



WOODHOUSE
WEATHERPROOF

SPAN TABLES & TECHNICAL GUIDE



For further information please visit
woodhouse.com.au or call: **1800 966 346**

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Woodhouse Weatherproof® Specifications

The Product

Woodhouse Weatherproof® is a range of eco-friendly, timber building products manufactured for outdoor use in all structural and decorative applications.

Supplied with a genuine Architectural Pink Primer, every Weatherproof product is ready for installation and final topcoating. Manufactured by finger jointing defect-free, 100% New Zealand radiata pine, all **Woodhouse Weatherproof®** is available in a range of lengths and profiles to service current building practices and designs.

Chemically treated using an organic H3 LOSP preservative for resistance against termite and fungal attack, the Weatherproof range is a ready to use building product intended for use in Australia's toughest conditions. When installed and maintained according to correct building practices, **Woodhouse Weatherproof®** offers a long term building solution for all outdoor construction.



The PINENZ program was established as a unique quality assurance program characterised by established benchmarks on product performance and quality for the manufacture of New Zealand Finger Jointed Radiata Pine Products. The PINENZ program is accredited by JAS-ANZ and audited by AsureQuality – one of Australasia’s most trusted quality assurance organisations – and all suppliers participating in the program must meet specific criteria and standards to be awarded the PINE NZ Quality Mark. This program lends further strength to the **Woodhouse Weatherproof®** range of products and gives us the confidence that the Primed LOSP H3 Radiata Products we supply to the market, are the best we can deliver.



Dulux®

**INDUSTRIAL
COATINGS**

The Pink Primer System

All **Woodhouse Weatherproof®** products are supplied with a factory-applied, genuine pink primer that represents the latest in paint technology. An evolution in priming systems, the Weatherproof Pink Primer is a premium coating with superior UV resistance and forms a stable foundation for final topcoat application.

To achieve an optimum finish, apply 2 coatings of quality paint according to the topcoat manufacturer's instructions. Lighter colours are the best choice for the final topcoats with dark colours having the potential of resin bleed and surface cracking problems due to their increased propensity to attract heat. Consult your paint retailer for advice on colour selection for your application. We recommend Dulux Weathershield for best results across the entire range of Weatherproof building products. Further information on Dulux paint products, application guidelines and consumer warranties can be viewed at www.dulux.com.au.

H3 LOSP Preservation System

The complete range of **Woodhouse Weatherproof®** products are H3 LOSP (Light Organic Solvent Preservative) treated to be resistant against termite and fungal attack. The LOSP preservation process ensures the original dimensions and strength of each Weatherproof product are sustained through and following installation.

For any cut ends, coat with a preservative resealer followed by a quality primer to effectively repair the treatment envelope. Finish and maintain all Weatherproof products according to the Painting recommendations outlined in this guide.

The organo-biocide LOSP preservative used in the treatment process is a combination of azole fungicides to resist against decay, and permethrin insecticide to protect from termite attack and other wood boring insects.

Building with Woodhouse Weatherproof



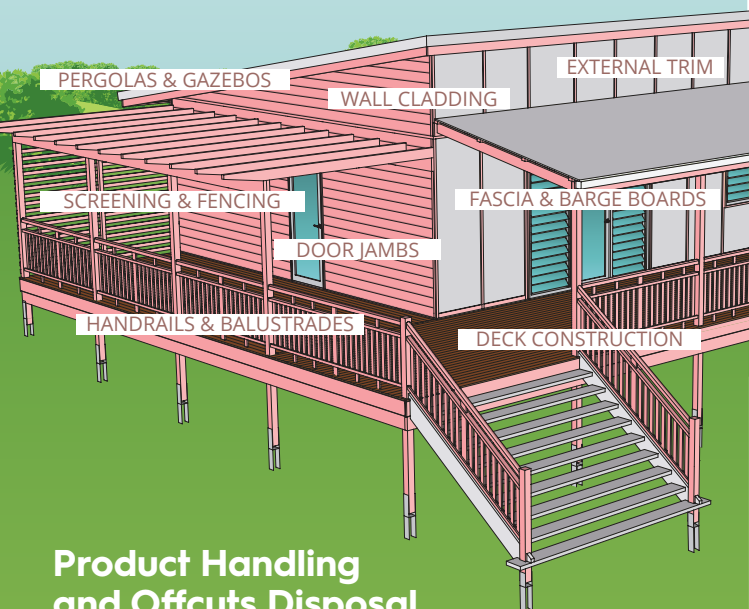
Store in dry environment and support every 600mm prior to install



Use best building practices.



For above ground use.



Product Handling and Offcuts Disposal

Ensure that all Woodhouse Weatherproof® products are kept dry and away from moisture prior to installation to minimise the potential of on-site degrade. When cutting, drilling or profiling any products in the Weatherproof range, wear personal protective equipment including gloves, mask and goggles.

All Weatherproof off-cuts or shavings should not be incinerated or burnt in open fires or barbecues; or used in gardens; or landscaping. Direct all unusable material towards normal household or building site waste disposal.

Painting

Woodhouse Weatherproof® has been factory coated with a high quality solvent (alkyd) primer and is ready for the final painting. It is NOT necessary to fully sand or remove the Pink Primer from any profiles in the Weatherproof range.



Follow the recommended painting guidelines below to ensure the best performance from the **Woodhouse Weatherproof®** range during and after installation.

STEP 1:

Ensure that the primed timber is free from any dirt, oil or any other surface contaminants. Remove thoroughly by wiping clean or lightly sanding.

STEP 2:

Optimum performance of any **Woodhouse Weatherproof®** product is achieved when the finishing topcoats are applied within 8 weeks of installation. If the primer appears to, or becomes chalky or loose, lightly sand these areas as required and re-prime with a premium quality primer. Seal any cut ends prior to installation with a preservative end sealer as required, followed by a quality primer to ensure the treatment envelope is resealed.

STEP 3:

Fill any defects or nail holes with wood putty. Sand to an even finish and spot prime to all affected areas.

STEP 4:

Apply 2 topcoats of either quality acrylic or solvent based paint to the prepared product.

For further information on topcoat recommendations contact Woodhouse or visit www.woodhouse.com.au.

STEP 5:

To achieve the best performance of your **Woodhouse Weatherproof®** product, maintain the finishing coat system as per the topcoat manufacturer's instructions, re-applying as directed or as needed.

Technical Data

Australian Standards Compliance: Finger Joints and Adhesives

All **Woodhouse Weatherproof®** is manufactured to comply with the relevant Australian Standard for Structural Exterior Products listed below:

- ✓ **AS 5068-2006: Timber – Finger Joints in Structural Products – Production requirements (Superseded: AS/NZS 1491:1996)**
- ✓ **AS/NZS 1328 – 1996: Glued laminated structural timber – Performance requirements and minimum production requirements**

Whilst the standards are voluntary and compliance is up to the individual manufacturer, all products should be fit for the purpose they were intended and supplied to the market accordingly. All manufacturers of the **Woodhouse Weatherproof®** range comply with the necessary guidelines stipulated in these Australian Standards.



SERVICE CLASS 1

Service Class 1 shall be characterized by a material moisture content corresponding to a temperature of 20°C and a relative humidity of the surrounding air only exceeding 65% for a few weeks per year.

NOTE: In Service Class 1 the average equilibrium moisture content in most softwoods will not exceed 12%.

SERVICE CLASS 2

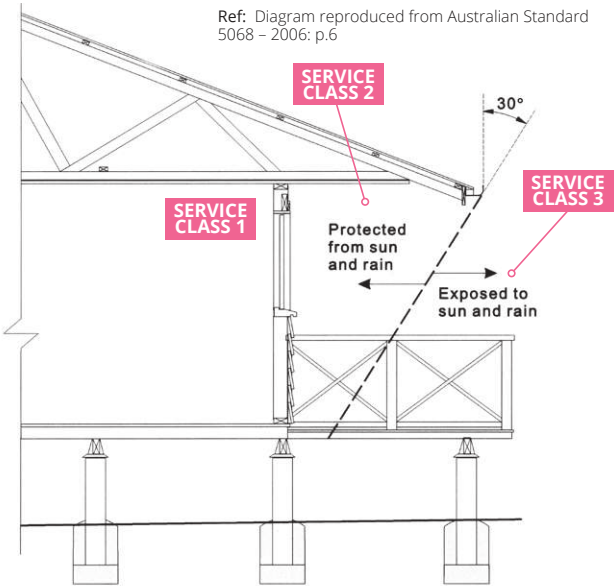
Service Class 2 shall be characterized by a material moisture content corresponding to a temperature of 20°C and a relative humidity of the surrounding air only exceeding 85% for a few weeks per year.

NOTE: In Service Class 2 the average equilibrium moisture content in most softwoods will not exceed 20%.

SERVICE CLASS 3

Service Class 3 shall be characterized by climatic conditions leading to higher moisture contents than Service Class 2, or where timber is directly exposed to sun and/or rain.

Ref: Diagram reproduced from Australian Standard 5068 - 2006: p.6



Product applications

Woodhouse Weatherproof® product members have been listed below with examples of the adhesive types required by AS 5068-2006:

FINGER JOINTED: STRUCTURAL		AS 5068-2006
Type of Adhesive for given Service Conditions	Product Member	Adhesive Types Permitted**
Service Class 1 Interior - Dry	F7 Structural Beams (unlaminated) Example: Floor joists	Type II Examples: • Melamine-urea formaldehyde (MUF) • EPI + Type I
Service Class 2 Internal - Humid External - Protected	F7 Structural Beams Examples: Rafters, Verandah Beams	Type I Examples: • Phenol-resorcinol formaldehyde • Resorcinol formaldehyde • Tannin-modified resorcinol • PUR
	GL8 Laminated Structural Beams and GL8 Laminated Posts Examples: Verandah Beams / Posts	Type I - AS/NZS1328 Examples: • Phenol-resorcinol formaldehyde • Resorcinol formaldehyde • Tannin-modified resorcinol • PUR
Service Class 3 Internal - Hot & Humid External - Exposed	F7 Structural Beams Example: Pergola Rafters	Type I Examples: • Phenol-resorcinol formaldehyde • Resorcinol formaldehyde • Tannin-modified resorcinol • PUR
	GL8 Laminated Structural Beams, GL8 Laminated Posts and Laminated Handrails Examples: Pergola Beams / Posts / Handrails	Type I - AS/NZS1328 Examples: • Phenol-resorcinol formaldehyde • Resorcinol formaldehyde • Tannin-modified resorcinol • PUR

** These adhesive examples do not represent an exhaustive list, and are for guideline purposes only. Ref: AS 5068-2006

Product Identification

All **Woodhouse Weatherproof®** branded products are end tagged to permit the correct selection for final use. Details such as the relevant Australian Standards; Adhesive type; and Structural Grading (if applicable) are indicated clearly on the product tags:



Span Tables

F7 Rafters - 30mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N1 Wind N2 Wind	MAXIMUM ALLOWABLE SPANS (mm)					
	Sheet Roof					
	Rafter Size	600	760	900	1000	1200
66 x 30	1400	1300		1200		1100
90 x 30	1900	1800		1700		1500
138 x 30	2900	2700		2600		2350
185 x 30	3600	3400		3150		2700

N3 Wind	MAXIMUM ALLOWABLE SPANS (mm)					
	Sheet Roof					
	Rafter Size	600	760	900	1000	1200
66 x 30	1250	1150		1050		950
90 x 30	1650	1550		1550		1300
138 x 30	2600	2300		2150		1800
185 x 30	3000	2650		2450		2150
230 x 30	3050	2650		2450		2150

**TECHNICAL DIAGRAM
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Span Tables

F7 Rafters - 30mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N4 Wind	MAXIMUM ALLOWABLE SPANS (mm)			
	Sheet Roof			
Rafter Size	600	760	900	1000
66 x 30	1050	950	850	800
90 x 30	1450	1300	1200	1100
138 x 30	2150	1900	1700	1600
185 x 30	2400	2200	1950	1850
230 x 30	2450	2200	2000	1900

N5 Wind	MAXIMUM ALLOWABLE SPANS (mm)			
	Sheet Roof			
Rafter Size	600	760	900	1000
66 x 30	850	750	700	700
90 x 30	1200	1050	1000	900
138 x 30	1700	1550	1400	1300
185 x 30	2000	1750	1600	1550
230 x 30	2000	1800	1600	1550

**TECHNICAL DIAGRAM
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Span Tables

F7 Rafters - 30mm

- ❑ All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- ❑ Product grading of all members is compliant with AS1720 : Timber Structures.
- ❑ Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- ❑ Finger Jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- ❑ Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- ❑ A maximum roof pitch of 25 degrees is assumed.

N6 Wind	MAXIMUM ALLOWABLE SPANS (mm)					
	Sheet Roof					
	600		760		900	
Rafter Size	Spacing (mm)		1000		1200	
66 x 30	700	650	600	550	500	
90 x 30	1050	900	800	750	750	
138 x 30	1450	1300	1200	1150	1050	
185 x 30	1700	1500	1350	1350	1200	
230 x 30	1700	1550	1400	1350	1200	

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Span Tables

F7 Rafters - 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
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N1 Wind N2 Wind	MAXIMUM ALLOWABLE SPANS (mm)														
	Sheet Roof						Tile Roof								
	Rafter Size						Spacing (mm)								
	600	760	900	1000	1200	600	760	900	1000	1200	600	760	900	1000	1200
66 x 42	1650	1630	1540	1480	1370	1280	1180	1110	1080	1010	1280	1180	1110	1080	1010
90 x 42	2400	2220	2100	2020	1900	1740	1610	1520	1470	1380	1900	1740	1610	1470	1380
138 x 42	3680	3400	3210	3100	2920	2660	2460	2330	2250	2120	2920	2660	2460	2330	2120
185 x 42	4590	4320	4140	4040	3860	3570	3300	3120	3010	2840	3860	3570	3300	3120	2840
230 x 42	5400	5090	4880	4750	4540	4440	4100	3880	3740	3520	4540	4440	4100	3880	3520
280 x 42	6260	5900	5650	5510	5260	5400	4990	4720	4560	4290	5260	4990	4720	4560	4290

N3 Wind	MAXIMUM ALLOWABLE SPANS (mm)															
	Sheet Roof						Tile Roof									
	Rafter Size						Spacing (mm)									
	600	760	900	1000	1200	600	760	900	1000	1200	600	760	900	1000	1200	
66 x 42	1530	1420	1340	1290	1220	1280	1180	1110	1080	1010	1220	1280	1180	1110	1080	1010
90 x 42	2090	1930	1830	1760	1660	1740	1610	1520	1470	1380	1660	1740	1610	1520	1470	1380
138 x 42	3200	2960	2800	2700	2540	2660	2460	2330	2250	2120	2540	2660	2460	2330	2250	2120
185 x 42	4130	3900	3730	3620	3350	3570	3300	3120	3010	2840	3350	3570	3300	3120	3010	2840
230 x 42	4870	4590	4400	4250	3810	4440	4100	3880	3740	3520	3810	4440	4100	3880	3740	3520
280 x 42	5640	5250	4780	4500	4040	5400	4990	4720	4560	4290	4040	4990	4720	4560	4290	

Span Tables

F7 Rafters - 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
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N4 Wind	MAXIMUM ALLOWABLE SPANS (mm)											
	Sheet Roof						Tile Roof					
	Rafter Size	600	760	900	1000	1200	Spacing (mm)	600	760	900	1000	1200
66 x 42	1340	1240	1170	1110	1010	1280	1180	1180	1110	1080	1010	1010
90 x 42	1830	1690	1600	1510	1380	1740	1610	1610	1520	1470	1380	1380
138 x 42	2810	2590	2450	2360	2120	2660	2460	2460	2330	2250	2120	2120
185 x 42	3740	3480	3180	2980	2660	3570	3300	3300	3120	3010	2820	2820
230 x 42	4410	3980	3610	3390	3020	4410	4100	4100	3840	3610	3230	3230
280 x 42	4800	4210	3830	3590	3210	5100	4480	4480	4080	3830	3430	3430

N5 Wind	MAXIMUM ALLOWABLE SPANS (mm)											
	Sheet Roof						Tile Roof					
	Rafter Size	600	760	900	1000	1200	Spacing (mm)	600	760	900	1000	1200
66 x 42	1170	1040	960	910	830	1190	1080	1080	990	940	860	860
90 x 42	1620	1420	1300	1240	1130	1620	1480	1480	1360	1290	1170	1170
138 x 42	2480	2250	2020	1900	1730	2480	2290	2290	2110	1970	1800	1800
185 x 42	3260	2840	2560	2390	2150	3320	2960	2960	2670	2500	2230	2230
230 x 42	3680	3220	2910	2720	2420	3830	3350	3350	3030	2840	2520	2520
280 x 42	3900	3410	3090	2890	2570	4060	3550	3550	3220	3020	2680	2680

Span Tables

F7 Rafters – 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N6 Wind	MAXIMUM ALLOWABLE SPANS (mm)														
	Sheet Roof						Tile Roof								
	Spacing (mm)						Spacing (mm)								
Rafter Size	600	760	900	1000	1200	600	760	900	1000	1200	600	760	900	1000	1200
66 x 42	1000	890	820	780	710	1030	920	840	800	730	1200	1030	920	840	730
90 x 42	1390	1210	1120	1060	970	1430	1250	1150	1090	990	1800	1430	1250	1150	990
138 x 42	2200	1900	1710	1620	1480	2230	1960	1760	1670	1520	3000	2230	1960	1760	1520
185 x 42	2770	2410	2160	2020	1840	2850	2480	2230	2080	1890	3600	2850	2480	2230	1890
230 x 42	3130	2730	2460	2300	2070	3230	2810	2530	2370	2130	4000	3230	2810	2530	2130
280 x 42	3320	2900	2610	2440	2180	3420	2980	2690	2520	2250	4200	3420	2980	2690	2250

**TECHNICAL DIAGRAM
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Span Tables

Verandah Beams F7 – 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
N1 Wind N2 Wind	Size D x B (mm)	Roof Load Width (mm)									
		600	900	1200	1500	1800	2100	2400	2700	3000	
	138 x 42	2920	2920	2830	2640	2450	2300	2180	2070	1980	
	185 x 42	3920	3740	3560	3270	3040	2860	2710	2570	2460	
	230 x 42	4690	4410	4000	3680	3420	3210	3040	2890	2760	
	280 x 42	5290	4670	4220	3890	3620	3400	3210	3060	2920	

		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
N3 Wind	Size D x B (mm)	Roof Load Width (mm)									
		600	900	1200	1500	1800	2100	2400	2700	3000	
	138 x 42	2800	2470	2240	2060	1910	1800	1700	1620	1550	
	185 x 42	2480	3070	2770	2550	2380	2230	2110	2010	1920	
	230 x 42	3910	3450	3120	2870	2670	2510	2370	2260	2160	
	280 x 42	4130	3640	3300	3030	2820	2650	2510	2380	2280	

TECHNICAL DIAGRAM
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Span Tables

Verandah Beams F7 – 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

MAXIMUM VERANDAH BEAM SPANS (mm)									
Sheet Roof									
N4 Wind		Roof Load Width (mm)							
Size D x B (mm)	600	900	1200	1500	1800	2100	2400	2700	3000
138 x 42	2260	2000	1810	1660	1550	1450	1370	1310	1250
185 x 42	2810	2480	2240	2060	1920	1800	1710	1620	1550
230 x 42	3160	2790	2520	2320	2160	2030	1920	1820	1740
280 x 42	3340	2940	2660	2450	2280	2140	2030	1930	1840

MAXIMUM VERANDAH BEAM SPANS (mm)									
Sheet Roof									
N5 Wind		Roof Load Width (mm)							
Size D x B (mm)	600	900	1200	1500	1800	2100	2400	2700	3000
138 x 42	1850	1630	1480	1360	1260	1190	1120	1070	1020
185 x 42	2300	2020	1830	1680	1570	1470	1390	1330	1270
230 x 42	2580	2280	2060	1890	1760	1660	1570	1490	1420
280 x 42	2730	2410	2180	2000	1860	1750	1660	1570	1500

**TECHNICAL DIAGRAM
ON PAGE 33**

Span Tables

Verandah Beams F7 – 42mm

- ❑ All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- ❑ Product grading of all members is compliant with AS1720 : Timber Structures.
- ❑ Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- ❑ Finger Jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- ❑ Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- ❑ A maximum roof pitch of 25 degrees is assumed.

N6 Wind		MAXIMUM VERANDAH BEAM SPANS (mm)									
		Sheet Roof									
Size D x B (mm)		600	900	1200	1500	1800	2100	2400	2700	3000	
138 x 42		1580	1400	1260	1160	1080	1020	960	910	870	
185 x 42		1970	1730	1570	1440	1340	1260	1190	1130	1080	
230 x 42		2210	1950	1760	1620	1510	1420	1340	1280	1220	
280 x 42		2340	2060	1860	1710	1600	1500	1420	1350	1290	

Refer to the formula on page 33 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
ON PAGE 33**

Span Tables

Verandah Beams F7- 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N1 Wind N2 Wind N3 Wind		MAXIMUM VERANDAH BEAM SPANS (mm)					
		Tile Roof					
Size D x B (mm)		1200	1800	2400	3000	4500	7500
138 x 42		1500	-	-	-	-	-
185 x 42		2450	2100	1900	1700	1550	-
230 x 42		3000	2600	2400	2200	1950	1650
280 x 42		3400	2850	2600	2400	2100	1800

Refer to the formula on page 33 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
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Span Tables

Verandah Beams GL8

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
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N1 Wind N2 Wind		MAXIMUM VERANDAH BEAM SPAN (mm)									
		Sheet Roof									
Size D x B (mm)		600	900	1200	1500	1800	2100	2400	2700	3000	
140 x 65		3160	3000	2830	2640	2450	2300	2180	2070	1980	
180 x 65		3990	3740	3560	3410	3290	3090	2920	2780	2660	
240 x 65		4690	4410	4190	4020	3880	3760	3590	3420	3260	
280 x 65		5440	5110	4860	4660	4500	4360	4170	3970	3790	

N3 Wind		MAXIMUM VERANDAH BEAM SPAN (mm)									
		Sheet Roof									
Size D x B (mm)		600	900	1200	1500	1800	2100	2400	2700	3000	
140 x 65		2800	2470	2240	2060	1910	1800	1700	1620	1550	
180 x 65		3590	3310	3000	2760	2570	2410	2280	2170	2070	
240 x 65		4230	3970	3680	3390	3150	2960	2800	2660	2550	
280 x 65		4900	4600	4280	3930	3660	3440	3250	3100	2960	

Span Tables

Verandah Beams GL8

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
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N4 Wind		MAXIMUM VERANDAH BEAM SPAN (mm)							
		Sheet Roof							
Size D x B (mm)	600	900	1200	1500	1800	2100	2400	2700	3000
140 x 65	2260	2000	1810	1660	1550	1450	1370	1310	1250
180 x 65	3040	2680	2420	2230	2070	1950	1840	1750	1670
240 x 65	3730	3290	2980	2740	2550	2390	2260	2150	2060
280 x 65	4330	3820	3460	3180	2960	2780	2630	2500	2390

N5 Wind		MAXIMUM VERANDAH BEAM SPAN (mm)							
		Sheet Roof							
Size D x B (mm)	600	900	1200	1500	1800	2100	2400	2700	3000
140 x 65	1850	1630	1480	1360	1260	1190	1120	1070	1020
180 x 65	2480	2190	1980	1820	1690	1590	1510	1430	1370
240 x 65	3050	2690	2430	2240	2080	1960	1850	1760	1680
280 x 65	3540	3120	2820	2600	2420	2270	2150	2040	1950

Span Tables

Verandah Beams GL8

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger Jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N6 Wind		MAXIMUM VERANDAH BEAM SPAN (mm)									
		Sheet Roof									
Size D x B (mm)		600	900	1200	1500	1800	2100	2400	2700	3000	
140 x 65		1580	1400	1260	1160	1080	1020	960	910	870	
180 x 65		2120	1870	1690	1560	1450	1360	1290	1230	1170	
240 x 65		2610	2300	2080	1910	1780	1670	1580	1510	1440	
280 x 65		3030	2670	2420	2220	2070	1950	1840	1750	1670	

Refer to the formula on page 33 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
ON PAGE 33**

Span Tables

Verandah Beams GL8

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N1 Wind N2 Wind N3 Wind	MAXIMUM VERANDAH BEAM SPAN (mm)					
	Tile Roof					
Size D x B (mm)	1200	1500	1800	2400	3000	
140 x 65	2500	2400	2200	2100	1900	
180 x 65	2900	2800	2600	2400	2200	
240 x 65	4200	4000	3600	3200	3000	
280 x 65	4600	4200	4000	3600	3400	

Refer to the formula on page 33 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
ON PAGE 33**

Span Tables

Ridge Beams F7 – 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
ON PAGE 34**

		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
N1 Wind N2 Wind	Size D x B (mm)	Roof Load Width (mm)									
		1200	1800	2400	3000	3600	4200	4800	5400	6000	
	66 x 42	1040	1040	1010	980	930	860	800	760	720	
	90 x 42	1660	1660	1550	1390	1260	1170	1100	1030	980	
	138 x 42	2920	2740	2380	2120	1940	1800	1680	1580	1500	
	185 x 42	3860	3480	3180	2850	2600	2410	2250	2120	2010	
	230 x 42	4540	4100	3820	3540	3230	2990	2800	2640	2500	
	280 x 42	5260	4750	4420	4180	3940	3640	3410	3210	3050	

		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
N3 Wind	Size D x B (mm)	Roof Load Width (mm)									
		1200	1800	2400	3000	3600	4200	4800	5400	6000	
	66 x 42	1040	1020	890	790	720	670	630	590	560	
	90 x 42	1660	1400	1210	1080	990	910	850	810	760	
	138 x 42	2640	2410	1850	1660	1510	1400	1310	1240	1170	
	185 x 42	3480	2870	2480	2220	2030	1880	1760	1660	1570	
	230 x 42	4090	3570	3090	2760	2520	2330	2180	2060	1950	
	280 x 42	4740	4290	3760	3360	3070	2840	2660	2510	2380	

Span Tables

Ridge Beams F7 - 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
ON PAGE 34**

N4 Wind		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
Size D x B (mm)	1200	1800	2400	3000	3600	4200	4800	5400	6000		
66 x 42	1010	830	720	640	580	540	510	480	450		
90 x 42	1380	1130	980	870	800	740	690	650	620		
138 x 42	2120	1730	1500	1340	1220	1130	1060	1000	950		
185 x 42	2900	2320	2010	1800	1640	1520	1420	1340	1270		
230 x 42	3670	2880	2500	2230	2040	1890	1770	1660	1580		
280 x 42	4300	3510	3040	2720	2480	2300	2150	2030	1920		

N5 Wind		MAXIMUM ALLOWABLE SPANS (mm)									
		Sheet Roof									
Size D x B (mm)	1200	1800	2400	3000	3600	4200	4800	5400	6000		
66 x 42	830	680	590	520	480	440	410	390	370		
90 x 42	1130	920	800	710	650	600	560	530	500		
138 x 42	1730	1410	1220	1090	1000	920	870	820	770		
185 x 42	2320	1890	1640	1470	1340	1240	1160	1090	1040		
230 x 42	2950	2350	2040	1820	1670	1540	1440	1360	1290		
280 x 42	3650	2870	2480	2220	2030	1880	1760	1660	1570		

Span Tables

Ridge Beams F7 – 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 parts 1 & 2 : Structural Design Actions.
- Finger Jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

N6 Wind	MAXIMUM ALLOWABLE SPANS (mm)									
	Sheet Roof									
	Size D x B (mm)	1200	1800	2400	3000	3600	4200	4800	5400	6000
66 x 42	710	580	500	450	410	380	350	330	320	320
90 x 42	970	790	680	610	560	520	480	460	430	430
138 x 42	1480	1210	1050	940	860	790	740	700	660	660
185 x 42	1990	1620	1400	1260	1150	1060	990	940	890	890
230 x 42	2480	2020	1750	1560	1430	1320	1230	1160	1100	1100
280 x 42	3090	2450	2130	1900	1740	1610	1500	1420	1340	1340

Refer to the formula on page 34 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
ON PAGE 34**

Span Tables

Ridge Beams F7 - 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

**TECHNICAL DIAGRAM
ON PAGE 34**

N1 Wind N2 Wind	MAXIMUM VERANDAH BEAM SPAN (mm)			
	Tile Roof			
Size D x B (mm)	1500	3000	4500	6000
138 x 42	2000	1500	1300	1100
185 x 42	2600	2000	1700	1500
230 x 42	3150	2500	2100	1900
280 x 42	4500	3600	3000	2700

N3 Wind	MAXIMUM VERANDAH BEAM SPAN (mm)			
	Tile Roof			
Size D x B (mm)	1500	3000	4500	6000
138 x 42	1900	1450	1250	1050
185 x 42	2500	2000	1600	1500
230 x 42	3100	2450	2100	1850
280 x 42	4500	3500	3100	2650

Span Tables

Ridge Beams F7 – 42mm

- ❑ All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- ❑ Product grading of all members is compliant with AS1720 : Timber Structures.
- ❑ Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- ❑ Finger Jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- ❑ Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- ❑ A maximum roof pitch of 25 degrees is assumed.

N4 Wind	MAXIMUM VERANDAH BEAM SPAN (mm)					
	Tile Roof					
Size D x B (mm)	1500	3000	4500	6000	7500	
138 x 42	1900	1450	1250	1050	950	
185 x 42	2500	2000	1650	1500	1350	
230 x 42	3150	2450	2150	1750	1600	
280 x 42	3700	2800	2500	2000	1800	

Refer to the formula on page 34 for Roof Load Width (RLW) Calculations.

**TECHNICAL DIAGRAM
ON PAGE 34**

Span Tables

Internal Floor Joists F7 - 42mm

- All members are manufactured from H3 LOSP Radiata to either an F7 or GL8 structural grade and are to be used in accordance with the relevant span table.
- Product grading of all members is compliant with AS1720 : Timber Structures.
- Structural members deemed satisfactory to meet the provisions outlined in AS1170 Parts 1 & 2 : Structural Design Actions.
- Finger jointing and adhesives to meet Service Conditions outlined in AS5068 : 2006 Finger Joints in Structural Products.
- Construction details should be in accordance with AS1684.2: Residential Timber-Framed Construction.
- A maximum roof pitch of 25 degrees is assumed.

Size D x B (mm)	ALLOWABLE SPANS (mm)		
	Single Span		
	400	450	600
66 x 42	1060	1050	1030
90 x 42	1450	1450	1420
138 x 42	2260	2250	2220
185 x 42	3060	3050	3010
230 x 42	3830	3810	3770
280 x 42	4700	4670	4620

1.5 KPa Live Load

NOTE: Spans may be increased by 10% when continuous over 2 or more spans.

TECHNICAL DIAGRAM
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Span Tables

Deck Bearers F7

□ Disclaimer applies as per page 31.

Size D x B (mm)	MAXIMUM ALLOWABLE SPANS (mm) - Single Spans								
	1200	1800	2400	3000	3600	4200	4800	5400	6000
138 x 42	1530	1250	1100	1000	920	860	810	770	730
185 x 42	2070	1730	1530	1380	1270	1180	1110	1050	1000
230 x 42	2640	2210	1940	1750	1610	1490	1400	1330	1260
280 x 42	3290	2730	2390	2160	1980	1840	1730	1630	1550

3.0 KPa Live Load - Single Span

NOTE: Spans may be increased by 10% when continuous over 2 or more spans. Refer to the formula on page 35 for Floor Load Width (FLW) Calculations.

Deck Bearers GL8

□ Disclaimer applies as per page 31.

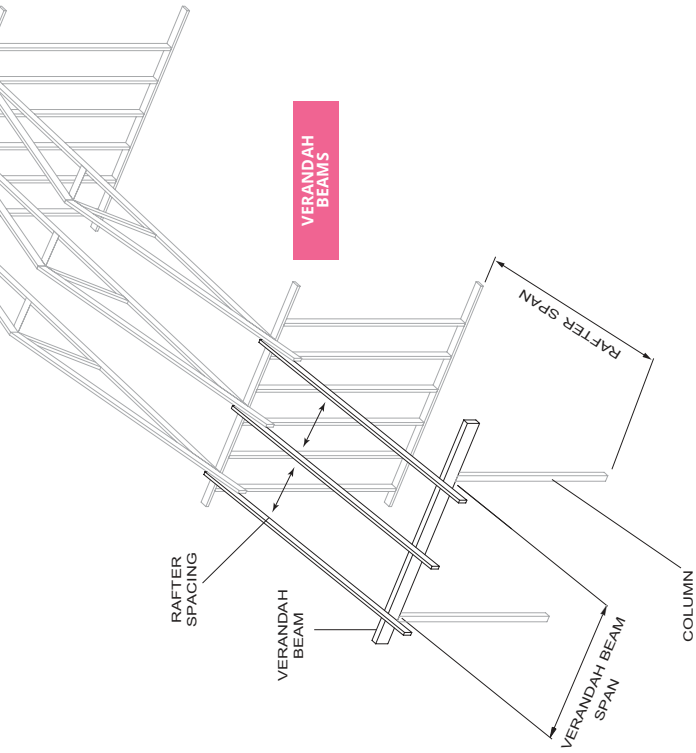
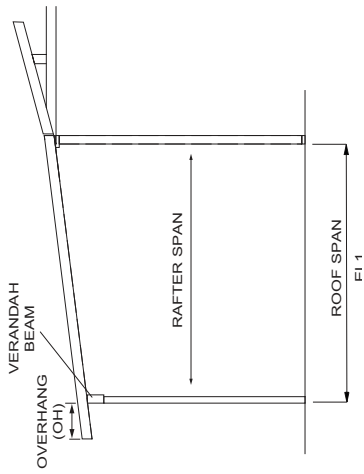
Size D x B (mm)	MAXIMUM ALLOWABLE SPANS (mm) - Single Spans								
	1200	1800	2400	3000	3600	4200	4800	5400	6000
140 x 65	1950	1650	1450	1320	1210	1120	1060	1010	960
180 x 65	2580	2160	1890	1720	1570	1460	1380	1310	1250
240 x 65	3500	2920	2550	2310	2110	1960	1840	1740	1660
280 x 65	4130	3440	3000	2710	2480	2290	2140	2010	1900

3.0 KPa Live Load - Single Span

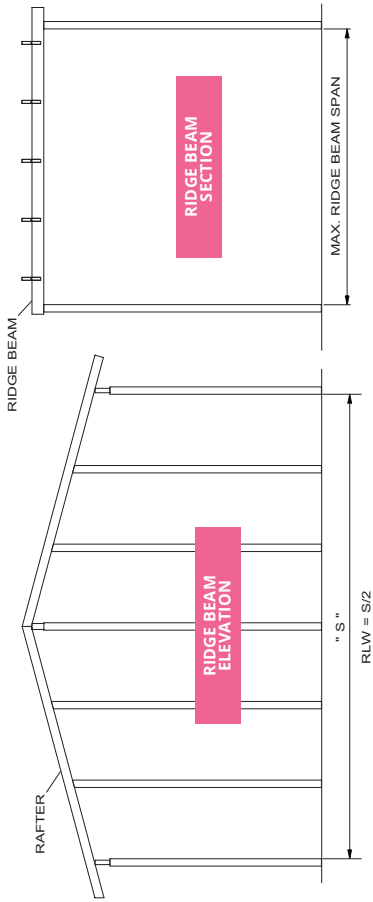
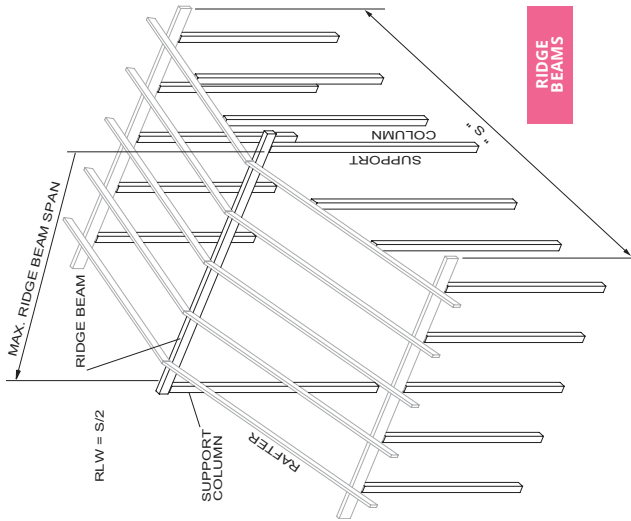
NOTE: Spans may be increased by 10% when continuous over 2 or more spans. Refer to the formula on page 35 for Floor Load Width (FLW) Calculations.

TECHNICAL DIAGRAM
ON PAGE 35

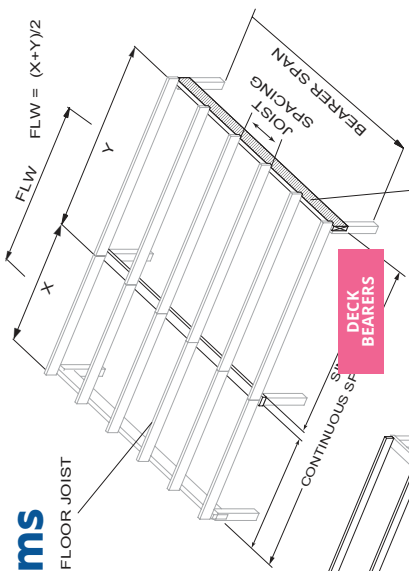
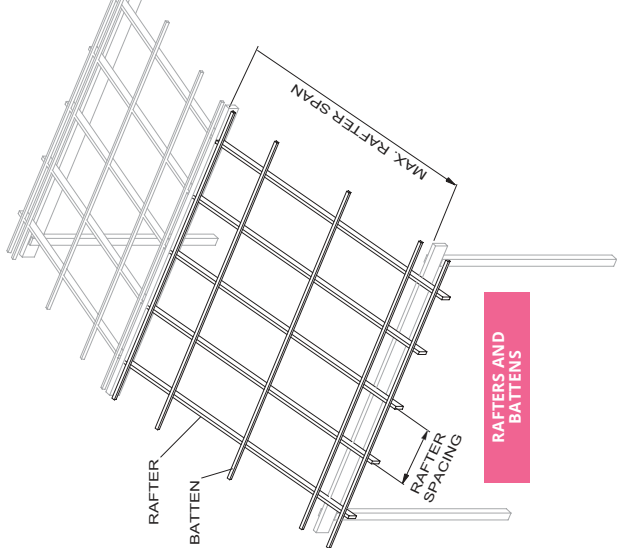
Technical Diagrams



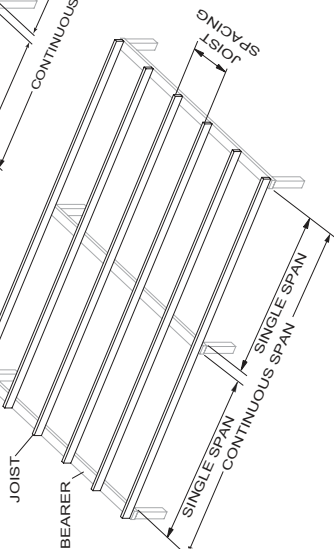
Technical Diagrams



Technical Diagrams



INTERNAL FLOOR JOISTS AND DECK JOISTS





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