600	5.82	8.84	8.84	8.84	7.9	8.84	8.84	8.84	8.36
3900	4.78	7.51	7.51	7.51	6.33	7.51	7.51	7.51	6.54
4200	4	6.45	6.45	6.45	5.05	6.45	6.45	6.45	5.23
4500	3.39	5.61	5.61	5.61	4	5.6	5.61	5.61	4.29
4800	2.91	4.92	4.92	4.92	3.21	4.76	4.92	4.92	3.57
5100	2.51	4.34	4.34	4.34	2.62	4.07	4.34	4.34	3
5400	2.19	3.86	3.87	3.87	2.15	3.5	3.87	3.87	2.55
5700	1.92	3.42	3.46	3.46	1.76	3.03	3.46	3.46	2.19
6000	1.69	3.05	3.12	3.12	1.47	2.62	3.12	3.12	1.88
6300	1.5	2.73	2.83	2.83	1.23	2.25	2.77	2.83	1.62
6600	1.33	2.46	2.57	2.57	1.04	1.94	2.46	2.57	1.41
6900	1.19	2.23	2.35	2.35	0.89	1.66	2.19	2.35	1.24
7200	1.07	2.03	2.15	2.16	0.76	1.44	1.96	2.16	1.09
7500	0.97	1.84	1.96	1.96	0.66	1.25	1.75	1.96	0.97
7800	0.87	1.67	1.8	1.8	0.57	1.09	1.56	1.77	0.86
8100	0.79	1.52	1.65	1.65	0.5	0.96	1.4	1.6	0.77
8400	0.72	1.4	1.52	1.52	0.44	0.84	1.25	1.45	0.69
8700	0.65	1.28	1.41	1.41		0.74	1.12	1.31	0.62
9000	0.6	1.18	1.31	1.31		0.65	1	1.2	0.56
9300	0.55	1.14	1.29	1.29		0.59	0.91	1.14	0.51
9600	0.51	1.06	1.21	1.21		0.52	0.82	1.05	0.47
9900	0.47	0.98	1.13	1.13		0.47	0.73	0.96	0.42
10200	0.43	0.91	1.05	1.06		0.42	0.66	0.87	0.39
10500	0.4	0.85	0.97	0.99			0.6	0.79	0.35

THREE LAPPED SPAN C/Z 15024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
3000	11.31	18.08	18.08	18.08	18	18.08	18.08	18.08	19.43
3300	8.87	14.88	14.88	14.88	13.94	14.88	14.88	14.88	14.53
3600	7.01	12.46	12.46	12.46	1.97	12.46	12.46	12.46	11.14
3900	5.71	10.58	10.58	10.58	8.75	10.58	10.58	10.58	8.73
4200	4.74	9.09	9.09	9.09	6.87	9.09	9.09	9.09	6.98
4500	3.99	7.9	7.9	7.9	5.39	7.9	7.9	7.9	5.68
4800	3.41	6.92	6.92	6.92	4.29	6.74	6.92	6.92	4.7
5100	2.49	6.07	6.12	6.12	3.46	5.73	6.12	6.12	3.93
5400	2.56	5.31	5.45	5.45	2.82	4.9	5.45	5.45	3.33
5700	2.24	4.68	4.88	4.88	2.33	4.21	4.88	4.88	2.28
6000	1.98	4.15	4.4	4.4	1.95	3.64	4.4	4.4	2.42
6300	1.76	3.71	3.98	3.98	1.64	3.13	3.93	3.98	2.08
6600	1.58	3.33	3.62	3.62	1.39	2.66	3.48	3.62	1.81
6900	1.41	3	3.31	3.31	1.19	2.27	3.08	3.31	1.58
7200	1.28	2.72	3.04	3.04	1.03	1.95	2.75	3.04	1.39
7500	1.15	2.46	2.77	2.77	0.89	1.68	2.44	2.77	1.22
7800	1.05	2.23	2.53	2.53	0.78	1.46	2.17	2.51	1.09
8100	0.96	2.04	2.33	2.33	0.69	1.28	1.95	2.26	0.97
8400	0.87	1.86	2.14	2.14	0.61	1.12	1.74	1.85	0.87
8700	0.8	1.71	1.98	1.98	0.54	0.99	1.55	1.68	0.78
9000	0.73	1.58	1.84	1.84	0.48	0.87	1.39	1.6	0.7
9300	0.69	1.51	1.82	1.82	0.44	0.79	1.25	1.46	0.64
9600	0.63	1.4	1.7	1.71		0.71	1.12	1.33	0.59
9900	0.58	1.3	1.58	1.59		0.63	1	1.22	0.53
10200	0.54	1.2	1.47	1.49		0.57	0.9	1.11	0.49
10500	0.5	1.12	1.36	1.39		0.51	0.81		0.45

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE LAPPED SPANS: C/Z 200 SERIES (KN/M)



THREE LAPPED SPAN C/Z 20019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	13.75	18.79	18.79	18.79	18.79	18.79	18.79	31 .46
3300	10.77	15.47	15.47	15.47	15.47	15.47	15.47	23.52
3600	8.66	1295	12.95	12.95	12.95	12.95	12.95	18.04
3900	7.1	11	11	11	11	11	11	14.13
4200	5.93	9.45	9.45	9.18	9.45	9.45	9.45	11.27
4500	5.02	8.21	8.21	7.52	8.21	8.21	8.21	9.13
4800	4.29	7.2	7.2	6.07	7.2	7.2	7.2	7.5
5100	3.69	6.36	6.36	4.84	6.36	6.36	6.36	6.23
5400	3.21	5.66	5.66	4.04	5.66	5.66	5.66	5.24
5700	2.81	5.07	5.07	3.41	5.07	5.07	5.07	4.47
6000	2.48	4.57	4.57	2.9	4.57	4.57	4.57	3.85
6300	2.2	4.14	4.14	2.48	4.09	4.14	4.14	3.34
6600	1.97	3.77	3.77	2.1	3.59	3.77	3.77	2.91
6900	1.77	3.44	3.44	1.8	3.15	3.44	3.44	2.56
7200	1.59	3.16	3.16	1.55	2.74	3.16	3.16	2.26
7500	1.44	2.88	2.88	1.35	2.3	2.88	2.88	2.01
7800	1.31	263	2.63	1.17	2.03	2.63	2.63	1.79
8100	1.19	2.42	2.42	1.02	1.79	2.42	2.42	1.61
3400	1.09	2.22	2.23	0.89	1.59	2.23	2.23	1.45
8700	1	203	2.06	0.78	1.42	2.03	2.06	1.31
9000	0.92	1.87	1.91	0.69	1.27	1.84	1.91	1.19
9300	0.86	1.79	1.89	0.62	1.18	1.74	1.89	1.09
9600	0.79	1.66	1.78	0.56	1.07	1.56	1.78	1

THREE LAPPED SPAN C/Z 20019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
9900	0.73	1.54	1.66	0.5	0.96	1.41	1.66	0.91
10200	0.68	1.43	1.55	0.45	0.86	1.23	1.55	0.84
10500	0.63	1.33	1.45	0.4	0.78	1.12	1.44	0.77
10800	0.58	1.24	1.36		0.7	1.02	1.33	0.71
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM								
11100	0.54	1.15	1.28		0.64	0.93	1.23	0.66
11400	0.5	1.08	1.21		0.58	0.86	1.13	0.61
11700	0.47	1	1.14		0.53	0.79	1.05	0.56
12000	0.44	0.94	1.08		0.48	0.73	0.96	0.52

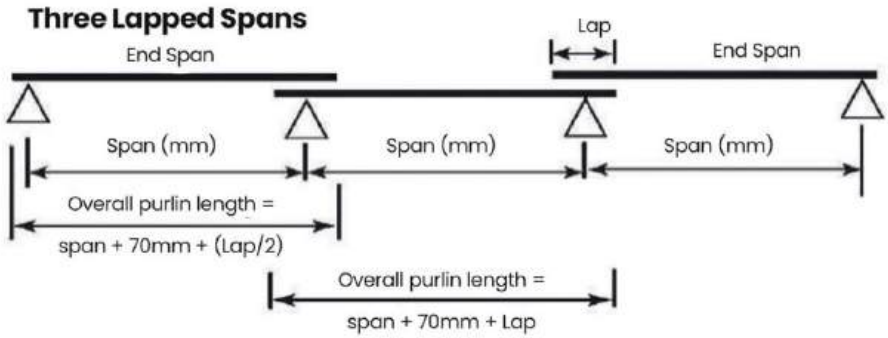
THREE LAPPED SPAN C/Z 20024 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	18.42	19.78	19.78	19.78	19.78	19.78	19.78	41.54
3300	14.22	17.99	17.99	17.99	17.99	17.99	17.99	31.06
3600	11.13	16.5	16.5	16.5	16.5	16.5	16.5	23.82
3900	8.94	15.24	15.24	15.24	15.24	15.24	15.24	18.66
4200	7.32	13.74	13.74	12.55	13.74	13.74	13.74	14.88
4500	6.09	11.94	11.94	10.41	11.94	11.94	11.94	12.06
4800	5.15	10.47	10.47	8.58	10.47	10.47	10.47	9.9
5100	4.41	9.25	9.25	6.98	9.25	9.25	9.25	8.23
5400	3.81	8.23	8.23	5.75	8.23	8.23	8.23	6.93
5700	3.32	7.27	7.38	4.8	7.25	7.38	7.38	5.94
6000	2.92	6.46	6.64	4.02	6.35	6.64	6.64	5.13
6300	2.59	5.77	6.02	3.36	5.6	6.02	6.02	4.46
6600	2.31	5.18	5.47	2.84	4.95	5.47	5.47	3.91
6900	2.07	4.67	5	2.42	4.39	5	5	3.45
7200	1.86	4.24	4.59	2.07	3.88	4.59	4.59	3.04
7500	1.69	3.83	4.18	1.78	3.4	4.17	4.18	2.69
7800	1.53	3.47	3.83	1.55	2.97	3.75	3.83	2.4
8100	1.4	3.17	3.52	1.35	2.6	3.39	3.52	2.14
3400	1.28	2.9	3.24	1.18	2.3	3.07	3.24	1.93

THREE LAPPED SPAN C/Z 20024 (KN/M)								
INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
8700	1.17	2.66	3	1.04	2.04	2.78	3	1.74
9000	1.08	2.45	2.78	0.92	1.81	2.54	2.78	1.58
9300	1	2.35	2.75	0.84	1.66	2.42	2.73	1.44
9600	0.93	2.17	2.58	0.75	1.47	2.21	2.52	1.32
9900	0.86	2.01	2.41	0.67	1.32	2	2.32	1.2
10200	0.8	1.86	2.25	0.6	1.18	1.82	2.14	1.1
10500	0.74	1.73	2.1	0.54	1.06	1.64	1.97	1
10800	0.69	1.61	1.96	0.49	0.95	1.49	1.82	0.92
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM								
11100	0.65	1.5	1.84	0.45	0.86	1.36	1.69	0.85
11400	0.6	1.4	1.72	0.41	0.78	1.24	1.57	0.78
11700	0.56	1.31	1.62		0.71	1.13	1.46	0.72
12000	0.53	1.23	1.52		0.65	1.04	1.36	0.67

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE LAPPED SPAN: C/Z 250 SERIES (KN/M)



THREE LAPPED SPAN C/Z 25019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	17.28	17.28	17.28	17.28	17.28	17.28	17.28	51.1
3300	13.93	15	15	15	15	15	15	38.21
3600	11.15	13.16	13.16	13.16	13.16	13.16	13.16	29.3
3900	9.12	11.64	11.64	11.64	11.64	11.64	11.64	22.95
4200	7.59	10.36	10.36	10.36	10.36	10.36	10.36	18.3
4500	6.38	9.28	9.28	9.28	9.28	9.28	9.28	14.83
4800	5.42	8.35	8.35	7.8	8.35	8.35	8.35	12.18
5100	4.65	7.55	7.55	6.42	7.55	7.55	7.55	10.12
5400	4.04	6.85	6.85	5.34	6.85	6.85	6.85	8.5
5700	3.53	6.24	6.24	4.49	6.24	6.24	6.24	7.21
6000	3.12	5.7	5.7	3.8	5.7	5.7	5.7	6.17
6300	2.77	5.23	5.23	3.23	5.23	5.23	5.23	5.32
6600	2.47	4.78	4.78	2.73	4.78	4.78	4.78	4.61
6900	2.22	4.37	4.37	2.33	4.19	4.37	4.37	4.04
7200	2	4.01	4.01	2.01	3.63	4.01	4.01	3.6
7500	1.81	3.65	3.65	1.74	3.06	3.65	3.65	3.23
7800	1.64	3.34	3.34	1.51	2.69	3.34	3.34	2.91
8100	1.49	3.07	3.07	1.31	2.37	3.07	3.07	2.63
8400	1.37	2.28	2.28	1.14	2.1	2.28	2.28	2.38
8700	1.25	2.62	2.62	1	1.87	2.62	2.62	2.15
9000	1.15	2.43	2.43	0.88	1.67	2.43	2.43	1.95
9300	1.07	2.37	2.4	0.8	1.55	2.31	2.4	1.78
9600	0.99	2.19	2.25	0.71	1.4	2.07	2.25	1.63

THREE LAPPED SPAN C/Z 25019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
9900	0.91	2.02	2.1	0.63	1.25	1.8	2.1	1.49
10200	0.84	1.87	1.96	0.56	1.12	1.63	1.96	1.36
10500	0.78	1.73	1.84	0.51	1	1.48	1.84	1.26
10800	0.73	1.61	1.73	0.46	0.91	1.35	1.73	1.16
11100	0.67		1.62	0.41	0.82	1.24	1.62	1.07
11400	0.63		1.53		0.75	1.13	1.52	0.99
11700	0.58		1.44		0.68	1.04	1.39	0.92
12000	0.54		1.37		0.62	0.95	1.28	0.86

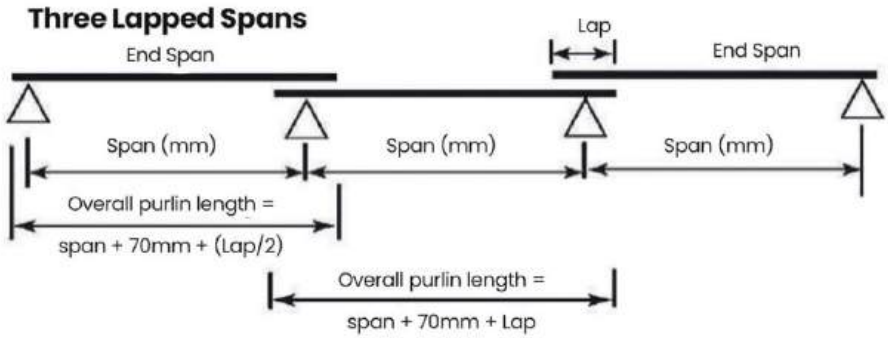
THREE LAPPED SPAN C/Z 25024 (KN/M)								
	INWARD			OUTWARD				L/150
Bridging Span (mm)	0	1	2,3	0	1	2	3	
3000	19.78	19.78	19.78	19.78	19.78	19.78	19.78	70.48
3300	17.87	17.99	17.99	17.99	17.99	17.99	17.99	52.7
3600	13.95	16.5	16.5	16.5	16.5	16.5	16.5	40.41
3900	11.16	15.24	15.24	15.24	15.24	15.24	15.24	31.65
4200	9.12	14.16	14.16	14.16	14.16	14.16	14.16	25.24
4500	7.58	13.22	13.22	13.22	13.22	13.22	13.22	20.45
4800	6.4	12.4	12.4	11.27	12.4	12.4	12.4	16.8
5100	5.46	11.68	11.68	9.13	11.68	11.68	11.68	13.96
5400	4.72	10.55	10.55	7.5	10.55	10.55	10.55	11.73
5700	4.11	9.45	9.45	6.24	9.45	9.45	9.45	9.95
6000	3.61	8.52	8.52	5.2	8.52	8.52	8.52	8.51
6300	3.2	7.67	7.71	4.35	7.48	7.71	7.71	7.33
6600	2.85	6.87	7.02	3.66	6.59	7.02	7.02	6.38
6900	2.55	6.19	6.41	3.11	5.82	6.41	6.41	5.61
7200	2.29	5.6	5.88	2.65	5.1	5.88	5.88	4.97
7500	2.07	5.06	5.36	2.28	4.44	5.36	5.36	4.42
7800	1.88	4.58	4.91	1.9	3.87	4.91	4.91	3.95
8100	1.71	4.17	4.51	1.72	3.39	4.51	4.51	3.55
8400	1.57	3.81	4.15	1.5	2.98	4.1	4.15	3.2

THREE LAPPED SPAN C/Z 25024 (KN/M)								
	INWARD			OUTWARD				L/150
Bridging Span (mm)	0	1	2,3	0	1	2	3	
8700	1.44	3.49	3.84	1.32	2.64	3.72	3.84	2.89
9000	1.32	3.2	3.56	1.17	2.35	3.38	3.56	2.61
9300	1.23	3.04	3.53	1.05	2.14	3.21	3.53	2.39
9600	1.13	2.81	3.31	0.94	1.9	2.91	3.31	2.18
9900	1.05	2.59	3.08	0.84	1.69	2.63	3.08	1.99
10200	0.97	2.39	2.88	0.75	1.51	2.37	2.86	1.82
10500	0.91	2.21	2.7	0.68	1.36	2.14	2.64	1.67
10800	0.84	2.05	2.53	0.61	1.22	1.94	2.44	1.54
11100	0.79	1.91	2.38	0.55	1.1	1.76	2.25	1.42
11400	0.73	1.78	2.25	0.5	1	1.61	2.09	1.31
11700	0.69	1.66	2.12	0.46	0.9	1.47	1.94	1.21
12000	0.64	1.56	2	0.42	0.82	1.34	1.79	1.13

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

THREE LAPPED SPAN: C/Z 300 SERIES (KN/M)



THREE LAPPED SPAN C/Z 30024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
6000	5.36	10.31	10.31	10.31	10.12	10.31	1 0.31	1 0.31	14.12
6300	4.7	9.5	9.5	9.5	8.59	9.5	9.5	9.5	12.17
6600	4.15	8.77	8.77	8.77	7.29	8.77	8.77	8.77	10.56
6900	3.69	8.12	8.12	8.12	6.35	8.12	8.12	8.12	9.22
7200	3.3	7.54	7.54	7.54	5.57	7.54	7.54	7.54	8.1
7500	2.97	7.01	7.01	7.01	4.88	7.01	7.01	7.01	7.16
7800	2.68	6.53	6.53	6.53	4.25	6.53	6.53	6.53	6.35
8100	2.43	6.1	6.1	6.1	3.73	6.1	6.1	6.1	5.73
8400	2.21	5.66	5.71	5.71	3.28	5.62	5.71	5.71	5.2
8700	2.03	5.16	5.28	5.28	2.88	5.06	5.28	5.28	4.73
9000	1.86	4.73	4.89	4.89	2.53	4.57	4.89	4.89	4.31
9300	1.72	4.51	4.85	4.85	2.29	4.22	4.85	4.85	3.95
9600	1.59	4.14	4.54	4.54	2.04	3.79	4.54	4.54	3.6
9900	1.47	3.8	4.24	4.24	1.81	3.35	4.24	4.24	3.29
10200	1.37	3.5	3.96	3.96	1.62	3.04	3.96	3.96	3.02
10500	1.27	3.24	3.71	3.71	1.46	2.77	3.71	3.71	2.77
10800	1.19	3	3.48	3.48	1.31	2.53	3.48	3.48	2.55
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100	1.11	2.78	3.27	3.27	1.18	2.32	3.27	3.27	2.36
11400	1.04	2.59	3.09	3.09	1.07	2.13	3.04	3.09	2.18
11700	0.97	2.42	2.91	2.91	0.97	1.96	2.81	2.91	2.02
12000	0.91	2.26	2.75	2.75	0.88	1.8	2.61	2.75	1.88
12300	0.87	2.14	2.78	2.78	0.83	1.71	2.49	2.78	1.77

THREE LAPPED SPAN C/Z 30024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
12600	0.82	2.02	2.65	2.65	0.76	1.57	2.3	2.65	1.65
12900	0.77	1.9	2.52	2.52	0.7	1.44	2.12	2.52	1.55
13200	0.73	1.8	2.41	2.41	0.64	1.32	1.97	2.41	1.45
13500	0.69	1.7	2.3	2.3	0.59	1.21	1.8	2.3	1.36
13800	0.65	1.61	2.2	2.2	0.54	1.12	1.68	2.17	1.28
14100	0.62	1.53	2.11	2.11	0.5	1.03	1.57	2.04	1.2
14400	0.58	1.45	2.02	2.02	0.46	0.95	1.47	1.92	1.14
14700	0.56	1.38	1.93	1.93	0.43	0.88	1.37	1.81	1.07
15000	0.53	1.31	1.84	1.84	0.4	0.81	1.29	1.69	1.01
15300	0.5	1.24	1.76	1.76		0.75	1.21	1.58	0.95
15600	0.48	1.18	1.67	1.68		0.7	1.13	1.48	0.9
15900	0.45	1.13	1.59	1.61		0.65	1.06	1.38	0.85
16200	0.43	1.07	1.52	1.55		0.61	1	1.3	0.81
16500	0.41	1.03	1.45	1.49		0.57	0.93	1.22	0.76
16800		0.98	1.39	1.43		0.53	0.88	1.13	0.73
17100		0.94	1.33	1.37		0.49	0.82	1.06	0.69
17400		0.9	1.27	1.32		0.46	0.78	1.01	0.65

THREE LAPPED SPAN C/Z 30024/ 30030 (KN/m)								
	INWARD			OUTWARD				L/150
Bridging Span (mm)	0	1	2,3	0	1	2	3	
6000	5.96	11.2	11.2	11.2	11.2	11.2	11.2	18.35
6300	5.2	10.24	10.24	10.24	10.24	10.24	10.24	15.81
6600	4.58	9.4	9.4	8.82	9.4	9.4	9.4	13.73
6900	4.06	8.65	8.65	7.58	8.65	8.65	8.65	11.99
7200	3.62	7.99	7.99	6.47	7.99	7.99	7.99	10.53
7500	3.25	7.4	7.4	5.68	7.4	7.4	7.4	9.38
7800	2.93	6.87	6.87	5.01	6.87	6.87	6.87	8.39
8100	2.66	6.38	6.38	4.45	6.38	6.38	6.38	7.55
8400	2.42	5.88	5.88	3.97	5.88	5.88	5.88	6.81
8700	2.21	5.44	5.44	3.53	5.44	5.44	5.44	6.17
9000	2.02	5.04	5.04	3.14	5.04	5.04	5.04	5.61

THREE LAPPED SPAN C/Z 30024/ 30030 (KN/m)								
INWARD				OUTWARD				L/150
Bridging Span (mm)	0	1	2,3	0	1	2	3	
9300	1.88	4.89	5.04	2.89	4.94	5.04	5.04	5.15
9600	1.73	4.5	4.69	2.57	4	4.69	4.69	4.7
9900	1.6	4.15	4.37	2.29	4.49	4.37	4.37	4.3
10200	1.49	3.84	4.08	2.06	3.7	4.08	4.08	3.94
10500	1.38	3.55	3.82	1.85	3.35	3.82	3.82	3.62
10800	1.29	3.28	3.59	1.67	3.05	3.59	3.59	3.34
Section Below Exceed the Normal Delivery Length of 12000 MM								
11100	1.2	3.05	3.38	1.51	2.77	3.38	3.38	3.08
11400	1.13	2.83	3.18	1.37	2.49	3.18	3.18	2.84
11700	1.05	2.64	3	1.24	2.3	3	3	2.63
12000	0.99	2.47	2.84	1.14	2.21	2.84	2.84	2.43
12300	0.94	2.37	3	1.07	2.08	2.69	3	2.3
12600	0.89	2.22	2.84	0.98	1.93	2.75	2.84	2.13
12900	0.84	2.08	2.69	0.9	1.79	2.56	2.69	1.99
13200	0.79	1.96	2.55	0.83	1.65	2.39	2.55	1.85
13500	0.75	1.85	2.42	0.76	1.52	2.22	2.42	1.73
13800	0.71	1.75	2.3	0.7	1.41	2.06	2.3	1.62
14100	0.67	1.65	2.19	0.65	1.31	1.91	2.19	1.52
14400	0.64	1.56	2.08	0.6	1.22	1.78	2.08	1.42
14700	0.6	1.48	1.99	0.56	1.13	1.66	1.99	1.34
15000	0.57	1.41	1.9	0.52	1.04	1.55	1.9	1.26
15300	0.55	1.34	1.82	0.49	0.97	1.42	1.82	1.18
15600	0.52	1.27	1.74	0.45	0.9	1.34	1.72	1.12
15900	0.5	1.21	1.66	0.42	0.84	1.26	1.63	1.05
16200	0.47	1.16	1.6	0.4	0.78	1.19	1.54	1
16500	0.45	1.1	1.53		0.73	1.12	1.46	0.94
16800	0.43	1.05	1.47		0.68	1.06	1.38	0.89
17100	0.41	1.01	1.41		0.64	1	1.3	0.85
17400		0.96	1.36		0.6	0.94	1.23	0.8

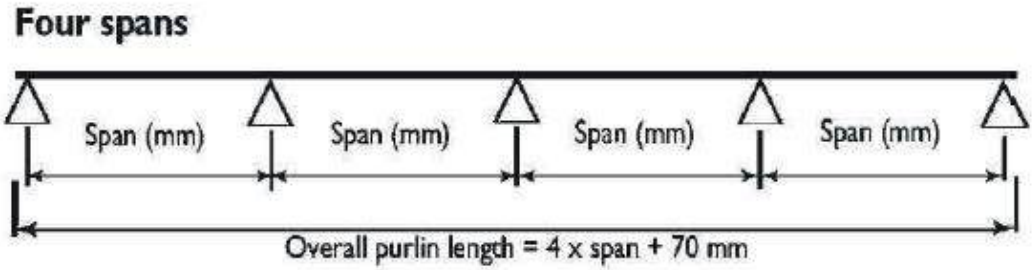
THREE LAPPED SPAN : C/Z 30030 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
6000	6.31	16.68	1.68	1.68	14.28	16.68	16.68	16.68	18.83
6300	5.51	15.1	15.1	15.1	12.15	15.1	15.1	15.1	16.23
6600	4.85	13.69	13.74	13.74	10.39	13.74	13.74	13.74	14.09
6900	4.3	12.31	12.55	12.55	8.83	12.55	12.55	12.55	12.3
7200	3.83	11.12	11.51	11.51	7.56	11.51	11.51	11.51	10.81
7500	3.44	10.01	10.49	10.49	6.5	10.47	10.49	10.49	9.55
7800	3.1	9.05	9.6	9.6	5.62	9.41	9.6	9.6	8.53
8100	2.81	8.21	8.82	8.82	4.89	8.49	8.82	8.82	7.66
8400	2.55	7.48	8.13	8.13	4.27	7.68	8.13	8.13	6.92
8700	2.33	6.84	7.52	7.52	3.75	6.97	7.52	7.52	6.27
9000	2.14	6.28	6.98	6.98	3.31	6.34	6.98	6.98	5.7
9300	1.98	5.97	6.91	6.91	3	6	6.91	6.91	5.23
9600	1.83	5.47	6.48	6.48	2.67	5.4	6.48	6.48	4.79
9900	1.69	5.02	6.04	6.04	2.38	4.87	6.04	6.04	4.4
10200	1.57	4.61	5.64	5.64	2.13	4.4	5.63	5.64	4.03
10500	1.46	4.26	5.29	5.29	1.91	3.9	5.2	5.29	3.7
10800	1.36	3.94	4.96	4.96	1.73	3.58	4.82	4.96	3.41
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100	1.27	3.66	4.67	4.67	1.56	3.23	4.47	4.67	3.15
11400	1.19	3.4	4.4	4.4	1.41	2.93	4.16	4.4	2.92
11700	1.12	3.16	4.15	4.15	1.29	2.66	3.87	4.15	2.7
12000	1.05	2.94	3.92	3.92	1.17	2.42	3.61	3.92	2.5
12300	10	2.8	3.88	3.97	1.1	2.27	3.52	3.97	2.36
12600	0.94	2.62	3.67	3.78	1.01	2.08	3.28	3.76	2.19
12900	0.89	2.45	3.47	3.6	0.93	1.9	3.03	3.54	2.04
13200	0.84	2.3	3.29	3.44	0.85	1.75	2.81	3.33	1.91
13500	0.8	2.16	3.12	3.28	0.78	1.61	2.61	3.15	1.78
13800	0.76	2.04	2.9	3.14	0.72	1.48	2.43	2.97	1.66
14100	0.72	1.92	2.81	3	0.67	1.36	2.25	2.81	1.56
14400	0.68	1.81	2.68	2.88	0.62	1.26	2.08	2.66	1.46
14700	0.65	1.71	2.54	2.75	0.58	1.17	1.93	2.5	1.37
15000	0.62	1.62	2.42	2.62	0.54	1.08	1.79	2.37	1.29

THREE LAPPED SPAN : C/Z 30030 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
15300	0.59	1.53	2.3	2.51	0.5	1	1.66	2.23	1.22
15600	0.56	1.46	2.19	2.39	0.47	0.93	1.55	2.1	1.15
15900	0.53	1.38	2.09	2.28	0.44	0.87	1.44	1.97	1.08
16200	0.51	1.31	1.99	2.17	0.41	0.81	1.34	1.85	1.02
16500	0.49	1.25	1.9	2.08		0.76	1.25	1.74	0.97
16800	0.47	1.19	1.82	1.99		0.71	1.17	1.64	0.92
17100	0.45	1.13	1.74	1.9		0.66	1.1	1.54	0.87
17400	0.43	1.08	1.66	1.82		0.62	1.03	1.46	0.82

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR CONTINUOUS SPANS: C/Z 100,150 & 200 SERIES (KN/M)



FOUR CONTINUOUS SPANS: Z/C10019 (KN/M)				
	IN	OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	10.26	10.26	10.26	14.51
2400	7.85	7.85	7.85	9.72
2700	6.2	5.34	6.2	6.87
3000	5.03	3.75	5.03	5.02
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3300	4.15	2.49	4.15	3.79
3600	3.49	1.8	3.49	2.94
3900	2.97	1.33	2.97	2.33

FOUR CONTINUOUS SPANS Z/C15015 (KN/M)				
IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	11.36	11.36	11.36	31.49
2400	9.22	9.22	9.22	21.1
2700	7.62	7.62	7.62	14.82
3000	6.36	6.36	6.36	10.8
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3300	5.25	5.02	5.25	8.12
3600	4.41	3.76	4.41	6.25
3900	3.76	2.82	3.76	4.92

FOUR CONTINUOUS SPANS Z/C15019 (KN/M)

IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	17.1	17.1	17.1	41.09
2400	13.66	13.66	13.66	27.53
2700	11.04	11.04	11.04	19.33
3000	8.96	8.96	8.96	14.09
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3300	7.41	6.97	7.14	10.59
3600	6.22	5.1	6.22	8.16
3900	5.3	3.74	5.3	6.42

FOUR CONTINUOUS SPANS Z/C15024 (KN/M)				
IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	21.6	21.6	21.6	54.8
2400	18.9	18.9	18.9	36.71
2700	15.59	15.59	15.59	25.78
3000	12.62	12.62	12.62	18.8
SECTION BELOW EXCEED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3300	10.43	9.47	10.43	14.12
3600	8.77	6.8	8.77	10.88
3900	7.47	5	7.47	8.56

FOUR CONTINUOUS SPANS Z/C20015 (KN/M)				
IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	10.57	10.57	10.57	62.26
2400	8.92	8.92	8.92	41.71
2700	7.64	7.64	7.64	29.29
3000	6.62	6.62	6.62	21.35
3300	5.78	5.78	5.78	16.04
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3600	5.09	5.09	5.09	12.36
3900	4.52	4.52	4.52	9.72

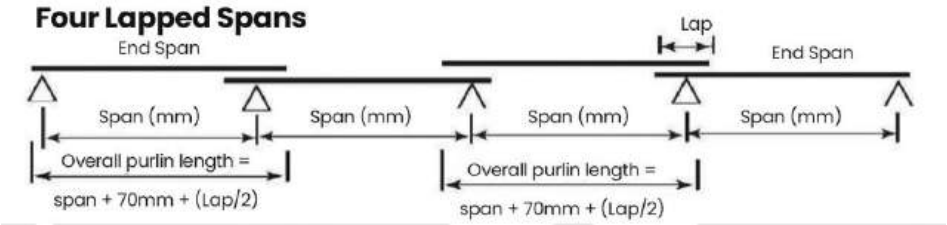
FOUR CONTINUOUS SPANS Z/C20019 (KN/M)				
IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	17.1	17.1	17.1	88.71
2400	14.96	14.96	14.96	59.43
2700	13.3	13.3	13.3	41.74
3000	11.18	11.18	11.18	30.43
3300	10.18	10.18	10.18	22.86
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3600	8.85	8.85	8.85	17.61
3900	7.76	7.7	7.76	13.85

FOUR CONTINUOUS SPANS Z/C20024 (KN/M)				
IN		OUT		L/150
BRIDGING SPAN (MM)	0,1,2,3	0	1,2,3	
2100	21.6	21.6	21.6	117.14
2400	18.9	18.9	18.9	78.47
2700	16.8	16.8	16.8	55.11
3000	15.12	15.12	15.12	40.18
3300	13.75	13.75	13.75	30.19
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM				
3600	12.6	12.6	12.6	23.25
3900	11.26	11.1	11.26	18.29

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS: C/Z 100 SERIES (KN/M)

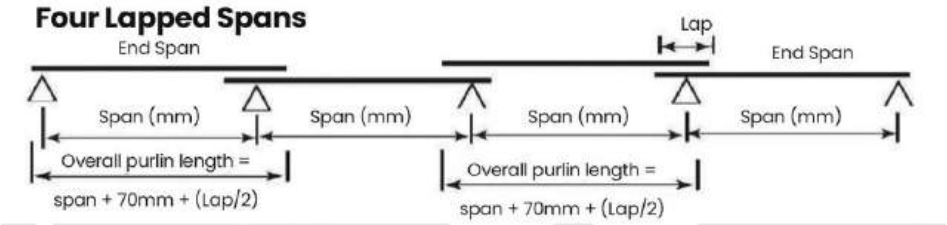


FOUR LAPPED SPAN: C/Z 10019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
2100	12.6	15.57	15.57	15.57	15.57	15.57	15.57	16.7
2400	9.1	11.82	11.82	11.71	11.82	11.82	11.82	11.06
2700	6.83	9.27	9.27	8.61	9.27	9.27	9.27	7.69
3000	5.31	7.47	7.47	6.41	7.47	7.47	7.47	5.56
3300	4.22	6.04	6.04	4.83	6.04	6.04	6.04	4.17
3600	3.4	4.9	4.9	3.6	4.9	4.9	4.9	3.2
3900	2.8	4.05	4.05	2.77	3.99	4.05	4.05	2.51
4200	2.34	3.41	3.14	2.15	3.25	3.14	3.14	2.01
4500	1.98	2.91	2.19	1.69	2.66	2.19	2.19	1.64
4800	1.7	2.51	2.51	1.36	2.2	2.51	2.51	1.36
5100	1.46	2.19	2.19	1.1	1.84	2.19	2.19	1.13
5400	1.27	1.92	1.92	0.91	1.55	1.9	1.92	0.95
5700	1.11	1.71	1.71	0.76	1.3	1.65	1.71	0.8
6000	0.98	1.52	1.52	0.64	1.1	1.43	1.52	0.69
6300	0.89	1.48	1.51	0.56	0.98	1.33	1.51	0.61
6600	0.79	1.32	1.36	0.48	0.83	1.16	1.34	0.53
6900	0.71	1.18	1.23	0.42	0.71	1.01	1.18	0.46
7200	0.63	1.06	1.12		0.61	0.89	1.05	0.4
7500	0.57	0.96	1.02		0.53	0.77	0.93	0.35
7800	0.51	0.87	0.93		0.46	0.68	0.83	0.31

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS: C/Z 150 SERIES (KN/M



FOUR LAPPED SPAN: C/Z 15015 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	7.3	9.68	9.68	9.68	9.68	9.68	9.68	12.49
3300	5.81	7.95	7.95	7.95	7.95	7.95	7.95	9.31
3600	4.72	6.64	6.64	6.35	6.64	6.64	6.64	7.12
3900	3.91	5.63	5.63	5.03	5.63	5.63	5.63	5.56
4200	3.29	4.84	4.84	3.93	4.84	4.84	4.84	4.42
4500	2.8	4.2	4.2	3.07	4.2	4.2	4.2	3.58
4800	2.4	3.66	3.66	2.5	3.66	3.66	3.66	2.93
5100	2.07	3.16	3.16	2.05	3.16	3.16	3.16	2.44
5400	1.8	2.75	2.75	1.7	2.7	2.75	2.75	2.06
5700	1.57	2.42	2.42	1.41	2.3	2.42	2.42	1.76
6000	1.39	2.15	2.15	1.18	1.97	2.15	2.15	1.51
6300	1.23	1.92	1.92	0.99	1.68	1.92	1.92	1.31
6600	1.1	1.72	1.72	0.84	1.43	1.72	1.72	1.14
6900	0.98	1.55	1.55	0.72	1.2	1.55	1.55	1
7200	0.88	1.41	1.41	0.62	1,04	1.41	1.41	0.89
7500	0.8	1.29	1.29	0.53	0.91	1.27	1.29	0.79
7800	0.72	1.18	1.18	0.46	0.8	1.13	1.18	0.71
8100	0.66	1.08	1.08	0.4	0.71	1.01	1.08	0.63
8400	0.6	1	1		0.63	0.91	1	0.57
8700	0.55	0.92	0.92		0.57	0.81	0.92	0.52
9000	0.5	0.86	0.86		0.51	0.72	0.86	0.47
9300	0.47	0.84	0.85		0.46	0.65	0.83	0.43
9600	0.43	0.78	0.79		0.41	0.59	0.76	0.39
9900	0.4	0.72	0.74			0.53	0.69	0.36

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

FOUR LAPPED SPAN: C/Z 15019 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
3000	9.42	13.64	13.64	13.64	13.56	13.64	13.64	13.64	16.29
3300	7.39	11.21	11.21	11.21	10.61	11.21	11.21	11.21	12.14
3600	5.95	9.37	9.37	9.37	8.43	9.37	9.37	9.37	9.29
3900	4.89	7.94	7.94	7.94	6.77	7.94	7.94	7.94	7.25
4200	4.09	6.82	6.82	6.82	5.39	6.82	6.82	6.82	5.77
4500	3.47	5.92	5.92	5.92	4.29	5.92	5.92	5.92	4.67
4800	2.96	5.16	5.16	5.16	3.43	5.02	5.16	5.16	3.82
5100	2.54	4.45	4.45	4.45	2.78	4.22	4.45	4.45	3.2
5400	2.21	3.88	3.88	3.88	2.29	3.59	3.88	3.88	2.71
5700	1.93	3.4	3.41	3.41	1.88	3.07	3.41	3.41	2.32
6000	1.7	2.99	3.03	3.03	1.56	2.64	3.03	3.03	2.01
6300	1.51	2.65	2.7	2.7	1.31	2.29	2.7	2.7	1.74
6600	1.34	2.37	2.43	2.43	1.1	1.97	2.39	2.43	1.53
6900	1.2	2.12	2.19	2.19	0.94	1.71	2.11	2.19	1.34
7200	1.08	1.92	1.99	1.99	0.81	1.48	1.88	1.99	1.18
7500	0.98	1.74	1.81	1.81	0.7	1.28	1.68	1.81	1.04
7800	0.88	1.58	1.66	1.66	0.61	1.12	1.51	1.66	0.93
8100	0.8	1.44	1.52	1.52	0.53	0.98	1.36	1.52	0.83
8400	0.73	1.32	1.41	1.41	0.47	0.87	1.22	1.38	0.74
8700	0.67	1.21	1.3	1.3	0.41	0.77	1.11	1.26	0.67
9000	0.61	1.12	1.21	1.21		0.68	0.99	1.15	0.61
9300	0.57	1.08	1.18	1.2		0.62	0.93	1M	0.56
9600	0.53	1	1.09	1.12		0.55	0.83	1.01	0.51
9900	0.48	0.93	1.01	1.04		0.49	0.75	0.93	0.46
10200	0.45	0.86	0.94	0.98		0.44	0.67	0.85	0.42
10500	0.41	0.8	0.87	0.91		0.4	0.61	0.78	0.39
10800		0.75	0.81	0.86			0.55	0.72	0.35
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100		0.7	0.76	0.81			0.5	0.66	0.33
11400		0.65	0.71	0.76			0.46	0.61	0.3

FOUR LAPPED SPAN: C/Z 15019 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
11700		0.61	0.66	0.72			0.42	0.56	0.28

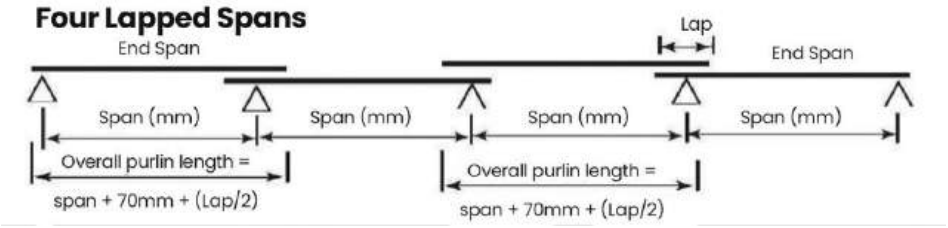
FOUR LAPPED SPAN : C/Z 15024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
3000	11.57	18.71	18.71	18.71	18.71	18.71	18.71	18.71	21.73
3300	8.97	15.79	15.79	15.79	14.89	15.79	15.79	15.79	16.2
3600	7.15	13.2	13.2	13.2	11.71	13.2	13.2	13.2	12.38
3900	5.82	11.19	1.19	11.19	9.33	1.19	11.19	11.19	9.67
4200	4.83	9.61	9.61	9.61	7.38	9.61	9.61	9.61	7.7
4500	4.06	8.34	8.34	8.34	5.78	8.34	8.34	8.34	6.22
4800	3.46	7.27	7.27	7.27	4.59	7.13	7.27	7.27	5.1
5100	2.98	6.23	6.27	6.27	3.69	5.96	6.27	6.27	4.25
5400	2.59	5.37	5.47	5.47	3.01	5.04	5.47	5.47	3.58
5700	2.26	4.68	4.81	4.81	2.48	4.29	4.81	4.81	3.05
6000	2	4.1	4.26	4.26	2.07	3.68	4.26	4.26	2.63
6300	1.77	3.63	3.8	3.8	1.74	3.18	3.8	3.8	2.28
6600	1.58	3.23	3.42	3.42	1.48	2.75	3.4	3.42	1.97
6900	1.42	2.89	3.09	3.09	1.26	2.37	3	3.09	1.72
7200	1.28	2.6	2.8	2.8	1.09	2.03	2.66	2.8	1.51
7500	1.16	2.35	2.55	2.55	0.95	1.76	2.37	2.55	1.33
7800	1.05	2.16	2.34	2.34	0.83	1.53	2.11	2.36	1.18
8100	0.96	1.95	2.15	2.15	0.73	1.33	1.9	2.15	1.05
8400	0.88	1.78	1.98	1.98	0.64	1.17	171	1.97	0.94
8700	0.81	1.63	1.83	1.83	0.57	1.03	1.54	1.79	0.85
9000	0.74	1.5	1.7	1.7	0.51	0.92	1.39	1.63	0.76
9300	0.7	1.45	1.64	1.69	0.47	0.83	1.29	1.56	0.7
9600	0.64	1.34	1.51	1.58	0.42	0.74	1.15	1.42	0.64
9900	0.6	1.26	1.4	1.47		0.67	1.03	1.3	0.58
10200	0.55	1.15	1.3	1.37		0.6	0.92	1.19	0.53
10500	0.51	1.07	1.2	1.29		0.54	0.83	1.09	0.48
10800	0.48	1	1.12	1.21		0.49	0.75	1.01	0.44
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									

FOUR LAPPED SPAN : C/Z 15024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
11100	0.45	0.93	1.04	1.14		0.44	0.68	0.92	0.41
11400	0.42	0.87	0.97	1.07		0.4	0.62	0.85	0.38
11700		0.81	0.91	1.01			0.57	0.78	0.35

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS: C/Z 200 SERIES (KN/M



FOUR LAPPED SPAN: C/Z 20015 (KN/M)							
	INWARD		OUTWARD				L/150
BRIDGING SPAN (MM)	0	1,2,3	0	1	2	3	
3000	10.05	10.05	10.05	10.05	10.05	10.05	24.69
3300	8.62	8.62	8.62	8.62	8.62	8.62	18.4
3600	6.93	7.47	7.47	7.47	7.47	7.47	14.07
3900	5.67	6.53	6.53	6.53	6.53	6.53	10.99
4200	4.72	5.74	5.74	5.74	5.74	5.74	8.75
4500	3.98	5.08	5.08	5.08	5.08	5.08	7.07
4800	3.4	4.53	4.53	4.53	4.53	4.53	5.79
5100	2.29	4.05	3.69	4.05	4.05	4.05	4.81
5400	2.53	3.64	3.02	3.64	3.64	3.64	4.03
5700	2.21	3.28	2.5	3.28	3.28	3.28	3.42
6000	1.95	2.91	2.09	2.91	2.91	2.91	2.92
6300	1.73	2.6	1.76	2.6	2.6	2.6	2.51
6600	1.54	2.33	1.5	2.33	2.33	2.33	2.18
6900	1.38	2.11	1.28	2.11	2.11	2.11	1.91
7200	1.24	1.91	1.07	1.89	1.91	1.91	1.7
7500	1.13	1.74	0.93	1.67	1.74	1.74	1.53
7800	1.02	1.6	0.82	1.48	1.6	1.6	1.37
8100	0.93	1.47	0.72	1.3	1.47	1.47	1.24
8400	0.85	1.35	0.64	1.14	1.35	1.35	1.12
8700	0.78	1.25	0.57	1.01	1.25	1.25	1.02
9000	0.71	1.16	0.51	0.9	1.16	1.16	0.93
9300	0.65	1.16	0.47	0.83	1.16	1.16	0.86

FOUR LAPPED SPAN: C/Z 20015 (KN/M)							
	INWARD		OUTWARD				L/150
BRIDGING SPAN (MM)	0	1,2,3	0	1	2	3	
9600	0.6	1.08	0.42	0.74	1.06	1.08	0.78
9900	0.56	1		0.67	0.97	1	0.71
10200	0.51	0.94		0.6	0.89	0.94	0.65
10500	0.48	0.88		0.54	0.81	0.88	0.6
10800	0.45	0.82		0.47	0.73	0.82	0.55
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM							
11100	0.42	0.78		0.43	0.66	0.78	0.51
11400		0.73			0.61	0.73	0.47
11700		0.69			0.55	0.69	0.44
12000		0.65			0.51	0.65	0.41

FOUR LAPPED SPAN : C/Z 20019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	14.21	18.71	18.71	18.71	18.71	18.71	18.71	35.18
3300	11.11	16.18	16.18	16.38	16.18	16.18	16.18	26.22
3600	8.92	13.72	13.72	13.72	13.72	13.72	13.72	20.05
3900	7.31	11.63	11.63	11.63	11.63	11.63	11.63	15.66
4200	6.09	9.99	9.99	9.77	9.99	9.99	9.99	12.46
4500	5.13	8.66	8.66	8.01	8.66	8.66	8.66	10.07
4800	4.36	7.56	7.56	6.48	7.56	7.56	7.56	8.26
5100	3.73	6.52	6.52	5.1	6.52	6.52	6.52	6.85
5400	3.27	5.68	5.68	4.22	5.68	5.68	5.68	5.75
5700	2.82	5	5	3.53	5	5	5	4.87
6000	2.48	4.43	4.43	2.99	4.43	4.43	4.43	4.16
6300	2.2	3.95	3.95	2.55	3.95	3.95	3.95	3.58
6600	1.96	3.55	3.55	2.19	3.55	3.55	3.55	3.12
6900	1.75	3.21	3.21	1.88	3.21	3.21	3.21	2.74
7200	1.58	2.91	2.91	1.62	2.75	2.91	2.91	2.41
7500	1.43	2.65	2.65	1.4	2.42	2.65	2.65	2.14
7800	1.3	2.43	2.43	1.22	2.12	2.43	2.43	1.91
8100	1.18	2.23	2.23	1.07	1.87	2.23	2.23	1.71
8400	1.08	2.06	2.06	0.94	1.6	2.06	2.06	1.54
8700	0.99	1.91	1.91	0.83	1.43	1.91	1.91	1.39

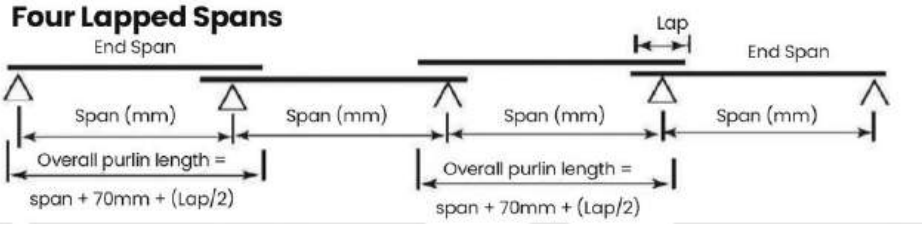
FOUR LAPPED SPAN : C/Z 20019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
9000	0.91	1.77	1.77	0.73	1.28	1.77	1.77	1.26
9300	0.86	1.73	1.76	0.67	1.2	1.7	1.76	1.16
9600	0.79	1.59	1.64	0.59	1.08	1.55	1.64	1.06
9900	0.73	1.48	1.53	0.53	0.98	1.41	1.53	0.97
10200	0.68	1.37	1.43	0.47	0.89	1.28	1.43	0.89
10500	0.63	1.27	1.34	0.43	0.81	1.16	1.34	0.82
10800	0.59	1.19	1.26		0.73	1.05	1.26	0.75
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM								
11100	0.55	1.11	1.18		0.66	0.93	1.18	0.7
11400	0.52	1.04	1.11		0.6	0.85	1.1	0.64
11700	0.48	0.97	1.05		0.55	79	1.02	0.6
12000	0.45	0.91	0.99		0.5	0.72	0.72	0.56

FOUR LAPPED SPAN : C/Z 20024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
3000	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71	46.45
3300	14.52	17.04	17.04	17.04	17.04	17.04	17.04	17.04	34.62
3600	11.35	15.65	15.65	15.65	15.65	15.65	15.65	15.65	26.47
3900	9.1	14.47	14.47	14.47	14.47	14.47	14.47	14.47	20.68
4200	7.44	13.45	13.45	13.45	13.33	13.45	13.45	13.45	16.45
4500	6.19	12.57	12.57	12.57	11.06	12.57	12.57	12.57	13.3
4800	5.23	10.99	10.99	10.99	9.12	10.99	10.99	10.99	10.9
5100	4.46	9.48	9.48	9.48	7.4	9.48	9.48	9.48	9.05
5400	3.85	8.26	8.26	8.26	6.06	8.26	8.26	8.26	7.59
5700	3.35	7.26	7.27	7.27	5.02	7.27	7.27	7.27	6.43
6000	2.94	6.37	6.44	6.44	4.21	6.33	6.44	6.44	5.49
6300	2.6	5.63	5.75	5.75	3.55	5.53	5.75	5.75	4.73
6600	2.32	5.01	5.16	5.16	3	4.85	5.16	5.16	4.14
6900	2.08	4.49	4.66	4.66	2.55	4.28	4.66	4.66	3.65
7200	1.87	4.04	4.23	4.23	2.18	3.8	4.23	4.23	3.23
7500	1.69	3.65	3.86	3.86	1.88	3.38	3.86	3.86	2.87

FOUR LAPPED SPAN : C/Z 20024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
7800	1.54	3.32	3.53	3.53	1.63	3	3.53	3.53	2.57
8100	1.4	3.02	3.25	3.25	1.42	2.67	3.24	3.25	2.31
8400	1.28	2.77	2.99	2.99	1.25	2.35	2.94	2.99	2.07
8700	1.17	2.54	2.77	2.77	1.1	2.08	2.67	2.77	1.86
9000	1.08	2.34	2.57	2.57	0.98	1.85	2.44	2.57	1.68
9300	1.01	2.27	2.56	2.56	0.89	1.71	2.35	2.56	1.55
9600	0.93	2.09	2.38	2.38	0.79	1.54	2.14	2.38	0.41
9900	0.87	1.94	2.21	2.22	0.71	1.38	1.96	2.22	1.29
10200	0.8	1.8	2.05	2.08	0.64	1.24	1.8	2.04	1.18
10500	0.75	1.68	1.91	1.95	0.58	1.11	1.65	1.89	1.08
10800	0.7	1.56	1.78	1.83	0.52	1	1.51	1.75	1
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100	0.65	1.46	1.66	1.72	0.47	0.91	1.38	1.63	0.92
11400	0.61	1.36	1.55	1.62	0.43	0.82	1.25	1.51	0.85
11700	0.57	1.27	1.46	1.53		0.75	1.15	1.41	0.78
12000	0.54	1.19	1.37	1.45		0.68	1.05	1.31	0.73

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS: C/Z 250 SERIES (KN/M



FOUR LAPPED SPAN : C/Z 25019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
3000	16.52	16.52	16.52	16.52	16.52	16.52	16.52	57.13
3300	14.29	14.29	14.29	14.29	14.29	14.29	14.29	42.58
3600	11.46	12.49	12.49	12.49	12.49	12.49	12.49	32.56
3900	9.36	11.01	11.01	11.01	11.01	11.01	11.01	25.43
4200	7.75	9.78	9.78	9.78	9.78	9.78	9.78	20.24

FOUR LAPPED SPAN : C/Z 25019 (KN/M)								
	INWARD			OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2,3	0	1	2	3	
4500	6.68	8.73	8.73	8.73	8.73	8.73	8.73	1.36
4800	5.5	7.84	7.84	7.84	7.84	7.84	7.84	13.41
5100	4.7	7.07	7.07	6.78	7.07	7.07	7.07	11.13
5400	4.07	6.4	6.4	5.59	6.4	6.4	6.4	3.33
5700	3.55	5.82	5.82	4.66	5.82	5.82	5.82	7.9
6000	3.12	5.31	5.31	3.93	5.31	5.31	5.31	6.75
6300	2.76	4.86	4.86	3.34	4.86	4.86	4.86	5.81
6600	2.46	4.46	4.46	2.86	4.46	4.46	4.46	5.04
6900	2.2	4.07	4.07	2.44	4.07	4.07	4.07	4.4
7200	1.98	3.7	3.7	2.09	3.68	3.7	3.7	3.86
7500	1.79	3.37	3.37	1.81	3.22	3.37	3.37	3.4
7800	1.63	3.08	3.08	1.57	2.81	3.08	3.08	3.02
8100	1.48	2.83	2.83	1.37	2.4	2.83	2.83	2.701
8400	1.36	2.61	2.61	1.21	2.12	2.61	2.61	2.45
8700	1.24	2.42	2.42	1.06	1.89	2.42	2.42	2.23
9000	1.14	2.24	2.24	0.94	1.69	2.24	2.24	2.04
9300	1.07	2.23	2.23	0.85	1.58	2.23	2.23	1.88
9600	0.99	2.08	2.08	0.75	1.42	2.08	2.08	1.72
9900	0.92	1.94	1.94	0.67	1.28	1.88	1.94	1.58
10200	0.85	1.81	1.81	0.6	1.16	1.7	1.81	1.46
10500	0.79	1.68	1.68	0.54	1.05	1.54	1.7	1.34
10800	0.74	1.57	1.59	0.49	0.94	1.35	1.59	1.23
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM								
11100	0.69	1.46	1.5	0.44	0.85	1.24	1.5	1.14
11400	0.64	1.36	1.41	0.4	0.77	1.13	1.41	1.05
11700	0.6	1.27	1.33		0.7	1.04	1.33	0.97
12000	0.56	1.18	1.26		0.64	0.96	1.26	0.91

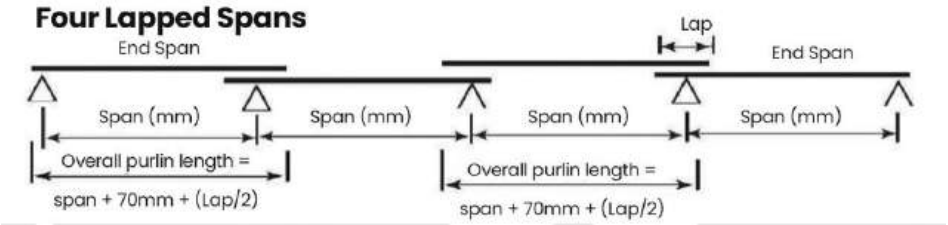
FOUR LAPPED SPAN : C/Z 25024 (KN/M)								
INWARD				OUTWARD				L/150
0	1	2	3	0	1	2	3	
18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71	78.8

FOUR LAPPED SPAN : C/Z 25024 (KN/M)								
INWARD				OUTWARD				L/150
0	1	2	3	0	1	2	3	
17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	58.73
14.2	15.65	15.65	15.65	15.65	15.65	15.65	15.65	44.9
11.35	14.47	14.47	14.47	14.47	14.47	14.47	14.47	35.08
9.27	13.45	13.45	13.45	13.45	13.45	13.45	13.45	27.91
7.7	12.57	12.57	12.57	12.57	12.57	12.57	12.57	22.56
6.48	11.8	11.8	11.8	11.8	11.8	11.8	11.8	18.5
5.53	11.12	11.12	11.12	9.68	11.12	11.12	11.12	15.35
4.76	10.51	10.51	10.51	7.8	10.51	10.51	10.51	12.87
4.14	9.31	9.31	9.31	6.53	9.31	9.31	9.31	10.9
3.63	8.26	8.26	8.26	5.47	8.26	8.26	8.26	9.31
3.21	7.37	7.37	7.37	4.6	7.37	7.37	7.37	8.01
2.86	6.62	6.62	6.62	3.87	6.49	6.62	6.62	6.95
2.56	5.97	5.98	5.98	3.28	5.72	5.98	5.98	6.06
2.3	5.36	5.42	5.42	2.8	5.05	5.42	5.42	5.32
2.08	4.84	4.95	4.95	2.41	4.48	4.95	4.95	4.7
1.89	2.39	4.53	4.53	2.09	3.95	4.53	4.53	4.19
1.72	4	4.16	4.16	1.82	3.48	4.16	4.16	3.75
1.57	3.66	3.84	3.84	1.59	3.07	3.84	3.84	3.38
1.44	3.36	3.55	3.55	1.4	2.71	3.55	3.55	3.06
1.33	3.09	3.29	3.29	1.23	2.41	3.26	3.29	2.77
1.23	2.97	3.28	3.28	1.12	2.22	3.13	3.28	2.55
1.14	2.74	3.05	3.05	1	1.99	2.85	3.05	2.33
1.06	2.53	2.85	2.85	0.89	1.78	2.61	2.85	2.13
0.98	2.34	2.66	2.66	0.8	1.59	2.38	2.66	1.96
0.91	2.17	2.49	2.49	0.72	1.43	2.17	2.49	1.8
0.85	2.02	2.34	2.34	0.65	1.28	1.97	2.34	1.65
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM								
0.8	1.88	2.2	2.2	0.59	1.16	1.79	2.18	1.52
0.74	1.75	2.07	2.08	0.53	1.05	1.63	2.02	1.4
0.7	1.64	1.94	1.96	0.49	0.95	1.49	1.88	1.3
0.65	1.53	1.82	1.85	0.44	0.87	1.36	1.75	1.2

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS**: C/Z** 300 SERIES **(KN/M**



FOUR LAPPED SPAN : C/Z 30024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
6000	5.4	9.68	9.68	9.68	9.68	9.68	9.68	9.68	1.45
6300	4.73	8.9	8.9	8.9	8.86	8.9	8.9	8.9	13.3
6600	4.17	8.21	8.21	8.21	7.55	8.21	8.21	8.21	11.53
6900	3.7	7.59	7.59	7.59	6.39	7.59	7.59	7.59	10.06
7200	3.31	7.03	7.03	7.03	5.57	7.03	7.03	7.03	8.83
7500	2.98	6.53	6.53	6.53	4.89	6.53	6.53	6.53	7.79
7800	2.69	6.08	6.08	6.08	4.32	6.08	6.08	6.08	6.91
8100	2.44	5.68	5.68	5.68	3.83	5.68	5.68	5.68	6.16
8400	2.22	5.27	5.27	5.27	3.38	5.27	5.27	5.27	5.51
8700	2.03	4.87	4.87	4.87	2.99	4.87	4.87	4.87	4.95
9000	1.86	4.52	4.52	4.52	2.67	4.49	4.52	4.52	4.46
9300	1.73	4.4	4.51	4.51	2.43	4.27	4.51	4.51	4.11
9600	1.6	4.05	4.19	4.19	2.15	3.86	4.19	4.19	3.76
9900	1.48	3.74	3.91	3.91	1.92	3.48	3.91	3.91	3.46
10200	1.37	3.46	3.65	3.65	1.72	3.14	3.65	3.65	3.19
10500	1.28	3.21	3.45	3.45	1.54	2.84	3.45	3.45	2.95
10800	1.19	2.98	3.21	3.21	1.39	2.53	3.21	3.21	2.72
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100	1.11	2.76	3.02	3.02	1.25	2.32	3.02	3.02	2.51
11400	1.04	2.57	2.85	2.85	1.13	213	2.85	2.85	2.33
11700	0.98	2.4	2.69	2.69	1.03	1.96	2.69	2.69	2.15
12000	0.92	2.24	2.54	2.54	0.94	1.81	2.54	2.54	2
12300	0.87	2.18	2.68	2.68	0.89	1.78	2.53	2.68	1.9
12600	0.82	2	2.53	2.53	0.81	1.63	2.35	2.53	1.77
12900	0.77	1.88	2.4	2.4	0.74	1.5	2.16	2.4	1.65

FOUR LAPPED SPAN : C/Z 30024 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
13200	0.73	1.77	2.27	2.27	0.68	1.38	2	2.27	1.54
13500	0.69	1.67	2.16	2.16	0.63	1.28	1.85	2.16	1.44
13800	0.66	1.58	2.05	2.05	0.58	1.18	1.72	2.05	1.35
14100	0.62	1.49	1.95	1.95	0.53	1.09	1.59	1.95	1.27
14400	0.59	1.41	1.85	1.86	0.49	1	1.46	1.86	1.2
14700	0.56	1.34	1.75	1.78	0.46	0.93	1.36	1.76	1.13
15000	0.53	1.27	1.66	1.7	0.42	0.86	1.28	1.66	1.06
15300	0.51	1.21	1.57	1.62		0.8	1.2	1.57	1.01
15600	0.48	1.15	1.49	1.56		0.74	1.13	1.48	0.95
15900	0.46	1.09	1.42	1.49		0.69	1.06	1.39	0.9
16200	0.44	1.04	1.35	1.43		0.64	1	1.31	0.86
16500	0.42	0.99	1.29	1.37		0.6	0.94	1.23	0.81
16800	0.4	0.95	1.22	1.32		0.56	0.89	1.16	0.77
17100		0.91	1.16	1.27		0.52	0.84	1.09	0.74
17400		0.87	1.11	1.22		0.49	0.79	1.03	0.7

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

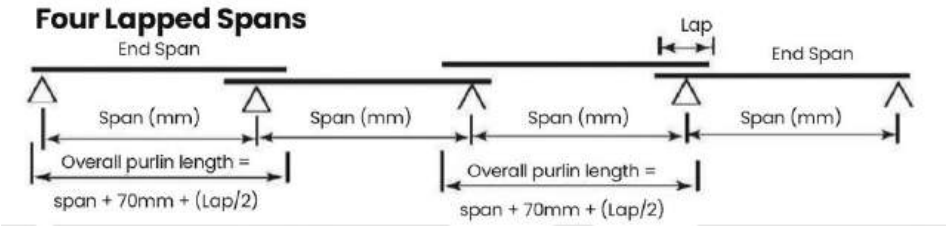
FOUR LAPPED SPAN : C/Z 30024/30030 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
6000	5.84	10.24	10.24	10.24	10.24	10.24	10.24	10.24	20.01
6300	5.1	9.38	9.38	9.38	9.38	9.38	9.38	9.38	17.23
6600	4.49	8.62	8.62	8.62	8.62	8.62	8.62	8.62	14.94
6900	3.98	7.94	7.94	7.94	7.69	7.94	7.94	7.94	13.03
7200	3.55	7.34	7.34	7.34	6.66	7.34	7.34	7.34	11.44
7500	3.19	6.8	6.8	6.8	5.8	6.8	6.8	6.8	10.09
7800	2.88	6.32	6.32	6.32	5	6.32	6.32	6.32	8.95
8100	2.61	5.87	5.87	5.87	4.44	5.87	5.87	5.87	7.89
8400	2.37	5.41	5.41	5.41	3.96	5.41	5.41	5.41	7.14

FOUR LAPPED SPAN : C/Z 30024/30030 (KN/M)									
	INWARD				OUTWARD				L/150
BRIDGING SPAN (MM)	0	1	2	3	0	1	2	3	
8700	2.17	5.01	5.01	5.01	3.54	5.01	5.01	5.01	6.46
9000	1.99	4.64	4.64	4.64	3.19	4.64	4.64	4.64	5.87
9300	1.84	4.63	4.63	4.63	2.98	4.63	4.63	4.63	5.4
9600	1.7	4.31	4.31	4.31	2.67	4.31	4.31	4.31	4.94
9900	1.57	4.01	4.02	4.02	2.4	4.01	4.02	4.02	4.53
10200	1.46	3.71	3.76	3.76	2.16	3.67	3.76	3.76	4.16
10500	1.36	3.44	3.52	3.52	1.94	3.36	3.52	3.52	3.83
10800	1.27	3.2	3.3	3.3	1.75	3.09	3.3	3.3	3.54
SECTION BELOW EXCCED THE NORMAL DELIVERY LENGTH OF 12000 MM									
11100	1.18	2.98	3.11	3.11	1.59	2.82	3.11	3.11	3.27
11400	1.11	2.78	2.93	2.93	1.44	2.58	2.93	2.93	3.02
11700	1.04	2.61	2.76	2.76	1.31	2.36	2.76	2.76	2.8
12000	0.97	2.44	2.61	2.61	1.2	2.17	2.61	2.61	2.6
12300	0.93	2.38	2.75	2.75	1.13	2.08	2.75	2.75	2.47
12600	0.87	2.23	2.6	2.6	1.04	1.93	2.6	2.6	2.3
12900	0.82	2.09	2.47	2.47	0.95	1.79	2.47	2.47	2.15
13200	0.78	1.96	2.34	2.34	0.88	1.66	2.33	2.34	2.01
13500	0.74	1.85	2.22	2.22	0.81	1.54	2.18	2.22	1.88
13800	0.7	1.74	2.11	2.11	0.75	1.44	2.04	2.11	1.76
14100	0.66	1.64	2.01	2.01	0.69	1.34	1.91	2.01	1.65
14400	0.63	1.55	1.92	1.92	0.64	1.25	1.79	1.92	1.54
14700	0.6	1.44	1.83	1.83	0.59	1.6	1.67	1.83	1.45
15000	0.57	1.37	1.75	1.75	0.55	1.08	1.56	1.75	1.36
15300	0.54	1.3	1.67	1.67	0.582	1.01	1.46	1.67	1.28
15600	0.51	1.24	1.6	1.6	0.48	0.95	1.36	1.6	1.21
15900	0.49	1.18	1.53	1.53	0.45	0.88	1.28	1.53	1.14
16200	0.47	1.12	1.46	1.47	0.42	0.82	1.2	1.46	1.08
16500	0.45	1.07	1.39	1.41		0.77	1.11	1.39	1.02
16800	0.43	1.02	1.33	1.35		0.72	1.05	1.33	0.96
17100	0.41	0.98	1.27	1.3		0.67	0.99	1.27	0.91
17400		0.93	1.21	1.25		0.63	0.94	1.21	0.87

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.

LIMIT STATE CAPACITY TABLES

FOUR LAPPED SPANS: CANTILEVER (KN/M)



CANTILEVER 1000 MM (KN/M)								
	END-SPAN	IN BRIDGING			OUT BRIDGING			L/150
SECTION	(MM)	0	1	2	0	1	2	
Z/C 10019	2000	9.69	9.69	9.69	9.69	9.69	9.69	7.18
	4000	2.41	2.76	2.76	1.41	2.41	2.76	0.48
	6000	0.96	1.14	1.14	0.34	0.60	0.95	0.12

CANTILEVER 1000 MM (KN/M)								
	END-SPAN	IN BRIDGING			OUT BRIDGING			L/150
SECTION	(MM)	0	1	2	0	1	2	
Z/C 15015	2000 4000 6000 8000	11.11 3.37 1.33 0.71	11.11 3.49 1.44 0.79	11.11 3.49 1.44 0.79	11.11 2.48 0.59 0.2	11.11 3.49 1.06 0.41	11.11 3.49 1.44 0.64	15.12 1.14 0.27 0.11
Z/C 15019	2000 4000 6000 8000	16.64 4.24 1.64 0.86	16.6 4.92 2.04 1.10	11.7 4.92 2.04 1.11	16.6 3.46 0.78 0.28	16.64 4.92 1.50 0.54	16.60 4.92 1.98 0.88	19.82 1.43 0.34 0.14
Z/C 15024	2000 4000 6000 8000	23.04 5.43 1.98 1.01	23.00 6.93 2.86 1.48	23.00 6.93 2.87 1.57	23.00 4.68 1.06 0.39	23.04 6.93 2.06 0.72	23.00 6.93 2.82 1.23	26.35 1.80 0.43 0.17
Z/C 20015	4000 6000 8000	4.73 1.88 0.98	4.73 1.96 1.07	4.73 1.96 1.07	4.53 1.06 0.40	4.73 1.93 0.74	4.73 1.96 1.07	2.44 0.60 0.24
Z/C 20019	4000 6000 8000	6.53 2.30 1.19	7.20 2.98 1.63	7.20 2.98 1.63	6.55 1.66 0.56	7.20 2.82 1.07	7.20 2.98 1.61	3.21 0.77 0.30
Z/C 20024	4000 6000 8000	8.48 2.97 1.50	10.5 4.34 2.25	10.5 4.34 2.25	9.12 2.18 0.76	10.47 3.89 1.53	10.5 4.34 2.21	4.06 0.97 0.38
Z/C 25019	2000 4000 6000 8000	8.50 3.00 1.53 0.93	9.14 3.79 2.07 1.31	9.14 3.79 2.07 1.31	8.72 2.09 0.72 0.31	9.14 3.77 1.41 0.64	9.14 2.79 2.07 1.03	5.35 1.30 0.51 0.26
Z/C 25024	2000 4000 6000 8000	10.86 3.77 1.87 1.11	13.4 5.56 2.99 1.80	13.4 5.56 3.04 1.93	12.1 2.85 0.96 0.42	13.41 5.19 1.98 0.86	13.41 5.56 2.95 1.48	6.86 1.64 0.65 0.32

CANTILEVER 2000 MM (KN/M)								
	END-SPAN	IN BRIDGING			OUT BRIDGING			L/150
SECTION	(MM)	0	1	2	0	1	2	
Z/C 10019	2000 4000 6000	1.94 1.01	2.41 1.36	2.42 1.36	2.13 0.42	2.42 0.74	2.42 1.15	0.90 0.22

CANTILEVER 2000 MM (KN/M)								
	END-SPAN	IN BRIDGING			OUT BRIDGING			L/150
SECTION	(MM)	0	1	2	0	1	2	
Z/C 15015	2000 4000 6000 8000	2.87 1.40 0.72	3.06 1.72 0.87	3.06 1.72 0.87	3.06 0.73 0.22	3.06 1.28 0.45	3.06 1.72 0.71	2.09 0.52 0.14
Z/C 15019	2000 4000 6000 8000	3.74 1.74 0.88	4.32 2.42 1.21	4.32 2.42 1.23	4.25 0.95 0.30	4.32 1.83 0.59	4.32 2.38 0.98	2.68 0.65 0.18
Z/C 15024	2000 4000 6000 8000	5.02 2.06 1.03	6.09 3.37 1.62	6.09 3.41 1.73	6.02 1.29 0.43	6.09 2.25 0.80	6.09 3.38 1.37	3.38 0.82 0.23
Z/C 20015	4000 6000 8000	3.93 2.01 1.01	3.93 2.33 1.18	3.93 2.33 1.18	3.93 1.29 0.44	3.93 2.32 0.81	3.93 2.33 1.18	4.14 1.12 0.31
Z/C 20019	4000 6000 8000	6.04 2.46 1.24	6.33 3.54 1.80	6.33 3.54 1.80	6.33 1.94 0.62	6.33 3.39 1.18	6.33 3.54 1.79	5.59 1.47 0.40
Z/C 20024	4000 6000 8000	8.05 3.16 1.53	9.20 5.15 2.47	9.20 5.15 2.62	9.20 2.63 0.83	9.20 4.67 1.68	9.20 5.51 2.44	7.47 1.85 0.51
Z/C 25019	2000 4000 6000 8000	6.98 3.16 1.59 0.95	6.98 4.31 2.28 1.39	6.98 4.31 2.28 1.39	6.98 2.39 0.79 0.33	6.98 4.31 1.55 0.68	6.98 4.31 2.28 1.10	9.14 2.02 0.68 0.30
Z/C 25024	2000 4000 6000 8000	10.5 3.94 1.91 1.11	11.46 6.33 3.28 1.90	11.5 6.33 3.35 2.05	11.46 3.21 1.04 0.44	11.46 5.95 2.18 0.91	11.46 6.33 3.27 1.58	12.35 2.56 0.86 0.38

CANTILEVER 3000 MM (KN/M)								
	END-SPAN	IN BRIDGING			OUT BRIDGING			L/150
SECTION	(MM)	0	1	2	0	1	2	
Z/C 10019	2000 4000 6000	0.62 0.58	0.86 0.79	0.95 0.88	1.08 0.65	1.08 0.95	1.08 1.08	0.13 0.27
Z/C 15015	2000 4000 6000 8000	1.00 0.91 0.68	1.36 1.28 1.04	1.36 1.00 1.04	1.36 1.00 0.29	1.36 1.36 0.56	1.36 1.36 0.87	0.32 0.63 0.36
Z/C 15019	2000 4000 6000 8000	1.44 1.23 0.86	1.80 1.71 1.36	1.91 1.82 1.45	1.92 1.43 0.39	1.92 1.90 0.74	1.92 1.92 1.20	0.40 0.80 0.45
Z/C 15024	2000 4000 6000 8000	2.00 1.61 1.01	2.55 2.40 1.84	2.71 2.57 2.06	2.71 1.96 0.54	2.71 2.70 1.00	2.71 2.70 1.67	0.50 1.00 0.57
Z/C 20015	4000 6000 8000	1.80 1.50 1.00	1.85 1.85 1.41	1.85 1.85 1.41	1.85 1.80 0.55	1.85 1.85 1.01	1.85 1.85 1.41	0.70 1.29 0.76
Z/C 20019	4000 6000 8000	2.61 2.01 1.29	2.81 2.81 2.14	2.81 2.81 2.14	2.81 2.59 078	2.81 2.81 1.45	2.81 2.81 2.14	0.90 1.75 1.01
Z/C 20024	4000 6000 8000	7.47 2.73 1.54	3.62 4.04 2.89	4.09 4.09 3.11	4.09 3.59 1.04	4.09 4.09 2.08	4.09 4.09 2.95	1.13 2.25 1.28
Z/C 25019	2000 4000 6000 8000	3.47 2.61 1.63 0.97	3.57 3.57 2.72 1.55	3.57 3.57 2.72 1.55	3.57 3.44 0.99 0.37	3.57 3.57 1.91 0.77	3.57 3.57 2.72 1.24	1.52 2.28 1.66 0.44
Z/C 25024	2000 4000 6000 8000	4.79 3.46 1.92 1.12	5.24 5.24 3.83 2.10	5.24 5.24 3.99 2.28	5.24 4.75 1.31 0.50	5.24 5.24 2.70 1.03	5.24 5.24 3.94 1.79	1.92 3.80 2.16 0.55

Bold capacities require grade 8.8 purlin bolts. Values above horizontal line in body of table are governed by the strength of the grade 8.8 bolt. IN= Inward load capacity. OUT= Outward load capacity 1/150 = load for deflection span/150. See also: Design notes for capacity tables.