

VULCAN.
Carefully
crafted
timber.

SPAN TABLES



Page 1 of 19

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STRUCTURAL CERTIFICATION

SPAN TABLES FOR ABODO WOOD

Incorporating span tables for:
Verandah beams, rafters and posts – GL8 grade.

I, David J King, being a Chartered Professional Engineer and currently holding an Annual Practising Certificate, certify that the span tables have been prepared using widely accepted engineering principles.

Design loading criteria has been determined from AS/NZS 1170.0:2002, AS/NZS 1170.1:2002 *Structural Design Actions* along AS1720.3.2016 *Design Criteria for timber framed residential buildings*.

Structural design is to the requirements of AS1720.1:2010.1 *Timber Structures - Design methods*.



David King

ME (civil) CMEngNZ
CPEng (no. 145511) New Zealand
IntPE (NZ)

9 March 2018



Vulcan Technical Data

Wood Species	Thermally Modified Timber (Pinus Radiata)
Quality	Superior Grade virtually clear, some minor small characteristics allowed
Construction	Laminated with vertical grain orientation (quartersawn) to the width
Treatment	Thermally modified to TM230 schedule and H3 LOSP Treated or H3 OPX Azole Treated per AS 1604
Source	New Zealand - plantation grown and manufactured in the North Island
Certification	Vulcan is produced from FSC® Certified Forests and Austim holds FSC® Chain of Custody Certification
Glueline	Purbond HBS. New generation polyurethane adhesive Type 1 – AS/NZS1328
Moisture Content	Approx. 7% MC (+/-2%)
Density	430-450 kg/m ³
Hardness	Medium-low (3.5kN Janka)
Thermal Properties	approx 0.099 W/Mk / R1.35 per 25mm thickness
Compatibility	Use hot dipped galvanised or stainless steel fixings for exterior applications
Gluing	Normal PVA, PU, MUF glues and RF resins can be used
Ph (indicative)	3.9
Serviceable Life	30 years or more when properly maintained in above ground applications
Appearance	Fine bandsawn or dressed smooth. We recommend fine bandsawn finish externally, whilst either finish is suitable internally
Warranty	25-year limited warranty against rot, fungal decay and termite attack
Safety	Wear a dust mask and eye protection when cutting timber. Do not burn Vulcan timber. Dispose of off-cuts in lined landfill or an approved furnace.
Coatings	<p>Vulcan is available with one factory applied coat of Protector Oil (7 colours) to all sides saving both time and money, a second coat applied on-site is required following installation.</p> <p>Newly available is SiOO:X a factory applied new age coating system utilising nature to form a hard silicon based shell on the timber. The timber will weather very quickly and uniformly to a beautiful natural weathered colour and stay protected for up to 15 years.</p>
Special Notes	<p>These Span Tables are for use with Vulcan Thermally Modified Wood Products Only. A maximum roof pitch of 25 degrees is allowed for.</p> <p>Design assumes timber which remains dry in service.</p> <p>Design is in accordance with AS1720.1-2010 and AS1720.3-2016</p> <p>Construction details to be in accordance with AS1684.2 Residential Framed Construction.</p>

Installation Guide

On Site Handling

1. All Vulcan products should be stored on evenly supported blocks or dunnage at least 75mm above ground allowing for good drainage and ventilation
2. All *Vulcan* products should be kept dry by securely covering with a suitable weather proof plastic or tarpaulin
3. All *Vulcan* products should be handled with care to ensure that the finished surfaces are not damaged also they should not be dropped, jarred or dragged as this may adversely affect their performance

Design

1. Joint detailing, where possible, should follow the below principles;
 - Horizontal contact areas should be kept to a minimum in favour of self-draining vertical surfaces
 - Use only compatible fasteners that have adequate corrosion resistance and do not cause splitting when installed (eg stainless steel or hot dipped galvanized steel)
 - Wherever possible joint surfaces should be ventilated using spacers
 - Ensure that all joints have adequate drainage for any moisture that enters, so that moisture is not trapped in the joint
 - Make allowance for any thermal expansion and contraction in the joint design
2. The use of damp proof membranes is highly recommended where the product is in contact with porous materials like masonry and/or concrete
3. The use of rounded or arrised edges on all posts and beams is recommended, this reduces the chance of any coating failures on sharp square edges
4. All beams and posts should be installed with allowances for adequate ventilation and should be installed so that the moisture content within the product does not exceed 15% so that moisture gradients across the beam will not occur
5. The use of building overhangs, like eaves and/or other structures which protect the posts and/or beams from direct sun exposure and high levels of moisture movement is highly recommended
6. Shielding of the products in weather exposed applications is highly recommended by using metal, plastic or fibro to protect the products and keep them in a dry unstressed condition
7. In weather exposed applications beams should be installed with drip edges and end capping and posts should also have appropriate drainage. Exposed ends of posts must also have capping installed to prevent splitting on the end grain
8. Holes in Vulcan beams for services should be avoided, if unavoidable seek advice from a suitable qualified Structural Engineer.
9. Notches/Birds Mouthing can seriously reduce the strength of a beam, particularly if located in the tension zone. Notches/Birds Mouthing is not recommended, advice from a suitably qualified structural engineer is required
10. Beams should always be supported from the underside of the member, if installed butting up to the supporting structure then suitable framing brackets or custom made brackets should be used for all connections as per diagram 5
11. Allowance should be made on site that **ALL** surfaces of Beams, Posts and Handrails (including the end grain and any concealed joints) be primed/sealed and/or coated prior to installation

Coating

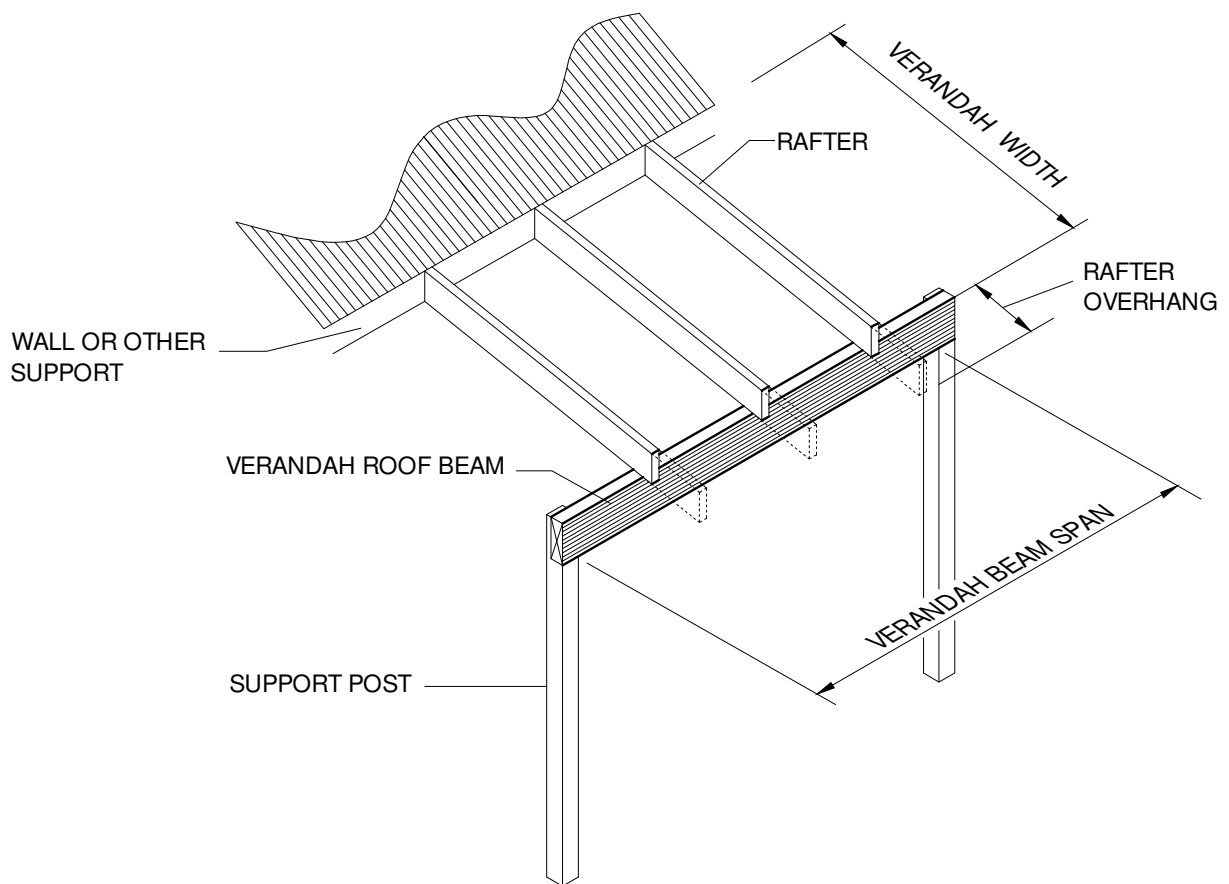
1. Oiling/Staining - One coat of quality protector penetrating oil is to be applied to all surfaces **prior** to the installation of the product
 - Following installation a further coat of penetrating oil is required as per the oil manufacturers recommendations

Further to the initial coating an **ongoing inspection and maintenance programme** is essential. The inspections should focus on the level of exposure, all joints, fasteners, horizontal surfaces and end grain, as well as following any paint and/or oil manufacturers recommendations!

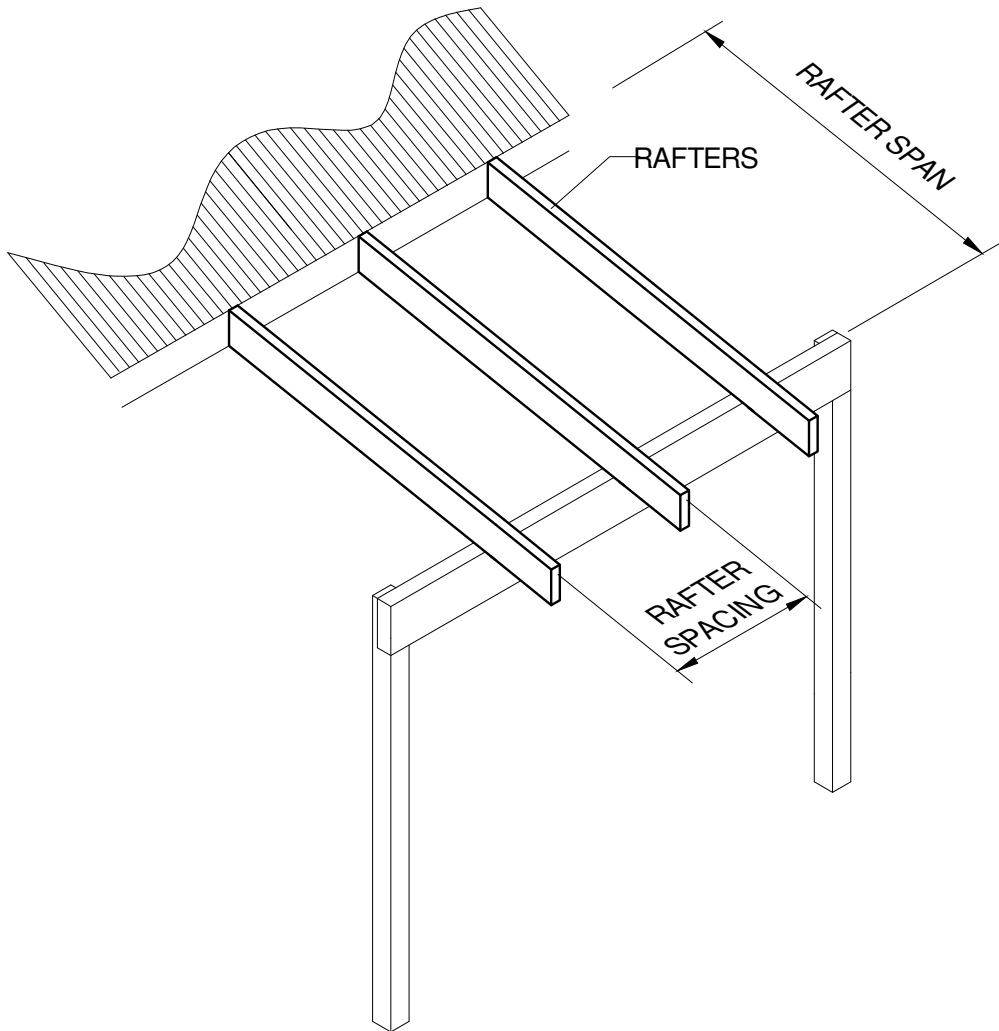
Additional Information

1. Surface Checking – Surface Checking is where the timber fibres separate, normally across the growth rings, as a result of natural changes and variations in moisture content. Checks are often confused with delamination, where a glue bond has not fixed correctly, and the presence of wood fibre separation in the opening is a key distinguishing feature of checking! Opening as a result of the adhesive not bonding correctly generally appear as smooth surfaces possibly with the presence of dark and glossy adhesive residue. In general checks have negligible effect on the strength of the laminated product.

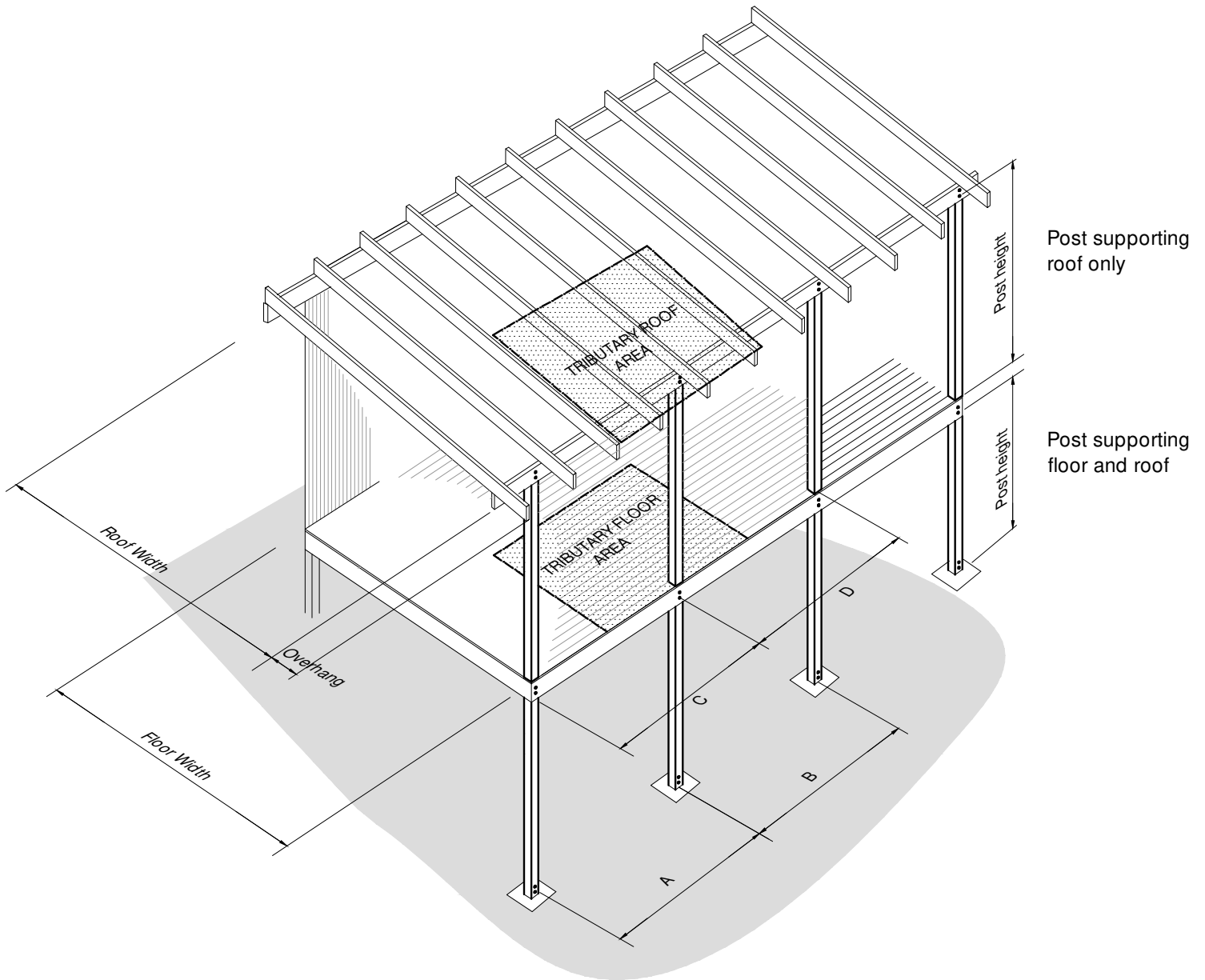
VERANDAH ROOF BEAM



RAFTERS



POSTS SUPPORTING FLOOR AND ROOF



$$\text{Tributary Roof Area} = (\text{Roof Width}/2 + \text{Overhang}) \times (C + D)/2$$

$$\text{Tributary Floor Area} = (\text{Floor Width}/2) \times (A + B)/2$$

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 20kg/m²

Roof overhang 0mm

Roof Snow Load 0 kPa

Loads

Roof	0.2 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2850	2400	2100	1850	1700	1550	1450	1350	1300
140x40	3500	3050	2650	2350	2150	2000	1850	1750	1650
170x40	4100	3700	3200	2900	2600	2400	2250	2150	2000
200x40	4600	4150	3600	3200	2950	2700	2550	2400	2250
230x40	5150	4550	3900	3500	3200	2950	2750	2600	2450
290x40	6100	5000	4300	3850	3500	3250	3050	2850	2700
110x65	3250	2900	2650	2400	2150	2000	1850	1750	1650
140x65	4000	3600	3350	3050	2750	2550	2400	2250	2150
170x65	4600	4150	3850	3650	3350	3100	2900	2750	2600
200x65	5150	4700	4400	4150	3950	3650	3450	3250	3050
230x65	5650	5250	4850	4600	4400	4250	3950	3700	3550
290x65	6550	6200	5800	5500	5250	5050	4850	4700	4450
110x130	3850	3500	3250	3100	2900	2800	2650	2500	2400
140x130	4550	4250	4000	3750	3600	3450	3350	3200	3050
170x130	5150	4850	4600	4350	4150	4000	3850	3750	3650
200x130	5700	5400	5150	4950	4700	4550	4400	4250	4150
230x130	6200	5900	5650	5450	5250	5050	4850	4600	4350
290x130	7150	6850	6550	6350	6200	6000	5800	5650	5500

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2400	1950	1650	1500	1350	1250	1150	1100	1050
140x40	3050	2450	2150	1900	1750	1600	1500	1400	1350
170x40	3700	3000	2600	2300	2100	1950	1800	1700	1650
200x40	4150	3350	2900	2600	2350	2200	2050	1900	1800
230x40	4500	3650	3150	2800	2550	2350	2200	2100	1950
290x40	4950	4000	3450	3100	2800	2600	2450	2300	2150
110x65	3000	2500	2150	1900	1750	1600	1500	1400	1350
140x65	3600	3150	2750	2450	2200	2050	1900	1800	1700
170x65	4150	3750	3350	2950	2700	2500	2350	2200	2100
200x65	4700	4250	3950	3500	3200	2950	2750	2600	2450
230x65	5250	4750	4400	4050	3700	3400	3200	3000	2850
290x65	6250	5650	5250	4950	4650	4300	4000	3800	3600
110x130	3600	3250	3000	2700	2500	2300	2150	2000	1900
140x130	4300	3900	3600	3400	3150	2950	2750	2600	2450
170x130	4950	4500	4150	3950	3750	3550	3350	3150	2950
200x130	5600	5050	4700	4450	4250	4100	3950	3700	3500
230x130	6200	5650	5250	4950	4550	4200	3950	3700	3500
290x130	7150	6700	6250	5900	5650	5450	5250	5100	4950

Roof weight 40kg/m²

Roof overhang 0mm

Roof Snow Load 0 kPa

Loads

Roof	0.4 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2350	2050	1850	1750	1650	1550	1500	1400	1300
140x40	2950	2600	2400	2200	2100	1950	1850	1700	1650
170x40	3550	3150	2900	2700	2500	2300	2150	2050	1900
200x40	4100	3700	3400	3100	2850	2650	2450	2300	2200
230x40	4550	4150	3850	3450	3150	2950	2750	2600	2450
290x40	5350	4900	4550	4050	3700	3400	3200	3000	2850
110x65	2700	2400	2200	2050	1900	1800	1750	1700	1600
140x65	3400	3000	2750	2600	2450	2300	2200	2150	2050
170x65	4050	3650	3350	3100	2950	2800	2700	2600	2500
200x65	4550	4200	3900	3650	3450	3300	3150	3050	2950
230x65	5000	4600	4350	4150	3950	3800	3650	3500	3400
290x65	5900	5450	5150	4900	4700	4550	4400	4300	4200
110x130	3250	2900	2700	2500	2400	2250	2200	2100	2050
140x130	4050	3650	3400	3200	3000	2900	2750	2650	2600
170x130	4600	4300	4050	3850	3650	3500	3350	3250	3100
200x130	5150	4800	4550	4350	4200	4050	3900	3800	3650
230x130	5650	5300	5000	4800	4600	4450	4350	4250	4150
290x130	6550	6200	5900	5650	5450	5300	5150	5000	4900

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2350	2000	1700	1550	1400	1300	1200	1150	1100
140x40	2950	2550	2200	1950	1800	1650	1550	1450	1400
170x40	3550	3000	2600	2350	2150	1950	1850	1750	1650
200x40	4100	3450	2950	2650	2450	2250	2100	2000	1900
230x40	4550	3750	3250	2900	2650	2450	2300	2150	2050
290x40	5100	4150	3600	3200	2900	2700	2500	2350	2250
110x65	2700	2400	2200	1950	1800	1650	1550	1450	1400
140x65	3400	3000	2750	2500	2300	2100	2000	1850	1750
170x65	4050	3650	3350	3050	2800	2600	2400	2250	2150
200x65	4550	4200	3900	3600	3300	3050	2850	2700	2550
230x65	5000	4600	4350	4150	3800	3500	3300	3100	2950
290x65	5900	5450	5150	4900	4700	4450	4150	3900	3700
110x130	3250	2900	2700	2500	2400	2250	2200	2100	1950
140x130	4050	3650	3400	3200	3000	2900	2750	2650	2500
170x130	4600	4300	4050	3850	3650	3500	3350	3250	3050
200x130	5150	4800	4550	4350	4200	4050	3900	3800	3600
230x130	5650	5300	5000	4800	4600	4450	4350	4250	4150
290x130	6550	6200	5900	5650	5450	5300	5150	5000	4900

Note : Other wind classifications available upon request

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 60kg/m²

Roof overhang 0mm

Roof Snow Load 0 kPa

Loads

Roof	0.6 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2050	1800	1650	1500	1450	1350	1300	1250	1200
140x40	2600	2300	2100	1950	1850	1750	1650	1600	1550
170x40	3150	2750	2550	2350	2200	2100	2000	1900	1800
200x40	3700	3250	2950	2750	2600	2500	2300	2200	2050
230x40	4150	3750	3400	3200	3000	2750	2600	2450	2300
290x40	4900	4500	4200	3850	3550	3300	3050	2900	2750
110x65	2400	2100	1900	1800	1700	1600	1550	1450	1400
140x65	3000	2650	2450	2250	2150	2050	1950	1850	1800
170x65	3650	3250	2950	2750	2600	2450	2350	2200	2100
200x65	4200	3800	3450	3250	3050	2900	2800	2700	2600
230x65	4600	4250	3950	3700	3500	3350	3200	3100	2950
290x65	5450	5000	4700	4450	4300	4150	4000	3850	3750
110x130	2900	2600	2400	2250	2100	2000	1900	1850	1800
140x130	3650	3300	3000	2800	2650	2550	2450	2350	2250
170x130	4300	3950	3650	3400	3250	3100	2950	2850	2750
200x130	4800	4450	4200	4000	3800	3600	3450	3350	3250
230x130	5300	4900	4600	4400	4250	4100	3950	3850	3700
290x130	6200	5750	5450	5200	5000	4850	4700	4600	4450

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2050	1800	1650	1500	1400	1300	1200	1150	1100
140x40	2600	2300	2100	1900	1750	1600	1500	1400	1350
170x40	3150	2750	2500	2250	2050	1900	1750	1650	1550
200x40	3700	3250	2850	2550	2300	2150	2000	1900	1800
230x40	4150	4150	3650	3150	2850	2600	2400	2250	2100
290x40	4900	4900	4300	3700	3300	3000	2800	2600	2450
110x65	2400	2100	1900	1800	1700	1600	1550	1450	1400
140x65	3000	2650	2450	2250	2150	2050	1950	1850	1750
170x65	3650	3250	2950	2750	2600	2450	2350	2250	2150
200x65	4200	3800	3450	3250	3050	2900	2800	2650	2550
230x65	4600	4250	3950	3700	3500	3350	3200	3050	2900
290x65	5450	5000	4700	4450	4300	4150	4000	3850	3650
110x130	2900	2600	2400	2250	2100	2000	1900	1850	1800
140x130	3650	3300	3000	2800	2650	2550	2450	2350	2250
170x130	4300	3950	3650	3400	3250	3100	2950	2850	2750
200x130	4800	4450	4200	4000	3800	3600	3450	3350	3250
230x130	5300	4900	4600	4400	4250	4100	3950	3850	3700
290x130	6200	5750	5450	5200	5000	4850	4700	4600	4450

Roof weight 90kg/m²

Roof overhang 0mm

Roof Snow Load 0 kPa

Loads

Roof	0.9 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1800	1550	1450	1350	1250	1200	1150	1100	1050
140x40	2300	2000	1850	1700	1600	1500	1450	1400	1350
170x40	2750	2450	2200	2050	1950	1850	1750	1700	1650
200x40	3250	2850	2600	2450	2300	2150	2100	2000	1900
230x40	3750	3300	3000	2800	2650	2500	2400	2250	2150
290x40	4500	4100	3750	3500	3300	3050	2850	2700	2550
110x65	2100	1850	1700	1550	1450	1400	1350	1300	1250
140x65	2650	2350	2150	2000	1850	1800	1700	1650	1600
170x65	3250	2850	2600	2400	2300	2150	2050	2000	1950
200x65	3800	3350	3050	2850	2700	2550	2450	2350	2250
230x65	4250	3850	3500	3250	3100	2950	2800	2700	2600
290x65	5000	4600	4300	4050	3850	3700	3550	3400	3300
110x130	2600	2300	2100	1950	1850	1750	1700	1600	1550
140x130	3300	2900	2650	2500	2350	2250	2150	2050	2000
170x130	3950	3500	3250	3000	2850	2700	2600	2500	2400
200x130	4450	4100	3800	3550	3350	3200	3050	2950	2850
230x130	4900	4500	4250	4050	3850	3650	3500	3350	3250
290x130	5750	5300	5000	4750	4600	4400	4300	4150	4050

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1800	1550	1450	1350	1250	1200	1150	1050	1000
140x40	2300	2000	1850	1700	1600	1500	1400	1300	1250
170x40	2750	2450	2200	2050	1900	1750	1650	1550	1500
200x40	3250	2850	2600	2400	2200	2050	1900	1800	1700
230x40	3750	3300	3000	2700	2450	2250	2100	2000	1900
290x40	4500	4100	3500	3200	2900	2700	2500	2350	2250
110x65	2100	1850	1700	1550	1450	1400	1350	1300	1250
140x65	2650	2350	2150	2000	1850	1800	1700	1650	1600
170x65	3250	2850	2600	2400	2300	2150	2050	2000	1950
200x65	3800	3350	3050	2850	2700	2550	2450	2350	2250
230x65	4250	3850	3500	3250	3100	2950	2800	2700	2600
290x65	5000	4600	4300	4050	3850	3700	3550	3400	3300
110x130	2600	2300	2100	1950	1850	1750	1700	1600	1550
140x130	3300	2900	2650	2500	2350	2250	2150	2050	2000
170x130	3950	3500	3250	3000	2850	2700	2600	2500	2400
200x130	4450	4100	3800	3550	3350	3200	3050	2950	2850
230x130	4900	4500	4250	4050	3850	3650	3500	3350	3250
290x130	5750	5300	5000	4750	4600	4400	4300	4150	4050

Note : Other wind classifications available upon request

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 20kg/m²

Roof overhang 400mm

Roof Snow Load 0 kPa

Loads

Roof	0.2 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	2200	1950	1800	1650	1500	1400	1350	1300	1200
140x40	2800	2500	2250	2100	1950	1800	1700	1650	1550
170x40	3400	3050	2750	2550	2350	2200	2100	2000	1900
200x40	3850	3400	3100	2850	2650	2450	2350	2200	2100
230x40	4150	3700	3350	3050	2850	2700	2550	2400	2300
290x40	4600	4050	3700	3400	3150	2950	2800	2650	2550
110x65	2800	2500	2250	2100	1950	1800	1700	1650	1550
140x65	3450	3200	2900	2650	2500	2350	2200	2100	2000
170x65	4000	3750	3550	3250	3000	2850	2700	2550	2450
200x65	4500	4250	4050	3850	3550	3350	3150	3000	2850
230x65	5000	4750	4500	4300	4100	3850	3650	3450	3300
290x65	5950	5650	5350	5150	4950	4800	4600	4350	4150
110x130	3350	3150	3000	2850	2750	2600	2450	2350	2200
140x130	4100	3850	3700	3550	3400	3300	3150	3000	2850
170x130	4700	4500	4250	4100	3950	3850	3700	3650	3450
200x130	5250	5050	4800	4650	4450	4350	4200	4100	4000
230x130	5750	5550	5350	5150	4950	4800	4500	4300	4100
290x130	6700	6450	6300	6100	5900	5700	5550	5450	5300

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1750	1600	1450	1300	1200	1150	1100	1050	1000
140x40	2250	2000	1850	1700	1550	1450	1400	1300	1250
170x40	2750	2450	2200	2050	1900	1800	1700	1600	1500
200x40	3100	2750	2500	2300	2100	2000	1900	1800	1700
230x40	3350	2950	2700	2450	2300	2150	2050	1950	1850
290x40	3700	3250	2950	2700	2550	2350	2250	2150	2050
110x65	2250	2000	1850	1700	1550	1450	1400	1300	1250
140x65	2900	2600	2350	2150	2000	1850	1750	1700	1600
170x65	3550	3150	2850	2600	2450	2300	2150	2050	1950
200x65	4100	3700	3350	3100	2850	2700	2550	2400	2300
230x65	4550	4250	3850	3550	3300	3100	2950	2800	2650
290x65	5400	5100	4850	4500	4200	3900	3700	3500	3350
110x130	3100	2900	2600	2400	2250	2100	1950	1850	1800
140x130	3700	3500	3350	3050	2850	2650	2500	2400	2300
170x130	4300	4050	3850	3700	3450	3250	3050	2900	2800
200x130	4850	4600	4350	4200	4050	3850	3600	3450	3300
230x130	5400	5100	4800	4400	4100	3850	3600	3450	3300
290x130	6450	6050	5800	5550	5350	5200	5050	4900	4800

Roof weight 40kg/m²

Roof overhang 400mm

Roof Snow Load 0 kPa

Loads

Roof	0.4 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1950	1800	1700	1600	1550	1450	1350	1300	1250
140x40	2450	2300	2150	2050	1900	1800	1700	1600	1550
170x40	3000	2800	2600	2400	2250	2100	2000	1900	1800
200x40	3500	3250	3000	2750	2550	2400	2250	2150	2050
230x40	4000	3650	3300	3050	2850	2700	2550	2400	2300
290x40	4750	4250	3850	3550	3300	3100	2950	2800	2650
110x65	2250	2100	2000	1900	1800	1700	1650	1600	1550
140x65	2850	2650	2500	2400	2300	2200	2100	2050	2000
170x65	3450	3250	3050	2900	2750	2650	2550	2500	2400
200x65	4050	3800	3550	3400	3250	3100	3000	2900	2850
230x65	4450	4250	4050	3900	3700	3600	3450	3350	3250
290x65	5250	5000	4800	4650	4500	4350	4250	4150	4050
110x130	2800	2600	2450	2350	2250	2150	2050	2000	1950
140x130	3500	3300	3100	2950	2850	2700	2650	2550	2500
170x130	4150	3950	3750	3550	3400	3300	3200	3100	3000
200x130	4650	4450	4250	4100	4000	3850	3750	3600	3500
230x130	5100	4900	4700	4550	4400	4300	4200	4100	4000
290x130	6000	5750	5550	5350	5200	5100	4950	4850	4750

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1850	1650	1450	1350	1250	1200	1100	1050	1000
140x40	2350	2100	1900	1750	1600	1500	1450	1350	1300
170x40	2750	2450	2250	2050	1900	1800	1700	1600	1550
200x40	3150	2800	2550	2350	2200	2050	1950	1850	1750
230x40	3450	3050	2750	2550	2350	2250	2100	2000	1900
290x40	3800	3350	3050	2800	2600	2450	2300	2200	2100
110x65	2250	2100	1900	1750	1600	1500	1450	1350	1300
140x65	2850	2650	2400	2200	2050	1950	1850	1750	1650
170x65	3450	3250	2950	2700	2500	2350	2200	2100	2000
200x65	4050	3800	3450	3200	2950	2800	2600	2500	2400
230x65	4450	4250	4000	3650	3400	3200	3000	2850	2750
290x65	5250	5000	4800	4650	4300	4050	3800	3650	3450
110x130	2800	2600	2450	2350	2250	2150	2050	1950	1850
140x130	3500	3300	3100	2950	2850	2700	2600	2450	2350
170x130	4150	3950	3750	3550	3400	3300	3150	3000	2850
200x130	4650	4450	4250	4100	4000	3850	3750	3550	3400
230x130	5100	4900	4700	4550	4200	3950	3750	3550	3400
290x130	6000	5750	5550	5350	5200	5100	4950	4850	4750

Note : Other wind classifications available upon request.

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 60kg/m²

Roof overhang 400mm

Roof Snow Load 0 kPa

Loads

Roof	0.6 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1700	1600	1500	1400	1350	1300	1250	1200	1150
140x40	2150	2000	1900	1800	1700	1650	1550	1500	1450
170x40	2650	2450	2300	2150	2050	2000	1850	1800	1700
200x40	3100	2850	2700	2550	2400	2250	2150	2050	1950
230x40	3550	3300	3100	2900	2700	2500	2400	2250	2150
290x40	4300	4100	3700	3400	3200	3000	2850	2700	2550
110x65	2000	1850	1750	1650	1550	1500	1450	1400	1350
140x65	2550	2350	2200	2100	2000	1900	1850	1800	1750
170x65	3050	2850	2700	2550	2450	2350	2250	2150	2100
200x65	3600	3350	3150	3000	2850	2750	2650	2550	2500
230x65	4100	3850	3600	3450	3300	3150	3050	2950	2850
290x65	4800	4600	4400	4200	4100	3950	3800	3700	3600
110x130	2450	2300	2150	2050	1950	1900	1800	1750	1700
140x130	3100	2900	2750	2600	2500	2400	2300	2250	2200
170x130	3750	3500	3300	3150	3000	2900	2800	2700	2650
200x130	4300	4100	3900	3700	3550	3400	3300	3200	3100
230x130	4750	4500	4350	4150	4050	3900	3800	3650	3550
290x130	5550	5300	5100	4950	4800	4650	4550	4450	4350

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1700	1600	1450	1350	1250	1200	1100	1050	1000
140x40	2150	2000	1800	1650	1550	1450	1400	1300	1250
170x40	2650	2350	2150	1950	1850	1700	1600	1550	1450
200x40	3000	2700	2450	2250	2100	1950	1850	1750	1700
230x40	3350	3000	2700	2500	2350	2200	2050	1950	1900
290x40	3950	3500	3150	2900	2700	2550	2400	2250	2150
110x65	2000	1850	1750	1650	1550	1500	1450	1350	1300
140x65	2550	2350	2200	2100	2000	1900	1800	1750	1650
170x65	3050	2850	2700	2550	2450	2350	2200	2100	2000
200x65	3600	3350	3150	3000	2850	2750	2600	2500	2350
230x65	4100	3850	3600	3450	3300	3150	3000	2850	2750
290x65	4800	4600	4400	4200	4100	3950	3800	3600	3450
110x130	2450	2300	2150	2050	1950	1900	1800	1750	1700
140x130	3100	2900	2750	2600	2500	2400	2300	2250	2200
170x130	3750	3500	3300	3150	3000	2900	2800	2700	2650
200x130	4300	4100	3900	3700	3550	3400	3300	3200	3100
230x130	4750	4500	4350	4150	4050	3900	3800	3650	3500
290x130	5550	5300	5100	4950	4800	4650	4550	4450	4350

Roof weight 90kg/m²

Roof overhang 400mm

Roof Snow Load 0 kPa

Loads

Roof	0.9 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1500	1400	1300	1200	1150	1100	1100	1050	1000
140x40	1900	1750	1650	1550	1500	1450	1350	1350	1300
170x40	2300	2150	2000	1900	1800	1750	1650	1600	1550
200x40	2700	2500	2350	2250	2150	2050	1950	1900	1800
230x40	3100	2900	2700	2550	2450	2350	2200	2100	2000
290x40	3900	3650	3400	3150	2950	2750	2600	2500	2400
110x65	1750	1600	1500	1450	1350	1300	1250	1200	1200
140x65	2200	2050	1950	1850	1750	1700	1600	1550	1500
170x65	2700	2500	2350	2250	2150	2050	1950	1900	1850
200x65	3150	2950	2750	2600	2500	2400	2300	2250	2150
230x65	3650	3400	3150	3000	2900	2750	2650	2600	2500
290x65	4400	4150	4000	3800	3600	3500	3350	3250	3150
110x130	2200	2050	1900	1800	1700	1650	1600	1550	1500
140x130	2750	2550	2400	2300	2200	2100	2050	1950	1900
170x130	3350	3100	2950	2800	2650	2550	2450	2400	2300
200x130	3900	3650	3450	3250	3100	3000	2900	2800	2700
230x130	4350	4150	3950	3750	3600	3450	3350	3200	3150
290x130	5150	4900	4700	4500	4350	4250	4150	4050	3950

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1500	1400	1300	1200	1150	1100	1050	1000	950
140x40	1900	1750	1650	1550	1450	1350	1300	1250	1200
170x40	2300	2150	2000	1850	1700	1600	1550	1450	1400
200x40	2700	2500	2300	2100	1950	1850	1750	1650	1600
230x40	3100	2850	2550	2350	2200	2050	1950	1850	1750
290x40	3750	3350	3050	2800	2600	2450	2300	2200	2100
110x65	1750	1600	1500	1450	1350	1300	1250	1200	1200
140x65	2200	2050	1950	1850	1750	1700	1600	1550	1500
170x65	2700	2500	2350	2250	2150	2050	1950	1900	1850
200x65	3150	2950	2750	2600	2500	2400	2300	2250	2150
230x65	3650	3400	3150	3000	2900	2750	2650	2600	2500
290x65	4400	4150	4000	3800	3600	3500	3350	3250	3150
110x130	2200	2050	1900	1800	1700	1650	1600	1550	1500
140x130	2750	2550	2400	2300	2200	2100	2050	1950	1900
170x130	3350	3100	2950	2800	2650	2550	2450	2400	2300
200x130	3900	3650	3450	3250	3100	3000	2900	2800	2700
230x130	4350	4150	3950	3750	3600	3450	3350	3200	3150
290x130	5150	4900	4700	4500	4350	4250	4150	4050	3950

Note : Other wind classifications available upon request.

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 20kg/m²

Roof overhang 800mm

Roof Snow Load 0 kPa

Loads

Roof	0.2 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification

Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1750	1650	1550	1450	1400	1300	1250	1200	1150
140x40	2250	2100	2000	1850	1750	1650	1600	1550	1450
170x40	2750	2550	2400	2250	2150	2050	1950	1850	1800
200x40	3050	2850	2700	2550	2400	2250	2150	2050	2000
230x40	3300	3100	2900	2750	2600	2450	2350	2250	2150
290x40	3650	3450	3200	3000	2850	2700	2600	2500	2400
110x65	2250	2100	2000	1850	1750	1650	1600	1550	1450
140x65	2900	2700	2550	2400	2250	2150	2050	1950	1900
170x65	3500	3300	3100	2900	2750	2600	2500	2400	2300
200x65	4050	3900	3650	3400	3250	3050	2950	2800	2700
230x65	4500	4350	4200	3950	3750	3550	3400	3250	3100
290x65	5350	5200	5000	4850	4700	4500	4250	4100	3900
110x130	3000	2900	2800	2650	2500	2400	2250	2200	2100
140x130	3650	3550	3450	3350	3200	3050	2900	2800	2650
170x130	4250	4100	4000	3850	3750	3650	3550	3400	3250
200x130	4800	4650	4500	4400	4250	4150	4050	3950	3850
230x130	5350	5200	5000	4850	4600	4400	4200	4000	3850
290x130	6250	6150	5950	5800	5650	5500	5350	5250	5150

C2 wind classification

Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1400	1350	1250	1150	1100	1050	1000	950	900
140x40	1800	1700	1600	1500	1400	1350	1300	1250	1200
170x40	2200	2050	1950	1800	1700	1650	1550	1500	1450
200x40	2450	2300	2150	2050	1900	1850	1750	1650	1600
230x40	2650	2500	2350	2200	2100	2000	1900	1800	1750
290x40	2950	2750	2600	2450	2300	2200	2100	2000	1900
110x65	1800	1700	1600	1500	1400	1350	1300	1250	1200
140x65	2300	2200	2050	1900	1800	1700	1650	1550	1500
170x65	2800	2650	2500	2350	2200	2100	2000	1900	1850
200x65	3300	3150	2950	2750	2600	2450	2350	2250	2150
230x65	3850	3600	3350	3150	3000	2850	2700	2600	2500
290x65	4850	4550	4250	4000	3800	3600	3450	3300	3150
110x130	2600	2450	2250	2150	2000	1900	1850	1750	1700
140x130	3300	3100	2900	2750	2600	2450	2350	2250	2150
170x130	3850	3750	3550	3350	3150	3000	2850	2700	2600
200x130	4350	4200	4100	3900	3700	3500	3350	3200	3100
230x130	4750	4450	4200	3950	3700	3500	3350	3200	3100
290x130	5750	5600	5400	5250	5100	4950	4850	4700	4500

Roof weight 40kg/m²

Roof overhang 800mm

Roof Snow Load 0 kPa

Loads

Roof	0.4 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification

Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1700	1600	1550	1500	1400	1350	1250	1200	1150
140x40	2150	2050	1950	1850	1750	1650	1550	1500	1450
170x40	2600	2450	2300	2150	2050	1950	1850	1750	1700
200x40	2950	2800	2600	2450	2300	2200	2100	2000	1950
230x40	3300	3100	2900	2750	2600	2450	2350	2250	2150
290x40	3850	3600	3350	3150	3000	2850	2700	2600	2500
110x65	1950	1900	1800	1750	1700	1650	1600	1550	1500
140x65	2500	2400	2300	2200	2150	2050	2000	1950	1900
170x65	3000	2900	2800	2700	2600	2500	2450	2350	2300
200x65	3550	3400	3300	3150	3050	2950	2850	2800	2700
230x65	4050	3900	3750	3650	3500	3400	3300	3200	3150
290x65	4800	4650	4500	4400	4300	4200	4100	4000	3950
110x130	2450	2350	2250	2200	2100	2050	2000	1900	1900
140x130	3100	3000	2850	2750	2650	2600	2500	2450	2400
170x130	3700	3600	3450	3350	3250	3150	3050	2950	2900
200x130	4250	4150	4050	3900	3800	3650	3550	3450	3400
230x130	4700	4600	4450	4350	4250	4150	4050	4000	3900
290x130	5550	5400	5250	5150	5000	4900	4800	4700	4650

C2 wind classification

Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1450	1350	1300	1200	1150	1100	1050	1000	950
140x40	1850	1750	1650	1550	1450	1400	1300	1250	1200
170x40	2200	2100	1950	1850	1750	1650	1600	1500	1450
200x40	2500	2400	2250	2100	2000	1900	1800	1700	1650
230x40	2750	2600	2400	2300	2150	2050	1950	1850	1800
290x40	3000	2850	2650	2500	2350	2250	2150	2050	1950
110x65	1850	1750	1650	1550	1450	1400	1300	1250	1200
140x65	2400	2250	2100	2000	1850	1800	1700	1600	1550
170x65	2900	2750	2550	2400	2300	2150	2050	2000	1900
200x65	3450	3200	3000	2850	2700	2550	2450	2350	2250
230x65	3950	3700	3500	3250	3100	2950	2800	2700	2600
290x65	4800	4650	4400	4150	3900	3700	3550	3400	3250
110x130	2450	2350	2250	2200	2100	2000	1900	1800	1750
140x130	3100	3000	2850	2750	2650	2550	2400	2300	2200
170x130	3700	3600	3450	3350	3250	3100	2950	2800	2700
200x130	4250	4150	4050	3900	3800	3650	3500	3300	3200
230x130	4700	4600	4300	4050	3850	3650	3450	3300	3200
290x130	5550	5400	5250	5150	5000	4900	4800	4700	4650

Note : Other wind classifications available upon request.

VULCAN VERANDAH BEAMS

GL8

single span

Roof weight 60kg/m²

Roof overhang 800mm

Roof Snow Load 0 kPa

Loads

Roof	0.6 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1450	1400	1350	1300	1250	1200	1150	1150	1100
140x40	1850	1800	1750	1650	1600	1550	1450	1400	1350
170x40	2250	2200	2100	2000	1900	1800	1750	1650	1600
200x40	2700	2550	2450	2300	2200	2100	2000	1900	1850
230x40	3050	2900	2750	2600	2450	2300	2200	2100	2050
290x40	3700	3450	3250	3050	2900	2750	2650	2500	2400
110x65	1700	1650	1600	1550	1450	1400	1400	1350	1300
140x65	2200	2100	2000	1950	1900	1800	1750	1700	1650
170x65	2650	2550	2450	2350	2300	2200	2150	2100	2050
200x65	3100	3000	2900	2800	2700	2600	2500	2450	2400
230x65	3600	3450	3300	3200	3100	3000	2900	2800	2750
290x65	4350	4250	4100	4000	3900	3750	3650	3550	3450
110x130	2150	2050	2000	1900	1850	1800	1750	1700	1650
140x130	2750	2650	2550	2450	2350	2250	2200	2150	2100
170x130	3300	3200	3050	2950	2850	2750	2700	2600	2550
200x130	3850	3750	3600	3450	3350	3250	3150	3050	3000
230x130	4300	4200	4100	3950	3850	3700	3600	3500	3450
290x130	5100	4950	4800	4700	4600	4500	4400	4300	4200

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1450	1350	1300	1200	1150	1100	1050	1000	950
140x40	1800	1700	1600	1500	1400	1350	1300	1200	1150
170x40	2100	2000	1850	1750	1650	1600	1500	1450	1400
200x40	2400	2250	2150	2000	1900	1800	1700	1650	1600
230x40	2700	2550	2400	2250	2100	2000	1900	1850	1750
290x40	3150	2950	2750	2600	2450	2350	2200	2100	2050
110x65	1700	1650	1600	1550	1450	1400	1300	1250	1200
140x65	2200	2100	2000	1950	1850	1750	1700	1600	1550
170x65	2650	2550	2450	2350	2250	2150	2050	1950	1900
200x65	3100	3000	2900	2800	2650	2550	2400	2300	2250
230x65	3600	3450	3300	3200	3050	2900	2800	2650	2550
290x65	4350	4250	4100	4000	3850	3700	3500	3350	3250
110x130	2150	2050	2000	1900	1850	1800	1750	1700	1650
140x130	2750	2650	2550	2450	2350	2250	2200	2150	2100
170x130	3300	3200	3050	2950	2850	2750	2700	2600	2550
200x130	3850	3750	3600	3450	3350	3250	3150	3050	3000
230x130	4300	4200	4100	3950	3850	3700	3600	3450	3300
290x130	5100	4950	4800	4700	4600	4500	4400	4300	4200

Roof weight 90kg/m²

Roof overhang 800mm

Roof Snow Load 0 kPa

Loads

Roof	0.9 kPa
Live Load	0.25 kPa
	1.1 kN
Snow Load	0.00 kPa

Deflection limits

Dead Loads	span/400 or 10mm
Live loads	span/250 or 12mm
Wind load	span/200 or 15mm

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1300	1250	1200	1150	1100	1050	1000	1000	950
140x40	1650	1550	1500	1450	1400	1350	1300	1250	1250
170x40	2000	1900	1850	1750	1700	1650	1600	1550	1500
200x40	2350	2250	2150	2100	2000	1900	1850	1750	1700
230x40	2700	2600	2500	2400	2250	2150	2050	1950	1900
290x40	3400	3200	3000	2850	2700	2550	2450	2350	2250
110x65	1500	1450	1400	1350	1300	1250	1200	1150	1150
140x65	1900	1850	1750	1700	1650	1600	1550	1500	1450
170x65	2350	2250	2150	2050	2000	1950	1850	1800	1750
200x65	2750	2650	2550	2450	2350	2250	2200	2150	2100
230x65	3150	3050	2900	2800	2700	2600	2550	2450	2400
290x65	3950	3800	3650	3550	3400	3300	3200	3100	3050
110x130	1900	1800	1750	1700	1600	1550	1500	1500	1450
140x130	2400	2300	2200	2150	2050	2000	1950	1900	1850
170x130	2900	2800	2700	2600	2500	2400	2350	2300	2250
200x130	3400	3300	3150	3050	2950	2850	2750	2700	2600
230x130	3900	3800	3650	3500	3400	3250	3150	3100	3000
290x130	4650	4550	4400	4300	4150	4100	4000	3900	3800

C2 wind classification									
Verandah Width	1200	1800	2400	3000	3600	4200	4800	5400	6000
Beam size									
110x40	1300	1250	1200	1150	1050	1000	950	950	900
140x40	1650	1550	1500	1400	1350	1250	1200	1150	1100
170x40	2000	1900	1750	1650	1550	1500	1400	1350	1300
200x40	2250	2150	2000	1900	1800	1700	1600	1550	1500
230x40	2550	2400	2250	2100	2000	1900	1800	1750	1650
290x40	3000	2850	2650	2500	2350	2250	2150	2050	2000
110x65	1500	1450	1400	1350	1300	1250	1200	1150	1150
140x65	1900	1850	1750	1700	1650	1600	1550	1500	1450
170x65	2350	2250	2150	2050	2000	1950	1850	1800	1750
200x65	2750	2650	2550	2450	2350	2250	2200	2150	2100
230x65	3150	3050	2900	2800	2700	2600	2550	2450	2400
290x65	3950	3800	3650	3550	3400	3300	3200	3100	3050
110x130	1900	1800	1750	1700	1600	1550	1500	1500	1450
140x130	2400	2300	2200	2150	2050	2000	1950	1900	1850
170x130	2900	2800	2700	2600	2500	2400	2350	2300	2250
200x130	3400	3300	3150	3050	2950	2850	2750	2700	2600
230x130	3900	3800	3650	3500	3400	3250	3150	3100	3000
290x130	4650	4550	4400	4300	4150	4100	4000	3900	3800

Note : Other wind classifications available upon request.

VULCAN RAFTERS

GL8 single span DRY USE

Roof weight 20kg/m²

Roof Snow Load 0 kPa

<u>Loads</u>		<u>Deflection limits</u>		<u>Batten Spacing</u>	
Roof	0.2 kPa	Dead Loads	span/300 or 20mm	1200mm for sheet roofs	
Live Load	0.25 kPa	Live loads	span/250	330mm for tile roofs	
	1.1 kN	Wind load	span/150		
Snow Load	0.00 kPa				

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification

Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2650	2600	2550	2500	2450
140x40	3800	3700	3550	3450	3250
170x40	4750	4450	4250	4150	3900
200x40	5500	5200	4950	4800	4600
230x40	6200	5900	5650	5500	5250
290x40	7250	6950	6750	6600	6350
110x65	3600	3400	3200	3150	2950
140x65	4500	4250	4050	3950	3750
170x65	5350	5050	4850	4700	4500
200x65	6150	5850	5650	5500	5250
230x65	6750	6500	6300	6150	5950
290x65	7800	7550	7350	7200	7000
110x130	4250	4000	3850	3750	3600
140x130	5200	5000	4800	4700	4500
170x130	6100	5900	5700	5550	5350
200x130	6750	6550	6400	6300	6150
230x130	7400	7150	7000	6900	6750
290x130	8500	8300	8100	8000	7800

C2 wind classification

Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2650	2600	2550	2500	2450
140x40	3800	3700	3550	3400	3100
170x40	4750	4450	4250	4000	3650
200x40	5500	5200	4800	4550	4200
230x40	6200	5800	5350	5100	4650
290x40	7250	6500	5950	5600	5100
110x65	3600	3400	3200	3150	2950
140x65	4500	4250	4050	3950	3750
170x65	5350	5050	4850	4700	4500
200x65	6150	5850	5650	5500	5250
230x65	6750	6500	6300	6150	5950
290x65	7800	7550	7350	7200	7000
110x130	4250	4000	3850	3750	3600
140x130	5200	5000	4800	4700	4500
170x130	6100	5900	5700	5550	5350
200x130	6750	6550	6400	6300	6150
230x130	7400	7150	7000	6900	6750
290x130	8500	8300	8100	8000	7800

Roof weight 40kg/m²

Roof Snow Load 0 kPa

<u>Loads</u>		<u>Deflection limits</u>		<u>Batten Spacing</u>	
Roof	0.4 kPa	Dead Loads	span/300 or 20mm	1200mm for sheet roofs	
Live Load	0.25 kPa	Live loads	span/250	330mm for tile roofs	
	1.1 kN	Wind load	span/150		
Snow Load	0.00 kPa				

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification

Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2450	2350	2250	2200	2050
140x40	3250	3000	2850	2750	2600
170x40	3900	3650	3450	3350	3150
200x40	4600	4250	4050	3950	3700
230x40	5250	4900	4650	4500	4250
290x40	6350	6050	5800	5650	5350
110x65	2950	2750	2650	2550	2400
140x65	3750	3500	3300	3200	3050
170x65	4500	4200	4000	3900	3700
200x65	5250	4900	4700	4550	4300
230x65	5950	5600	5350	5200	4950
290x65	7000	6700	6500	6350	6100
110x130	3600	3400	3200	3150	2950
140x130	4500	4250	4050	3950	3750
170x130	5350	5050	4850	4700	4500
200x130	6150	5850	5650	5500	5250
230x130	6750	6500	6300	6150	5950
290x130	7800	7550	7350	7200	7000

C2 wind classification

Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2450	2350	2250	2200	2050
140x40	3250	3000	2850	2750	2600
170x40	3900	3650	3450	3350	3150
200x40	4600	4250	4050	3950	3700
230x40	5250	4900	4650	4500	4250
290x40	6350	6050	5800	5550	5100
110x65	2950	2750	2650	2550	2400
140x65	3750	3500	3300	3200	3050
170x65	4500	4200	4000	3900	3700
200x65	5250	4900	4700	4550	4300
230x65	5950	5600	5350	5200	4950
290x65	7000	6700	6500	6350	6100
110x130	3600	3400	3200	3150	2950
140x130	4500	4250	4050	3950	3750
170x130	5350	5050	4850	4700	4500
200x130	6150	5850	5650	5500	5250
230x130	6750	6500	6300	6150	5950
290x130	7800	7550	7350	7200	7000

Note : Other wind classifications available upon request.

VULCAN RAFTERS

GL8 single span DRY USE

Roof weight 60kg/m²

Roof Snow Load 0 kPa

<u>Loads</u>		<u>Deflection limits</u>		<u>Batten Spacing</u>	
Roof	0.6 kPa	Dead Loads	span/300 or 20mm	1200mm for sheet roofs	
Live Load	0.25 kPa	Live loads	span/250	330mm for tile roofs	
	1.1 kN	Wind load	span/150		
Snow Load	0.00 kPa				

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification					
Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2250	2100	2000	1900	1800
140x40	2850	2650	2500	2450	2300
170x40	3450	3200	3050	2950	2800
200x40	4050	3800	3600	3450	3250
230x40	4650	4350	4100	4000	3750
290x40	5800	5450	5150	5000	4700
110x65	2650	2450	2300	2250	2100
140x65	3300	3100	2950	2850	2700
170x65	4000	3750	3550	3450	3250
200x65	4700	4350	4150	4050	3800
230x65	5350	5000	4750	4600	4350
290x65	6500	6150	5950	5750	5450
110x130	3200	3000	2850	2800	2650
140x130	4050	3800	3600	3500	3300
170x130	4850	4550	4350	4200	4000
200x130	5650	5300	5050	4950	4700
230x130	6300	6000	5800	5600	5350
290x130	7350	7050	6850	6700	6500

C2 wind classification					
Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2250	2100	2000	1900	1800
140x40	2850	2650	2500	2450	2300
170x40	3450	3200	3050	2950	2800
200x40	4050	3800	3600	3450	3250
230x40	4650	4350	4100	4000	3750
290x40	5800	5450	5150	5000	4700
110x65	2650	2450	2300	2250	2100
140x65	3300	3100	2950	2850	2700
170x65	4000	3750	3550	3450	3250
200x65	4700	4350	4150	4050	3800
230x65	5350	5000	4750	4600	4350
290x65	6500	6150	5950	5750	5450
110x130	3200	3000	2850	2800	2650
140x130	4050	3800	3600	3500	3300
170x130	4850	4550	4350	4200	4000
200x130	5650	5300	5050	4950	4700
230x130	6300	6000	5800	5600	5350
290x130	7350	7050	6850	6700	6500

Roof weight 90kg/m²

Roof Snow Load 0 kPa

<u>Loads</u>		<u>Deflection limits</u>		<u>Batten Spacing</u>	
Roof	0.9 kPa	Dead Loads	span/300 or 20mm	1200mm for sheet roofs	
Live Load	0.25 kPa	Live loads	span/250	330mm for tile roofs	
	1.1 kN	Wind load	span/150		
Snow Load	0.00 kPa				

Design to AS1720.1:2010 and the provisions of AS1720.3:2016

N3 wind classification					
Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2000	1850	1750	1700	1600
140x40	2500	2350	2200	2150	2000
170x40	3050	2850	2700	2600	2450
200x40	3600	3350	3150	3050	2850
230x40	4100	3800	3600	3500	3300
290x40	5150	4800	4550	4400	4150
110x65	2300	2150	2050	1950	1850
140x65	2950	2750	2600	2500	2350
170x65	3550	3300	3150	3050	2850
200x65	4150	3850	3700	3550	3350
230x65	4750	4450	4200	4100	3850
290x65	5950	5550	5300	5100	4850
110x130	2850	2650	2550	2450	2300
140x130	3600	3350	3200	3100	2950
170x130	4350	4050	3850	3750	3550
200x130	5050	4750	4550	4400	4150
230x130	5800	5450	5200	5000	4750
290x130	6850	6550	6300	6200	5950

C2 wind classification					
Rafter spacing	600	760	900	1000	1200
Beam size					
110x40	2000	1850	1750	1700	1600
140x40	2500	2350	2200	2150	2000
170x40	3050	2850	2700	2600	2450
200x40	3600	3350	3150	3050	2850
230x40	4100	3800	3600	3500	3300
290x40	5150	4800	4550	4400	4150
110x65	2300	2150	2050	1950	1850
140x65	2950	2750	2600	2500	2350
170x65	3550	3300	3150	3050	2850
200x65	4150	3850	3700	3550	3350
230x65	4750	4450	4200	4100	3850
290x65	5950	5550	5300	5100	4850
110x130	2850	2650	2550	2450	2300
140x130	3600	3350	3200	3100	2950
170x130	4350	4050	3850	3750	3550
200x130	5050	4750	4550	4400	4150
230x130	5800	5450	5200	5000	4750
290x130	6850	6550	6300	6200	5950

Note : Other wind classifications available upon request.

VULCAN POSTS

GL8

POSTS SUPPORTING TIMBER FLOOR AND ROOF

FLOOR LIVE LOAD 2.0 kPa

ROOF WEIGHT 20kg/m² Sheet Roof - No Ceiling

Glulam Grade GL8 - dry use

N3/C2 Wind Classification

		Tributary Roof Area - up to 2.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)		Maximum Post Height (m)							
95x95		4.75	4.75	4.75	4.20	3.70	3.00	2.60	2.30
130x130		6.50	6.50	6.50	6.50	6.50	5.80	5.00	4.50

		Tributary Roof Area - up to 4.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)		Maximum Post Height (m)							
95x95		4.75	4.75	4.70	4.00	3.50	2.90	2.50	2.20
130x130		6.50	6.50	6.50	6.50	6.50	5.60	4.90	4.40

		Tributary Roof Area - up to 6.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)		Maximum Post Height (m)							
95x95		4.75	4.75	4.50	3.80	3.40	2.80	2.50	2.20
130x130		6.50	6.50	6.50	6.50	6.50	5.50	4.80	4.30

		Tributary Roof Area - up to 8.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)		Maximum Post Height (m)							
95x95		4.75	4.75	4.20	3.70	3.30	2.80	2.40	2.10
130x130		6.50	6.50	6.50	6.50	6.30	5.30	4.70	4.20

		Tributary Roof Area - up to 10.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)		Maximum Post Height (m)							
95x95		4.75	4.70	4.00	3.50	3.20	2.70	2.30	2.10
130x130		6.50	6.50	6.50	6.50	6.10	5.20	4.60	4.20

VULCAN POSTS

GL8

POSTS SUPPORTING TIMBER FLOOR AND ROOF

FLOOR LIVE LOAD 2.0 kPa

ROOF WEIGHT 40kg/m² Sheet Roof - with Ceiling

Glulam Grade GL8 - dry use

N3/C2 Wind Classification

Tributary floor area (m ²)	Tributary Roof Area - up to 2.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.75	4.75	4.20	3.60	3.00	2.50	2.20
130x130	6.50	6.50	6.50	6.50	6.50	5.70	5.00	4.40

Tributary floor area (m ²)	Tributary Roof Area - up to 4.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.75	4.50	3.90	3.40	2.90	2.50	2.20
130x130	6.50	6.50	6.50	6.50	6.50	5.50	4.80	4.30

Tributary floor area (m ²)	Tributary Roof Area - up to 6.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.75	4.20	3.70	3.30	2.70	2.40	2.10
130x130	6.50	6.50	6.50	6.50	6.30	5.30	4.70	4.20

Tributary floor area (m ²)	Tributary Roof Area - up to 8.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.60	3.90	3.50	3.10	2.70	2.30	2.10
130x130	6.50	6.50	6.50	6.50	6.00	5.20	4.60	4.10

Tributary floor area (m ²)	Tributary Roof Area - up to 10.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.20	3.70	3.30	3.00	2.60	2.30	2.00
130x130	6.50	6.50	6.50	6.30	5.80	5.00	4.50	4.00

VULCAN POSTS

GL8

POSTS SUPPORTING TIMBER FLOOR AND ROOF

FLOOR LIVE LOAD 2.0 kPa

ROOF WEIGHT 60kg/m² Tile Roof - No Ceiling

Glulam Grade GL8 - dry use

N3/C2 Wind Classification

		Tributary Roof Area - up to 2.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)	95x95	4.75	4.75	4.75	4.10	3.60	2.90	2.50	2.20
	130x130	6.50	6.50	6.50	6.50	6.50	5.70	4.90	4.40

		Tributary Roof Area - up to 4.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)	95x95	4.75	4.75	4.30	3.80	3.30	2.80	2.40	2.20
	130x130	6.50	6.50	6.50	6.50	6.40	5.40	4.80	4.30

		Tributary Roof Area - up to 6.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)	95x95	4.75	4.60	3.90	3.50	3.10	2.70	2.30	2.10
	130x130	6.50	6.50	6.50	6.50	6.00	5.20	4.60	4.10

		Tributary Roof Area - up to 8.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)	95x95	4.50	4.20	3.70	3.30	3.00	2.60	2.20	2.00
	130x130	6.50	6.50	6.50	6.30	5.70	5.00	4.40	4.00

		Tributary Roof Area - up to 10.0 m ²							
		0	1	2	3	4	6	8	10
Tributary floor area (m ²)	95x95	4.00	3.80	3.40	3.10	2.80	2.40	2.20	1.90
	130x130	6.50	6.50	6.50	5.90	5.50	4.80	4.30	3.90

VULCAN POSTS

GL8

POSTS SUPPORTING TIMBER FLOOR AND ROOF

FLOOR LIVE LOAD 2.0 kPa

ROOF WEIGHT 90kg/m² Tile Roof - With Ceiling

Glulam Grade GL8 - dry use

N3/C2 Wind Classification

Tributary floor area (m ²)	Tributary Roof Area - up to 2.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.75	4.60	4.00	3.50	2.90	2.50	2.20
130x130	6.50	6.50	6.50	6.50	6.50	5.60	4.90	4.40

Tributary floor area (m ²)	Tributary Roof Area - up to 4.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.75	4.75	4.10	3.60	3.20	2.70	2.40	2.10
130x130	6.50	6.50	6.50	6.50	6.20	5.30	4.60	4.20

Tributary floor area (m ²)	Tributary Roof Area - up to 6.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	4.20	4.00	3.70	3.30	3.00	2.60	2.20	2.00
130x130	6.50	6.50	6.50	6.30	5.70	5.00	4.40	4.00

Tributary floor area (m ²)	Tributary Roof Area - up to 8.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	3.60	3.50	3.30	3.00	2.80	2.40	2.10	1.90
130x130	6.50	6.50	6.40	5.80	5.40	4.70	4.30	3.90

Tributary floor area (m ²)	Tributary Roof Area - up to 10.0 m ²							
	0	1	2	3	4	6	8	10
	Maximum Post Height (m)							
95x95	3.20	3.10	3.00	2.80	2.60	2.30	2.10	1.80
130x130	6.10	5.90	5.80	5.50	5.10	4.50	4.10	3.80