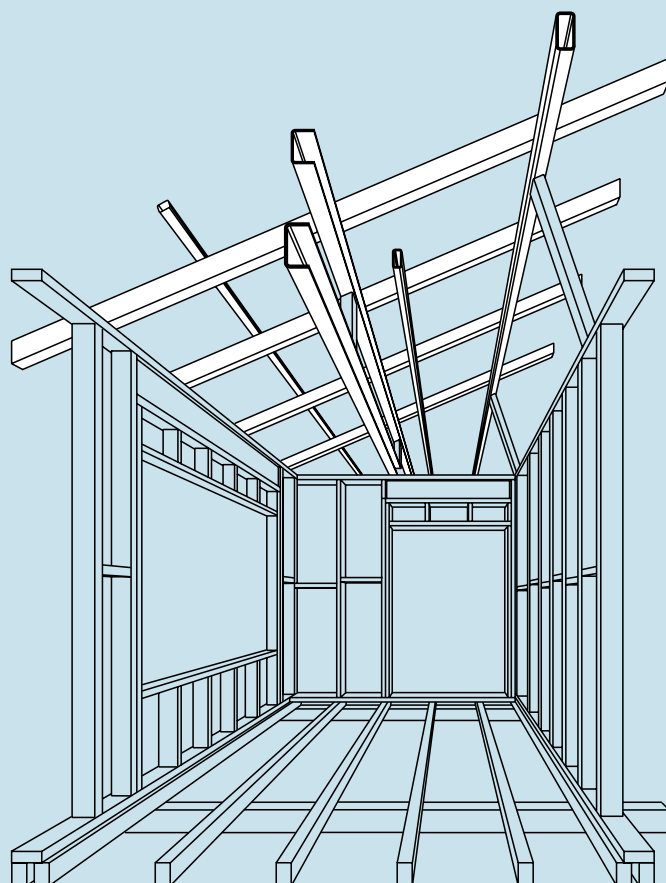
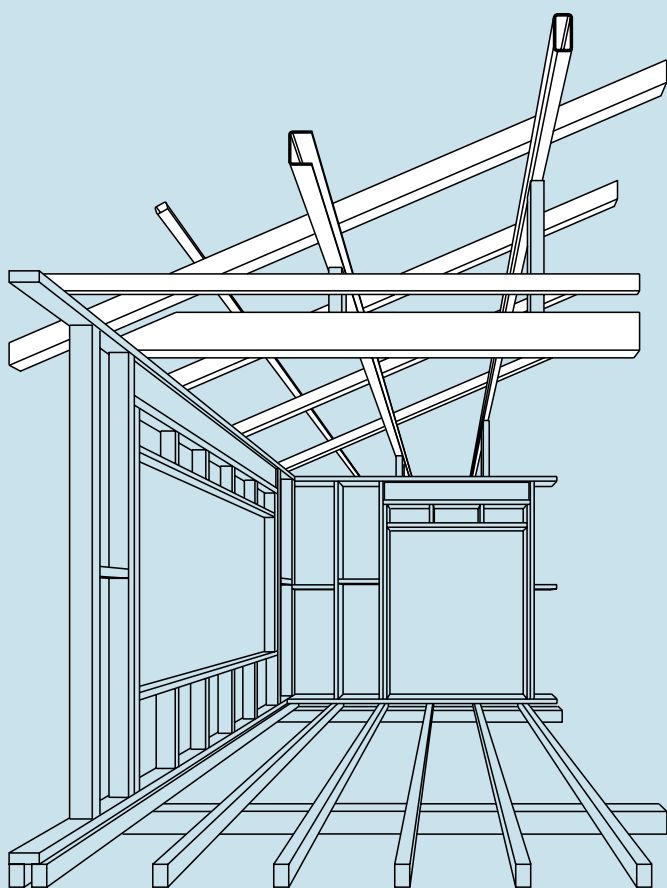


W28N to W41N

DuraGal[®] Domestic Construction Manual

Volume 1: *DuraGal* Channels and RHS as Roof Beams (Rafter, Under Purlins, Strutting Beams)



***DuraGal*[®] DOMESTIC CONSTRUCTION MANUAL**

Volume 1: Roof Beams - W28N to W41N
(Rafters, Roof Beams, Strutting Beams, Roof Battens, Ceiling Joists)

Volume 2: Lintels - W28N to W41N
(Garage Beams, Window Heads)

Volume 3: Floor Beams - W28N to W41N
(Bearers)

Volume 4: Roof Beams- W50N to W70C
(Rafters, Roof Beams, Strutting Beams, Roof Battens, Ceiling Joists)

Volume 5: Lintels - W50N to W70C
(Garage Beams, Window Heads)

Volume 6: Floor Beams - W50N to W70C
(Bearers)

FOREWORD

This limited edition of the *DuraGal*[®] Domestic Construction Manual has been prepared by OneSteel Market Mills based on the requirements of relevant Standards Australia Specifications and in house testing.

The relevant design assumptions are listed in the front of each table. However, where loading and assembly information is known for a particular construction, refined application tables can be prepared based on prototype testing.

It is our intention to work through a series of application tables with these documents as a base and we look forward to being able to issue these application tables over the next few years.

Before selecting a member, reference should be made to the design assumptions to confirm the suitability of the tables for the intended applications.

NOTE: These tables do not take into account product availability from your steel distributor.

Please ensure that you check on product availability before you finalise the design.

It is strongly recommended that DuraGal products be specified for construction when any of the design information in these Manuals is used, as the calculations including product tolerances, mechanical properties and chemical composition have been validated by structural testing using only DuraGal products. To ensure that the designers intentions are met it is strongly recommended that a note to this effect is included on any design information.

LETTER OF CERTIFICATION



♦ STRUCTURAL ♦ CIVIL ♦ HOUSING ♦ FORENSIC ♦

MORGAN CONSULTING
ENGINEERS PTY LTD
A.C.N. 009 859 081

1 GREAT GEORGE STREET
PADDINGTON QLD 4064

PHONE: (07) 3369 8411
FACSIMILE: (07) 3369 1893

EMAIL: mail@morgance.com.au

Friday, 24 November 2000

Onesteel Market Mills
PO Box 156
NEWCASTLE NSW 2300

Dear Sir,

RE: Structural Engineers Certification
DuraGal Domestic Construction Manual

We hereby certify that we have checked the structural aspects of the span tables in the DuraGal Domestic Construction Manual Volumes 1, 2 and 3 dated November 2000.

We certify that members designed using these tables are structurally adequate and in accordance with the Building Code of Australia and relevant SAA Codes of Practice.

Yours Faithfully,
MORGAN CONSULTING ENGINEERS PTY LTD

A handwritten signature in cursive script, appearing to read "Craig Langton".

Craig Langton CPEng



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DuraGal[®] PRODUCT SPECIFICATIONS

SURFACE FINISH AND CORROSION PROTECTION

A minimum average 100g/m² coating of zinc (about 14µm) is applied to *DuraGal* sections (external surface for RHS/SHS and all surfaces for channels) by In-line, Hot-dip Galvanizing to a mechanically (shot blasted) and chemically cleaned bright metal surface equivalent to AS 1627.4 Class 2.5. The zinc is then treated with a surface conversion coating to improve the adhesion of paint or powder coatings. *DuraGal* Profiles are further protected with a clear coating typically 8µm thick.

In many corrosive environments these systems may not require any additional surface treatment. In harsh environments additional top coats may need to be applied. For advice on painting systems for a wide range of environments refer to the “*DuraGal* Easy Painting & Corrosion Protection Guide”.

WELDING PERFORMANCE

DuraGal sections are made from low carbon structural steel, so they are readily weldable. The zinc coating thickness is carefully controlled to ensure that structurally sound welds can be fabricated using standard welding practices. The “*DuraGal* Products Easy Welding Guide” provides guidelines for welding *DuraGal* products.

GRADE

DuraGal sections are manufactured by a unique cold forming process which ensures the *DuraGal* Channels with thicknesses less than or equal to 6mm and all *DuraGal* Rectangular and Square Hollow Sections (RHS/SHS) comply with the requirements of Grade C450L0. *DuraGal* Channels with thickness greater than 6mm comply with the requirements of Grade C400L0.

DESIGNATION

Typical designations for *DuraGal* Channels, RHS and SHS are:

For <i>DuraGal</i> Channel	300 x 90 x 8.0	CC <i>DuraGal</i>
For <i>DuraGal</i> Channel back to back	2 / 300 x 90 x 8.0	CC <i>DuraGal</i>
For <i>DuraGal</i> RHS	150 x 50 x 4.0	RHS <i>DuraGal</i>
For <i>DuraGal</i> SHS	100 x 100 x 4.0	RHS <i>DuraGal</i>

LENGTH RANGE

DuraGal is stocked by distributors in the following lengths.

Section	Size	Standard Length (m)	Non-Standard Lengths* (m)
Channel	75 x 40 to 125 x 65	9.0	6.0 to 12.0
	150 x 75 to 300 x 90	12.0	6.0 to 12.0
RHS	50 x 20 to 150 x 50	8.0	4.5 to 13.0
SHS	20 x 20 to 30 x 30	6.5	4.5 to 8.0
	35 x 35 to 100 x 100	8.0	4.5 to 13.0

* Non-standard Lengths - Minimum order quantities and/or price extras may apply.

SPAN TABLES DESIGN DATA

SCOPE

This volume of the *DuraGal*[®] Domestic Construction Manual covers the design of *DuraGal* Channel, RHS and SHS Roof Beams which conform to wind classifications of up to category N3 (W41N).

The tables in this volume have been divided into five sections: Rafters, Under Purlins, Strutting Beams, Roof Battens and Ceiling Joists.

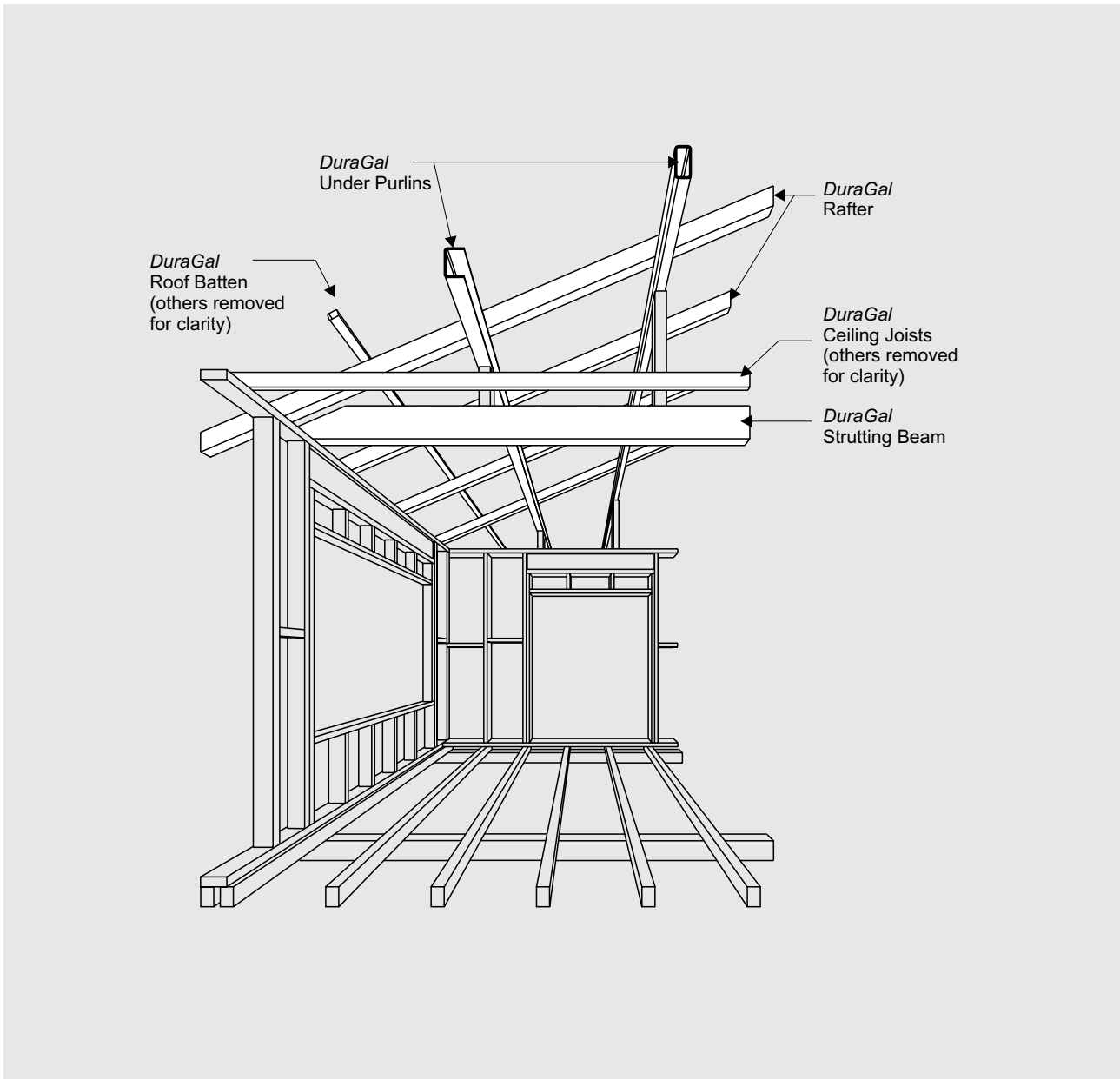
DESIGN ASSUMPTIONS

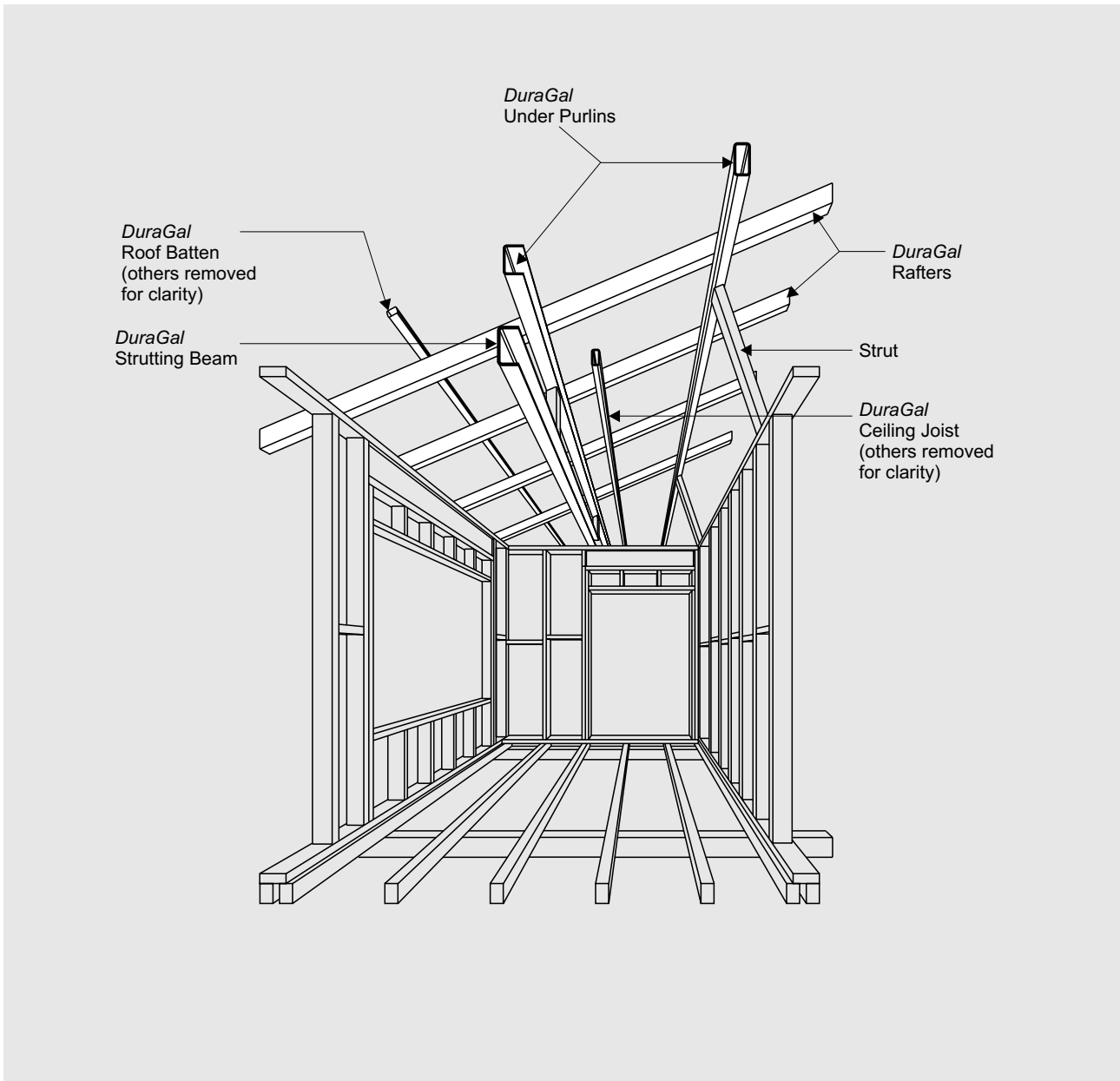
The design assumptions used to generate these tables are as follows:

- *DuraGal* Channel Roof Beams are designed in accordance with AS/NZS 4600 and *DuraGal* RHS and SHS Roof Beams in accordance with AS 4100.
- All Roof Beams are assumed to be restrained against lateral movement and twist along their lengths in accordance with AS/NZS 4600 or AS 4100.
- All applied loads are assumed to be uniformly distributed with the exception of Strutting Beams and some other point load requirements listed before each set of tables.
- The loads applied and the deflection limits for each set of tables is shown before the tables.
- All loads are static and applied vertically.
- Minimum end and internal support bearing for Roof Beams is assumed to be 70mm with the exception of Roof Battens where the support bearing is assumed to be 30mm.
- Members supporting roof tiles and sheeting only (ie. rafters and battens not carrying ceiling loads) are not designed to resist wind pressure in the roof space. The only wind load they are designed for is external wind pressure.
- In accordance with Section 2.4 of AS 3623: Domestic metal framing, the only wind considered in the generation of these tables is wind uplift. However, downward wind pressure has also been considered with respect to the Ceiling Joists.
- All roof beams are assumed to be part of an enclosed building, with the exception of Roof Battens. For Roof Battens, tables are provided for enclosed as well as Verandah Roof Battens.
- The wind pressure coefficients for enclosed buildings are taken as:
 - External pressure coefficient, $C_{p,e} = -0.9$
 - Internal pressure coefficient, $C_{p,i} = +0.2$ (for non-cyclonic areas)

DURAGAL[®] CHANNEL AND RHS/SHS AS ROOF BEAMS

Examples of the use of *DuraGal* members as Roof Beams are shown in this section. The diagrams show *DuraGal* channel and RHS used as Rafters, Under Purlins, Strutting Beams and Ceiling Joists, and *DuraGal* RHS/SHS used as Roof Battens.





HOW TO USE THE TABLES

Step 1

Find out the type of Roof Beam (Rafter, Under Purlin, Strutting Beam, Roof Batten or Ceiling Joist) to be sized.

Step 2

Establish the Wind classification and also check that it is equal to or below W41N.

Step 3

Select the type of roofing material used (eg. for Rafters refer ROOF materials on page 10). In the case of Roof Battens check also if the battens are over an area enclosed by ceiling or are in the verandah.

Step 4

Calculate the *Effective "Roof Beam" Spacing* (*Effective Load Width* for Strutting Beam).

Step 5

Work out the REQUIRED span of the Roof Beam. Check also, where required, if the Roof Beam is SINGLE SPAN or CONTINUOUS SPAN.

Step 6

Go to the appropriate table on the basis of information from Step 1 to 5.

Step 7

Select the column under *Effective "Roof Beam" Spacing* with the TABLE *Effective "Roof Beam" Spacing* larger than or equal to the REQUIRED *Effective "Roof Beam" Spacing* (worked out in Step 4).

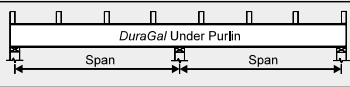
Step 8

Select the section that has a MAXIMUM span equal to or larger than the REQUIRED span of Roof Beam which is worked out in Step 5.

ROOF - Masonry Tiles & Ceiling*1

**W33N / W41N
(N2 / N3)**

Maximum Under Purlin Span (mm)

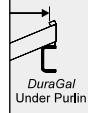


CONTINUOUS SPAN

DuraGal Section <small>(N2/N3 or G30 or G30Z)</small>	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	9990	9190	8640	8210	7880	7600	7370
300x90x7.0CC	25.1	9710	8910	8370	7950	7620	7350	7130
300x90x6.0CC	21.6	9340	8560	8020	7620	7300	7040	6820
250x90x6.0CC	19.2	8400	7690	7200	6840	6550	6310	6120
230x75x6.0CC	16.9	7850	7170	6710	6370	6100	5840	5600
200x75x6.0CC	15.5	7230	6600	6180	5820	5490	5230	5010
200x75x5.0CC	12.4	6800	6200	5730	5340	5030	4790	4590
180x75x5.0CC	11.6	6400	5770	5270	4910	4630	4410	4220
150x75x5.0CC	10.5	5670	5000	4570	4250	4010	3820	3650
125x65x4.0CC	7.23	4460	3930	3580	3330	3140	2990	2860
100x50x4.0CC	5.59	3600	3160	2880	2680	2520	2400	2300
75x40x4.0CC	4.25	2750	2410	2200	2040	1920	1830	1750
2/300x90x8.0CC	57.0	11340	10560	9990	9550	9190	8890	8640
2/300x90x7.0CC	50.1	11070	10280	9710	9270	8910	8620	8370
2/300x90x6.0CC	43.2	10690	9900	9340	8910	8560	8270	8020
2/250x90x6.0CC	38.5	9650	8920	8400	8000	7690	7420	7200
2/230x75x6.0CC	33.8	9050	8340	7850	7470	7170	6920	6710
2/200x75x6.0CC	31.0	8360	7690	7230	6860	6600	6370	6180
2/200x75x5.0CC	24.7	7900	7250	6800	6470	6200	5970	5730
2/180x75x5.0CC	23.3	7430	6820	6400	6080	5770	5500	5270
2/150x75x5.0CC	21.0	6700	6140	5670	5300	5000	4770	4570
2/125x65x4.0CC	14.5	5510	4880	4460	4160	3930	3740	3580
2/100x50x4.0CC	11.2	4470	3940	3600	3350	3160	3010	2880
2/75x40x4.0CC	8.49	3430	3020	2750	2560	2410	2300	2200
150x50x6.0RHS	16.7	5930	5260	4810	4490	4240	4030	3870
150x50x5.0RHS	14.2	5710	5060	4620	4310	4070	3870	3710
150x50x4.0RHS	11.6	5430	4800	4380	4080	3850	3660	3510
150x50x3.0RHS	8.96	5080	4470	4080	3800	3580	3410	3260
150x50x2.5RHS	7.53	4830	4250	3880	3610	3400	3230	3090
150x50x2.0RHS	6.07	4530	3980	3630	3380	3180	3020	2890
125x75x6.0RHS	16.7	5550	4920	4510	4210	3970	3780	3620
125x75x5.0RHS	14.2	5350	4730	4330	4030	3810	3620	3470
125x75x4.0RHS	11.6	5080	4480	4100	3820	3600	3420	3280
125x75x3.0RHS	8.96	4740	4180	3810	3550	3340	3180	3040
125x75x2.5RHS	7.53	4510	3970	3620	3370	3170	3020	2890
125x75x2.0RHS	6.07	4230	3720	3390	3150	2970	2820	2700
100x50x6.0RHS	12.0	4180	3690	3370	3140	2970	2820	2700
100x50x5.0RHS	10.3	4050	3570	3260	3030	2860	2720	2610
100x50x4.0RHS	8.49	3660	3400	3100	2890	2720	2590	2480
100x50x3.5RHS	7.53	3740	3290	3000	2790	2630	2500	2400
100x50x3.0RHS	6.80	3620	3190	2900	2700	2550	2420	2320
100x50x2.5RHS	5.56	3450	3030	2760	2570	2420	2300	2200
100x50x2.0RHS	4.50	3240	2850	2590	2410	2270	2160	2060
75x50x6.0RHS	9.67	3270	2880	2630	2450	2310	2190	2100
75x50x5.0RHS	8.35	3170	2800	2550	2370	2240	2130	2040
75x50x4.0RHS	6.92	3040	2670	2440	2270	2140	2030	1940
75x50x3.0RHS	5.42	2870	2520	2290	2130	2010	1910	1830
75x50x2.5RHS	4.58	2730	2400	2190	2030	1910	1820	1740
75x50x2.0RHS	3.72	2570	2260	2050	1910	1800	1710	1630
75x50x1.6RHS	3.01	2410	2120	1930	1790	1680	1600	1530

UNDER PURLIN CHANNELS

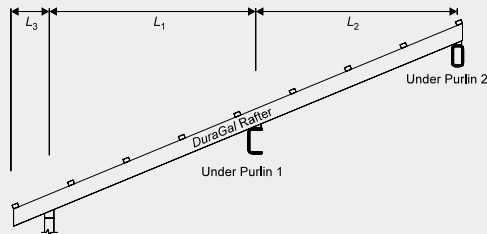
Load (Q)	DEFLECTION (mm)
	Dead Load (G)
Factor of 0.25	to
and Area + 0.12	20mm



DuraGal Channels and RHS as Roof Beams - Rafters, Under Purlins, Strutting Beams
W28N to W41N

Effective Under Purlin Spacing

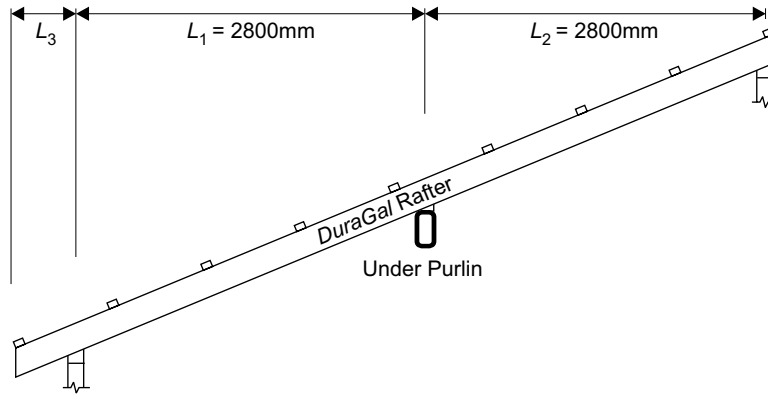
Under Purlin 1 = $0.625 \times (L_1 + L_2)$
Under Purlin 2 = $L_2 / 2$



DuraGal Channels and RHS as Roof Beams - Rafters, Under Purlins, Strutting Beams
W28N to W41N

EXAMPLE

Size an Under Purlin supporting Rafters carrying Masonry Tiles and Ceiling. The Rafters are continuous over the Under Purlin. The span of the Rafter is shown in the diagram below. The Under Purlin has a continuous span of 3000mm. The Wind classification is given as W41N (N3).



Step 1: An Under Purlin needs to be sized. _____

Step 2: Wind classification is W41N _____

Step 3: Roofing is Masonry Tiles and Ceiling _____

Step 4: Effective Under Purlin spacing = $0.625 \times (2800 + 2800)$
= 3500mm

Step 5: Required Under Purlin span = 3000mm (Continuous) _____

Step 6: Select appropriate table

Step 7: Select column with
Effective Under Purlin spacing $\geq 3500\text{mm}$ _____

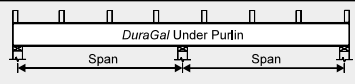
Step 8: Select section 150x50x2.0RHS DuraGal® (mass = 6.07kg/m)
Maximum span = 3180mm _____

ROOF - Masonry Tiles & Ceiling*1

**W33N / W41N
(N2 / N3)**

Maximum Under Purlin Span (mm)

CONTINUOUS SPAN



Effective Under Purlin Spacing (mm)

DuraGal Section <small>RHSingBOL03000P</small>	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	9990	9190	8640	8210	7880	7600	7370
300x90x7.0CC	25.1	9710	8910	8370	7950	7620	7350	7130
300x90x6.0CC	21.6	9340	8560	8020	7620	7300	7040	6820
250x90x6.0CC	19.2	8400	7690	7200	6840	6550	6310	6120
230x75x6.0CC	16.9	7850	7170	6710	6370	6100	5840	5600
200x75x6.0CC	15.5	7230	6600	6180	5820	5490	5230	5010
200x75x5.0CC	12.4	6800	6200	5730	5340	5030	4790	4590
180x75x5.0CC	11.6	6400	5770	5270	4910	4630	4410	4220
150x75x5.0CC	10.5	5670	5000	4570	4250	4010	3820	3650
125x65x4.0CC	7.23	4460	3930	3580	3330	3140	2990	2860
100x50x4.0CC	5.59	3600	3160	2880	2680	2520	2400	2300
75x40x4.0CC	4.25	2750	2410	2200	2040	1920	1830	1750
2/300x90x8.0CC	57.0	11340	10560	9990	9550	9190	8890	8640
2/300x90x7.0CC	50.1	11070	10280	9710	9270	8910	8620	8370
2/300x90x6.0CC	43.2	10690	9900	9340	8910	8560	8270	8020
2/250x90x6.0CC	38.5	9650	8920	8400	8000	7690	7420	7200
2/230x75x6.0CC	33.8	9050	8340	7850	7470	7170	6920	6710
2/200x75x6.0CC	31.0	8360	7690	7230	6880	6600	6370	6180
2/200x75x5.0CC	24.7	7900	7250	6800	6470	6200	5970	5730
2/180x75x5.0CC	23.3	7430	6820	6400	6080	5770	5500	5270
2/150x75x5.0CC	21.0	6700	6140	5670	5300	5000	4770	4570
2/125x65x4.0CC	14.5	5510	4980	4460	4160	3930	3740	3580
2/100x50x4.0CC	11.2	4470	3940	3600	3350	3160	3010	2880
2/75x40x4.0CC	8.49	3430	3020	2750	2560	2410	2300	2200
150x50x6.0RHS	16.7	5930	5260	4810	4490	4240	4030	3870
150x50x5.0RHS	14.2	5710	5060	4620	4310	4070	3870	3710
150x50x4.0RHS	11.6	5430	4800	4380	4080	3850	3660	3510
150x50x3.0RHS	8.96	5080	4470	4080	3800	3580	3410	3260
125x75x5.0RHS	14.2	5350	4730	4330	4030	3810	3620	3470
125x75x4.0RHS	11.6	5080	4480	4100	3820	3600	3420	3280
125x75x3.0RHS	8.96	4740	4180	3810	3550	3340	3180	3040
125x75x2.5RHS	7.53	4510	3970	3620	3370	3170	3020	2890
125x75x2.0RHS	6.07	4230	3720	3390	3150	2970	2820	2700
100x50x6.0RHS	12.0	4180	3690	3370	3140	2970	2820	2700
100x50x5.0RHS	10.3	4050	3570	3260	3030	2860	2720	2610
100x50x4.0RHS	8.49	3860	3400	3100	2890	2720	2590	2480
100x50x3.5RHS	7.53	3740	3290	3000	2790	2630	2500	2400
100x50x3.0RHS	6.80	3620	3190	2900	2700	2550	2420	2320
100x50x2.5RHS	5.56	3450	3030	2760	2570	2420	2300	2200
100x50x2.0RHS	4.50	3240	2850	2590	2410	2270	2160	2060
75x50x6.0RHS	9.67	3270	2890	2630	2450	2310	2190	2100
75x50x5.0RHS	8.35	3170	2800	2550	2370	2240	2130	2040
75x50x4.0RHS	6.92	3040	2670	2440	2270	2140	2030	1940
75x50x3.0RHS	5.42	2870	2520	2290	2130	2010	1910	1830
75x50x2.5RHS	4.58	2730	2400	2190	2030	1910	1820	1740
75x50x2.0RHS	3.72	2570	2260	2050	1910	1800	1710	1630
75x50x1.6RHS	3.01	2410	2120	1930	1790	1680	1600	1530

UNDER PURLIN

DuraGal Channels and RHS as Roof Beams - Rafters, Under Purlins, Strutting Beams
W28N to W41N

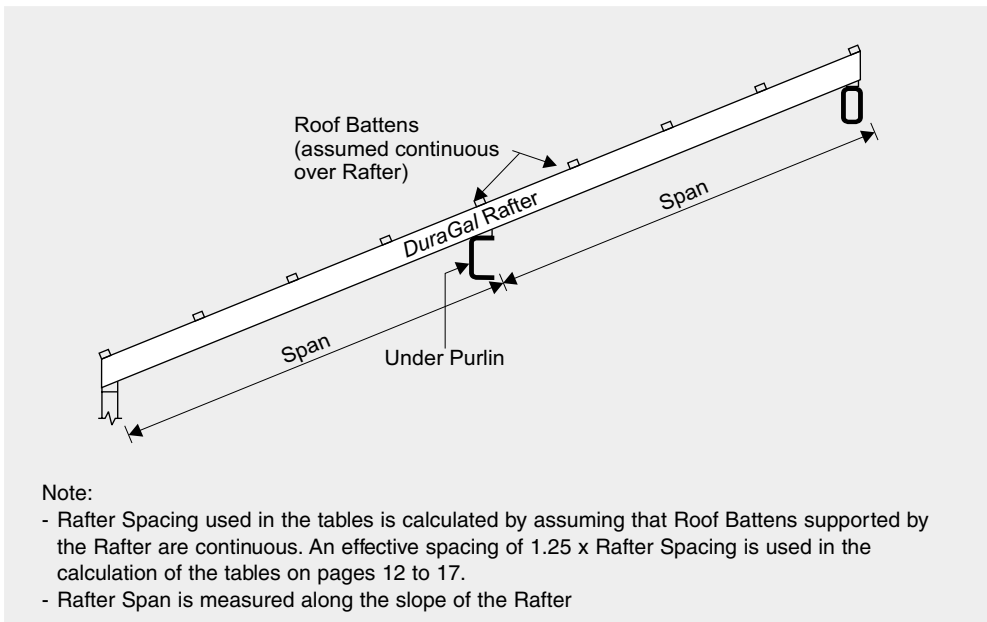
RAFTERS

Applied loads and deflection limits used to generate the tables on pages 12 to 17.

ROOF	LOAD (kPa)		DEFLECTION (mm)	
	Dead Load (G)	Live Load (Q)	Dead Load (G)	Live Load (Q = 1.1kN)
Masonry Tiles and Ceiling* ¹	0.9	Larger of 0.25 and 1.8 / Area + 0.12	Span / 300	Span / 180
Masonry Tiles only* ²	0.7		to	to
Steel Sheeting and Ceiling* ¹	0.27	1.8 / Area + 0.12	20mm	15mm
Steel Sheeting only* ²	0.09			

*¹ Ceiling in line with the rafter and supported by the rafter. The wind load used to generate tables are those resulting from both internal and external pressure.

*² Ceiling supported by other members. The only wind loads used to generate the tables are those resulting from external wind pressures.

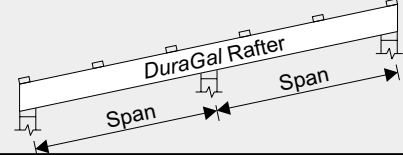
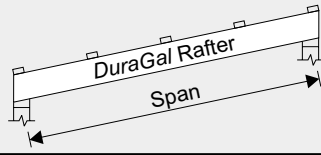


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ROOF - Masonry Tiles & Ceiling*1

RAFTER

Maximum Rafter Span*2 (mm)



DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.0CC	28.5	11460	10920	10120	9550	13430	12800	11860	11200
300x90x7.0CC	25.1	11190	10640	9840	9270	13110	12460	11530	10860
300x90x6.0CC	21.6	10820	10260	9470	8910	12680	12030	11090	10440
250x90x6.0CC	19.2	9760	9250	8510	8000	11440	10840	9980	9380
230x75x6.0CC	16.9	9160	8660	7960	7470	10730	10150	9330	8760
200x75x6.0CC	15.5	8460	7990	7340	6880	9920	9370	8600	8070
200x75x5.0CC	12.4	8000	7540	6900	6470	9380	8840	8090	7580
180x75x5.0CC	11.6	7530	7090	6490	6080	8830	8310	7610	7120
150x75x5.0CC	10.5	6790	6390	5780	5300	7960	7490	6840	6400
125x65x4.0CC	7.23	5620	5160	4560	4160	6700	6280	5630	5140
100x50x4.0CC	5.59	4550	4170	3680	3350	5630	5160	4540	4140
75x40x4.0CC	4.25	3490	3200	2810	2560	4320	3950	3470	3160
150x50x6.0RHS	16.7	6940	6560	6030	5550	8130	7690	7070	6630
150x50x5.0RHS	14.2	6780	6400	5820	5340	7950	7500	6880	6450
150x50x4.0RHS	11.6	6560	6180	5540	5070	7690	7240	6620	6200
150x50x3.0RHS	8.96	6270	5850	5180	4740	7350	6900	6300	5850
150x50x2.5RHS	7.53	6060	5580	4930	4500	7100	6660	6070	5570
150x50x2.0RHS	6.07	5730	5250	4630	4220	6790	6360	5720	5080
125x75x6.0RHS	16.7	6610	6250	5660	5200	7740	7320	6730	6320
125x75x5.0RHS	14.2	6450	6090	5450	5000	7560	7130	6540	6140
125x75x4.0RHS	11.6	6240	5830	5180	4740	7310	6880	6300	5860
125x75x3.0RHS	8.96	5940	5460	4830	4420	6980	6550	5970	5460
125x75x2.5RHS	7.53	5670	5210	4600	4200	6740	6320	5680	5190
125x75x2.0RHS	6.07	5340	4900	4320	3940	6450	6040	5090	4390
100x50x6.0RHS	12.0	5200	4800	4260	3910	6310	5930	5270	4830
100x50x5.0RHS	10.3	5050	4650	4130	3780	6180	5750	5100	4670
100x50x4.0RHS	8.49	4840	4450	3940	3600	5980	5500	4870	4450
100x50x3.5RHS	7.53	4710	4320	3820	3490	5820	5340	4720	4310
100x50x3.0RHS	6.60	4570	4190	3700	3380	5650	5180	4570	4170
100x50x2.5RHS	5.56	4370	4000	3520	3220	5400	4940	4350	3970
100x50x2.0RHS	4.50	4120	3770	3310	3020	5090	4650	4090	3730
75x50x6.0RHS	9.67	4080	3760	3330	3050	5050	4650	4120	3770
75x50x5.0RHS	8.35	3980	3660	3240	2960	4920	4530	4000	3660
75x50x4.0RHS	6.92	3830	3510	3100	2830	4730	4340	3830	3500
75x50x3.0RHS	5.42	3630	3320	2930	2670	4480	4110	3620	3300
75x50x2.5RHS	4.58	3470	3170	2790	2550	4290	3920	3450	3150
75x50x2.0RHS	3.72	3270	2990	2630	2390	4040	3700	3250	2960
75x50x1.6RHS	3.01	3080	2810	2470	2250	3800	3470	3050	2780
75x25x2.5RHS	3.60	3000	2740	2410	2190	3710	3390	2970	2710
75x25x2.0RHS	2.93	2840	2590	2270	2070	3500	3200	2810	2560
75x25x1.6RHS	2.38	2670	2440	2140	1940	3290	3010	2640	2400
65x35x4.0RHS	5.35	3110	2850	2510	2290	3840	3520	3100	2830
65x35x3.0RHS	4.25	2970	2720	2390	2180	3670	3360	2950	2690
65x35x2.5RHS	3.60	2850	2600	2290	2080	3520	3220	2820	2570
65x35x2.0RHS	2.93	2690	2460	2160	1960	3330	3040	2670	2430
50x25x3.0RHS	3.07	2200	2010	1760	1610	2720	2480	2180	1990
50x25x2.5RHS	2.62	2120	1930	1700	1540	2570	2390	2100	1910
50x25x2.0RHS	2.15	2010	1830	1610	1460	2370	2270	1990	1810
50x25x1.6RHS	1.75	1840	1730	1520	1380	2170	2140	1870	1710
50x20x3.0RHS	2.83	2090	1910	1670	1520	2520	2360	2070	1880
50x20x2.5RHS	2.42	2020	1840	1610	1470	2380	2270	1990	1810
50x20x2.0RHS	1.99	1870	1750	1530	1390	2200	2160	1890	1720
50x20x1.6RHS	1.63	1720	1650	1450	1320	2020	2020	1790	1630

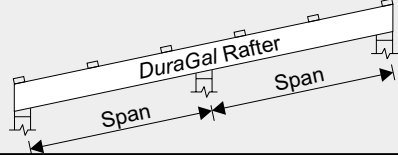
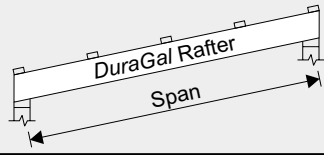
* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing

*1 Ceiling in line with the rafter and supported by the rafter. The wind load used to generate tables are those resulting from both internal and external pressure

*2 Rafter spans are measured along the slope of the rafter

ROOF - Masonry Tiles only

**Maximum Rafter
Span*2 (mm)**



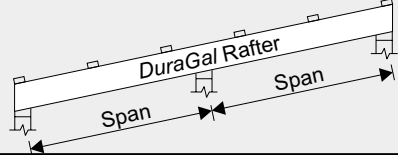
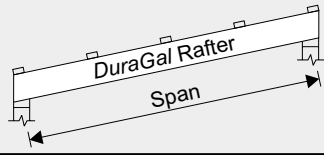
DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.OCC	28.5	11910	11400	10620	10050	13960	13360	12450	11780
300x90x7.OCC	25.1	11650	11120	10330	9760	13650	13030	12110	11440
300x90x6.OCC	21.6	11290	10750	9960	9390	13230	12600	11670	11010
250x90x6.OCC	19.2	10200	9700	8970	8450	11960	11360	10510	9900
230x75x6.OCC	16.9	9590	9100	8390	7900	11240	10660	9840	9260
200x75x6.OCC	15.5	8870	8400	7740	7280	10390	9850	9070	8530
200x75x5.OCC	12.4	8410	7940	7290	6850	9850	9310	8550	8020
180x75x5.OCC	11.6	7920	7480	6860	6440	9280	8760	8040	7540
150x75x5.OCC	10.5	7150	6740	6180	5720	8370	7900	7240	6790
125x65x4.OCC	7.23	6030	5560	4920	4500	7070	6640	6060	5570
100x50x4.OCC	5.59	4910	4500	3980	3630	5720	5570	4910	4490
75x40x4.OCC	4.25	3770	3460	3040	2780	4350	4270	3760	3430
150x50x6.0RHS	16.7	7260	6890	6360	5980	8510	8080	7450	7010
150x50x5.0RHS	14.2	7110	6730	6190	5760	8330	7890	7260	6820
150x50x4.0RHS	11.6	6900	6510	5960	5480	8080	7630	7000	6570
150x50x3.0RHS	8.96	6610	6220	5590	5120	7740	7290	6670	6250
150x50x2.5RHS	7.53	6390	6010	5330	4870	7490	7040	6430	6020
150x50x2.0RHS	6.07	6120	5660	5010	4580	7180	6740	6140	5650
125x75x6.0RHS	16.7	6920	6560	6050	5600	8110	7690	7100	6680
125x75x5.0RHS	14.2	6770	6400	5860	5390	7930	7510	6910	6490
125x75x4.0RHS	11.6	6560	6190	5580	5120	7680	7250	6660	6240
125x75x3.0RHS	8.96	6270	5880	5220	4780	7350	6920	6330	5910
125x75x2.5RHS	7.53	6070	5610	4970	4550	7110	6690	6110	5620
125x75x2.0RHS	6.07	5750	5290	4670	4270	6730	6390	5650	4900
100x50x6.0RHS	12.0	5550	5140	4590	4220	6630	6270	5670	5210
100x50x5.0RHS	10.3	5410	5000	4450	4080	6500	6130	5500	5040
100x50x4.0RHS	8.49	5200	4790	4250	3890	6180	5920	5250	4810
100x50x3.5RHS	7.53	5060	4660	4130	3780	5980	5750	5100	4670
100x50x3.0RHS	6.60	4920	4520	4000	3660	5770	5590	4940	4520
100x50x2.5RHS	5.56	4700	4320	3810	3480	5480	5340	4710	4300
100x50x2.0RHS	4.50	4440	4070	3590	3270	5140	5030	4430	4050
75x50x6.0RHS	9.67	4380	4040	3590	3290	5250	5000	4440	4070
75x50x5.0RHS	8.35	4280	3940	3500	3200	5080	4870	4320	3960
75x50x4.0RHS	6.92	4120	3790	3350	3070	4850	4680	4140	3790
75x50x3.0RHS	5.42	3910	3590	3170	2890	4550	4430	3910	3570
75x50x2.5RHS	4.58	3740	3430	3020	2760	4330	4240	3740	3410
75x50x2.0RHS	3.72	3540	3240	2850	2600	4060	4000	3520	3210
75x50x1.6RHS	3.01	3330	3040	2670	2440	3810	3760	3300	3010
75x25x2.5RHS	3.60	3240	2960	2610	2380	3720	3660	3220	2940
75x25x2.0RHS	2.93	3070	2800	2460	2240	3510	3460	3040	2770
75x25x1.6RHS	2.38	2890	2640	2320	2110	3290	3260	2860	2610
65x35x4.0RHS	5.35	3350	3080	2710	2480	3900	3800	3350	3060
65x35x3.0RHS	4.25	3210	2940	2590	2360	3700	3630	3200	2920
65x35x2.5RHS	3.60	3080	2820	2480	2260	3530	3480	3060	2790
65x35x2.0RHS	2.93	2910	2660	2340	2130	3330	3290	2890	2630
50x25x3.0RHS	3.07	2330	2180	1910	1740	2720	2690	2360	2150
50x25x2.5RHS	2.62	2190	2090	1840	1680	2570	2570	2270	2070
50x25x2.0RHS	2.15	2020	1990	1740	1590	2370	2370	2160	1960
50x25x1.6RHS	1.75	1840	1840	1650	1500	2170	2170	2030	1850
50x20x3.0RHS	2.83	2150	2070	1810	1650	2520	2520	2240	2040
50x20x2.5RHS	2.42	2030	1990	1750	1590	2380	2380	2160	1970
50x20x2.0RHS	1.99	1870	1870	1660	1510	2200	2200	2050	1870
50x20x1.6RHS	1.63	1720	1720	1570	1430	2020	2020	1940	1770

* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing
*2 Rafter spans are measured along the slope of the rafter

ROOF - Steel Sheeting & Ceiling*1

RAFTER

Maximum Rafter Span*2 (mm)

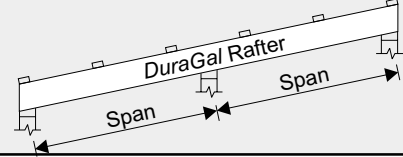
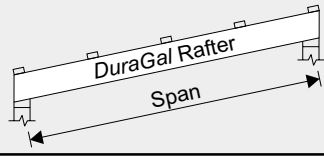


DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.0CC	28.5	13320	12950	12350	11860	15610	15180	14470	13910
300x90x7.0CC	25.1	13120	12730	12100	11600	15380	14920	14180	13590
300x90x6.0CC	21.6	12820	12410	11750	11230	15030	14550	13770	13170
250x90x6.0CC	19.2	11670	11270	10640	10150	13670	13210	12470	11900
230x75x6.0CC	16.9	11050	10640	10020	9540	12950	12480	11740	11180
200x75x6.0CC	15.5	10260	9880	9280	8820	12030	11580	10870	10340
200x75x5.0CC	12.4	9850	9440	8820	8360	11480	11060	10340	9800
180x75x5.0CC	11.6	9310	8910	8320	7880	10550	10450	9750	9230
150x75x5.0CC	10.5	8200	8070	7510	7110	9130	9130	8800	8330
125x65x4.0CC	7.23	6400	6400	6360	5990	7120	7120	7120	7030
100x50x4.0CC	5.59	5140	5140	5140	4870	5720	5720	5720	5720
75x40x4.0CC	4.25	3910	3910	3910	3740	4350	4350	4350	4350
150x50x6.0RHS	16.7	8370	8070	7590	7230	9700	9460	8900	8470
150x50x5.0RHS	14.2	8270	7950	7450	7070	9290	9290	8730	8290
150x50x4.0RHS	11.6	7880	7760	7240	6860	8770	8770	8490	8040
150x50x3.0RHS	8.96	7310	7310	6960	6570	8140	8140	8140	7700
150x50x2.5RHS	7.53	6930	6930	6740	6350	7710	7710	7710	7450
150x50x2.0RHS	6.07	6480	6480	6470	6090	7210	7210	7210	7130
125x75x6.0RHS	16.7	7970	7680	7230	6880	9090	9010	8470	8070
125x75x5.0RHS	14.2	7810	7560	7090	6730	8700	8700	8310	7890
125x75x4.0RHS	11.6	7370	7370	6880	6520	8200	8200	8070	7640
125x75x3.0RHS	8.96	6820	6820	6610	6240	7600	7600	7600	7310
125x75x2.5RHS	7.53	6470	6470	6400	6030	7200	7200	7200	7070
125x75x2.0RHS	6.07	6040	6040	6040	5710	6730	6730	6730	6620
100x50x6.0RHS	12.0	6070	6070	5920	5510	6760	6760	6760	6600
100x50x5.0RHS	10.3	5850	5850	5780	5370	6510	6510	6510	6470
100x50x4.0RHS	8.49	5550	5550	5550	5160	6180	6180	6180	6180
100x50x3.5RHS	7.53	5370	5370	5370	5020	5980	5980	5980	5980
100x50x3.0RHS	6.60	5180	5180	5180	4880	5770	5770	5770	5770
100x50x2.5RHS	5.56	4920	4920	4920	4670	5480	5480	5480	5480
100x50x2.0RHS	4.50	4610	4610	4610	4400	5140	5140	5140	5140
75x50x6.0RHS	9.67	4710	4710	4680	4340	5250	5250	5250	5250
75x50x5.0RHS	8.35	4560	4560	4560	4240	5080	5080	5080	5080
75x50x4.0RHS	6.92	4350	4350	4350	4090	4850	4850	4850	4850
75x50x3.0RHS	5.42	4090	4090	4090	3880	4550	4550	4550	4550
75x50x2.5RHS	4.58	3890	3890	3890	3710	4330	4330	4330	4330
75x50x2.0RHS	3.72	3650	3650	3650	3510	4060	4060	4060	4060
75x50x1.6RHS	3.01	3420	3420	3420	3300	3810	3810	3810	3810
75x25x2.5RHS	3.60	3340	3340	3340	3210	3720	3720	3720	3720
75x25x2.0RHS	2.93	3150	3150	3150	3040	3510	3510	3510	3510
75x25x1.6RHS	2.38	2960	2960	2960	2870	3290	3290	3290	3290
65x35x4.0RHS	5.35	3500	3500	3500	3320	3900	3900	3900	3900
65x35x3.0RHS	4.25	3330	3330	3330	3180	3700	3700	3700	3700
65x35x2.5RHS	3.60	3170	3170	3170	3050	3530	3530	3530	3530
65x35x2.0RHS	2.93	2990	2990	2990	2890	3330	3330	3330	3330
50x25x3.0RHS	3.07	2330	2330	2330	2330	2720	2720	2720	2720
50x25x2.5RHS	2.62	2190	2190	2190	2190	2570	2570	2570	2570
50x25x2.0RHS	2.15	2020	2020	2020	2020	2370	2370	2370	2370
50x25x1.6RHS	1.75	1840	1840	1840	1840	2170	2170	2170	2170
50x20x3.0RHS	2.83	2150	2150	2150	2150	2520	2520	2520	2520
50x20x2.5RHS	2.42	2030	2030	2030	2030	2380	2380	2380	2380
50x20x2.0RHS	1.99	1870	1870	1870	1870	2200	2200	2200	2200
50x20x1.6RHS	1.63	1720	1720	1720	1720	2020	2020	2020	2020

* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing
 *1 Ceiling in line with the rafter and supported by the rafter. The wind load used to generate tables are those resulting from both internal and external pressure
 *2 Rafter spans are measured along the slope of the rafter

ROOF - Steel Sheeting & Ceiling*1

Maximum Rafter Span*2 (mm)



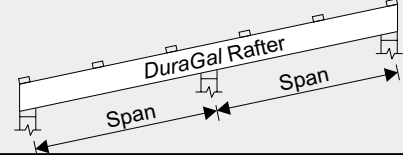
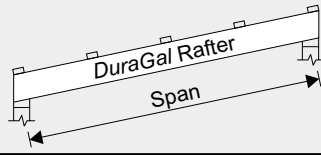
DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.0CC	28.5	13320	12950	12350	11860	15610	15180	14470	13910
300x90x7.0CC	25.1	13120	12730	12100	11600	15380	14920	14180	13590
300x90x6.0CC	21.6	12820	12410	11750	11230	15030	14550	13770	13170
250x90x6.0CC	19.2	11670	11270	10640	10150	13670	13210	12470	11900
230x75x6.0CC	16.9	11050	10640	10020	9540	12950	12480	11740	11180
200x75x6.0CC	15.5	10260	9880	9280	8820	12030	11580	10870	10340
200x75x5.0CC	12.4	9850	9440	8820	8360	11480	11060	10340	9800
180x75x5.0CC	11.6	9310	8910	8320	7880	10550	10450	9750	9230
150x75x5.0CC	10.5	8200	8070	7510	7110	9130	9130	8800	8330
125x65x4.0CC	7.23	6400	6400	6360	5990	7120	7120	7120	6440
100x50x4.0CC	5.59	5140	5140	5140	4870	5720	5720	5720	5410
75x40x4.0CC	4.25	3910	3910	3910	3740	4350	4350	4350	4190
150x50x6.0RHS	16.7	8370	8070	7590	7230	9700	9460	8900	8470
150x50x5.0RHS	14.2	8270	7950	7450	7070	9290	9290	8730	8290
150x50x4.0RHS	11.6	7880	7760	7240	6860	8770	8770	8490	8040
150x50x3.0RHS	8.96	7310	7310	6960	6570	8140	8140	8140	7700
150x50x2.5RHS	7.53	6930	6930	6740	6350	7710	7710	7710	7450
150x50x2.0RHS	6.07	6480	6480	6470	6090	7210	7210	6760	5590
125x75x6.0RHS	16.7	7970	7680	7230	6880	9090	9010	8470	8070
125x75x5.0RHS	14.2	7810	7560	7090	6730	8700	8700	8310	7890
125x75x4.0RHS	11.6	7370	7370	6880	6520	8200	8200	8070	7640
125x75x3.0RHS	8.96	6820	6820	6610	6240	7600	7600	7600	7310
125x75x2.5RHS	7.53	6470	6470	6400	6030	7200	7200	7200	6290
125x75x2.0RHS	6.07	6040	6040	6040	5710	6730	6730	5820	4890
100x50x6.0RHS	12.0	6070	6070	5920	5510	6760	6760	6760	6600
100x50x5.0RHS	10.3	5850	5850	5780	5370	6510	6510	6510	6470
100x50x4.0RHS	8.49	5550	5550	5550	5160	6180	6180	6180	6180
100x50x3.5RHS	7.53	5370	5370	5370	5020	5980	5980	5980	5980
100x50x3.0RHS	6.60	5180	5180	5180	4880	5770	5770	5770	5770
100x50x2.5RHS	5.56	4920	4920	4920	4670	5480	5480	5480	5480
100x50x2.0RHS	4.50	4610	4610	4610	4400	5140	5140	5140	5080
75x50x6.0RHS	9.67	4710	4710	4680	4340	5250	5250	5250	5250
75x50x5.0RHS	8.35	4560	4560	4560	4240	5080	5080	5080	5080
75x50x4.0RHS	6.92	4350	4350	4350	4090	4850	4850	4850	4850
75x50x3.0RHS	5.42	4090	4090	4090	3880	4550	4550	4550	4550
75x50x2.5RHS	4.58	3890	3890	3890	3710	4330	4330	4330	4330
75x50x2.0RHS	3.72	3650	3650	3650	3510	4060	4060	4060	4060
75x50x1.6RHS	3.01	3420	3420	3420	3300	3810	3810	3810	3460
75x25x2.5RHS	3.60	3340	3340	3340	3210	3720	3720	3720	3720
75x25x2.0RHS	2.93	3150	3150	3150	3040	3510	3510	3510	3470
75x25x1.6RHS	2.38	2960	2960	2960	2870	3290	3290	3290	3140
65x35x4.0RHS	5.35	3500	3500	3500	3320	3900	3900	3900	3900
65x35x3.0RHS	4.25	3330	3330	3330	3180	3700	3700	3700	3700
65x35x2.5RHS	3.60	3170	3170	3170	3050	3530	3530	3530	3530
65x35x2.0RHS	2.93	2990	2990	2990	2890	3330	3330	3330	3330
50x25x3.0RHS	3.07	2330	2330	2330	2330	2720	2720	2720	2720
50x25x2.5RHS	2.62	2190	2190	2190	2190	2570	2570	2570	2570
50x25x2.0RHS	2.15	2020	2020	2020	2020	2370	2370	2370	2370
50x25x1.6RHS	1.75	1840	1840	1840	1840	2170	2170	2170	2170
50x20x3.0RHS	2.83	2150	2150	2150	2150	2520	2520	2520	2520
50x20x2.5RHS	2.42	2030	2030	2030	2030	2380	2380	2380	2380
50x20x2.0RHS	1.99	1870	1870	1870	1870	2200	2200	2200	2200
50x20x1.6RHS	1.63	1720	1720	1720	1720	2020	2020	2020	2020

* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing
 *1 Ceiling in line with the rafter and supported by the rafter. The wind load used to generate tables are those resulting from both internal and external pressure
 *2 Rafter spans are measured along the slope of the rafter

ROOF - Steel Sheeting only

RAFTER

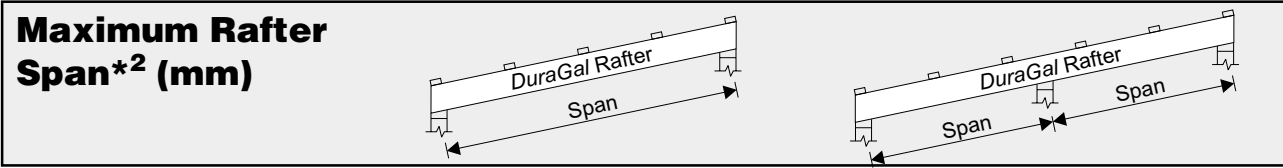
**Maximum Rafter
Span*2 (mm)**



DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.0CC	28.5	14240	14060	13740	13450	16690	16480	16100	15760
300x90x7.0CC	25.1	14120	13920	13570	13260	16550	16320	15910	15540
300x90x6.0CC	21.6	13910	13700	13310	12970	16300	16050	15600	15210
250x90x6.0CC	19.2	12740	12530	12150	11820	14930	14680	14230	13850
230x75x6.0CC	16.9	12160	11930	11540	11200	14060	13990	13520	13120
200x75x6.0CC	15.5	11280	11130	10740	10410	12560	12560	12560	12200
200x75x5.0CC	12.4	10310	10310	10310	10010	11480	11480	11480	11480
180x75x5.0CC	11.6	9480	9480	9480	9460	10550	10550	10550	10550
150x75x5.0CC	10.5	8200	8200	8200	8200	9130	9130	9130	9130
125x65x4.0CC	7.23	6400	6400	6400	6400	7120	7120	7120	7120
100x50x4.0CC	5.59	5140	5140	5140	5140	5720	5720	5720	5720
75x40x4.0CC	4.25	3910	3910	3910	3910	4350	4350	4350	4350
150x50x6.0RHS	16.7	8720	8720	8720	8490	9700	9700	9700	9700
150x50x5.0RHS	14.2	8350	8350	8350	8350	9290	9290	9290	9290
150x50x4.0RHS	11.6	7880	7880	7880	7880	8770	8770	8770	8770
150x50x3.0RHS	8.96	7310	7310	7310	7310	8140	8140	8140	8140
150x50x2.5RHS	7.53	6930	6930	6930	6930	7710	7710	7710	7710
150x50x2.0RHS	6.07	6480	6480	6480	6480	7210	7210	7210	7210
125x75x6.0RHS	16.7	8170	8170	8170	8080	9090	9090	9090	9090
125x75x5.0RHS	14.2	7810	7810	7810	7810	8700	8700	8700	8700
125x75x4.0RHS	11.6	7370	7370	7370	7370	8200	8200	8200	8200
125x75x3.0RHS	8.96	6820	6820	6820	6820	7600	7600	7600	7600
125x75x2.5RHS	7.53	6470	6470	6470	6470	7200	7200	7200	7200
125x75x2.0RHS	6.07	6040	6040	6040	6040	6730	6730	6730	6730
100x50x6.0RHS	12.0	6070	6070	6070	6070	6760	6760	6760	6760
100x50x5.0RHS	10.3	5850	5850	5850	5850	6510	6510	6510	6510
100x50x4.0RHS	8.49	5550	5550	5550	5550	6180	6180	6180	6180
100x50x3.5RHS	7.53	5370	5370	5370	5370	5980	5980	5980	5980
100x50x3.0RHS	6.60	5180	5180	5180	5180	5770	5770	5770	5770
100x50x2.5RHS	5.56	4920	4920	4920	4920	5480	5480	5480	5480
100x50x2.0RHS	4.50	4610	4610	4610	4610	5140	5140	5140	5140
75x50x6.0RHS	9.67	4710	4710	4710	4710	5250	5250	5250	5250
75x50x5.0RHS	8.35	4560	4560	4560	4560	5080	5080	5080	5080
75x50x4.0RHS	6.92	4350	4350	4350	4350	4850	4850	4850	4850
75x50x3.0RHS	5.42	4090	4090	4090	4090	4550	4550	4550	4550
75x50x2.5RHS	4.58	3890	3890	3890	3890	4330	4330	4330	4330
75x50x2.0RHS	3.72	3650	3650	3650	3650	4060	4060	4060	4060
75x50x1.6RHS	3.01	3420	3420	3420	3420	3810	3810	3810	3810
75x25x2.5RHS	3.60	3340	3340	3340	3340	3720	3720	3720	3720
75x25x2.0RHS	2.93	3150	3150	3150	3150	3510	3510	3510	3510
75x25x1.6RHS	2.38	2960	2960	2960	2960	3290	3290	3290	3290
65x35x4.0RHS	5.35	3500	3500	3500	3500	3900	3900	3900	3900
65x35x3.0RHS	4.25	3330	3330	3330	3330	3700	3700	3700	3700
65x35x2.5RHS	3.60	3170	3170	3170	3170	3530	3530	3530	3530
65x35x2.0RHS	2.93	2990	2990	2990	2990	3330	3330	3330	3330
50x25x3.0RHS	3.07	2330	2330	2330	2330	2720	2720	2720	2720
50x25x2.5RHS	2.62	2190	2190	2190	2190	2570	2570	2570	2570
50x25x2.0RHS	2.15	2020	2020	2020	2020	2370	2370	2370	2370
50x25x1.6RHS	1.75	1840	1840	1840	1840	2170	2170	2170	2170
50x20x3.0RHS	2.83	2150	2150	2150	2150	2520	2520	2520	2520
50x20x2.5RHS	2.42	2030	2030	2030	2030	2380	2380	2380	2380
50x20x2.0RHS	1.99	1870	1870	1870	1870	2200	2200	2200	2200
50x20x1.6RHS	1.63	1720	1720	1720	1720	2020	2020	2020	2020

* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing
*2 Rafter spans are measured along the slope of the rafter

ROOF - Steel Sheeting only



DuraGal® Section	Mass kg/m	Rafter Spacing* (mm) for							
		SINGLE SPAN				CONTINUOUS SPAN			
		450	600	900	1200	450	600	900	1200
300x90x8.OCC	28.5	14240	14060	13740	13450	16690	16480	16100	15760
300x90x7.OCC	25.1	14120	13920	13570	13260	16550	16320	15910	15540
300x90x6.OCC	21.6	13910	13700	13310	12970	16300	16050	15600	15210
250x90x6.OCC	19.2	12740	12530	12150	11820	14930	14680	14230	13850
230x75x6.OCC	16.9	12160	11930	11540	11200	14060	13990	13520	13120
200x75x6.OCC	15.5	11280	11130	10740	10410	12560	12560	12560	12200
200x75x5.OCC	12.4	10310	10310	10310	10010	11480	11480	11480	11390
180x75x5.OCC	11.6	9480	9480	9480	9460	10550	10550	10550	10550
150x75x5.OCC	10.5	8200	8200	8200	8200	9130	9130	9130	9130
125x65x4.OCC	7.23	6400	6400	6400	6400	7120	7120	7120	7040
100x50x4.OCC	5.59	5140	5140	5140	5140	5720	5720	5720	5720
75x40x4.OCC	4.25	3910	3910	3910	3910	4350	4350	4350	4350
150x50x6.0RHS	16.7	8720	8720	8720	8490	9700	9700	9700	9700
150x50x5.0RHS	14.2	8350	8350	8350	8350	9290	9290	9290	9290
150x50x4.0RHS	11.6	7880	7880	7880	7880	8770	8770	8770	8770
150x50x3.0RHS	8.96	7310	7310	7310	7310	8140	8140	8140	8140
150x50x2.5RHS	7.53	6930	6930	6930	6930	7710	7710	7710	7710
150x50x2.0RHS	6.07	6480	6480	6480	6480	7210	7210	7210	6160
125x75x6.0RHS	16.7	8170	8170	8170	8080	9090	9090	9090	9090
125x75x5.0RHS	14.2	7810	7810	7810	7810	8700	8700	8700	8700
125x75x4.0RHS	11.6	7370	7370	7370	7370	8200	8200	8200	8200
125x75x3.0RHS	8.96	6820	6820	6820	6820	7600	7600	7600	7600
125x75x2.5RHS	7.53	6470	6470	6470	6470	7200	7200	7200	6840
125x75x2.0RHS	6.07	6040	6040	6040	6040	6730	6730	6350	5340
100x50x6.0RHS	12.0	6070	6070	6070	6070	6760	6760	6760	6760
100x50x5.0RHS	10.3	5850	5850	5850	5850	6510	6510	6510	6510
100x50x4.0RHS	8.49	5550	5550	5550	5550	6180	6180	6180	6180
100x50x3.5RHS	7.53	5370	5370	5370	5370	5980	5980	5980	5980
100x50x3.0RHS	6.60	5180	5180	5180	5180	5770	5770	5770	5770
100x50x2.5RHS	5.56	4920	4920	4920	4920	5480	5480	5480	5480
100x50x2.0RHS	4.50	4610	4610	4610	4610	5140	5140	5140	5140
75x50x6.0RHS	9.67	4710	4710	4710	4710	5250	5250	5250	5250
75x50x5.0RHS	8.35	4560	4560	4560	4560	5080	5080	5080	5080
75x50x4.0RHS	6.92	4350	4350	4350	4350	4850	4850	4850	4850
75x50x3.0RHS	5.42	4090	4090	4090	4090	4550	4550	4550	4550
75x50x2.5RHS	4.58	3890	3890	3890	3890	4330	4330	4330	4330
75x50x2.0RHS	3.72	3650	3650	3650	3650	4060	4060	4060	4060
75x50x1.6RHS	3.01	3420	3420	3420	3420	3810	3810	3810	3720
75x25x2.5RHS	3.60	3340	3340	3340	3340	3720	3720	3720	3720
75x25x2.0RHS	2.93	3150	3150	3150	3150	3510	3510	3510	3510
75x25x1.6RHS	2.38	2960	2960	2960	2960	3290	3290	3290	3290
65x35x4.0RHS	5.35	3500	3500	3500	3500	3900	3900	3900	3900
65x35x3.0RHS	4.25	3330	3330	3330	3330	3700	3700	3700	3700
65x35x2.5RHS	3.60	3170	3170	3170	3170	3530	3530	3530	3530
65x35x2.0RHS	2.93	2990	2990	2990	2990	3330	3330	3330	3330
50x25x3.0RHS	3.07	2330	2330	2330	2330	2720	2720	2720	2720
50x25x2.5RHS	2.62	2190	2190	2190	2190	2570	2570	2570	2570
50x25x2.0RHS	2.15	2020	2020	2020	2020	2370	2370	2370	2370
50x25x1.6RHS	1.75	1840	1840	1840	1840	2170	2170	2170	2170
50x20x3.0RHS	2.83	2150	2150	2150	2150	2520	2520	2520	2520
50x20x2.5RHS	2.42	2030	2030	2030	2030	2380	2380	2380	2380
50x20x2.0RHS	1.99	1870	1870	1870	1870	2200	2200	2200	2200
50x20x1.6RHS	1.63	1720	1720	1720	1720	2020	2020	2020	2020

* These tables are calculated using an effective spacing of 1.25 x Rafter Spacing
 *2 Rafter spans are measured along the slope of the rafter

UNDER PURLINS

Applied loads and deflection limits used to generate the tables on pages 20 to 31.

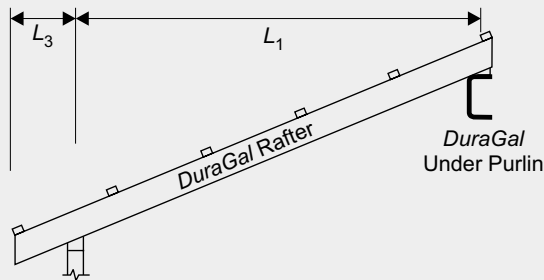
ROOF	LOAD (kPa)		DEFLECTION (mm)
	Dead Load (G)	Live Load (Q)	Dead Load (G)
Masonry Tiles and Ceiling* ¹	0.9	Larger of 0.25 and 1.8 / Area + 0.12	Span / 300 to 20mm
Masonry Tiles only* ²	0.7		
Steel Sheeting and Ceiling* ¹	0.4		
Steel Sheeting only* ²	0.2		

*¹ Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure.

*² Ceiling supported by other members. The only wind loads used to generate the tables are those resulting from external wind pressures.

UNDER PURLIN

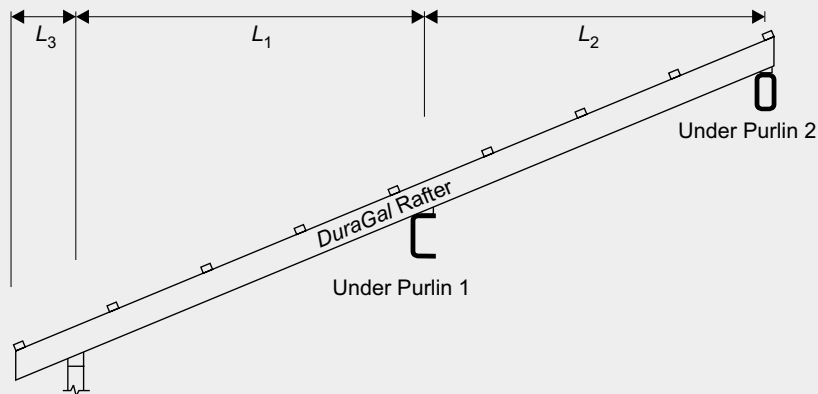
Effective Under Purlin Spacing = $L_1 / 2$



Effective Under Purlin Spacing

Under Purlin 1 = $0.625 \times (L_1 + L_2)$

Under Purlin 2 = $L_2 / 2$

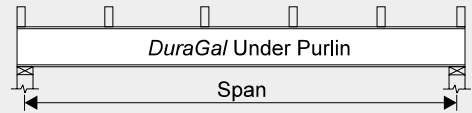


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ROOF - Masonry Tiles & Ceiling*1

Maximum Under Purlin Span (mm)

SINGLE SPAN



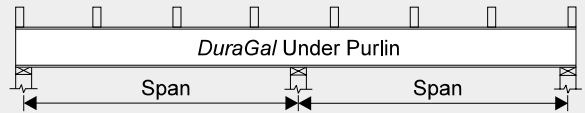
UNDER PURLIN

		Effective Under Purlin Spacing (mm)						
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	9990	9190	8640	8210	7880	7600	7370
300x90x7.0CC	25.1	9710	8910	8370	7950	7620	7350	7130
300x90x6.0CC	21.6	9340	8560	8020	7620	7300	7040	6820
250x90x6.0CC	19.2	8400	7690	7200	6840	6550	6310	6120
230x75x6.0CC	16.9	7850	7170	6710	6370	6100	5840	5600
200x75x6.0CC	15.5	7230	6600	6180	5820	5490	5230	5010
200x75x5.0CC	12.4	6800	6200	5730	5340	5030	4790	4590
180x75x5.0CC	11.6	6400	5770	5270	4910	4630	4410	4220
150x75x5.0CC	10.5	5670	5000	4570	4250	4010	3820	3650
125x65x4.0CC	7.23	4460	3930	3580	3330	3140	2990	2860
100x50x4.0CC	5.59	3600	3160	2880	2680	2520	2400	2300
75x40x4.0CC	4.25	2750	2410	2200	2040	1920	1830	1750
2/300x90x8.0CC	57.0	11340	10560	9990	9550	9190	8890	8640
2/300x90x7.0CC	50.1	11070	10280	9710	9270	8910	8620	8370
2/300x90x6.0CC	43.2	10690	9900	9340	8910	8560	8270	8020
2/250x90x6.0CC	38.5	9650	8920	8400	8000	7690	7420	7200
2/230x75x6.0CC	33.8	9050	8340	7850	7470	7170	6920	6710
2/200x75x6.0CC	31.0	8360	7690	7230	6880	6600	6370	6180
2/200x75x5.0CC	24.7	7900	7250	6800	6470	6200	5970	5730
2/180x75x5.0CC	23.3	7430	6820	6400	6080	5770	5500	5270
2/150x75x5.0CC	21.0	6700	6140	5670	5300	5000	4770	4570
2/125x65x4.0CC	14.5	5510	4880	4460	4160	3930	3740	3580
2/100x50x4.0CC	11.2	4470	3940	3600	3350	3160	3010	2880
2/75x40x4.0CC	8.49	3430	3020	2750	2560	2410	2300	2200
150x50x6.0RHS	16.7	5930	5260	4810	4490	4240	4030	3870
150x50x5.0RHS	14.2	5710	5060	4620	4310	4070	3870	3710
150x50x4.0RHS	11.6	5430	4800	4380	4080	3850	3660	3510
150x50x3.0RHS	8.96	5080	4470	4080	3800	3580	3410	3260
150x50x2.5RHS	7.53	4830	4250	3880	3610	3400	3230	3090
150x50x2.0RHS	6.07	4530	3980	3630	3380	3180	3020	2890
125x75x6.0RHS	16.7	5550	4920	4510	4210	3970	3780	3620
125x75x5.0RHS	14.2	5350	4730	4330	4030	3810	3620	3470
125x75x4.0RHS	11.6	5080	4480	4100	3820	3600	3420	3280
125x75x3.0RHS	8.96	4740	4180	3810	3550	3340	3180	3040
125x75x2.5RHS	7.53	4510	3970	3620	3370	3170	3020	2890
125x75x2.0RHS	6.07	4230	3720	3390	3150	2970	2820	2700
100x50x6.0RHS	12.0	4180	3690	3370	3140	2970	2820	2700
100x50x5.0RHS	10.3	4050	3570	3260	3030	2860	2720	2610
100x50x4.0RHS	8.49	3860	3400	3100	2890	2720	2590	2480
100x50x3.5RHS	7.53	3740	3290	3000	2790	2630	2500	2400
100x50x3.0RHS	6.60	3620	3190	2900	2700	2550	2420	2320
100x50x2.5RHS	5.56	3450	3030	2760	2570	2420	2300	2200
100x50x2.0RHS	4.50	3240	2850	2590	2410	2270	2160	2060
75x50x6.0RHS	9.67	3270	2880	2630	2450	2310	2190	2100
75x50x5.0RHS	8.35	3170	2800	2550	2370	2240	2130	2040
75x50x4.0RHS	6.92	3040	2670	2440	2270	2140	2030	1940
75x50x3.0RHS	5.42	2870	2520	2290	2130	2010	1910	1830
75x50x2.5RHS	4.58	2730	2400	2190	2030	1910	1820	1740
75x50x2.0RHS	3.72	2570	2260	2050	1910	1800	1710	1630
75x50x1.6RHS	3.01	2410	2120	1930	1790	1680	1600	1530

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Masonry Tiles & Ceiling*1

Maximum Under Purlin Span (mm)
CONTINUOUS SPAN



DuraGal® Section	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	11710	10770	10120	9630	9230	8910	8640
300x90x7.0CC	25.1	11380	10450	9800	9320	8940	8620	8350
300x90x6.0CC	21.6	10950	10030	9400	8930	8560	8140	7450
250x90x6.0CC	19.2	9840	9010	8440	8010	7680	7400	6910
230x75x6.0CC	16.9	9200	8410	7870	7470	7150	6900	6520
200x75x6.0CC	15.5	8480	7740	7240	6870	6580	6340	6100
200x75x5.0CC	12.4	7970	7270	6790	6440	5740	5180	4740
180x75x5.0CC	11.6	7500	6830	6380	6050	5460	4940	4530
150x75x5.0CC	10.5	6740	6140	5650	5260	4960	4550	4170
125x65x4.0CC	7.23	5520	4850	4430	4060	3640	3310	3030
100x50x4.0CC	5.59	4450	3910	3560	3310	3120	2860	2640
75x40x4.0CC	4.25	3400	2980	2720	2520	2380	2260	2150
2/300x90x8.0CC	57.0	13290	12380	11710	11200	10770	10420	10120
2/300x90x7.0CC	50.1	12970	12050	11380	10860	10450	10100	9800
2/300x90x6.0CC	43.2	12530	11610	10950	10440	10030	9690	9400
2/250x90x6.0CC	38.5	11310	10450	9840	9380	9010	8700	8440
2/230x75x6.0CC	33.8	10600	9780	9200	8760	8410	8120	7870
2/200x75x6.0CC	31.0	9790	9020	8480	8070	7740	7470	7240
2/200x75x5.0CC	24.7	9260	8500	7970	7580	7270	7010	6790
2/180x75x5.0CC	23.3	8710	7990	7500	7120	6830	6590	6380
2/150x75x5.0CC	21.0	7850	7190	6740	6400	6140	5890	5650
2/125x65x4.0CC	14.5	6600	6020	5520	5140	4850	4620	4430
2/100x50x4.0CC	11.2	5520	4870	4450	4140	3910	3720	3560
2/75x40x4.0CC	8.49	4230	3730	3400	3160	2980	2840	2720
150x50x6.0RHS	16.7	6970	6370	5950	5550	5240	4990	4780
150x50x5.0RHS	14.2	6780	6180	5710	5330	5030	4780	4580
150x50x4.0RHS	11.6	6530	5930	5410	5040	4760	4530	4330
150x50x3.0RHS	8.96	6200	5530	5040	4690	4430	4210	4030
150x50x2.5RHS	7.53	5970	5250	4790	4460	4200	3850	3530
150x50x2.0RHS	6.07	5600	4550	3800	3280	2900	2610	2370
125x75x6.0RHS	16.7	6640	6060	5570	5200	4910	4670	4480
125x75x5.0RHS	14.2	6450	5850	5350	4980	4700	4480	4290
125x75x4.0RHS	11.6	6210	5540	5060	4720	4450	4230	4050
125x75x3.0RHS	8.96	5860	5160	4710	4380	4130	3930	3760
125x75x2.5RHS	7.53	5570	4900	4470	4090	3700	3390	3130
125x75x2.0RHS	6.07	4930	3980	3390	2980	2670	2430	2240
100x50x6.0RHS	12.0	5170	4560	4170	3880	3660	3490	3340
100x50x5.0RHS	10.3	5000	4410	4030	3750	3540	3360	3220
100x50x4.0RHS	8.49	4770	4200	3830	3570	3360	3200	3060
100x50x3.5RHS	7.53	4620	4070	3710	3450	3250	3090	2960
100x50x3.0RHS	6.60	4480	3940	3590	3340	3150	2990	2860
100x50x2.5RHS	5.56	4270	3750	3410	3170	2990	2840	2720
100x50x2.0RHS	4.50	4010	3520	3200	2980	2800	2670	2480
75x50x6.0RHS	9.67	4040	3560	3250	3020	2850	2710	2600
75x50x5.0RHS	8.35	3920	3450	3150	2930	2760	2630	2520
75x50x4.0RHS	6.92	3760	3300	3010	2800	2640	2510	2400
75x50x3.0RHS	5.42	3540	3110	2830	2640	2480	2360	2260
75x50x2.5RHS	4.58	3380	2970	2700	2510	2360	2250	2150
75x50x2.0RHS	3.72	3180	2790	2540	2360	2220	2110	2020
75x50x1.6RHS	3.01	2980	2610	2380	2130	1930	1780	1650

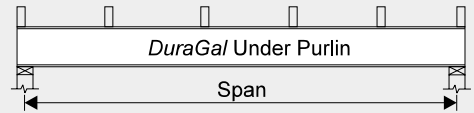
UNDER PURLIN

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Masonry Tiles only

Maximum Under Purlin Span (mm)

SINGLE SPAN

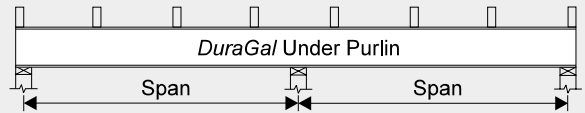


UNDER PURLIN

		Effective Under Purlin Spacing (mm)						
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.OCC	28.5	10490	9690	9120	8690	8340	8060	7810
300x90x7.OCC	25.1	10210	9400	8840	8420	8080	7800	7560
300x90x6.OCC	21.6	9830	9040	8490	8070	7740	7470	7240
250x90x6.OCC	19.2	8850	8120	7620	7250	6950	6700	6490
230x75x6.OCC	16.9	8280	7590	7110	6760	6480	6250	6050
200x75x6.OCC	15.5	7640	6990	6550	6220	5950	5660	5430
200x75x5.OCC	12.4	7190	6570	6150	5780	5450	5190	4970
180x75x5.OCC	11.6	6760	6170	5700	5320	5020	4780	4580
150x75x5.OCC	10.5	6090	5410	4950	4610	4350	4140	3970
125x65x4.OCC	7.23	4830	4250	3880	3610	3410	3240	3100
100x50x4.OCC	5.59	3900	3430	3130	2910	2740	2610	2490
75x40x4.OCC	4.25	2980	2620	2390	2220	2090	1990	1900
2/300x90x8.OCC	57.0	11800	11050	10490	10050	9690	9380	9120
2/300x90x7.OCC	50.1	11530	10770	10210	9760	9400	9100	8840
2/300x90x6.OCC	43.2	11170	10390	9830	9390	9040	8740	8490
2/250x90x6.OCC	38.5	10090	9370	8850	8450	8120	7850	7620
2/230x75x6.OCC	33.8	9480	8780	8280	7900	7590	7330	7110
2/200x75x6.OCC	31.0	8760	8100	7640	7280	6990	6750	6550
2/200x75x5.OCC	24.7	8300	7650	7190	6850	6570	6340	6150
2/180x75x5.OCC	23.3	7820	7200	6760	6440	6170	5950	5700
2/150x75x5.OCC	21.0	7050	6480	6090	5720	5410	5160	4950
2/125x65x4.OCC	14.5	5930	5270	4830	4500	4250	4050	3880
2/100x50x4.OCC	11.2	4810	4260	3900	3630	3430	3260	3130
2/75x40x4.OCC	8.49	3700	3260	2980	2780	2620	2490	2390
150x50x6.0RHS	16.7	6270	5670	5200	4850	4590	4370	4190
150x50x5.0RHS	14.2	6110	5460	5000	4670	4410	4200	4020
150x50x4.0RHS	11.6	5850	5180	4740	4420	4170	3970	3800
150x50x3.0RHS	8.96	5480	4840	4420	4120	3880	3700	3540
150x50x2.5RHS	7.53	5220	4600	4200	3910	3690	3510	3360
150x50x2.0RHS	6.07	4910	4320	3940	3660	3450	3280	3140
125x75x6.0RHS	16.7	5960	5310	4870	4550	4300	4090	3920
125x75x5.0RHS	14.2	5750	5110	4680	4370	4120	3930	3760
125x75x4.0RHS	11.6	5470	4850	4430	4130	3900	3710	3560
125x75x3.0RHS	8.96	5120	4520	4130	3840	3630	3450	3300
125x75x2.5RHS	7.53	4870	4300	3920	3650	3440	3270	3130
125x75x2.0RHS	6.07	4580	4030	3670	3420	3220	3060	2930
100x50x6.0RHS	12.0	4500	3990	3650	3400	3210	3060	2930
100x50x5.0RHS	10.3	4360	3860	3530	3290	3100	2950	2830
100x50x4.0RHS	8.49	4170	3680	3360	3130	2950	2810	2690
100x50x3.5RHS	7.53	4040	3570	3250	3030	2860	2720	2600
100x50x3.0RHS	6.60	3920	3450	3150	2930	2760	2630	2520
100x50x2.5RHS	5.56	3740	3290	3000	2790	2630	2500	2390
100x50x2.0RHS	4.50	3510	3090	2810	2620	2460	2340	2240
75x50x6.0RHS	9.67	3530	3120	2850	2650	2500	2380	2280
75x50x5.0RHS	8.35	3430	3030	2760	2570	2430	2310	2210
75x50x4.0RHS	6.92	3290	2900	2640	2460	2320	2210	2110
75x50x3.0RHS	5.42	3100	2730	2490	2310	2180	2070	1990
75x50x2.5RHS	4.58	2960	2600	2370	2210	2080	1980	1890
75x50x2.0RHS	3.72	2790	2450	2230	2070	1950	1860	1780
75x50x1.6RHS	3.01	2620	2300	2090	1940	1830	1740	1660

ROOF - Masonry Tiles only

Maximum Under Purlin Span (mm)
CONTINUOUS SPAN

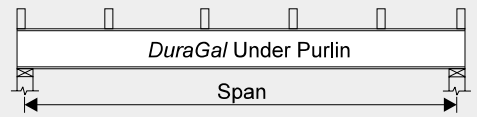


Effective Under Purlin Spacing (mm)								
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	12300	11360	10690	10180	9780	9440	9160
300x90x7.0CC	25.1	11960	11020	10370	9870	9470	9140	8860
300x90x6.0CC	21.6	11520	10590	9950	9460	9080	8760	8410
250x90x6.0CC	19.2	10370	9520	8930	8490	8140	7850	7610
230x75x6.0CC	16.9	9700	8890	8340	7920	7590	7320	7090
200x75x6.0CC	15.5	8950	8190	7680	7290	6990	6740	6520
200x75x5.0CC	12.4	8430	7700	7200	6840	6450	5840	5350
180x75x5.0CC	11.6	7930	7240	6770	6420	6130	5560	5100
150x75x5.0CC	10.5	7130	6510	6080	5700	5380	5100	4690
125x65x4.0CC	7.23	5960	5260	4800	4470	4100	3720	3410
100x50x4.0CC	5.59	4820	4240	3860	3590	3390	3220	2980
75x40x4.0CC	4.25	3680	3240	2950	2740	2580	2450	2350
2/300x90x8.0CC	57.0	13830	12950	12300	11780	11360	11000	10690
2/300x90x7.0CC	50.1	13520	12620	11960	11440	11020	10670	10370
2/300x90x6.0CC	43.2	13090	12180	11520	11010	10590	10250	9950
2/250x90x6.0CC	38.5	11830	10980	10370	9900	9520	9200	8930
2/230x75x6.0CC	33.8	11110	10290	9700	9260	8890	8590	8340
2/200x75x6.0CC	31.0	10270	9500	8950	8530	8190	7910	7680
2/200x75x5.0CC	24.7	9730	8970	8430	8020	7700	7430	7200
2/180x75x5.0CC	23.3	9170	8440	7930	7540	7240	6980	6770
2/150x75x5.0CC	21.0	8270	7600	7130	6790	6510	6280	6080
2/125x65x4.0CC	14.5	6970	6380	5960	5570	5260	5010	4800
2/100x50x4.0CC	11.2	5950	5270	4820	4490	4240	4030	3860
2/75x40x4.0CC	8.49	4570	4030	3680	3430	3240	3080	2950
150x50x6.0RHS	16.7	7350	6740	6320	6000	5670	5400	5180
150x50x5.0RHS	14.2	7160	6550	6130	5760	5440	5180	4970
150x50x4.0RHS	11.6	6900	6300	5860	5460	5160	4910	4700
150x50x3.0RHS	8.96	6570	5980	5460	5090	4800	4570	4370
150x50x2.5RHS	7.53	6340	5690	5190	4830	4560	4330	3970
150x50x2.0RHS	6.07	6050	5170	4350	3770	3350	3020	2750
125x75x6.0RHS	16.7	7000	6420	6010	5620	5310	5060	4850
125x75x5.0RHS	14.2	6810	6230	5780	5400	5090	4850	4650
125x75x4.0RHS	11.6	6560	5990	5480	5110	4820	4590	4400
125x75x3.0RHS	8.96	6240	5580	5100	4750	4480	4260	4080
125x75x2.5RHS	7.53	6020	5310	4850	4510	4130	3780	3490
125x75x2.0RHS	6.07	5480	4460	3820	3370	3040	2770	2560
100x50x6.0RHS	12.0	5570	4930	4510	4210	3970	3780	3620
100x50x5.0RHS	10.3	5390	4770	4360	4060	3830	3650	3490
100x50x4.0RHS	8.49	5150	4550	4150	3870	3650	3470	3320
100x50x3.5RHS	7.53	5000	4410	4020	3740	3530	3360	3220
100x50x3.0RHS	6.60	4840	4270	3890	3620	3410	3250	3110
100x50x2.5RHS	5.56	4620	4060	3700	3450	3250	3090	2960
100x50x2.0RHS	4.50	4340	3820	3480	3230	3050	2900	2770
75x50x6.0RHS	9.67	4360	3850	3520	3280	3090	2940	2820
75x50x5.0RHS	8.35	4240	3740	3410	3180	3000	2850	2730
75x50x4.0RHS	6.92	4060	3580	3270	3040	2870	2730	2610
75x50x3.0RHS	5.42	3840	3370	3080	2860	2700	2560	2450
75x50x2.5RHS	4.58	3660	3220	2930	2730	2570	2440	2340
75x50x2.0RHS	3.72	3450	3030	2760	2560	2410	2290	2190
75x50x1.6RHS	3.01	3240	2840	2580	2370	2160	1990	1860

UNDER PURLIN

ROOF - Steel Sheeting & Ceiling*1

Maximum Under Purlin Span (mm)
SINGLE SPAN



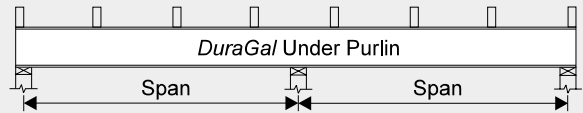
UNDER PURLIN

DuraGal® Section	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	11560	10790	10230	9790	9420	9120	8860
300x90x7.0CC	25.1	11290	10510	9940	9500	9140	8840	8590
300x90x6.0CC	21.6	10920	10130	9570	9130	8780	8490	8240
250x90x6.0CC	19.2	9860	9130	8610	8210	7890	7620	7400
230x75x6.0CC	16.9	9250	8550	8050	7670	7370	7110	6900
200x75x6.0CC	15.5	8550	7890	7420	7070	6780	6550	6350
200x75x5.0CC	12.4	8090	7440	6980	6640	6370	6150	5940
180x75x5.0CC	11.6	7610	7000	6570	6240	5980	5700	5470
150x75x5.0CC	10.5	6860	6300	5880	5490	5190	4950	4740
125x65x4.0CC	7.23	5710	5060	4630	4320	4080	3880	3720
100x50x4.0CC	5.59	4630	4090	3740	3480	3290	3130	2990
75x40x4.0CC	4.25	3550	3130	2860	2660	2510	2390	2280
2/300x90x8.0CC	57.0	12710	12070	11560	11140	10790	10490	10230
2/300x90x7.0CC	50.1	12480	11810	11290	10860	10510	10210	9940
2/300x90x6.0CC	43.2	12140	11450	10920	10490	10130	9830	9570
2/250x90x6.0CC	38.5	11010	10360	9860	9460	9130	8850	8610
2/230x75x6.0CC	33.8	10390	9740	9250	8860	8550	8280	8050
2/200x75x6.0CC	31.0	9630	9010	8550	8180	7890	7640	7420
2/200x75x5.0CC	24.7	9190	8550	8090	7730	7440	7190	6980
2/180x75x5.0CC	23.3	8670	8060	7610	7270	7000	6760	6570
2/150x75x5.0CC	21.0	7840	7270	6860	6550	6300	6090	5880
2/125x65x4.0CC	14.5	6670	6150	5710	5340	5060	4830	4630
2/100x50x4.0CC	11.2	5640	5040	4630	4330	4090	3900	3740
2/75x40x4.0CC	8.49	4360	3880	3550	3320	3130	2980	2860
150x50x6.0RHS	16.7	7010	6480	6100	5750	5450	5200	4990
150x50x5.0RHS	14.2	6850	6310	5910	5540	5240	5000	4800
150x50x4.0RHS	11.6	6630	6090	5630	5260	4970	4740	4550
150x50x3.0RHS	8.96	6340	5740	5260	4910	4640	4420	4240
150x50x2.5RHS	7.53	6130	5470	5010	4670	4410	4200	4030
150x50x2.0RHS	6.07	5820	5150	4710	4390	4140	3940	3770
125x75x6.0RHS	16.7	6670	6170	5740	5390	5100	4870	4680
125x75x5.0RHS	14.2	6520	6010	5530	5180	4900	4680	4490
125x75x4.0RHS	11.6	6300	5720	5260	4920	4650	4430	4250
125x75x3.0RHS	8.96	6020	5360	4910	4590	4330	4130	3960
125x75x2.5RHS	7.53	5760	5110	4680	4360	4120	3920	3760
125x75x2.0RHS	6.07	5430	4800	4390	4090	3860	3670	3520
100x50x6.0RHS	12.0	5270	4710	4330	4050	3830	3650	3500
100x50x5.0RHS	10.3	5120	4570	4190	3920	3700	3530	3380
100x50x4.0RHS	8.49	4920	4370	4000	3740	3530	3360	3220
100x50x3.5RHS	7.53	4780	4240	3880	3620	3420	3250	3120
100x50x3.0RHS	6.60	4640	4110	3760	3510	3310	3150	3020
100x50x2.5RHS	5.56	4440	3920	3580	3340	3150	3000	2870
100x50x2.0RHS	4.50	4180	3690	3370	3140	2960	2810	2690
75x50x6.0RHS	9.67	4150	3690	3390	3160	2990	2850	2730
75x50x5.0RHS	8.35	4040	3590	3290	3070	2900	2760	2650
75x50x4.0RHS	6.92	3890	3450	3150	2940	2780	2640	2530
75x50x3.0RHS	5.42	3690	3260	2980	2770	2620	2490	2380
75x50x2.5RHS	4.58	3530	3110	2840	2640	2490	2370	2270
75x50x2.0RHS	3.72	3330	2930	2670	2490	2340	2230	2130
75x50x1.6RHS	3.01	3130	2750	2510	2330	2200	2090	2000

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Steel Sheeting & Ceiling*1

Maximum Under Purlin Span (mm)
CONTINUOUS SPAN



DuraGal® Section	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	13550	12650	11990	11470	11050	10690	10390
300x90x7.0CC	25.1	13230	12320	11650	11140	10720	10370	10070
300x90x6.0CC	21.6	12800	11880	11220	10710	10290	9950	9660
250x90x6.0CC	19.2	11550	10700	10090	9620	9250	8930	8670
230x75x6.0CC	16.9	10840	10020	9430	8990	8630	8340	8090
200x75x6.0CC	15.5	10020	9240	8700	8280	7950	7680	7440
200x75x5.0CC	12.4	9480	8720	8190	7790	7470	7200	6730
180x75x5.0CC	11.6	8930	8200	7700	7320	7020	6770	6390
150x75x5.0CC	10.5	8050	7380	6920	6580	6310	6080	5840
125x65x4.0CC	7.23	6770	6190	5720	5340	5040	4650	4280
100x50x4.0CC	5.59	5720	5050	4620	4300	4060	3860	3700
75x40x4.0CC	4.25	4390	3870	3530	3290	3100	2950	2820
2/300x90x8.0CC	57.0	14900	14140	13550	13060	12650	12300	11990
2/300x90x7.0CC	50.1	14630	13840	13230	12730	12320	11960	11650
2/300x90x6.0CC	43.2	14230	13420	12800	12290	11880	11520	11220
2/250x90x6.0CC	38.5	12910	12140	11550	11080	10700	10370	10090
2/230x75x6.0CC	33.8	12180	11410	10840	10390	10020	9700	9430
2/200x75x6.0CC	31.0	11290	10560	10020	9590	9240	8950	8700
2/200x75x5.0CC	24.7	10770	10020	9480	9060	8720	8430	8190
2/180x75x5.0CC	23.3	10160	9440	8930	8520	8200	7930	7700
2/150x75x5.0CC	21.0	9190	8520	8050	7680	7380	7130	6920
2/125x65x4.0CC	14.5	7820	7200	6770	6450	6190	5960	5720
2/100x50x4.0CC	11.2	6720	6170	5720	5350	5050	4820	4620
2/75x40x4.0CC	8.49	5390	4790	4390	4100	3870	3680	3530
150x50x6.0RHS	16.7	8210	7590	7150	6810	6540	6320	6120
150x50x5.0RHS	14.2	8030	7400	6960	6620	6350	6130	5930
150x50x4.0RHS	11.6	7770	7140	6700	6370	6110	5860	5620
150x50x3.0RHS	8.96	7430	6800	6380	6050	5740	5460	5240
150x50x2.5RHS	7.53	7180	6560	6140	5780	5450	5190	4970
150x50x2.0RHS	6.07	6870	6270	5650	4910	4350	3920	3570
125x75x6.0RHS	16.7	7820	7230	6810	6480	6230	6010	5780
125x75x5.0RHS	14.2	7640	7040	6620	6300	6050	5780	5550
125x75x4.0RHS	11.6	7390	6790	6370	6060	5750	5480	5250
125x75x3.0RHS	8.96	7060	6460	6050	5670	5360	5100	4890
125x75x2.5RHS	7.53	6820	6230	5780	5390	5060	4640	4300
125x75x2.0RHS	6.07	6520	5570	4830	4300	3890	3540	3250
100x50x6.0RHS	12.0	6380	5820	5350	5000	4730	4510	4330
100x50x5.0RHS	10.3	6250	5640	5180	4840	4580	4360	4180
100x50x4.0RHS	8.49	6060	5400	4950	4620	4360	4150	3980
100x50x3.5RHS	7.53	5910	5240	4800	4470	4220	4020	3850
100x50x3.0RHS	6.60	5740	5080	4650	4330	4090	3890	3730
100x50x2.5RHS	5.56	5480	4850	4430	4130	3890	3700	3550
100x50x2.0RHS	4.50	5170	4560	4160	3880	3650	3480	3330
75x50x6.0RHS	9.67	5120	4560	4180	3910	3690	3520	3370
75x50x5.0RHS	8.35	5000	4440	4070	3800	3590	3410	3270
75x50x4.0RHS	6.92	4810	4260	3900	3630	3430	3270	3130
75x50x3.0RHS	5.42	4560	4020	3680	3430	3230	3080	2950
75x50x2.5RHS	4.58	4360	3840	3510	3270	3080	2930	2810
75x50x2.0RHS	3.72	4110	3620	3300	3070	2900	2760	2640
75x50x1.6RHS	3.01	3870	3400	3100	2880	2700	2500	2340

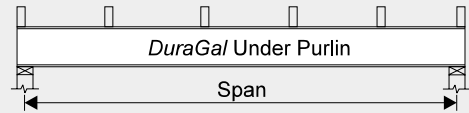
UNDER PURLIN

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Steel Sheeting & Ceiling*1

Maximum Under Purlin Span (mm)

SINGLE SPAN



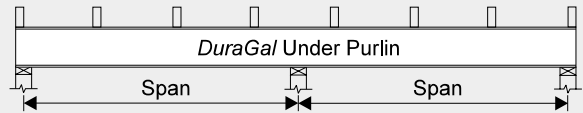
UNDER PURLIN

DuraGal® Section	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	11560	10790	10230	9790	9420	9120	8860
300x90x7.0CC	25.1	11290	10510	9940	9500	9140	8840	8590
300x90x6.0CC	21.6	10920	10130	9570	9130	8780	8490	8240
250x90x6.0CC	19.2	9860	9130	8610	8210	7890	7620	7400
230x75x6.0CC	16.9	9250	8550	8050	7670	7370	7110	6900
200x75x6.0CC	15.5	8550	7890	7420	7070	6780	6550	6350
200x75x5.0CC	12.4	8090	7440	6980	6640	6370	6150	5940
180x75x5.0CC	11.6	7610	7000	6570	6240	5980	5700	5470
150x75x5.0CC	10.5	6860	6300	5880	5490	5190	4950	4740
125x65x4.0CC	7.23	5710	5060	4630	4320	4080	3880	3720
100x50x4.0CC	5.59	4630	4090	3740	3480	3290	3130	2990
75x40x4.0CC	4.25	3550	3130	2860	2660	2510	2390	2280
2/300x90x8.0CC	57.0	12710	12070	11560	11140	10790	10490	10230
2/300x90x7.0CC	50.1	12480	11810	11290	10860	10510	10210	9940
2/300x90x6.0CC	43.2	12140	11450	10920	10490	10130	9830	9570
2/250x90x6.0CC	38.5	11010	10360	9860	9460	9130	8850	8610
2/230x75x6.0CC	33.8	10390	9740	9250	8860	8550	8280	8050
2/200x75x6.0CC	31.0	9630	9010	8550	8180	7890	7640	7420
2/200x75x5.0CC	24.7	9190	8550	8090	7730	7440	7190	6980
2/180x75x5.0CC	23.3	8670	8060	7610	7270	7000	6760	6570
2/150x75x5.0CC	21.0	7840	7270	6860	6550	6300	6090	5880
2/125x65x4.0CC	14.5	6670	6150	5710	5340	5060	4830	4630
2/100x50x4.0CC	11.2	5640	5040	4630	4330	4090	3900	3740
2/75x40x4.0CC	8.49	4360	3880	3550	3320	3130	2980	2860
150x50x6.0RHS	16.7	7010	6480	6100	5750	5450	5200	4990
150x50x5.0RHS	14.2	6850	6310	5910	5540	5240	5000	4800
150x50x4.0RHS	11.6	6630	6090	5630	5260	4970	4740	4550
150x50x3.0RHS	8.96	6340	5740	5260	4910	4640	4420	4240
150x50x2.5RHS	7.53	6130	5470	5010	4670	4410	4200	4030
150x50x2.0RHS	6.07	5820	5150	4710	4390	4140	3940	3770
125x75x6.0RHS	16.7	6670	6170	5740	5390	5100	4870	4680
125x75x5.0RHS	14.2	6520	6010	5530	5180	4900	4680	4490
125x75x4.0RHS	11.6	6300	5720	5260	4920	4650	4430	4250
125x75x3.0RHS	8.96	6020	5360	4910	4590	4330	4130	3960
125x75x2.5RHS	7.53	5760	5110	4680	4360	4120	3920	3760
125x75x2.0RHS	6.07	5430	4800	4390	4090	3860	3670	3520
100x50x6.0RHS	12.0	5270	4710	4330	4050	3830	3650	3500
100x50x5.0RHS	10.3	5120	4570	4190	3920	3700	3530	3380
100x50x4.0RHS	8.49	4920	4370	4000	3740	3530	3360	3220
100x50x3.5RHS	7.53	4780	4240	3880	3620	3420	3250	3120
100x50x3.0RHS	6.60	4640	4110	3760	3510	3310	3150	3020
100x50x2.5RHS	5.56	4440	3920	3580	3340	3150	3000	2870
100x50x2.0RHS	4.50	4180	3690	3370	3140	2960	2810	2690
75x50x6.0RHS	9.67	4150	3690	3390	3160	2990	2850	2730
75x50x5.0RHS	8.35	4040	3590	3290	3070	2900	2760	2650
75x50x4.0RHS	6.92	3890	3450	3150	2940	2780	2640	2530
75x50x3.0RHS	5.42	3690	3260	2980	2770	2620	2490	2380
75x50x2.5RHS	4.58	3530	3110	2840	2640	2490	2370	2270
75x50x2.0RHS	3.72	3330	2930	2670	2490	2340	2230	2130
75x50x1.6RHS	3.01	3130	2750	2510	2330	2200	2090	2000

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Steel Sheeting & Ceiling*1

Maximum Under Purlin Span (mm)
CONTINUOUS SPAN



DuraGal® Section	Mass kg/m	Effective Under Purlin Spacing (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	13550	12650	11990	11470	11050	10690	10390
300x90x7.0CC	25.1	13230	12320	11650	11140	10720	10370	9500
300x90x6.0CC	21.6	12800	11880	11220	10710	10290	9280	8450
250x90x6.0CC	19.2	11550	10700	10090	9620	9250	8500	7770
230x75x6.0CC	16.9	10840	10020	9430	8990	8630	7950	7280
200x75x6.0CC	15.5	10020	9240	8700	8280	7950	7390	6780
200x75x5.0CC	12.4	9480	8720	8190	7230	6410	5780	5280
180x75x5.0CC	11.6	8930	8200	7700	6850	6080	5490	5020
150x75x5.0CC	10.5	8050	7380	6920	6230	5550	5020	4610
125x65x4.0CC	7.23	6770	6190	5210	4520	4020	3640	3330
100x50x4.0CC	5.59	5720	5050	4460	3890	3480	3160	2900
75x40x4.0CC	4.25	4390	3870	3520	3140	2850	2600	2400
2/300x90x8.0CC	57.0	14900	14140	13550	13060	12650	12300	11990
2/300x90x7.0CC	50.1	14630	13840	13230	12730	12320	11960	11650
2/300x90x6.0CC	43.2	14230	13420	12800	12290	11880	11520	11220
2/250x90x6.0CC	38.5	12910	12140	11550	11080	10700	10370	10090
2/230x75x6.0CC	33.8	12180	11410	10840	10390	10020	9700	9430
2/200x75x6.0CC	31.0	11290	10560	10020	9590	9240	8950	8700
2/200x75x5.0CC	24.7	10770	10020	9480	9060	8720	8430	8190
2/180x75x5.0CC	23.3	10160	9440	8930	8520	8200	7930	7700
2/150x75x5.0CC	21.0	9190	8520	8050	7680	7380	7130	6920
2/125x65x4.0CC	14.5	7820	7200	6770	6450	6190	5670	5210
2/100x50x4.0CC	11.2	6720	6170	5720	5350	5050	4820	4460
2/75x40x4.0CC	8.49	5390	4790	4390	4100	3870	3680	3520
150x50x6.0RHS	16.7	8210	7590	7150	6810	6540	6320	6120
150x50x5.0RHS	14.2	8030	7400	6960	6620	6350	6130	5930
150x50x4.0RHS	11.6	7770	7140	6700	6370	6110	5860	5620
150x50x3.0RHS	8.96	7430	6800	6380	6050	5660	5160	4760
150x50x2.5RHS	7.53	7180	6560	6060	5260	4680	4230	3880
150x50x2.0RHS	6.07	6870	5390	4420	3780	3320	2960	2680
125x75x6.0RHS	16.7	7820	7230	6810	6480	6230	6010	5780
125x75x5.0RHS	14.2	7640	7040	6620	6300	6050	5780	5550
125x75x4.0RHS	11.6	7390	6790	6370	6060	5750	5480	5250
125x75x3.0RHS	8.96	7060	6460	6050	5540	5000	4570	4240
125x75x2.5RHS	7.53	6820	6100	5160	4530	4060	3700	3410
125x75x2.0RHS	6.07	6050	4730	3950	3430	3050	2750	2520
100x50x6.0RHS	12.0	6380	5820	5350	5000	4730	4510	4330
100x50x5.0RHS	10.3	6250	5640	5180	4840	4580	4360	4180
100x50x4.0RHS	8.49	6060	5400	4950	4620	4360	4150	3980
100x50x3.5RHS	7.53	5910	5240	4800	4470	4220	4020	3850
100x50x3.0RHS	6.60	5740	5080	4650	4330	4090	3890	3690
100x50x2.5RHS	5.56	5480	4850	4430	4130	3890	3640	3370
100x50x2.0RHS	4.50	5170	4560	4150	3630	3250	2960	2730
75x50x6.0RHS	9.67	5120	4560	4180	3910	3690	3520	3370
75x50x5.0RHS	8.35	5000	4440	4070	3800	3590	3410	3270
75x50x4.0RHS	6.92	4810	4260	3900	3630	3430	3270	3130
75x50x3.0RHS	5.42	4560	4020	3680	3430	3230	3080	2950
75x50x2.5RHS	4.58	4360	3840	3510	3270	3080	2920	2730
75x50x2.0RHS	3.72	4110	3620	3300	3070	2830	2620	2450
75x50x1.6RHS	3.01	3870	3360	2850	2500	2250	2050	1890

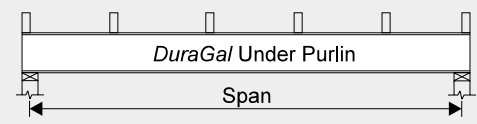
UNDER PURLIN

*1 Ceiling in line with the rafter/under purlin and supported by the rafter/under purlin. The wind load used to generate tables are those resulting from both internal and external pressure

ROOF - Steel Sheeting only

Maximum Under Purlin Span (mm)

SINGLE SPAN

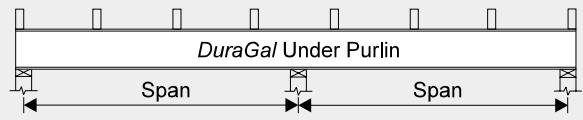


UNDER PURLIN

Effective Under Purlin Spacing (mm)								
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	12710	12070	11560	11140	10790	10490	10230
300x90x7.0CC	25.1	12480	11810	11290	10860	10510	10210	9940
300x90x6.0CC	21.6	12140	11450	10920	10490	10130	9830	9570
250x90x6.0CC	19.2	11010	10360	9860	9460	9130	8850	8610
230x75x6.0CC	16.9	10390	9740	9250	8860	8550	8280	8050
200x75x6.0CC	15.5	9630	9010	8550	8180	7890	7640	7420
200x75x5.0CC	12.4	9190	8550	8090	7730	7440	7190	6980
180x75x5.0CC	11.6	8670	8060	7610	7270	7000	6760	6570
150x75x5.0CC	10.5	7840	7270	6860	6550	6300	6090	5880
125x65x4.0CC	7.23	6670	6150	5710	5340	5060	4830	4630
100x50x4.0CC	5.59	5640	5040	4630	4330	4090	3900	3740
75x40x4.0CC	4.25	4360	3880	3550	3320	3130	2980	2860
2/300x90x8.0CC	57.0	13570	13110	12710	12370	12070	11800	11560
2/300x90x7.0CC	50.1	13400	12900	12480	12120	11810	11530	11290
2/300x90x6.0CC	43.2	13120	12580	12140	11770	11450	11170	10920
2/250x90x6.0CC	38.5	11960	11440	11010	10660	10360	10090	9860
2/230x75x6.0CC	33.8	11340	10810	10390	10040	9740	9480	9250
2/200x75x6.0CC	31.0	10550	10040	9630	9290	9010	8760	8550
2/200x75x5.0CC	24.7	10160	9610	9190	8840	8550	8300	8090
2/180x75x5.0CC	23.3	9610	9080	8670	8330	8060	7820	7610
2/150x75x5.0CC	21.0	8730	8220	7840	7530	7270	7050	6860
2/125x65x4.0CC	14.5	7530	7040	6670	6380	6150	5930	5710
2/100x50x4.0CC	11.2	6530	6070	5640	5310	5040	4810	4630
2/75x40x4.0CC	8.49	5250	4720	4360	4090	3880	3700	3550
150x50x6.0RHS	16.7	7870	7380	7010	6720	6480	6270	6100
150x50x5.0RHS	14.2	7740	7230	6850	6550	6310	6110	5910
150x50x4.0RHS	11.6	7550	7010	6630	6330	6090	5850	5630
150x50x3.0RHS	8.96	7270	6730	6340	6040	5740	5480	5260
150x50x2.5RHS	7.53	7060	6510	6130	5780	5470	5220	5010
150x50x2.0RHS	6.07	6790	6240	5820	5440	5150	4910	4710
125x75x6.0RHS	16.7	7500	7030	6670	6400	6170	5960	5740
125x75x5.0RHS	14.2	7370	6880	6520	6240	6010	5750	5530
125x75x4.0RHS	11.6	7170	6670	6300	6020	5720	5470	5260
125x75x3.0RHS	8.96	6910	6390	6020	5650	5360	5120	4910
125x75x2.5RHS	7.53	6710	6180	5760	5390	5110	4870	4680
125x75x2.0RHS	6.07	6450	5900	5430	5080	4800	4580	4390
100x50x6.0RHS	12.0	6190	5680	5270	4960	4710	4500	4330
100x50x5.0RHS	10.3	6090	5540	5120	4810	4570	4360	4190
100x50x4.0RHS	8.49	5920	5320	4920	4610	4370	4170	4000
100x50x3.5RHS	7.53	5780	5180	4780	4480	4240	4040	3880
100x50x3.0RHS	6.60	5630	5040	4640	4340	4110	3920	3760
100x50x2.5RHS	5.56	5410	4830	4440	4150	3920	3740	3580
100x50x2.0RHS	4.50	5130	4560	4180	3910	3690	3510	3370
75x50x6.0RHS	9.67	4960	4480	4150	3890	3690	3530	3390
75x50x5.0RHS	8.35	4870	4380	4040	3790	3590	3430	3290
75x50x4.0RHS	6.92	4710	4220	3890	3640	3450	3290	3150
75x50x3.0RHS	5.42	4500	4010	3690	3450	3260	3100	2980
75x50x2.5RHS	4.58	4320	3840	3530	3290	3110	2960	2840
75x50x2.0RHS	3.72	4100	3630	3330	3100	2930	2790	2670
75x50x1.6RHS	3.01	3870	3420	3130	2920	2750	2620	2510

ROOF - Steel Sheeting only

Maximum Under Purlin Span (mm)
CONTINUOUS SPAN



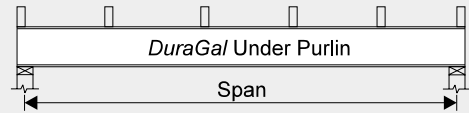
Effective Under Purlin Spacing (mm)								
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.OCC	28.5	14900	14140	13550	13060	12650	12300	11990
300x90x7.OCC	25.1	14630	13840	13230	12730	12320	11960	11650
300x90x6.OCC	21.6	14230	13420	12800	12290	11880	11520	11220
250x90x6.OCC	19.2	12910	12140	11550	11080	10700	10370	10090
230x75x6.OCC	16.9	12180	11410	10840	10390	10020	9700	9430
200x75x6.OCC	15.5	11290	10560	10020	9590	9240	8950	8700
200x75x5.OCC	12.4	10770	10020	9480	9060	8720	8430	8070
180x75x5.OCC	11.6	10160	9440	8930	8520	8200	7930	7620
150x75x5.OCC	10.5	9190	8520	8050	7680	7380	7130	6910
125x65x4.OCC	7.23	7820	7200	6770	6450	6020	5470	5030
100x50x4.OCC	5.59	6720	6170	5720	5350	5050	4670	4310
75x40x4.OCC	4.25	5390	4790	4390	4100	3870	3660	3420
2/300x90x8.OCC	57.0	15910	15360	14900	14500	14140	13830	13550
2/300x90x7.OCC	50.1	15700	15120	14630	14210	13840	13520	13230
2/300x90x6.OCC	43.2	15380	14750	14230	13800	13420	13090	12800
2/250x90x6.OCC	38.5	14010	13400	12910	12490	12140	11830	11550
2/230x75x6.OCC	33.8	13290	12670	12180	11760	11410	11110	10840
2/200x75x6.OCC	31.0	12370	11770	11290	10890	10560	10270	10020
2/200x75x5.OCC	24.7	11910	11270	10770	10360	10020	9730	9480
2/180x75x5.OCC	23.3	11270	10640	10160	9770	9440	9170	8930
2/150x75x5.OCC	21.0	10230	9640	9190	8820	8520	8270	8050
2/125x65x4.OCC	14.5	8830	8250	7820	7480	7200	6970	6770
2/100x50x4.OCC	11.2	7650	7110	6720	6410	6170	5950	5720
2/75x40x4.OCC	8.49	6360	5840	5390	5050	4790	4570	4390
150x50x6.0RHS	16.7	9230	8650	8210	7870	7590	7350	7150
150x50x5.0RHS	14.2	9070	8470	8030	7680	7400	7160	6960
150x50x4.0RHS	11.6	8840	8220	7770	7420	7140	6900	6700
150x50x3.0RHS	8.96	8520	7880	7430	7080	6800	6570	6380
150x50x2.5RHS	7.53	8280	7630	7180	6840	6560	6340	5850
150x50x2.0RHS	6.07	7960	7320	6790	5860	5180	4660	4250
125x75x6.0RHS	16.7	8790	8240	7820	7500	7230	7000	6810
125x75x5.0RHS	14.2	8630	8060	7640	7310	7040	6810	6620
125x75x4.0RHS	11.6	8410	7820	7390	7060	6790	6560	6370
125x75x3.0RHS	8.96	8090	7490	7060	6730	6460	6240	6050
125x75x2.5RHS	7.53	7860	7250	6820	6490	5900	5400	4990
125x75x2.0RHS	6.07	7560	6890	5850	5100	4560	4140	3810
100x50x6.0RHS	12.0	7250	6750	6380	6100	5820	5570	5350
100x50x5.0RHS	10.3	7140	6620	6250	5950	5640	5390	5180
100x50x4.0RHS	8.49	6960	6430	6060	5700	5400	5150	4950
100x50x3.5RHS	7.53	6830	6300	5910	5530	5240	5000	4800
100x50x3.0RHS	6.60	6710	6170	5740	5370	5080	4840	4650
100x50x2.5RHS	5.56	6510	5970	5480	5130	4850	4620	4430
100x50x2.0RHS	4.50	6250	5640	5170	4830	4560	4340	4010
75x50x6.0RHS	9.67	6100	5540	5120	4810	4560	4360	4180
75x50x5.0RHS	8.35	6010	5410	5000	4690	4440	4240	4070
75x50x4.0RHS	6.92	5830	5220	4810	4500	4260	4060	3900
75x50x3.0RHS	5.42	5560	4960	4560	4260	4020	3840	3680
75x50x2.5RHS	4.58	5340	4750	4360	4070	3840	3660	3510
75x50x2.0RHS	3.72	5060	4490	4110	3840	3620	3450	3300
75x50x1.6RHS	3.01	4780	4230	3870	3580	3250	2980	2760

UNDER PURLIN

ROOF - Steel Sheeting only

Maximum Under Purlin Span (mm)

SINGLE SPAN



UNDER PURLIN

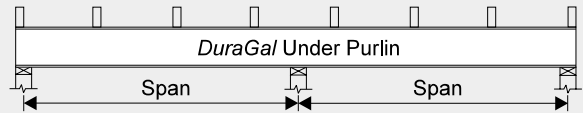
Effective Under Purlin Spacing (mm)

DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	12710	12070	11560	11140	10790	10490	10230
300x90x7.0CC	25.1	12480	11810	11290	10860	10510	10210	9940
300x90x6.0CC	21.6	12140	11450	10920	10490	10130	9830	9570
250x90x6.0CC	19.2	11010	10360	9860	9460	9130	8850	8610
230x75x6.0CC	16.9	10390	9740	9250	8860	8550	8280	8050
200x75x6.0CC	15.5	9630	9010	8550	8180	7890	7640	7420
200x75x5.0CC	12.4	9190	8550	8090	7730	7440	7190	6770
180x75x5.0CC	11.6	8670	8060	7610	7270	7000	6720	6280
150x75x5.0CC	10.5	7840	7270	6860	6550	6300	5910	5520
125x65x4.0CC	7.23	6670	6150	5710	5250	4780	4420	4140
100x50x4.0CC	5.59	5640	5040	4630	4300	3920	3630	3390
75x40x4.0CC	4.25	4360	3880	3550	3320	3050	2820	2640
2/300x90x8.0CC	57.0	13570	13110	12710	12370	12070	11800	11560
2/300x90x7.0CC	50.1	13400	12900	12480	12120	11810	11530	11290
2/300x90x6.0CC	43.2	13120	12580	12140	11770	11450	11170	10920
2/250x90x6.0CC	38.5	11960	11440	11010	10660	10360	10090	9860
2/230x75x6.0CC	33.8	11340	10810	10390	10040	9740	9480	9250
2/200x75x6.0CC	31.0	10550	10040	9630	9290	9010	8760	8550
2/200x75x5.0CC	24.7	10160	9610	9190	8840	8550	8300	8090
2/180x75x5.0CC	23.3	9610	9080	8670	8330	8060	7820	7610
2/150x75x5.0CC	21.0	8730	8220	7840	7530	7270	7050	6860
2/125x65x4.0CC	14.5	7530	7040	6670	6380	6150	5930	5710
2/100x50x4.0CC	11.2	6530	6070	5640	5310	5040	4810	4630
2/75x40x4.0CC	8.49	5250	4720	4360	4090	3880	3700	3550
150x50x6.0RHS	16.7	7870	7380	7010	6720	6480	6270	6100
150x50x5.0RHS	14.2	7740	7230	6850	6550	6310	6110	5910
150x50x4.0RHS	11.6	7550	7010	6630	6330	6090	5850	5630
150x50x3.0RHS	8.96	7270	6730	6340	6040	5740	5480	5260
150x50x2.5RHS	7.53	7060	6510	6130	5780	5470	5220	4990
150x50x2.0RHS	6.07	6790	6240	5820	5390	4920	4550	4250
125x75x6.0RHS	16.7	7500	7030	6670	6400	6170	5960	5740
125x75x5.0RHS	14.2	7370	6880	6520	6240	6010	5750	5530
125x75x4.0RHS	11.6	7170	6670	6300	6020	5720	5470	5260
125x75x3.0RHS	8.96	6910	6390	6020	5650	5360	5120	4910
125x75x2.5RHS	7.53	6710	6180	5760	5390	5110	4770	4460
125x75x2.0RHS	6.07	6450	5900	5350	4780	4360	4030	3770
100x50x6.0RHS	12.0	6190	5680	5270	4960	4710	4500	4330
100x50x5.0RHS	10.3	6090	5540	5120	4810	4570	4360	4190
100x50x4.0RHS	8.49	5920	5320	4920	4610	4370	4170	4000
100x50x3.5RHS	7.53	5780	5180	4780	4480	4240	4040	3880
100x50x3.0RHS	6.60	5630	5040	4640	4340	4110	3920	3760
100x50x2.5RHS	5.56	5410	4830	4440	4150	3920	3740	3580
100x50x2.0RHS	4.50	5130	4560	4180	3910	3690	3450	3220
75x50x6.0RHS	9.67	4960	4480	4150	3890	3690	3530	3390
75x50x5.0RHS	8.35	4870	4380	4040	3790	3590	3430	3290
75x50x4.0RHS	6.92	4710	4220	3890	3640	3450	3290	3150
75x50x3.0RHS	5.42	4500	4010	3690	3450	3260	3100	2980
75x50x2.5RHS	4.58	4320	3840	3530	3290	3110	2960	2840
75x50x2.0RHS	3.72	4100	3630	3330	3100	2930	2770	2590
75x50x1.6RHS	3.01	3870	3420	3070	2750	2510	2320	2170

ROOF - Steel Sheeting only

Maximum Under Purlin Span (mm)

CONTINUOUS SPAN



Effective Under Purlin Spacing (mm)								
DuraGal® Section	Mass kg/m	1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	14900	14140	13550	13060	12650	12300	11660
300x90x7.0CC	25.1	14630	13840	13230	12730	12320	11180	10240
300x90x6.0CC	21.6	14230	13420	12800	12290	11130	10020	9140
250x90x6.0CC	19.2	12910	12140	11550	11080	10130	9150	8370
230x75x6.0CC	16.9	12180	11410	10840	10390	9440	8540	7830
200x75x6.0CC	15.5	11290	10560	10020	9590	8740	7930	7280
200x75x5.0CC	12.4	10770	10020	8990	7780	6900	6230	5690
180x75x5.0CC	11.6	10160	9440	8480	7360	6540	5910	5410
150x75x5.0CC	10.5	9190	8520	7670	6680	5950	5400	4950
125x65x4.0CC	7.23	7820	6670	5590	4860	4320	3910	3580
100x50x4.0CC	5.59	6720	5570	4770	4170	3730	3390	3110
75x40x4.0CC	4.25	5310	4310	3730	3330	3030	2780	2570
2/300x90x8.0CC	57.0	15910	15360	14900	14500	14140	13830	13550
2/300x90x7.0CC	50.1	15700	15120	14630	14210	13840	13520	13230
2/300x90x6.0CC	43.2	15380	14750	14230	13800	13420	13090	12800
2/250x90x6.0CC	38.5	14010	13400	12910	12490	12140	11830	11550
2/230x75x6.0CC	33.8	13290	12670	12180	11760	11410	11110	10840
2/200x75x6.0CC	31.0	12370	11770	11290	10890	10560	10270	10020
2/200x75x5.0CC	24.7	11910	11270	10770	10360	10020	9730	8990
2/180x75x5.0CC	23.3	11270	10640	10160	9770	9440	9170	8480
2/150x75x5.0CC	21.0	10230	9640	9190	8820	8520	8270	7670
2/125x65x4.0CC	14.5	8830	8250	7820	7460	6670	6070	5590
2/100x50x4.0CC	11.2	7650	7110	6720	6110	5570	5140	4770
2/75x40x4.0CC	8.49	6360	5840	5310	4740	4310	3990	3730
150x50x6.0RHS	16.7	9230	8650	8210	7870	7590	7350	7150
150x50x5.0RHS	14.2	9070	8470	8030	7680	7400	7160	6750
150x50x4.0RHS	11.6	8840	8220	7770	7420	7110	6570	6140
150x50x3.0RHS	8.96	8520	7880	7430	6740	6050	5520	5090
150x50x2.5RHS	7.53	8280	7630	6490	5650	5030	4550	4170
150x50x2.0RHS	6.07	7580	5800	4780	4090	3600	3220	2920
125x75x6.0RHS	16.7	8790	8240	7820	7500	7230	7000	6810
125x75x5.0RHS	14.2	8630	8060	7640	7310	7040	6810	6490
125x75x4.0RHS	11.6	8410	7820	7390	7060	6790	6310	5890
125x75x3.0RHS	8.96	8090	7490	6690	5900	5320	4880	4520
125x75x2.5RHS	7.53	7860	6500	5510	4830	4340	3960	3650
125x75x2.0RHS	6.07	6470	5060	4240	3680	3270	2960	2710
100x50x6.0RHS	12.0	7250	6750	6380	6100	5820	5470	5110
100x50x5.0RHS	10.3	7140	6620	6250	5950	5540	5120	4780
100x50x4.0RHS	8.49	6960	6430	6060	5560	5070	4690	4380
100x50x3.5RHS	7.53	6830	6300	5890	5260	4790	4430	4140
100x50x3.0RHS	6.60	6710	6170	5550	4950	4520	4180	3910
100x50x2.5RHS	5.56	6510	5920	5110	4560	4160	3850	3590
100x50x2.0RHS	4.50	6250	5240	4430	3880	3480	3170	2920
75x50x6.0RHS	9.67	6100	5540	5120	4810	4560	4300	4020
75x50x5.0RHS	8.35	6010	5410	5000	4690	4370	4040	3780
75x50x4.0RHS	6.92	5830	5220	4810	4410	4020	3720	3480
75x50x3.0RHS	5.42	5560	4960	4440	3960	3610	3340	3120
75x50x2.5RHS	4.58	5340	4740	4090	3660	3340	3090	2890
75x50x2.0RHS	3.72	5060	4250	3670	3280	3000	2770	2590
75x50x1.6RHS	3.01	4370	3550	3040	2670	2400	2190	2020

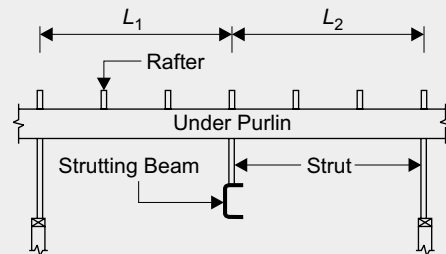
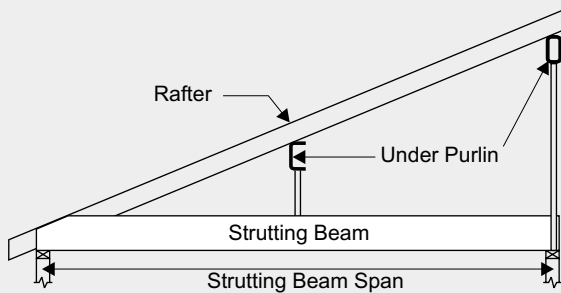
UNDER PURLIN

STRUTTING BEAMS

Applied loads and deflection limits used to generate the tables on pages 33 to 35.

ROOF	LOAD (kPa)		DEFLECTION (mm)
	Dead Load (G)	Live Load (Q)	Dead Load (G)
Masonry Tiles only* ¹	0.7	Larger of 0.25	Span / 300
Steel Sheeting only* ¹	0.2	and 1.8 / Area + 0.12	to 20mm

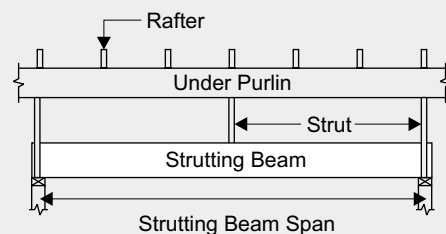
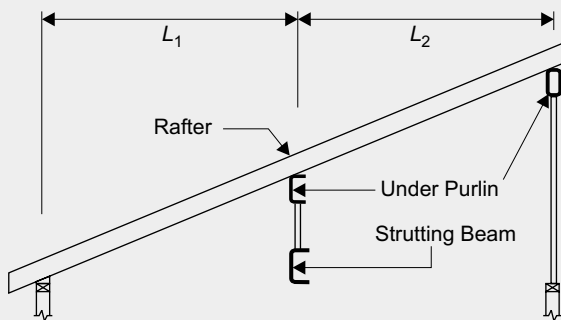
*¹ Ceiling supported by ceiling joists. The only wind loads used to generate the tables are those resulting from external wind pressures.



$$\text{Effective Load Width} = 0.625 \times (L_1 + L_2)$$

Arrangement 1: Strutting Beam Perpendicular to Under Purlin

Rafters are assumed to be supported at the line of support of the Strutting Beam as shown above



$$\text{Effective Load Width} = 0.625 \times (L_1 + L_2)$$

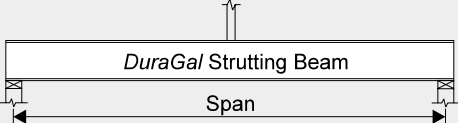
Arrangement 2: Strutting Beam Parallel to Under Purlin

Under Purlin is assumed to be supported at the line of support of the Strutting Beam as shown above

ROOF - Masonry Tiles only

Maximum Strutting Beam Span (mm)

SINGLE SPAN



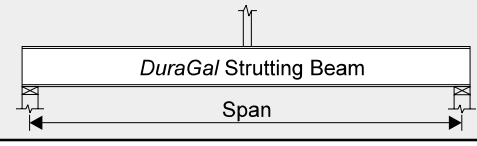
DuraGal® Section	Mass kg/m	Effective Load Width (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.OCC	28.5	9230	8530	8030	7650	7340	7090	6880
300x90x7.OCC	25.1	8980	8280	7780	7410	7110	6860	6650
300x90x6.OCC	21.6	8650	7960	7470	7110	6820	6580	6370
250x90x6.OCC	19.2	7790	7150	6710	6380	6110	5900	5720
230x75x6.OCC	16.9	7290	6680	6260	5950	5700	5500	5330
200x75x6.OCC	15.5	6720	6150	5760	5470	5250	5060	4900
200x75x5.OCC	12.4	6330	5780	5410	5130	4920	4740	4590
180x75x5.OCC	11.6	5950	5430	5080	4820	4620	4450	4310
150x75x5.OCC	10.5	5360	4890	4570	4330	4150	4000	3870
125x65x4.OCC	7.23	4490	4080	3810	3610	3410	3240	3100
100x50x4.OCC	5.59	3820	3430	3130	2910	2740	2610	2490
75x40x4.OCC	4.25	2980	2620	2390	2220	2090	1990	1900
2/300x90x8.OCC	57.0	10390	9730	9230	8850	8530	8260	8030
2/300x90x7.OCC	50.1	10150	9480	8980	8590	8280	8010	7780
2/300x90x6.OCC	43.2	9830	9150	8650	8270	7960	7700	7470
2/250x90x6.OCC	38.5	8880	8250	7790	7440	7150	6910	6710
2/230x75x6.OCC	33.8	8340	7730	7290	6950	6680	6450	6260
2/200x75x6.OCC	31.0	7710	7130	6720	6410	6150	5940	5760
2/200x75x5.OCC	24.7	7310	6730	6330	6020	5780	5580	5410
2/180x75x5.OCC	23.3	6880	6340	5950	5660	5430	5240	5080
2/150x75x5.OCC	21.0	6210	5710	5360	5100	4890	4710	4570
2/125x65x4.OCC	14.5	5240	4790	4490	4260	4080	3930	3810
2/100x50x4.OCC	11.2	4480	4090	3820	3630	3430	3260	3130
2/75x40x4.OCC	8.49	3670	3260	2980	2780	2620	2490	2390
150x50x6.0RHS	16.7	5520	5060	4740	4500	4320	4160	4030
150x50x5.0RHS	14.2	5380	4920	4610	4370	4190	4040	3910
150x50x4.0RHS	11.6	5180	4730	4430	4200	4020	3880	3750
150x50x3.0RHS	8.96	4930	4500	4200	3980	3810	3670	3540
150x50x2.5RHS	7.53	4760	4330	4040	3830	3670	3510	3360
150x50x2.0RHS	6.07	4540	4130	3850	3650	3450	3280	3140
125x75x6.0RHS	16.7	5260	4820	4520	4290	4110	3960	3840
125x75x5.0RHS	14.2	5120	4680	4380	4160	3990	3840	3720
125x75x4.0RHS	11.6	4930	4500	4210	3990	3820	3680	3560
125x75x3.0RHS	8.96	4690	4270	3990	3780	3620	3450	3300
125x75x2.5RHS	7.53	4520	4110	3840	3640	3440	3270	3130
125x75x2.0RHS	6.07	4310	3920	3660	3300	3020	2800	2620
100x50x6.0RHS	12.0	4260	3890	3640	3400	3210	3060	2930
100x50x5.0RHS	10.3	4160	3790	3530	3290	3100	2950	2830
100x50x4.0RHS	8.49	4020	3660	3360	3130	2950	2810	2690
100x50x3.5RHS	7.53	3930	3570	3250	3030	2860	2720	2600
100x50x3.0RHS	6.60	3840	3450	3150	2930	2760	2630	2520
100x50x2.5RHS	5.56	3700	3290	3000	2790	2630	2500	2390
100x50x2.0RHS	4.50	3510	3090	2810	2620	2460	2340	2240
75x50x6.0RHS	9.67	3530	3120	2850	2650	2500	2380	2280
75x50x5.0RHS	8.35	3430	3030	2760	2570	2430	2310	2210
75x50x4.0RHS	6.92	3290	2900	2640	2460	2320	2210	2110
75x50x3.0RHS	5.42	3100	2730	2490	2310	2180	2070	1990
75x50x2.5RHS	4.58	2960	2600	2370	2210	2080	1980	1890
75x50x2.0RHS	3.72	2790	2450	2230	2070	1950	1860	1780
75x50x1.6RHS	3.01	2620	2300	2090	1940	1830	1740	1660

STRUTTING BEAM

ROOF - Steel Sheeting only

Maximum Strutting Beam Span (mm)

SINGLE SPAN



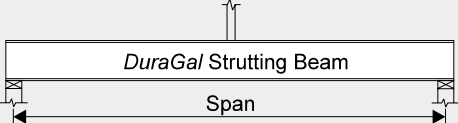
STRUTTING BEAM

DuraGal® Section	Mass kg/m	Effective Load Width (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	11190	10620	10170	9810	9500	9230	9000
300x90x7.0CC	25.1	10980	10390	9930	9560	9250	8980	8750
300x90x6.0CC	21.6	10690	10080	9610	9230	8920	8650	8420
250x90x6.0CC	19.2	9690	9110	8670	8320	8030	7790	7580
230x75x6.0CC	16.9	9140	8570	8140	7800	7520	7290	7080
200x75x6.0CC	15.5	8480	7930	7520	7200	6940	6720	6530
200x75x5.0CC	12.4	8080	7520	7120	6800	6540	6330	6150
180x75x5.0CC	11.6	7630	7090	6700	6400	6160	5950	5780
150x75x5.0CC	10.5	6900	6400	6040	5770	5540	5360	5200
125x65x4.0CC	7.23	5870	5410	5090	4840	4650	4490	4350
100x50x4.0CC	5.59	5040	4630	4350	4130	3960	3820	3700
75x40x4.0CC	4.25	4160	3800	3550	3320	3130	2980	2860
2/300x90x8.0CC	57.0	11950	11540	11190	10890	10620	10390	10170
2/300x90x7.0CC	50.1	11790	11350	10980	10670	10390	10150	9930
2/300x90x6.0CC	43.2	11550	11080	10690	10360	10080	9830	9610
2/250x90x6.0CC	38.5	10520	10070	9690	9380	9110	8880	8670
2/230x75x6.0CC	33.8	9980	9520	9140	8830	8570	8340	8140
2/200x75x6.0CC	31.0	9290	8840	8480	8180	7930	7710	7520
2/200x75x5.0CC	24.7	8940	8460	8080	7780	7520	7310	7120
2/180x75x5.0CC	23.3	8460	7990	7630	7330	7090	6880	6700
2/150x75x5.0CC	21.0	7680	7240	6900	6630	6400	6210	6040
2/125x65x4.0CC	14.5	6630	6190	5870	5620	5410	5240	5090
2/100x50x4.0CC	11.2	5750	5340	5040	4820	4630	4480	4350
2/75x40x4.0CC	8.49	4780	4410	4160	3960	3800	3670	3550
150x50x6.0RHS	16.7	6930	6490	6170	5910	5700	5520	5370
150x50x5.0RHS	14.2	6810	6360	6030	5770	5550	5380	5220
150x50x4.0RHS	11.6	6640	6170	5840	5570	5360	5180	5030
150x50x3.0RHS	8.96	6400	5920	5580	5320	5110	4930	4790
150x50x2.5RHS	7.53	6220	5730	5390	5130	4930	4760	4610
150x50x2.0RHS	6.07	5980	5490	5160	4910	4710	4540	4400
125x75x6.0RHS	16.7	6600	6180	5870	5630	5430	5260	5110
125x75x5.0RHS	14.2	6480	6050	5740	5490	5290	5120	4970
125x75x4.0RHS	11.6	6310	5870	5550	5300	5100	4930	4780
125x75x3.0RHS	8.96	6080	5620	5300	5050	4850	4690	4550
125x75x2.5RHS	7.53	5900	5440	5120	4880	4680	4520	4380
125x75x2.0RHS	6.07	5670	5220	4900	4660	4470	4210	3910
100x50x6.0RHS	12.0	5450	5070	4790	4580	4400	4260	4130
100x50x5.0RHS	10.3	5360	4970	4690	4480	4300	4160	4040
100x50x4.0RHS	8.49	5220	4830	4550	4330	4160	4020	3900
100x50x3.5RHS	7.53	5130	4730	4450	4240	4070	3930	3810
100x50x3.0RHS	6.60	5040	4640	4360	4140	3980	3840	3720
100x50x2.5RHS	5.56	4890	4490	4210	4000	3840	3700	3580
100x50x2.0RHS	4.50	4700	4300	4030	3830	3670	3510	3370
75x50x6.0RHS	9.67	4580	4240	4000	3820	3670	3530	3390
75x50x5.0RHS	8.35	4520	4170	3930	3740	3590	3430	3290
75x50x4.0RHS	6.92	4410	4060	3820	3630	3450	3290	3150
75x50x3.0RHS	5.42	4260	3910	3660	3450	3260	3100	2980
75x50x2.5RHS	4.58	4130	3780	3530	3290	3110	2960	2840
75x50x2.0RHS	3.72	3970	3630	3330	3100	2930	2790	2670
75x50x1.6RHS	3.01	3450	3130	2900	2710	2560	2440	2330

ROOF - Steel Sheeting only

Maximum Strutting Beam Span (mm)

SINGLE SPAN



DuraGal® Section	Mass kg/m	Effective Load Width (mm)						
		1200	1800	2400	3000	3600	4200	4800
300x90x8.0CC	28.5	11190	10620	10170	9810	9500	9230	9000
300x90x7.0CC	25.1	10980	10390	9930	9560	9250	8980	8750
300x90x6.0CC	21.6	10690	10080	9610	9230	8920	8650	8420
250x90x6.0CC	19.2	9690	9110	8670	8320	8030	7790	7580
230x75x6.0CC	16.9	9140	8570	8140	7800	7520	7290	7080
200x75x6.0CC	15.5	8480	7930	7520	7200	6940	6720	6530
200x75x5.0CC	12.4	8080	7520	7120	6800	6540	6330	6050
180x75x5.0CC	11.6	7630	7090	6700	6400	6160	5950	5610
150x75x5.0CC	10.5	6900	6400	6040	5770	5540	5270	4930
125x65x4.0CC	7.23	5870	5410	5090	4690	4270	3950	3700
100x50x4.0CC	5.59	5040	4630	4300	3840	3510	3240	3030
75x40x4.0CC	4.25	4160	3800	3340	2980	2720	2520	2360
2/300x90x8.0CC	57.0	11950	11540	11190	10890	10620	10390	10170
2/300x90x7.0CC	50.1	11790	11350	10980	10670	10390	10150	9930
2/300x90x6.0CC	43.2	11550	11080	10690	10360	10080	9830	9610
2/250x90x6.0CC	38.5	10520	10070	9690	9380	9110	8880	8670
2/230x75x6.0CC	33.8	9980	9520	9140	8830	8570	8340	8140
2/200x75x6.0CC	31.0	9290	8840	8480	8180	7930	7710	7520
2/200x75x5.0CC	24.7	8940	8460	8080	7780	7520	7310	7120
2/180x75x5.0CC	23.3	8460	7990	7630	7330	7090	6880	6700
2/150x75x5.0CC	21.0	7680	7240	6900	6630	6400	6210	6040
2/125x65x4.0CC	14.5	6630	6190	5870	5620	5410	5240	5090
2/100x50x4.0CC	11.2	5750	5340	5040	4820	4630	4480	4300
2/75x40x4.0CC	8.49	4780	4410	4160	3960	3800	3570	3340
150x50x6.0RHS	16.7	6930	6490	6170	5910	5700	5520	5370
150x50x5.0RHS	14.2	6810	6360	6030	5770	5550	5380	5220
150x50x4.0RHS	11.6	6640	6170	5840	5570	5360	5180	5030
150x50x3.0RHS	8.96	6400	5920	5580	5320	5110	4930	4790
150x50x2.5RHS	7.53	6220	5730	5390	5130	4930	4760	4410
150x50x2.0RHS	6.07	5980	5490	5160	4550	4080	3710	3420
125x75x6.0RHS	16.7	6600	6180	5870	5630	5430	5260	5110
125x75x5.0RHS	14.2	6480	6050	5740	5490	5290	5120	4970
125x75x4.0RHS	11.6	6310	5870	5550	5300	5100	4930	4780
125x75x3.0RHS	8.96	6080	5620	5300	5050	4850	4670	4340
125x75x2.5RHS	7.53	5900	5440	5120	4700	4260	3920	3640
125x75x2.0RHS	6.07	5670	5040	4290	3790	3420	3130	2900
100x50x6.0RHS	12.0	5450	5070	4790	4580	4400	4260	4130
100x50x5.0RHS	10.3	5360	4970	4690	4480	4300	4160	4040
100x50x4.0RHS	8.49	5220	4830	4550	4330	4160	4020	3900
100x50x3.5RHS	7.53	5130	4730	4450	4240	4070	3930	3700
100x50x3.0RHS	6.60	5040	4640	4360	4140	3980	3730	3490
100x50x2.5RHS	5.56	4890	4490	4210	4000	3720	3440	3220
100x50x2.0RHS	4.50	4700	4300	4030	3650	3330	3080	2880
75x50x6.0RHS	9.67	4580	4240	4000	3820	3670	3530	3390
75x50x5.0RHS	8.35	4520	4170	3930	3740	3590	3430	3290
75x50x4.0RHS	6.92	4410	4060	3820	3630	3450	3290	3110
75x50x3.0RHS	5.42	4260	3910	3660	3450	3230	2990	2790
75x50x2.5RHS	4.58	4130	3780	3530	3270	2980	2760	2580
75x50x2.0RHS	3.72	3970	3630	3280	2930	2680	2480	2320
75x50x1.6RHS	3.01	3450	3130	2750	2460	2240	2070	1940

STRUTTING BEAM

ROOF BATTENS

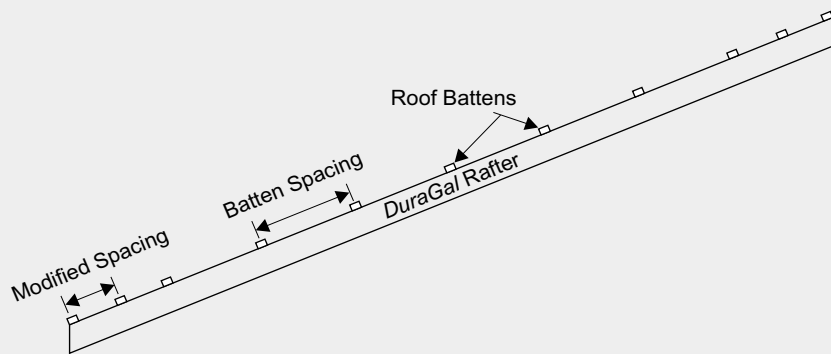
Applied loads and deflection limits used to generate the tables on pages 37 to 43.

ROOF	LOAD		DEFLECTION (mm)	
	Dead Load (G) (kPa)	Live Load (Q) (kN)	Dead Load (G)	Live Load (Q = 1.1kN)
Masonry Tiles only	0.53*	1.1	Span / 300	Span / 180
Steel Sheeting only	0.04*			

* Superimposed Dead Loads are along the pitch of the roof.

Tables are produced for

- Enclosed - Area under battens is assumed to be enclosed by ceiling that is supported by other members. Roof battens are assumed to support roofing loads and to resist external wind load only; $C_{p,n} = -0.9$
- Verandah (pitch 0° to 20°) - Verandah Roof without ceiling with Roof pitch as shown For wind load calculations $C_{p,n} = -1.6$
- Verandah (pitch > 20° to 35°) - Verandah Roof without ceiling with Roof pitch as shown For wind load calculations $C_{p,n} = -1.1$



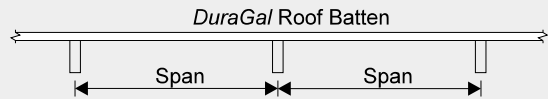
Note:
For Battens within 1200mm of edges, the spacing of the battens should be reduced by factors shown in the table below:

LOAD CASE		Modification Factor
Masonry Tiles	Enclosed Roof	1.00
	Verandah Roof (pitch 0° to 20°)	0.85
	Verandah Roof (pitch > 20° to 35°)	1.00
Steel Sheeting	Enclosed Roof	0.50
	Verandah Roof (pitch 0° to 20°)	0.60
	Verandah Roof (pitch > 20° to 35°)	0.55

ROOF - Masonry Tiles only - Enclosed* / Verandah

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN



DuraGal® Section	Mass kg/m	Batten Spacing (mm)		DuraGal Section	Mass kg/m	Batten Spacing (mm)	
		330	330			330	330
50x75x1.6RHS	3.01	3310		50x50x1.6SHS	2.38	2800	
25x75x2.5RHS	3.60	1800		40x40x4.0SHS	4.09	2650	
25x75x2.0RHS	2.93	1660		40x40x3.0SHS	3.30	2500	
25x75x1.6RHS	2.38	1520		40x40x2.5SHS	2.82	2340	
35x65x4.0RHS	5.35	2870		40x40x2.0SHS	2.31	2150	
35x65x3.0RHS	4.25	2660		40x40x1.6SHS	1.88	1970	
35x65x2.5RHS	3.60	2490		35x35x3.0SHS	2.83	1990	
35x65x2.0RHS	2.93	2280		35x35x2.5SHS	2.42	1880	
25x50x3.0RHS	3.07	1570		35x35x2.0SHS	1.99	1740	
25x50x2.5RHS	2.62	1480		35x35x1.6SHS	1.63	1590	
25x50x2.0RHS	2.15	1370		30x30x2.5SHS	2.03	1450	
25x50x1.6RHS	1.75	1260		30x30x2.0SHS	1.68	1350	
20x50x3.0RHS	2.83	1190		30x30x1.6SHS	1.38	1240	
20x50x2.5RHS	2.42	1130		25x25x3.0SHS	1.89	1110	
20x50x2.0RHS	1.99	1060		25x25x2.5SHS	1.64	1060	
20x50x1.6RHS	1.63	980		25x25x2.0SHS	1.36	1000	
				25x25x1.6SHS	1.12	920	
				20x20x1.6SHS	0.87	640	

* Area under battens is assumed to be enclosed by ceiling that is supported by other members. The wind load used to generate tables are those resulting from external pressure only.

ROOF - Steel Sheeting only - Enclosed*



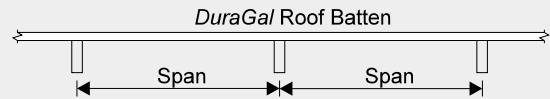
DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x75x1.6RHS	3.01	3310	3310	3310	3310	3060
25x75x2.5RHS	3.60	1800	1800	1800	1800	1800
25x75x2.0RHS	2.93	1660	1660	1660	1660	1660
25x75x1.6RHS	2.38	1520	1520	1520	1520	1520
35x65x4.0RHS	5.35	2870	2870	2870	2870	2870
35x65x3.0RHS	4.25	2660	2660	2660	2660	2660
35x65x2.5RHS	3.60	2490	2490	2490	2490	2490
35x65x2.0RHS	2.93	2280	2280	2280	2280	2280
25x50x3.0RHS	3.07	1570	1570	1570	1570	1570
25x50x2.5RHS	2.62	1480	1480	1480	1480	1480
25x50x2.0RHS	2.15	1370	1370	1370	1370	1370
25x50x1.6RHS	1.75	1260	1260	1260	1260	1260
20x50x3.0RHS	2.83	1190	1190	1190	1190	1190
20x50x2.5RHS	2.42	1130	1130	1130	1130	1130
20x50x2.0RHS	1.99	1060	1060	1060	1060	1060
20x50x1.6RHS	1.63	980	980	980	980	980
50x50x2.0SHS	2.93	3080	3080	3080	3080	3080
50x50x1.6SHS	2.38	2800	2800	2800	2800	2800
40x40x4.0SHS	4.09	2650	2650	2650	2650	2650
40x40x3.0SHS	3.30	2500	2500	2500	2500	2500
40x40x2.5SHS	2.82	2340	2340	2340	2340	2340
40x40x2.0SHS	2.31	2150	2150	2150	2150	2150
40x40x1.6SHS	1.88	1970	1970	1970	1970	1970
35x35x3.0SHS	2.83	1990	1990	1990	1990	1990
35x35x2.5SHS	2.42	1880	1880	1880	1880	1880
35x35x2.0SHS	1.99	1740	1740	1740	1740	1740
35x35x1.6SHS	1.63	1590	1590	1590	1590	1590
30x30x2.5SHS	2.03	1450	1450	1450	1450	1450
30x30x2.0SHS	1.68	1350	1350	1350	1350	1350
30x30x1.6SHS	1.38	1240	1240	1240	1240	1240
25x25x3.0SHS	1.89	1110	1110	1110	1110	1110
25x25x2.5SHS	1.64	1060	1060	1060	1060	1060
25x25x2.0SHS	1.36	1000	1000	1000	1000	1000
25x25x1.6SHS	1.12	920	920	920	920	920
20x20x1.6SHS	0.87	640	640	640	640	640

* Area under battens is assumed to be enclosed by ceiling that is supported by other members. The wind load used to generate tables are those resulting from external pressure only.

ROOF - Steel Sheeting only - Enclosed*

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN



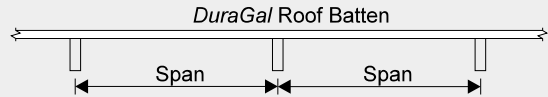
DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x150x2.0RHS	6.07	4650	4010	3570	3260	3010
50x100x2.0RHS	4.50	4140	3910	3490	3180	2940
50x 75 x2.0RHS	3.72	3650	3650	3420	3120	2890
50x 75 x1.6RHS	3.01	3310	3220	2880	2620	2430
25x 75 x2.5RHS	3.60	1800	1800	1800	1800	1800
25x 75 x2.0RHS	2.93	1660	1660	1660	1660	1660
25x 75 x1.6RHS	2.38	1520	1520	1520	1520	1520
35x 65 x4.0RHS	5.35	2870	2870	2870	2870	2870
35x 65 x3.0RHS	4.25	2660	2660	2660	2660	2660
35x 65 x2.5RHS	3.60	2490	2490	2490	2490	2490
35x 65 x2.0RHS	2.93	2280	2280	2280	2280	2270
25x 50 x3.0RHS	3.07	1570	1570	1570	1570	1570
25x 50 x2.5RHS	2.62	1480	1480	1480	1480	1480
25x 50 x2.0RHS	2.15	1370	1370	1370	1370	1370
25x 50 x1.6RHS	1.75	1260	1260	1260	1260	1260
20x 50 x3.0RHS	2.83	1190	1190	1190	1190	1190
20x 50 x2.5RHS	2.42	1130	1130	1130	1130	1130
20x 50 x2.0RHS	1.99	1060	1060	1060	1060	1060
20x 50 x1.6RHS	1.63	980	980	980	980	980
65x 65 x1.6SHS	3.13	4210	3810	3400	3100	2870
50x 50 x2.5SHS	3.60	3370	3370	3370	3330	3080
50x 50 x2.0SHS	2.93	3080	3080	3080	3000	2780
50x 50 x1.6SHS	2.38	2800	2800	2790	2550	2360
40x 40 x4.0SHS	4.09	2650	2650	2650	2650	2650
40x 40 x3.0SHS	3.30	2500	2500	2500	2500	2500
40x 40 x2.5SHS	2.82	2340	2340	2340	2340	2340
40x 40 x2.0SHS	2.31	2150	2150	2150	2150	2150
40x 40 x1.6SHS	1.88	1970	1970	1970	1970	1970
35x 35 x3.0SHS	2.83	1990	1990	1990	1990	1990
35x 35 x2.5SHS	2.42	1880	1880	1880	1880	1880
35x 35 x2.0SHS	1.99	1740	1740	1740	1740	1740
35x 35 x1.6SHS	1.63	1590	1590	1590	1590	1590
30x 30 x2.5SHS	2.03	1450	1450	1450	1450	1450
30x 30 x2.0SHS	1.68	1350	1350	1350	1350	1350
30x 30 x1.6SHS	1.38	1240	1240	1240	1240	1240
25x 25 x3.0SHS	1.89	1110	1110	1110	1110	1110
25x 25 x2.5SHS	1.64	1060	1060	1060	1060	1060
25x 25 x2.0SHS	1.36	1000	1000	1000	1000	1000
25x 25 x1.6SHS	1.12	920	920	920	920	920
20x 20 x1.6SHS	0.87	640	640	640	640	640

* Area under battens is assumed to be enclosed by ceiling that is supported by other members. The wind load used to generate tables are those resulting from external pressure only.

ROOF - Steel Sheeting only - Verandah 0° to 20° Pitch

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN

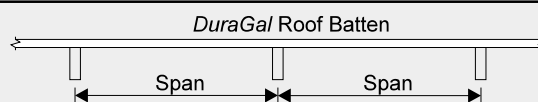


DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x150x2.0RHS	6.07	4350	3750	3350	3050	2820
50x100x2.0RHS	4.50	4140	3660	3270	2980	2760
50x 75 x2.0RHS	3.72	3650	3590	3210	2920	2700
50x 75 x1.6RHS	3.01	3310	3020	2690	2460	2270
25x 75 x2.5RHS	3.60	1800	1800	1800	1800	1800
25x 75 x2.0RHS	2.93	1660	1660	1660	1660	1660
25x 75 x1.6RHS	2.38	1520	1520	1520	1520	1440
35x 65 x4.0RHS	5.35	2870	2870	2870	2870	2870
35x 65 x3.0RHS	4.25	2660	2660	2660	2660	2660
35x 65 x2.5RHS	3.60	2490	2490	2490	2490	2480
35x 65 x2.0RHS	2.93	2280	2280	2280	2280	2120
25x 50 x3.0RHS	3.07	1570	1570	1570	1570	1570
25x 50 x2.5RHS	2.62	1480	1480	1480	1480	1480
25x 50 x2.0RHS	2.15	1370	1370	1370	1370	1370
25x 50 x1.6RHS	1.75	1260	1260	1260	1260	1260
20x 50 x3.0RHS	2.83	1190	1190	1190	1190	1190
20x 50 x2.5RHS	2.42	1130	1130	1130	1130	1130
20x 50 x2.0RHS	1.99	1060	1060	1060	1060	1060
20x 50 x1.6RHS	1.63	980	980	980	980	980
65x 65 x1.6SHS	3.13	4130	3570	3190	2910	2690
50x 50 x2.5SHS	3.60	3370	3370	3370	3120	2890
50x 50 x2.0SHS	2.93	3080	3080	3080	2820	2610
50x 50 x1.6SHS	2.38	2800	2800	2620	2390	2210
40x 40 x4.0SHS	4.09	2650	2650	2650	2650	2640
40x 40 x3.0SHS	3.30	2500	2500	2500	2500	2430
40x 40 x2.5SHS	2.82	2340	2340	2340	2340	2260
40x 40 x2.0SHS	2.31	2150	2150	2150	2150	2060
40x 40 x1.6SHS	1.88	1970	1970	1970	1970	1860
35x 35 x3.0SHS	2.83	1990	1990	1990	1990	1990
35x 35 x2.5SHS	2.42	1880	1880	1880	1880	1880
35x 35 x2.0SHS	1.99	1740	1740	1740	1740	1740
35x 35 x1.6SHS	1.63	1590	1590	1590	1590	1590
30x 30 x2.5SHS	2.03	1450	1450	1450	1450	1450
30x 30 x2.0SHS	1.68	1350	1350	1350	1350	1350
30x 30 x1.6SHS	1.38	1240	1240	1240	1240	1240
25x 25 x3.0SHS	1.89	1110	1110	1110	1110	1110
25x 25 x2.5SHS	1.64	1060	1060	1060	1060	1060
25x 25 x2.0SHS	1.36	1000	1000	1000	1000	1000
25x 25 x1.6SHS	1.12	920	920	920	920	920
20x 20 x1.6SHS	0.87	640	640	640	640	640

ROOF - Steel Sheeting only - Verandah 0° to 20° Pitch

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN



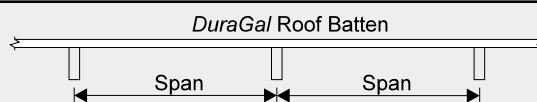
DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x150x2.5RHS	7.53	4120	3560	3170	2890	2680
50x150x2.0RHS	6.07	3450	2980	2660	2420	2240
75x125x2.0RHS	6.07	4490	3880	3470	3160	2920
50x100x2.5RHS	5.56	4020	3470	3100	2830	2610
50x100x2.0RHS	4.50	3360	2910	2600	2370	2190
50x 75 x3.0RHS	5.42	4310	3840	3430	3130	2890
50x 75 x2.5RHS	4.58	3920	3390	3030	2760	2550
50x 75 x2.0RHS	3.72	3300	2850	2550	2330	2150
50x 75 x1.6RHS	3.01	2770	2400	2140	1960	1810
25x 75 x2.5RHS	3.60	1800	1800	1800	1760	1630
25x 75 x2.0RHS	2.93	1660	1660	1630	1480	1370
25x 75 x1.6RHS	2.38	1520	1520	1360	1240	1150
35x 65 x4.0RHS	5.35	2870	2870	2810	2570	2370
35x 65 x3.0RHS	4.25	2660	2660	2560	2330	2160
35x 65 x2.5RHS	3.60	2490	2490	2340	2130	1970
35x 65 x2.0RHS	2.93	2280	2240	2000	1830	1690
25x 50 x3.0RHS	3.07	1570	1570	1570	1570	1530
25x 50 x2.5RHS	2.62	1480	1480	1480	1480	1430
25x 50 x2.0RHS	2.15	1370	1370	1370	1370	1300
25x 50 x1.6RHS	1.75	1260	1260	1260	1210	1120
20x 50 x3.0RHS	2.83	1190	1190	1190	1190	1190
20x 50 x2.5RHS	2.42	1130	1130	1130	1130	1130
20x 50 x2.0RHS	1.99	1060	1060	1060	1060	1060
20x 50 x1.6RHS	1.63	980	980	980	980	970
75x 75 x2.0SHS	4.50	4330	3740	3340	3050	2820
65x 65 x2.5SHS	4.78	4600	3970	3550	3240	3000
65x 65 x2.0SHS	3.88	3890	3360	3000	2740	2530
65x 65 x1.6SHS	3.13	3280	2840	2540	2310	2140
50x 50 x5.0SHS	6.39	4150	3910	3490	3180	2940
50x 50 x4.0SHS	5.35	3910	3630	3240	2950	2730
50x 50 x3.0SHS	4.25	3610	3290	2940	2680	2480
50x 50 x2.5SHS	3.60	3370	3050	2720	2480	2300
50x 50 x2.0SHS	2.93	3080	2750	2460	2240	2070
50x 50 x1.6SHS	2.38	2700	2330	2080	1900	1760
40x 40 x4.0SHS	4.09	2650	2650	2490	2270	2100
40x 40 x3.0SHS	3.30	2500	2500	2290	2090	1940
40x 40 x2.5SHS	2.82	2340	2340	2130	1950	1800
40x 40 x2.0SHS	2.31	2150	2150	1950	1780	1640
40x 40 x1.6SHS	1.88	1970	1960	1760	1600	1480
35x 35 x3.0SHS	2.83	1990	1990	1970	1800	1660
35x 35 x2.5SHS	2.42	1880	1880	1840	1680	1550
35x 35 x2.0SHS	1.99	1740	1740	1680	1540	1420
35x 35 x1.6SHS	1.63	1590	1590	1530	1400	1290
30x 30 x2.5SHS	2.03	1450	1450	1450	1410	1310
30x 30 x2.0SHS	1.68	1350	1350	1350	1300	1200
30x 30 x1.6SHS	1.38	1240	1240	1240	1180	1100
25x 25 x3.0SHS	1.89	1110	1110	1110	1110	1110
25x 25 x2.5SHS	1.64	1060	1060	1060	1060	1060
25x 25 x2.0SHS	1.36	1000	1000	1000	1000	980
25x 25 x1.6SHS	1.12	920	920	920	920	900
20x 20 x1.6SHS	0.87	640	640	640	640	640

ROOF BATTEN

ROOF - Steel Sheeting only - Verandah > 20° to 35° Pitch

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN

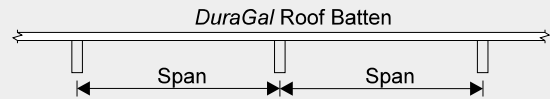


DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x75x1.6RHS	3.01	3310	3310	3270	2980	2750
25x75x2.5RHS	3.60	1800	1800	1800	1800	1800
25x75x2.0RHS	2.93	1660	1660	1660	1660	1660
25x75x1.6RHS	2.38	1520	1520	1520	1520	1520
35x65x4.0RHS	5.35	2870	2870	2870	2870	2870
35x65x3.0RHS	4.25	2660	2660	2660	2660	2660
35x65x2.5RHS	3.60	2490	2490	2490	2490	2490
35x65x2.0RHS	2.93	2280	2280	2280	2280	2280
25x50x3.0RHS	3.07	1570	1570	1570	1570	1570
25x50x2.5RHS	2.62	1480	1480	1480	1480	1480
25x50x2.0RHS	2.15	1370	1370	1370	1370	1370
25x50x1.6RHS	1.75	1260	1260	1260	1260	1260
20x50x3.0RHS	2.83	1190	1190	1190	1190	1190
20x50x2.5RHS	2.42	1130	1130	1130	1130	1130
20x50x2.0RHS	1.99	1060	1060	1060	1060	1060
20x50x1.6RHS	1.63	980	980	980	980	980
50x50x2.0SHS	2.93	3080	3080	3080	3080	3080
50x50x1.6SHS	2.38	2800	2800	2800	2800	2680
40x40x4.0SHS	4.09	2650	2650	2650	2650	2650
40x40x3.0SHS	3.30	2500	2500	2500	2500	2500
40x40x2.5SHS	2.82	2340	2340	2340	2340	2340
40x40x2.0SHS	2.31	2150	2150	2150	2150	2150
40x40x1.6SHS	1.88	1970	1970	1970	1970	1970
35x35x3.0SHS	2.83	1990	1990	1990	1990	1990
35x35x2.5SHS	2.42	1880	1880	1880	1880	1880
35x35x2.0SHS	1.99	1740	1740	1740	1740	1740
35x35x1.6SHS	1.63	1590	1590	1590	1590	1590
30x30x2.5SHS	2.03	1450	1450	1450	1450	1450
30x30x2.0SHS	1.68	1350	1350	1350	1350	1350
30x30x1.6SHS	1.38	1240	1240	1240	1240	1240
25x25x3.0SHS	1.89	1110	1110	1110	1110	1110
25x25x2.5SHS	1.64	1060	1060	1060	1060	1060
25x25x2.0SHS	1.36	1000	1000	1000	1000	1000
25x25x1.6SHS	1.12	920	920	920	920	920
20x20x1.6SHS	0.87	640	640	640	640	640

ROOF - Steel Sheeting only - Verandah > 20° to 35° Pitch

Maximum Roof Batten Span (mm)

CONTINUOUS SPAN

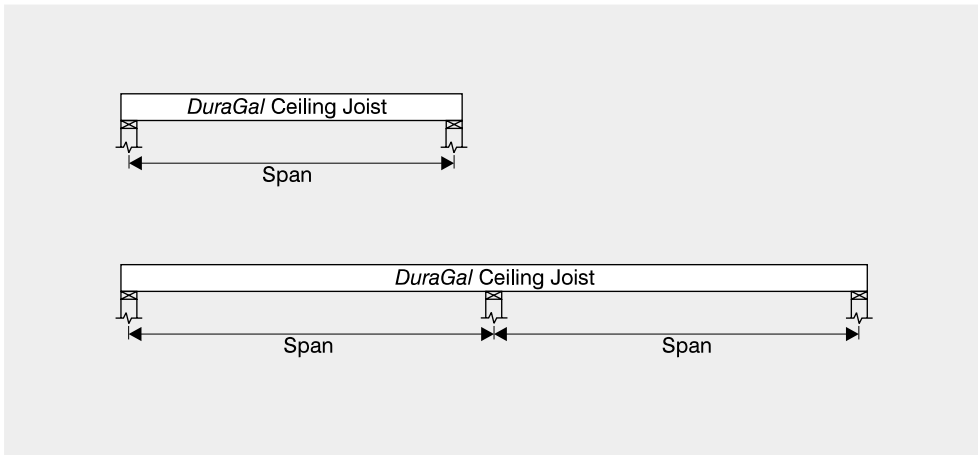


DuraGal® Section	Mass kg/m	Batten Spacing (mm)				
		900	1200	1500	1800	2100
50x150x2.0RHS	6.07	4190	3610	3220	2940	2710
50x100x2.0RHS	4.50	4080	3520	3140	2870	2650
50x 75 x2.0RHS	3.72	3650	3450	3090	2810	2600
50x 75 x1.6RHS	3.01	3310	2900	2590	2370	2190
25x 75 x2.5RHS	3.60	1800	1800	1800	1800	1800
25x 75 x2.0RHS	2.93	1660	1660	1660	1660	1660
25x 75 x1.6RHS	2.38	1520	1520	1520	1500	1390
35x 65 x4.0RHS	5.35	2870	2870	2870	2870	2870
35x 65 x3.0RHS	4.25	2660	2660	2660	2660	2610
35x 65 x2.5RHS	3.60	2490	2490	2490	2490	2390
35x 65 x2.0RHS	2.93	2280	2280	2280	2210	2040
25x 50 x3.0RHS	3.07	1570	1570	1570	1570	1570
25x 50 x2.5RHS	2.62	1480	1480	1480	1480	1480
25x 50 x2.0RHS	2.15	1370	1370	1370	1370	1370
25x 50 x1.6RHS	1.75	1260	1260	1260	1260	1260
20x 50 x3.0RHS	2.83	1190	1190	1190	1190	1190
20x 50 x2.5RHS	2.42	1130	1130	1130	1130	1130
20x 50 x2.0RHS	1.99	1060	1060	1060	1060	1060
20x 50 x1.6RHS	1.63	980	980	980	980	980
65x 65 x1.6SHS	3.13	3980	3440	3070	2800	2590
50x 50 x3.0SHS	4.25	3610	3610	3560	3240	3000
50x 50 x2.5SHS	3.60	3370	3370	3300	3010	2780
50x 50 x2.0SHS	2.93	3080	3080	2970	2710	2510
50x 50 x1.6SHS	2.38	2800	2800	2520	2300	2130
40x 40 x4.0SHS	4.09	2650	2650	2650	2650	2540
40x 40 x3.0SHS	3.30	2500	2500	2500	2500	2340
40x 40 x2.5SHS	2.82	2340	2340	2340	2340	2180
40x 40 x2.0SHS	2.31	2150	2150	2150	2150	1990
40x 40 x1.6SHS	1.88	1970	1970	1970	1940	1790
35x 35 x3.0SHS	2.83	1990	1990	1990	1990	1990
35x 35 x2.5SHS	2.42	1880	1880	1880	1880	1880
35x 35 x2.0SHS	1.99	1740	1740	1740	1740	1720
35x 35 x1.6SHS	1.63	1590	1590	1590	1590	1560
30x 30 x2.5SHS	2.03	1450	1450	1450	1450	1450
30x 30 x2.0SHS	1.68	1350	1350	1350	1350	1350
30x 30 x1.6SHS	1.38	1240	1240	1240	1240	1240
25x 25 x3.0SHS	1.89	1110	1110	1110	1110	1110
25x 25 x2.5SHS	1.64	1060	1060	1060	1060	1060
25x 25 x2.0SHS	1.36	1000	1000	1000	1000	1000
25x 25 x1.6SHS	1.12	920	920	920	920	920
20x 20 x1.6SHS	0.87	640	640	640	640	640

CEILING JOISTS

Applied loads and deflection limits used to generate the table on page 45.

ROOF	LOAD		DEFLECTION (mm)	
	Dead Load (G) (kPa)	Live Load (Q) (kN)	Dead Load (G)	Live Load (Q = 1.1kN)
Ceiling only	0.13	1.1	Span / 300 to 12mm	Span / 270 to 15mm



CEILING only

Maximum Ceiling-Joist Span (mm)

The diagram illustrates two configurations for a DuraGal Ceiling Joist. The first shows a single span between two supports. The second shows a continuous span supported by three points, creating two equal spans.

DuraGal® Section	Mass kg/m	Ceiling Joist Spacing* (mm) for					
		SINGLE SPAN			CONTINUOUS SPAN		
		450	600	900	450	600	900
300x90x8.0CC	28.5	12460	12280	11970	14600	14400	14030
300x90x7.0CC	25.1	12340	12150	11810	14470	14250	13850
300x90x6.0CC	21.6	12150	11940	11570	14240	14000	13560
250x90x6.0CC	19.2	11120	10910	10550	13040	12790	12360
230x75x6.0CC	16.9	10610	10390	10010	12430	12170	11730
200x75x6.0CC	15.5	9900	9690	9310	11610	11350	10920
200x75x5.0CC	12.4	9630	9380	8970	11280	10990	10510
180x75x5.0CC	11.6	9130	8890	8490	10550	10420	9950
150x75x5.0CC	10.5	8200	8090	7710	9130	9130	9030
125x65x4.0CC	7.23	6400	6400	6400	7120	7120	7120
100x50x4.0CC	5.59	5140	5140	5140	5720	5720	5720
75x40x4.0CC	4.25	3840	3840	3840	4350	4350	4350
150x50x6.0RHS	16.7	8040	7880	7590	9430	9230	8890
150x50x5.0RHS	14.2	8020	7830	7510	9290	9180	8810
150x50x4.0RHS	11.6	7880	7740	7390	8770	8770	8660
150x50x3.0RHS	8.96	7310	7310	7200	8140	8140	8140
150x50x2.5RHS	7.53	6930	6930	6930	7710	7710	7710
150x50x2.0RHS	6.07	6480	6480	6480	7210	7210	7210
125x75x6.0RHS	16.7	7660	7500	7230	8980	8790	8470
125x75x5.0RHS	14.2	7630	7450	7150	8700	8700	8380
125x75x4.0RHS	11.6	7370	7360	7030	8200	8200	8200
125x75x3.0RHS	8.96	6820	6820	6820	7600	7600	7600
125x75x2.5RHS	7.53	6470	6470	6470	7200	7200	7200
125x75x2.0RHS	6.07	6040	6040	6040	6730	6730	6730
100x50x6.0RHS	12.0	6070	6070	6050	6760	6760	6760
100x50x5.0RHS	10.3	5850	5850	5850	6510	6510	6510
100x50x4.0RHS	8.49	5550	5550	5550	6180	6180	6180
100x50x3.5RHS	7.53	5370	5370	5370	5980	5980	5980
100x50x3.0RHS	6.60	5180	5180	5180	5770	5770	5770
100x50x2.5RHS	5.56	4920	4920	4920	5480	5480	5480
100x50x2.0RHS	4.50	4610	4610	4610	5140	5140	5140
75x50x6.0RHS	9.67	4710	4710	4710	5250	5250	5250
75x50x5.0RHS	8.35	4560	4560	4560	5080	5080	5080
75x50x4.0RHS	6.92	4350	4350	4350	4850	4850	4850
75x50x3.0RHS	5.42	4090	4090	4090	4550	4550	4550
75x50x2.5RHS	4.58	3810	3810	3810	4330	4330	4330
75x50x2.0RHS	3.72	3470	3470	3470	4060	4060	4060
75x50x1.6RHS	3.01	3140	3140	3140	3690	3690	3690
75x25x2.5RHS	3.60	3040	3040	3040	3570	3570	3570
75x25x2.0RHS	2.93	2780	2780	2780	3260	3260	3260
75x25x1.6RHS	2.38	2530	2530	2530	2970	2970	2970
65x35x4.0RHS	5.35	3260	3260	3260	3830	3830	3830
65x35x3.0RHS	4.25	3010	3010	3010	3540	3540	3540
65x35x2.5RHS	3.60	2810	2810	2810	3300	3300	3300
65x35x2.0RHS	2.93	2570	2570	2570	3020	3020	3020
50x25x3.0RHS	3.07	1900	1900	1900	2230	2230	2230
50x25x2.5RHS	2.62	1790	1790	1790	2100	2100	2100
50x25x2.0RHS	2.15	1650	1650	1650	1930	1930	1930
50x25x1.6RHS	1.75	1510	1510	1510	1770	1770	1770
50x20x3.0RHS	2.83	1750	1750	1750	2060	2060	2060
50x20x2.5RHS	2.42	1660	1660	1660	1940	1940	1940
50x20x2.0RHS	1.99	1530	1530	1530	1800	1800	1800
50x20x1.6RHS	1.63	1400	1400	1400	1650	1650	1650

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