



Sawn Size Charts

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Naturesmark Knotty Appearance Grade

DECK BEARERS: less than 1m off the ground Dead load: 20 kg/m ² , Live load: 1.5kPa						
Size DxB (mm)	Floor load Width (mm)					
	1800	2100	2400	1800	2100	2400
	Maximum Bearer Span (mm)					
	Span	Span	Span	Span	Span	Span
	Single Span			Continuous Span		
150 x 75	2100	2000	1800	2000	1700	1500
200 x 75	2800	2600	2500	2600	2300	2000
250 x 75	3600	3300	3100	3300	2900	2600
300 x 75	4200	4000	3700	4000	3500	3100
150 x 100	2500	2300	2100	2500	2200	2000
200 x 100	3300	3000	2800	3300	3000	2600
250 x 100	3900	3800	3600	4100	3700	3300
300 x 100	4500	4400	4200	4900	4400	4000

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

DECK BEARERS: more than 1m off the ground Dead load: 20 kg/m², Live load: 2kPa						
Size DxB (mm)	Floor load Width (mm)					
	1800	2100	2400	1800	2100	2400
	Maximum Bearer Span (mm)					
	Span	Span	Span	Span	Span	Span
	Single Span			Continuous Span		
150 x 75	1900	1700	1600	1600	1400	1200
200 x 75	2500	2300	2100	2100	1800	1600
250 x 75	3100	2900	2700	2600	2300	2100
300 x 75	3800	3500	3200	3200	2800	2500
150 x 100	2200	2000	1900	2000	1800	1600
200 x 100	2900	2700	2500	2700	2400	2100
250 x 100	3600	3400	3100	3400	3000	2600
300 x 100	4200	4000	3800	4100	3600	3200

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

DECK JOISTS: less than 1m off the ground Dead load: 20 kg/m2, Live load: 1.5kPa				
Size DxB (mm)	Joist Spacing (mm)			
	450 (mm)		450 (mm)	
	Maximum Floor Joist Span (m)			
	Span	Cantilever	Span	Cantilever
	Single Span		Continuous Span	
95 x 45	600	300	800	400
145 x 45	2100	800	2700	700
195 x 45	3400	1000	3700	950
245 x 45	4400	1250	4700	1200
295 x 45	5200	1500	5700	1450

Note : Where joist size D/B>4 restraint may be required. Refer Clause 4.2.2.3

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note: Maximum deck joist span is based on supporting a maximum decking mass of 20 kg/m²

Note * Additional bracing to reduce bounce is recommended for spans greater than 3600mm



Naturesmark Knotty Appearance Grade

DECK JOISTS: more than 1m off the ground Dead load: 20 kg/m2, Live load: 2kPa				
Size DxB (mm)	Joist Spacing (mm)			
	450 (mm)		450 (mm)	
	Maximum Floor Joist Span (m)			
	Span	Cantilever	Span	Cantilever
	Single Span		Continuous Span	
95 x 45	600	300	800	400
145 x 45	2100	800	2400	750
195 x 45	3400	1000	3300	1000
245 x 45 *	4200	1250	4100	1250
295 x 45 *	4800	1500	5000	1500

Note : Where joist size D/B>4 restraint may be required. Refer Clause 4.2.2.3

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note: Maximum deck joist span is based on supporting a maximum decking mass of 20 kg/m²

Note * Additional bracing to reduce bounce is recommended for spans greater than 3600mm



Naturesmark Knotty Appearance Grade

POST SUPPORTING ROOF AND/OR DECK FLOOR LOAD: Wind classification N1 / N2

Roof Load Area (m2)	Deck Floor Load Area (m2)											
	0				10				20			
	5	10	20	40	5	10	20	40	5	10	20	40
Size DxB (mm)	Maximum Post Height (mm)											
Sheet Roof												
100 x 100	4800	3600	2600	1800	4100	3200	2400	NS	3500	2900	2200	NS
150 x150	4800	4800	4800	4100	4800	4800	4800	3900	4800	4800	4800	3800

Tile Roof												
100 x 100	4700	3300	2400	NS	3900	3000	2200	NS	3300	2700	2100	NS
150 x 150	4800	4800	4800	3800	4800	4800	4800	3600	4800	4800	4700	3500

- Notes:
- 1) Posts designed as a stud supporting a concentrated load
 - 2) Design values based on max sheet roof mass of 40 kg/m²
 - 3) Design values based on max tile roof mass of 51 kg/m²
 - 4) Design values based on max deck floor mass of 20 kg/m²

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

	POST SUPPORTING ROOF AND/OR DECK FLOOR LOAD: Wind classification N3											
	Deck Floor Load Area (m2)											
	0				10				20			
Roof Load Area (m2)	5	10	20	40	5	10	20	40	5	10	20	40
Size DxB (mm)	Maximum Post Height (mm)											
Sheet Roof												
100 x 100	4800	3600	2600	1800	4100	3200	2400	NS	3500	2900	2200	NS
150 x150	4800	4800	4800	4100	4800	4800	4800	3900	4800	4800	4800	3800

Tile Roof												
100 x 100	4700	3300	2400	NS	3900	3000	2200	NS	3300	2700	2100	NS
150 x 150	4800	4800	4800	3800	4800	4800	4800	3600	4800	4800	4700	3500

- Notes:
- 1) Posts designed as a stud supporting a concentrated load
 - 2) Design values based on max sheet roof mass of 40 kg/m²
 - 3) Design values based on max tile roof mass of 51 kg/m²
 - 4) Design values based on max deck floor mass of 20 kg/m²

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 75	10	3300	3600	3000	3200	2700	3000	2500	2700
	20	3100	3300	2800	3000	2500	2700	2300	2500
	40	2800	3000	2500	2600	2200	2300	1900	2100
	60	2600	2700	2300	2300	1900	2000	1700	1600
200 X 75	10	4100	4400	3700	4000	3400	3800	3300	3500
	20	3800	4100	3500	3700	3300	3500	3000	3300
	40	3500	3700	3200	3300	2800	3000	2500	2700
	60	3300	3400	2900	3000	2500	2600	2200	2400
250 X 75	10	4800	5200	4400	4800	4100	4500	3900	4200
	20	4500	4800	4100	4400	3900	4100	3600	3900
	40	4200	4400	3800	4000	3500	3700	3100	3300
	60	3900	4100	3600	3700	3000	3100	2700	2800
300 X 75	10	5500	5900	5000	5400	4700	5100	4400	4800
	20	5200	5500	4700	5000	4400	4700	4200	4500
	40	4800	5000	4300	4500	4100	4200	3700	4000
	60	4500	4600	4100	4200	3600	3800	3200	3300

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continous Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 75	10	3900	3900	3100	3100	2600	2600	2300	2300
	20	4100	4100	3200	3200	2800	2800	2500	2500
	40	3700	3700	2900	2900	2500	2500	2300	2300
	60	3000	3000	2400	2400	2100	2100	1900	1900
200 X 75	10	5300	5300	4200	4200	3500	3500	3100	3100
	20	5600	5600	4400	4400	3700	3700	3300	3300
	40	5000	5000	3900	3900	3400	3400	3000	3000
	60	4100	4100	3200	3200	2800	2800	2500	2500
250 X 75	10	6800	6800	5300	5300	4400	4400	4000	4000
	20	7100	7100	5600	5600	4700	4700	4200	4200
	40	6200	6200	5000	5000	4200	4200	3800	3800
	60	5200	5200	4100	4100	3500	3500	3200	3200
300 X 75	10	8000	8000	6500	6500	5400	5400	4800	4800
	20	8000	8000	6900	6900	5700	5700	5000	5000
	40	7500	7500	6000	6000	5100	5100	4500	4500
	60	6200	6200	5000	5000	4200	4200	3800	3800

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 75	10	3200	3300	2700	2500	2300	2000	2000	1600
	20	3100	3300	2800	2600	2400	2200	2100	1700
	40	2800	3000	2500	2600	2200	2300	1900	2000
	60	2600	2700	2300	2300	1900	2000	1700	1600
200 X 75	10	4100	4100	3600	3500	3000	3000	2800	2700
	20	3800	4100	3500	3500	3100	3100	2900	2800
	40	3500	3700	3200	3300	2800	3000	2500	2700
	60	3300	3400	2900	3000	2500	2600	2200	2400
250 X 75	10	4800	5200	4400	4200	4000	3600	3600	3500
	20	4500	4800	4100	4300	3900	3800	3600	3500
	40	4200	4400	3800	4000	3500	3700	3100	3300
	60	3900	4100	3600	3700	3000	3100	2700	2800
300 X 75	10	5500	5900	5000	5400	4700	4600	4300	4000
	20	5200	5500	4700	5000	4400	4700	4200	4200
	40	4800	5000	4300	4500	4100	4200	3700	4000
	60	4500	4600	4100	4200	3600	3800	3200	3300

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Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 75	10	3000	3000	2400	2400	2100	2100	1800	1800
	20	3100	3100	2500	2500	2100	2100	1900	1900
	40	3200	3200	2600	2600	2200	2200	2000	2000
	60	2900	2900	2300	2300	2000	2000	1800	1800
200 X 75	10	4100	4100	3200	3200	2800	2800	2500	2500
	20	4300	4300	3300	3300	2800	2800	2500	2500
	40	4400	4400	3400	3400	3000	3000	2600	2600
	60	4000	4000	3100	3100	2700	2700	2400	2400
250 X 75	10	5200	5200	4100	4100	3500	3500	3100	3100
	20	5400	5400	4200	4200	3600	3600	3200	3200
	40	5500	5500	4300	4300	3700	3700	3300	3300
	60	5000	5000	4000	4000	3400	3400	3000	3000
300 X 75	10	6400	6400	5000	5000	4200	4200	3700	3700
	20	6600	6600	5200	5200	4300	4300	3800	3800
	40	6600	6600	5300	5300	4400	4400	4000	4000
	60	6100	6100	4800	4800	4100	4100	3700	3700

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 100	10	3500	3800	3200	3500	3000	3200	2800	3100
	20	3300	3500	3000	3200	2800	3000	2600	2800
	40	3100	3200	2700	2900	2500	2600	2200	2400
	60	2800	3000	2500	2600	2200	2300	1900	2000
200 X 100	10	4300	4700	3900	4300	3700	4000	3500	3800
	20	4100	4400	3700	4000	3500	3700	3300	3500
	40	3800	4000	3400	3600	3200	3300	2900	3000
	60	3600	3700	3200	3300	2800	2900	2500	2700
250 X 100	10	5100	5500	4700	5100	4400	4800	4100	4500
	20	4800	5100	4400	4700	4100	4400	3900	4200
	40	4500	4700	4100	4300	3800	4000	3600	3700
	60	4200	4300	3800	3900	3500	3600	3100	3200
300 X 100	10	5800	6300	5300	5800	5000	5400	4700	5200
	20	5500	5900	5000	5400	4700	5000	4500	4800
	40	5100	5300	4600	4900	4300	4500	4100	4300
	60	4800	5000	4400	4500	4100	4200	3700	3900

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Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 100	10	4600	4600	3600	3600	3100	3100	2700	2700
	20	4900	4900	3800	3800	3200	3200	2900	2900
	40	4300	4300	3300	3300	2900	2900	2600	2600
	60	3500	3500	2800	2800	2400	2400	2200	2200
200 X 100	10	6300	6300	4900	4900	4100	4100	3700	3700
	20	6500	6500	5200	5200	4300	4300	3800	3800
	40	5700	5700	4600	4600	3900	3900	3500	3500
	60	4700	4700	3800	3800	3200	3200	2900	2900
250 X 100	10	8000	8000	6300	6300	5200	5200	4600	4600
	20	8000	8000	6600	6600	5500	5500	4800	4800
	40	7100	7100	5800	5800	4900	4900	4300	4300
	60	5900	5900	4800	4800	4100	4100	3600	3600
300 X 100	10	8000	8000	7600	7600	6400	6400	5500	5500
	20	8000	8000	7900	7900	6700	6700	5800	5800
	40	8000	8000	7000	7000	5900	5900	5200	5200
	60	7100	7100	5800	5800	4900	4900	4400	4400

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 100	10	3500	3500	3000	3000	2700	2500	2400	2200
	20	3300	3500	3000	3200	2800	2600	2500	2400
	40	3100	3200	2700	2900	2500	2600	2200	2400
	60	2800	3000	2500	2600	2200	2300	1900	2000
200 X 100	10	4300	4700	3900	3800	3700	3500	3200	3300
	20	4100	4400	3700	3900	3500	3500	3300	3500
	40	3800	4000	3400	3600	3200	3300	2900	3000
	60	3600	3700	3200	3300	2800	2900	2500	2700
250 X 100	10	5100	5500	4700	5100	4400	4400	4100	3800
	20	4800	5100	4400	4700	4100	4400	3900	4000
	40	4500	4700	4100	4300	3800	4000	3600	3700
	60	4200	4300	3800	3900	3500	3600	3100	3200
300 X 100	10	5800	6300	5300	5800	5000	5400	4700	4900
	20	5500	5900	5000	5400	4700	5000	4500	4800
	40	5100	5300	4600	4900	4300	4500	4100	4300
	60	4800	5000	4400	4500	4100	4200	3700	3900

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
150 X 100	10	3500	3500	2800	2800	2400	2400	2100	2100
	20	3600	3600	2900	2900	2500	2500	2200	2200
	40	3700	3700	2900	2900	2600	2600	2300	2300
	60	3400	3400	2700	2700	2300	2300	2100	2100
200 X 100	10	4800	4800	3700	3700	3200	3200	2900	2900
	20	5000	5000	3900	3900	3300	3300	2900	2900
	40	5000	5000	4000	4000	3400	3400	3100	3100
	60	4600	4600	3600	3600	3100	3100	2800	2800
250 X 100	10	6100	6100	4800	4800	4000	4000	3600	3600
	20	6300	6300	5000	5000	4100	4100	3700	3700
	40	6300	6300	5100	5100	4300	4300	3800	3800
	60	5800	5800	4600	4600	3900	3900	3500	3500
300 X 100	10	7400	7400	5800	5800	4900	4900	4300	4300
	20	7700	7700	6000	6000	5000	5000	4500	4500
	40	7600	7600	6100	6100	5200	5200	4600	4600
	60	7000	7000	5600	5600	4700	4700	4200	4200

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Naturesmark Knotty Appearance Grade

RAFTERS: Wind N1 / N2 - Rafter pitching 10 degree maximum

RAFTERS: Wind N1 / N2 - Rafter pitching 10 degree maximum														
Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)												
		450 (mm)			600 (mm)		900 (mm)		450 (mm)		600 (mm)		900 (mm)	
		Maximum Rafter Span & Overhang (mm)												
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H	
		Single Span						Continuous Span						
95 x 45	10	1500	390	1100	385	1100	385	2500	390	1900	385	1400	385	
	20	1400	390	1100	385	1100	380	2300	390	1800	385	1300	385	
	40	1300	385	1100	380	1000	375	2100	385	1500	380	1300	375	
	60	1200	380	1000	375	1000	365	1900	380	1400	375	1200	365	
145 x 45	10	5000	770	4200	765	3100	755	5000	770	4300	765	3400	755	
	20	4500	760	3700	755	2800	740	5000	760	4300	755	3600	740	
	40	3700	745	3000	730	2200	710	4600	745	4000	730	3200	710	
	60	3200	730	2700	710	2000	685	3900	730	3300	710	2700	685	
195 x 45	10	6900	1200	5900	1200	4700	1200	6900	1200	5900	1200	4700	1200	
	20	5900	1200	5500	1200	4700	1200	6300	1200	5900	1200	4700	1200	
	40	4900	1200	4500	1200	4000	1135	5300	1200	5000	1200	4400	1135	
	60	4400	1200	4000	1145	3400	990	4800	1200	4500	1145	3600	990	
245 x45	10	8000	1200	7500	1200	5900	1200	8000	1200	7500	1200	5900	1200	
	20	7300	1200	6800	1200	5900	1200	7500	1200	7100	1200	5900	1200	
	40	6100	1200	5600	1200	5000	1200	6400	1200	6000	1200	5400	1200	
	60	5500	1200	5000	1200	4400	1200	5800	1200	5400	1200	4600	1200	
295 x 45	10	8000	1200	8000	1200	7200	1200	8000	1200	7500	1200	7200	1200	
	20	8000	1200	6800	1200	7200	1200	8000	1200	7100	1200	7200	1200	
	40	7300	1200	5600	1200	6000	1200	7500	1200	6000	1200	6300	1200	
	60	6500	1200	5000	1200	5300	1200	6700	1200	5400	1200	5500	1200	

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

RAFTERS: Wind N3 - Rafter pitching 10 degree maximum

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)											
		450 (mm)		600 (mm)		900 (mm)		450 (mm)		600 (mm)		900 (mm)	
		Maximum Rafter Span & Overhang (mm)											
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
		Single Span						Continuous Span					
95 x 45	10	1500	390	1200	390	1100	385	2500	390	1900	390	1400	385
	20	1400	390	1100	385	1100	380	2300	390	1800	385	1300	380
	40	1300	385	1100	380	1000	375	2100	385	1500	380	1300	375
	60	1200	380	1000	375	1000	365	1900	380	1400	375	1200	365
145 x 45	10	3900	770	3300	765	2600	755	3900	770	3300	765	2600	755
	20	3900	760	3300	755	2600	740	3900	760	3300	755	2600	740
	40	3700	745	3000	730	2200	710	3900	745	3300	730	2600	710
	60	3200	730	2700	710	2000	685	3800	730	3200	710	2600	685
195 x 45	10	5300	1200	4500	1200	3600	1200	5300	1200	4500	1200	3600	1200
	20	5300	1200	4500	1200	3600	1200	5300	1200	4500	1200	3600	1200
	40	4900	1200	4500	1200	3600	1135	5300	1200	4500	1200	3600	1135
	60	4400	1200	4000	1145	3400	1075	4800	1200	4000	1145	3500	1075
245 x45	10	6700	1200	5800	1200	4600	1200	6700	1200	5800	1200	4600	1200
	20	6700	1200	5800	1200	4600	1200	6700	1200	5800	1200	4600	1200
	40	6100	1200	5600	1200	4600	1200	6400	1200	5800	1200	4600	1200
	60	5500	1200	5000	1200	4400	1200	5800	1200	5400	1200	4500	1200
295 x 45	10	8000	1200	7000	1200	5600	1200	8000	1200	7000	1200	5600	1200
	20	8000	1200	7000	1200	5600	1200	8000	1200	7000	1200	5600	1200
	40	7300	1200	6700	1200	5600	1200	7500	1200	6700	1200	5600	1200
	60	6500	1200	6000	1200	5300	1200	6700	1200	6000	1200	5400	1200

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

DECK BEARERS: less than 1m off the ground Dead load: 20 kg/m ² , Live load: 1.5kPa						
Size DxB (mm)	Floor load Width (mm)					
	1800	2100	2400	1800	2100	2400
	Maximum Bearer Span (mm)					
	Span	Span	Span	Span	Span	Span
	Single Span			Continuous Span		
140 X 70	1900	1800	1600	1900	1800	1600
190 X 70	2700	2500	2300	2700	2500	2300
240 X 70	3400	3200	3000	3400	3200	3000
290 X 70	4200	3900	3600	4200	3900	3600
90 X 90	1000	900	900	1300	1200	1100
140 X 90	2200	2000	1900	2200	2000	1900
190 X 90	3100	2800	2600	3100	2800	2600
240 X 90	3900	3600	3400	3900	3600	3400
290 X 90	4800	4400	4100	4800	4400	4100

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

DECK BEARERS: more than 1m off the ground Dead load: 20 kg/m2, Live load: 2kPa						
Size DxB (mm)	Floor load Width (mm)					
	1800	2100	2400	1800	2100	2400
	Maximum Bearer Span (mm)					
	Span	Span	Span	Span	Span	Span
	Single Span			Continuous Span		
140 X 70	1700	1500	1400	1700	1500	1400
190 X 70	2300	2100	2000	2300	2100	2000
240 X 70	3000	2800	2600	3000	2800	2600
290 X 70	3700	3400	3200	3700	3400	3200
90 X 90	1000	900	900	1100	1000	1000
140 X 90	1800	1800	1600	1900	1800	1600
190 X 90	2700	2500	2300	2700	2500	2300
240 X 90	3400	3200	3000	3400	3200	3000
290 X 90	4200	3900	3600	4200	3900	3600



Naturesmark Knotty Appearance Grade

DECK JOISTS: more than 1m off the ground
Dead load: 20 kg/m², Live load: 2kPa

Size DxB (mm)	Joist Spacing (mm)			
	450 (mm)		450 (mm)	
	Maximum Floor Joist Span (m)			
	Span	Cantilever	Span	Cantilever
	Single Span		Continuous Span	
90 x 38	500	250	600	300
135 x 38	1300	650	2000	650
185 x 38	2800	950	2800	950
235 x 38 *	3600	1150	3600	1150
285 x 38 *	4400	1400	4400	1400

Note * Additional bracing to reduce bounce is recommended for spans greater than 3600mm

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note: Maximum deck joist span is based on supporting a maximum decking mass of 20 kg/m²

Note : Where joist size D/B>4 restraint may be required. Refer Clause 4.2.2.3



Naturesmark Knotty Appearance Grade

DECK JOISTS: less than 1m off the ground
Dead load: 20 kg/m², Live load: 1.5kPa

Size DxB (mm)	Joist Spacing (mm)			
	450 (mm)		450 (mm)	
	Maximum Floor Joist Span (m)			
	Span	Cantilever	Span	Cantilever
	Single Span		Continuous Span	
90 x 38	500	250	600	300
135 x 38	1300	650	2100	600
185 x 38	3000	900	3200	900
235 x 38 *	3900	1150	4100	1100
285 x 38 *	4800	1350	5000	1350

Note * Additional bracing to reduce bounce is recommended for spans greater than 3600mm

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note: Maximum deck joist span is based on supporting a maximum decking mass of 20 kg/m²

Note : Where joist size D/B>4 restraint may be required. Refer Clause 4.2.2.3



Naturesmark Knotty Appearance Grade

POST SUPPORTING ROOF AND/OR DECK FLOOR LOAD: Wind classification N1 / N2

Deck Floor Load Area (m2)

	0				10				20			
Roof Load Area (m2)	5	10	20	40	5	10	20	40	5	10	20	40
Size DxB (mm)	Maximum Post Height (mm)											
	Sheet Roof											
90 X 90	4100	2900	2100	NS	3300	2600	1900	NS	2800	2300	1800	NS
140 X 140	4800	4800	4400	3100	4800	4800	4100	3000	4800	4800	3900	2900

Tile Roof

	3800	2700	1900	NS	3100	2400	1800	NS	2700	2200	NS	NS
90 X 90	3800	2700	1900	NS	3100	2400	1800	NS	2700	2200	NS	NS
140 X 140	4800	4800	4100	2900	4800	4800	3800	2800	4800	4700	3600	2700

Notes:

- 1) Posts designed as a stud supporting a concentrated load
- 2) Design values based on max sheet roof mass of 40 kg/m2
- 3) Design values based on max tile roof mass of 51 kg/m2
- 4) Design values based on max deck floor mass of 20 kg/m2

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

	POST SUPPORTING ROOF AND/OR DECK FLOOR LOAD: Wind classification N3											
	Deck Floor Load Area (m2)											
	0				10				20			
Roof Load Area (m2)	5	10	20	40	5	10	20	40	5	10	20	40
Size DxB (mm)	Maximum Post Height (mm)											
	Sheet Roof											
90 X 90	4100	2900	2100	NS	3300	2600	1800	NS	2800	2300	1800	NS
140 X 140	4800	4800	4400	3100	4800	4800	4100	3000	4800	4800	3800	2900

Tile Roof												
90 X 90	3800	2700	1900	NS	3100	2400	1800	NS	2700	2200	NS	NS
140 X 140	4800	4800	4100	2900	4800	4800	3800	2800	4800	4800	3600	2700

- Notes:
- 1) Posts designed as a stud supporting a concentrated load
 - 2) Design values based on max sheet roof mass of 40 kg/m2
 - 3) Design values based on max tile roof mass of 51 kg/m2
 - 4) Design values based on max deck floor mass of 20 kg/m2

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
140 X 70	10	3100	3300	2700	3000	2500	2600	2300	2400
	20	2900	3100	2500	2800	2300	2500	2100	2300
	40	2600	2700	2200	2300	2000	2100	1800	1800
	60	2300	2400	2100	2100	1700	1700	1500	1300
190 X 70	10	3800	4200	3500	3800	3300	3500	3100	3400
	20	3600	3900	3300	3500	3100	3300	2800	3100
	40	3300	3500	3000	3200	2600	2800	2400	2600
	60	3100	3200	2700	2800	2300	2500	2000	2200
240 X 70	10	4600	5000	4200	4500	3900	4300	3700	4000
	20	4300	4600	3900	4200	3700	3900	3500	3700
	40	4000	4200	3600	3800	3200	3400	2900	3100
	60	3700	3900	3300	3400	2800	2900	2500	2700
290 X 70	10	5200	5700	4800	5200	4500	4900	4200	4600
	20	5000	5300	4500	4800	4200	4500	4000	4300
	40	4600	4800	4200	4400	3900	4100	3500	3700
	60	4300	4500	3900	4100	3400	3500	3000	3100

Note : this table assumes zero overhang on the verandah

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
140 X 70	10	3500	3500	2700	2700	2400	2400	2100	2100
	20	3700	3700	2900	2900	2500	2500	2200	2200
	40	3300	3300	2600	2600	2300	2300	2000	2000
	60	2700	2700	2200	2200	1900	1900	1700	1700
190 X 70	10	4900	4900	3800	3800	3200	3200	2900	2900
	20	5100	5100	4000	4000	3400	3400	3000	3000
	40	4500	4500	3600	3600	3100	3100	2800	2800
	60	3800	3800	3000	3000	2600	2600	2300	2300
240 X 70	10	6300	6300	4900	4900	4100	4100	3700	3700
	20	6600	6600	5200	5200	4300	4300	3900	3900
	40	5800	5800	4600	4600	3900	3900	3500	3500
	60	4800	4800	3800	3800	3300	3300	2900	2900
290 X 70	10	7700	7700	6000	6000	5000	5000	4400	4400
	20	8000	8000	6400	6400	5300	5300	4700	4700
	40	7000	7000	5600	5600	4700	4700	4200	4200
	60	5800	5800	4600	4600	4000	4000	3500	3500

Note : this table assumes zero overhang on the verandah

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
140 X 70	10	2900	2900	2400	2200	2000	1600	1700	1300
	20	2900	3000	2500	2400	2100	1800	1800	1400
	40	2600	2700	2200	2300	2000	2100	1800	1600
	60	2300	2400	2100	2100	1700	1700	1500	1300
190 X 70	10	3800	3700	3200	3300	2900	2700	2500	2400
	20	3600	3800	3300	3400	2900	2800	2600	2500
	40	3300	3500	3000	3200	2600	2800	2400	2600
	60	3100	3200	2700	2800	2300	2500	2000	2200
240 X 70	10	4600	4900	4100	3800	3700	3500	3300	3300
	20	4300	4600	3900	3900	3700	3500	3400	3500
	40	4000	4200	3600	3800	3200	3400	2900	3100
	60	3700	3900	3300	3400	2800	2900	2500	2700
290 X 70	10	5200	5700	4800	4900	4500	4200	4100	3700
	20	5000	5300	4500	4800	4200	4400	4000	3800
	40	4600	4800	4200	4400	3900	4100	3500	3700
	60	4300	4500	3900	4100	3400	3500	3000	3100

Note : this table assumes zero overhang on the verandah

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m²)	Maximum Verandah Beam Span (mm)							
140 X 70	10	2700	2700	2100	2100	1800	1800	1600	1600
	20	2800	2800	2200	2200	1900	1900	1700	1700
	40	2800	2800	2300	2300	2000	2000	1800	1800
	60	2400	2400	2100	2100	1800	1800	1600	1600
190 X 70	10	3700	3700	2900	2900	2500	2500	2300	2300
	20	3900	3900	3000	3000	2600	2600	2300	2300
	40	4000	4000	3100	3100	2700	2700	2400	2400
	60	3600	3600	2900	2900	2500	2500	2200	2200
240 X 70	10	4800	4800	3700	3700	3200	3200	2900	2900
	20	5000	5000	3900	3900	3300	3300	2900	2900
	40	5100	5100	4000	4000	3400	3400	3100	3100
	60	4500	4500	3700	3700	3200	3200	2800	2800
290 X 70	10	5900	5900	4600	4600	3900	3900	3500	3500
	20	6100	6100	4800	4800	4000	4000	3600	3600
	40	6200	6200	4900	4900	4100	4100	3700	3700
	60	5500	5500	4500	4500	3800	3800	3400	3400

Note : this table assumes zero overhang on the verandah

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6



Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
90 X 90	10	2200	2400	1900	2000	1700	1500	1600	1200
	20	2000	2100	1700	1900	1600	1700	1500	1300
	40	1800	1900	1500	1600	1400	1400	1300	1200
	60	1600	1700	1400	1400	1300	1100	1200	800
140 X 90	10	3300	3500	2900	3200	2700	3000	2500	2700
	20	3100	3300	2700	3000	2500	2700	2300	2500
	40	2800	3000	2400	2600	2200	2300	2000	2100
	60	2600	2600	2200	2300	1900	2000	1700	1600
190 X 90	10	4100	4400	3700	4100	3500	3800	3300	3600
	20	3900	4100	3500	3700	3300	3500	3100	3300
	40	3600	3700	3200	3400	2900	3100	2600	2800
	60	3300	3400	3000	3100	2600	2700	2300	2500
240 X 90	10	4800	5200	4400	4800	4100	4500	3900	4300
	20	4600	4900	4200	4500	3900	4200	3700	4000
	40	4200	4400	3800	4000	3600	3700	3300	3400
	60	4000	4100	3600	3700	3200	3300	2800	3000
290 X 90	10	5500	6000	5100	5500	4700	5200	4500	4900
	20	5300	5600	4800	5100	4500	4800	4300	4600
	40	4200	4400	3800	4000	3600	3700	3300	3400
	60	4600	4700	4200	4300	3800	4000	3400	3500

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N1 / N2									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
90 X 90	10	2500	2500	NS	NS	NS	NS	NS	NS
	20	NS	NS	NS	NS	NS	NS	NS	NS
	40	NS	NS	NS	NS	NS	NS	NS	NS
	60	NS	NS	NS	NS	NS	NS	NS	NS
140 X 90	10	4000	4000	3100	3100	2700	2700	2400	2400
	20	4200	4200	3300	3300	2800	2800	2500	2500
	40	3800	3800	3000	3000	2600	2600	2300	2300
	60	3100	3100	2500	2500	2200	2200	1900	1900
190 X 90	10	5600	5600	4400	4400	3700	3700	3300	3300
	20	5900	5900	4600	4600	3900	3900	3500	3500
	40	5200	5200	4100	4100	3500	3500	3100	3100
	60	4300	4300	3400	3400	2900	2900	2600	2600
240 X 90	10	7200	7200	5600	5600	4700	4700	4200	4200
	20	7400	7400	6000	6000	5000	5000	4400	4400
	40	6500	6500	5200	5200	4400	4400	4000	4000
	60	5400	5400	4300	4300	3700	3700	3300	3300
290 X 90	10	8000	8000	6900	6900	5800	5800	5100	5100
	20	8000	8000	7300	7300	6100	6100	5300	5300
	40	7800	7800	6400	6400	5400	5400	4800	4800
	60	6500	6500	5300	5300	4500	4500	4000	4000

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Single Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
90 X 90	10	2100	1800	1700	1100	1500	800	1300	700
	20	2000	1900	1700	1200	1600	900	1400	700
	40	1800	1900	1500	1400	1400	1100	1300	800
	60	1600	1700	1400	1400	1300	1100	1200	800
140 X 90	10	3300	3400	2700	2600	2300	2100	2000	1700
	20	3100	3300	2700	2700	2400	2300	2100	1800
	40	2800	3000	2400	2600	2200	2300	2000	2100
	60	2600	2600	2200	2300	1900	2000	1700	1600
190 X 90	10	4100	4300	3700	3500	3100	3200	2900	2800
	20	3900	4100	3500	3500	3300	3300	3000	3000
	40	3600	3700	3200	3400	2900	3100	2600	2800
	60	3300	3400	3000	3100	2600	2700	2300	2500
240 X 90	10	4800	5200	4400	4400	4100	3800	3800	3500
	20	4600	4900	4200	4500	3900	4000	3700	3500
	40	4200	4400	3800	4000	3600	3700	3300	3400
	60	4000	4100	3600	3700	3200	3300	2800	3000
290 X 90	10	5500	6000	5100	5500	4700	5000	4500	4300
	20	5300	5600	4800	5100	4500	4800	4300	4600
	40	4900	5100	4400	4600	4100	4300	3900	4100
	60	4600	4700	4200	4300	3800	4000	3400	3500

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

Note : this table assumes zero overhang on the verandah

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Naturesmark Knotty Appearance Grade

VERANDAH BEAMS - Continuous Span, Wind N3									
		Roof Load Width (mm)							
		1200		1800		2400		3000	
Rafter/Truss Spacing (mm)		600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Roof&Ceiling Mass(kg/m ²)	Maximum Verandah Beam Span (mm)							
90 X 90	10	1900	1900	NS	NS	NS	NS	NS	NS
	20	NS	NS	NS	NS	NS	NS	NS	NS
	40	NS	NS	NS	NS	NS	NS	NS	NS
	60	NS	NS	NS	NS	NS	NS	NS	NS
140 X 90	10	3100	3100	2400	2400	2100	2100	1900	1900
	20	3200	3200	2500	2500	2200	2200	1900	1900
	40	3300	3300	2600	2600	2300	2300	2000	2000
	60	3000	3000	2400	2400	2100	2100	1900	1900
190 X 90	10	4300	4300	3300	3300	2900	2900	2600	2600
	20	4400	4400	3400	3400	3000	3000	2600	2600
	40	4500	4500	3500	3500	3100	3100	2700	2700
	60	4200	4200	3300	3300	2800	2800	2500	2500
240 X 90	10	5500	5500	4300	4300	3700	3700	3300	3300
	20	5700	5700	4500	4500	3800	3800	3400	3400
	40	5800	5800	4600	4600	3900	3900	3500	3500
	60	5300	5300	4200	4200	3600	3600	3200	3200
290 X 90	10	6800	6800	5300	5300	4400	4400	4000	4000
	20	7000	7000	5500	5500	4600	4600	4100	4100
	40	7000	7000	5600	5600	4700	4700	4200	4200
	60	6400	6400	5100	5100	4300	4300	3900	3900

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

RAFTERS: Wind N1 / N2 - Rafter pitching 10 degree maximum

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)											
		450 (mm)		600 (mm)		900 (mm)		450 (mm)		600 (mm)		900 (mm)	
		Maximum Rafter Span & Overhang (mm)											
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
		Single Span						Continuous Span					
90 x 38	10	1000	320	900	320	900	320	1400	320	1100	320	1000	320
	20	900	320	800	315	800	270	1400	320	1100	315	1000	270
	40	900	315	800	240	800	165	1300	315	1100	240	1000	165
	60	900	230	800	170	700	110	1200	230	1000	170	900	110
135 x 38	10	4200	595	3100	590	2200	585	4300	595	3600	590	2900	585
	20	3200	590	2500	585	1900	575	4500	590	3800	585	2800	575
	40	2700	580	2200	570	1700	555	4000	580	3200	570	2300	555
	60	2400	570	2000	560	1600	540	3300	570	2900	560	2100	540
185 x 38	10	6200	1050	5300	1000	4400	985	5900	1050	5100	1000	4000	985
	20	5600	1030	5200	985	4000	960	5900	1030	5300	985	4200	960
	40	4700	1000	4200	950	3300	910	5100	1000	4700	950	3800	910
	60	4100	960	3700	920	2900	870	4500	960	3900	920	3200	870
235 x 38	10	7900	1200	6800	1200	5600	1200	7600	1200	6500	1200	5200	1200
	20	7000	1200	6500	1200	5800	1200	7000	1200	6600	1200	5500	1200
	40	5800	1200	5400	1200	4900	1200	5900	1200	5500	1200	4900	1200
	60	5200	1200	4800	1200	4300	1200	5400	1200	5000	1200	4100	1200
285 x 38	10	8000	1200	8000	1200	6700	1200	8000	1200	8000	1200	6400	1200
	20	8000	1200	7700	1200	7000	1200	8000	1200	7700	1200	6700	1200
	40	6900	1200	6400	1200	5800	1200	6900	1200	6500	1200	5800	1200
	60	6200	1200	5700	1200	5100	1200	6300	1200	5800	1200	4800	1200

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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Naturesmark Knotty Appearance Grade

RAFTERS: Wind N3 - Rafter pitching 10 degree maximum

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)											
		450 (mm)		600 (mm)		900 (mm)		450 (mm)		600 (mm)		900 (mm)	
		Maximum Rafter Span & Overhang (mm)											
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
		Single Span						Continuous Span					
90 x 38	10	1000	320	900	315	800	270	1600	320	1300	320	1000	320
	20	900	320	900	315	800	275	1600	320	1200	315	1000	275
	40	900	315	800	245	800	165	1500	315	1100	245	1000	165
	60	900	230	800	175	700	115	1400	230	1000	175	900	115
135 x 38	10	3500	595	3000	590	2200	585	3300	595	2800	590	2200	585
	20	3200	590	2500	585	1900	575	3400	590	2900	585	2300	575
	40	2700	580	2200	570	1700	555	3500	580	3000	570	2400	555
	60	2400	570	2000	560	1600	540	3200	570	2800	560	2200	540
185 x 38	10	4900	1050	4300	1005	3500	985	4600	1050	3900	1005	3100	985
	20	5100	1035	4400	985	3600	960	4700	1035	4000	985	3200	960
	40	4700	1000	4200	950	3300	915	4800	1000	4100	950	3300	915
	60	4100	960	3700	920	2900	875	4400	960	3800	920	3000	875
235 x 38	10	6200	1200	5400	1200	4500	1200	5900	1200	5000	1200	4000	1200
	20	6400	1200	5600	1200	4600	1200	6100	1200	5200	1200	4100	1200
	40	5800	1200	5400	1200	4600	1200	5900	1200	5300	1200	4300	1200
	60	5200	1200	4800	1200	4300	1200	5400	1200	4900	1200	3900	1200
285 x 38	10	7500	1200	6500	1200	5300	1200	7200	1200	6200	1200	4900	1200
	20	7700	1200	6700	1200	5500	1200	7400	1200	6400	1200	5100	1200
	40	6900	1200	6400	1200	5500	1200	6900	1200	6400	1200	5200	1200
	60	6200	1200	5700	1200	5100	1200	6300	1200	5800	1200	4700	1200

Note: Charts have been produced in accordance with AS 1684.2 , for design parameters please refer AS 1684.2 section 2.6

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