

## 2.2 PERFORMANCE

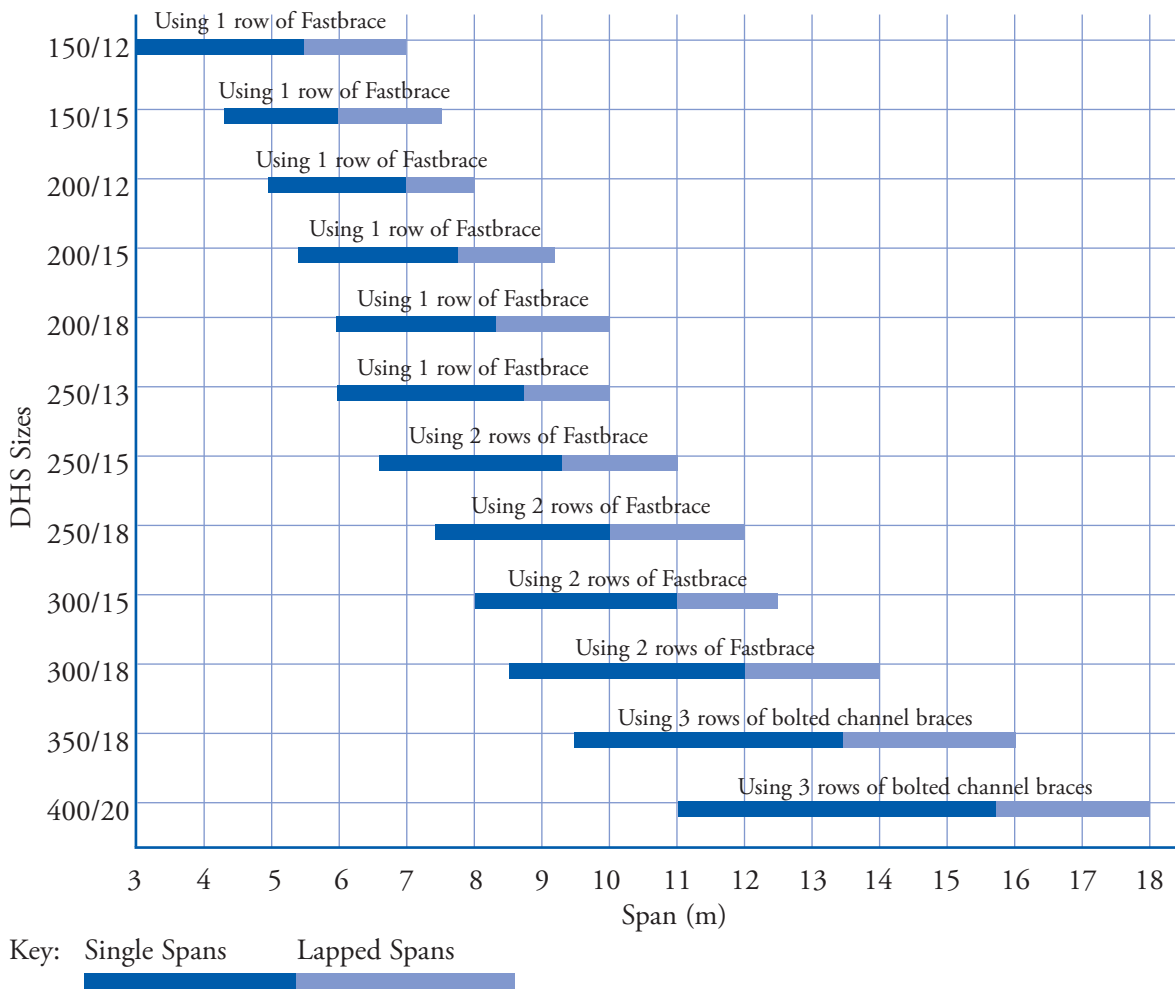
### 2.2.1 GENERAL DESIGN

The following charts and tables are based on typical product use and are intended as a quick reference guide only. These must not be used for design purposes or as a substitute for specific design (refer to Sections 2.3 and 2.4).

There may be specific cases in this section where the spans indicated on these charts and tables will not be achievable.

### 2.2.2 DHS PURLIN QUICK REFERENCE GUIDE

1. This guide is intended to be used as an indicator of the purlin and bracing options suitable for particular spans.
2. Final purlin and bracing design must be based on detailed design specific to each building.



### 2.2.3 TOP NOTCH PURLIN QUICK REFERENCE GUIDE

The following quick reference guide is intended for use as a preliminary design for farm building and non-habitable sheds and is for guidance only. It is not a substitute for final design or building consent requirements.

1. The quick reference guide is based on AS/NZS 1170:2002 design actions with nominal internal (+0.3) pressures and an allowance for local peak pressures ( $K_1 C_{pe} + C_{pi} = 1.4$ ), with a maximum building height of 8 metres and a maximum building height/depth ratio of 0.6.

Urban and rural purlins are designed for a 1 in 500 year Ultimate Limit State (ULS) wind event and wind serviceability deflections of span/150 (1 in 25 year wind event).

Farm purlins are designed for a 1 in 100 year Ultimate Limit State (ULS) wind event and maximum wind serviceability deflections of span/90 (1 in 25 year wind event).

2. In **snow** regions specific design is required. The tables are not appropriate above 200 metres elevation for Canterbury, Otago and Southland, nor above 450 metres for the West Coast, Marlborough and the Central/Lower North Island.
3. Terrain categories (TC) are defined as follows:

**Urban** areas are those built-up with numerous obstructions 3-5 metres high, such as areas of suburban housing (TC = 3).

**Sheltered Rural** assumes rural with some sheltering from trees and adjacent buildings (TC = 2½).

**Rural** assumes open terrain or grassland with few, well-scattered obstructions such as isolated trees and buildings (TC = 2).

**Farm** indicates buildings of low importance with a low degree of hazard to life and other property on open terrain (TC = 2).

4. **Fasteners** use the following number and screw gauges, ie. 2/12g requires 2 x 12g screws:

	Top Notch Purlin			
	60	100	120	150
At purlin ends	2/12g	2/12g	2/14g	2/14g
At internal (continuous) supports	4/12g	6/12g	6/14g	8/14g

5. **Laps** shall be a minimum of 15% of maximum adjacent Top Notch span.

## 2.2.3 TOP NOTCH PURLIN QUICK REFERENCE GUIDE – ALL NEW ZEALAND (EXCEPT WELLINGTON & MARLBOROUGH SOUNDS)

Spacing	Span	Urban (TC=3)			Sheltered Rural (TC=2½)			Rural (TC=2)			Farm (TC=2)		
		Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped
1200	1.50	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1200	1.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1200	2.00	60x0.95	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1200	2.25	100x0.75	60x0.75	60x0.75	100x0.75	60x0.75	60x0.75	100x0.75	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75
1200	2.50	100x0.75	60x0.75	60x0.75	100x0.75	60x0.95	60x0.75	100x0.75	60x0.95	60x0.95	100x0.75	60x0.75	60x0.75
1200	2.75	100x0.75	60x0.95	60x0.95	100x0.75	60x0.95	60x0.95	100x0.95	60x0.95	60x0.95	100x0.75	60x0.95	60x0.95
1200	3.00	100x0.75	100x0.75	60x0.95	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	100x0.75	100x0.75	60x0.95
1200	3.25	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75
1200	3.50	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	100x0.95	100x0.75	100x0.75
1200	3.75	120x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75
1200	4.00	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.95	120x0.95	100x0.95	100x0.75
1200	4.25	150x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.95	150x1.15	100x0.95	100x0.95	150x0.95	100x0.95	100x0.75
1200	4.50	150x0.95	100x0.95	100x0.95	150x1.15	100x0.95	100x0.95	150x1.15	100x0.95	120x0.95	150x0.95	100x0.95	100x0.75
1200	4.75	150x0.95	120x0.95	100x0.95	150x1.15	120x0.95	120x0.95	150x1.15	120x0.95	120x0.95	150x1.15	120x0.95	100x0.95
1200	5.00	150x1.15	120x0.95	120x0.95	150x1.15	150x0.95	120x0.95	150x1.15	120x0.95	120x0.95	150x1.15	150x0.95	100x0.95
1200	5.25	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	100x0.95
1200	5.50	150x0.95	150x0.95	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	100x0.95	100x0.95
1200	5.75	150x0.95	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	120x0.95	120x0.95
1200	6.00	150x1.15	150x1.15	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	120x0.95	120x0.95
1200	6.25	150x1.15	150x1.15	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x0.95
1200	6.50	150x1.15	150x1.15	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x0.95	150x0.95
1200	6.75	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x0.95	150x0.95
1200	7.00			150x1.15	150x1.15							150x1.15	150x1.15
1200	7.25			150x1.15	150x1.15							150x1.15	150x1.15
1200	7.50											150x1.15	150x1.15

### 2.2.3 TOP NOTCH PURLIN QUICK REFERENCE GUIDE – ALL NEW ZEALAND (EXCEPT WELLINGTON & MARLBOROUGH SOUNDS)

Spacing	Span	Urban (TC=3)			Sheltered Rural (TC=2½)			Rural (TC=2)			Farm (TC=2)		
		Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped
1700	1.50	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1700	1.75	60x0.75	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1700	2.00	60x0.95	60x0.75	60x0.75	100x0.95	60x0.75	60x0.75	100x0.75	60x0.95	60x0.75	60x0.95	60x0.75	60x0.75
1700	2.25	100x0.75	60x0.75	60x0.75	100x0.75	60x0.95	60x0.95	100x0.75	60x0.75	60x0.95	100x0.75	60x0.95	60x0.95
1700	2.50	100x0.75	60x0.95	60x0.95	100x0.75	100x0.75	60x0.95	100x0.95	60x0.75	100x0.75	100x0.75	100x0.75	60x0.95
1700	2.75	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	100x0.95	100x0.75	100x0.75
1700	3.00	100x0.95	100x0.75	100x0.75	100x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75	100x0.95	100x0.75	100x0.75
1700	3.25	120x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75
1700	3.50	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	150x1.15	120x0.95	100x0.95	150x0.95	100x0.95	100x0.75
1700	3.75	150x0.95	100x0.95	100x0.75	150x0.95	100x0.75	100x0.95	150x0.95	120x0.95	100x0.95	150x0.95	120x0.95	100x0.75
1700	4.00	150x0.95	120x0.95	100x0.95	150x1.15	100x0.95	100x0.95	150x0.95	120x0.95	100x0.95	150x1.15	120x0.95	100x0.95
1700	4.25	150x1.15	120x0.95	100x0.95	150x1.15	100x0.95	120x0.95	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	100x0.95
1700	4.50	150x1.15	150x0.95	100x0.95	150x1.15	100x0.95	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	100x0.95
1700	4.75	150x1.15	150x0.95	120x0.95	150x1.15	100x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	100x0.95
1700	5.00		150x1.15	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	120x0.95
1700	5.25		150x1.15	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	120x0.95
1700	5.50		150x1.15	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x0.95
1700	5.75			150x0.95	150x0.95	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15
1700	6.00			150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15
1700	6.25			150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15
1700	6.50												150x1.15
1700	6.75												150x1.15
1700	7.00												
1700	7.25												
1700	7.50												

## 2.2.3 TOP NOTCH PURLIN QUICK REFERENCE GUIDE – WELLINGTON & MARLBOROUGH SOUNDS

Spacing	Span	Urban (TC=3)			Sheltered Rural (TC=2½)			Rural (TC=2)			Farm (TC=2)		
		Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped
1200	1.50	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1200	1.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75
1200	2.00	60x0.95	60x0.75	60x0.75	100x0.75	60x0.75	60x0.75	100x0.75	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75
1200	2.25	100x0.75	60x0.75	60x0.75	100x0.75	60x0.95	60x0.95	100x0.75	60x0.95	60x0.95	100x0.75	60x0.95	60x0.95
1200	2.50	100x0.75	60x0.95	60x0.95	100x0.75	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	100x0.75	100x0.75	60x0.95
1200	2.75	100x0.75	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75
1200	3.00	100x0.75	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	100x0.95	100x0.75	100x0.75
1200	3.25	100x0.95	100x0.75	100x0.75	100x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75
1200	3.50	120x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.95	150x0.95	100x0.95	100x0.75
1200	3.75	120x0.95	100x0.95	100x0.75	120x0.95	100x0.95	100x0.95	150x1.15	100x0.95	100x0.95	150x0.95	120x0.95	100x0.75
1200	4.00	150x0.95	100x0.95	100x0.95	150x1.15	120x0.95	100x0.95	150x1.15	120x0.95	120x0.95	150x1.15	120x0.95	100x0.95
1200	4.25	150x1.15	120x0.95	120x0.95	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	100x0.95
1200	4.50	150x1.15	120x0.95	120x0.95	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	100x0.95
1200	4.75	150x1.15	150x0.95	120x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	120x0.95
1200	5.00	150x0.95	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	120x0.95
1200	5.25	150x1.15	150x1.15	150x0.95	150x1.15	150x0.95	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x0.95
1200	5.50	150x1.15	150x1.15	150x0.95	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x1.15	150x1.15	150x0.95	150x0.95
1200	5.75	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15	150x1.15
1200	6.00		150x1.15	150x1.15									150x1.15
1200	6.25		150x1.15	150x1.15									150x1.15
1200	6.50												150x1.15
1200	6.75												150x1.15
1200	7.00												
1200	7.25												
1200	7.50												

## 2.2.3 TOP NOTCH PURLIN QUICK REFERENCE GUIDE – WELLINGTON & MARLBOROUGH SOUNDS

Spacing	Span	URBAN (TC=3)			Sheltered Rural (TC=2½)			Rural (TC=2)			Farm (TC=2)		
		Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped	Single	Double	Lapped
1700	1.50	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.75	60x0.95	60x0.95	60x0.75	60x0.75	60x0.75	60x0.75
1700	1.75	60x0.95	60x0.75	60x0.75	60x0.95	60x0.75	60x0.75	100x0.75	100x0.75	60x0.95	60x0.95	60x0.95	60x0.75
1700	2.00	100x0.75	60x0.95	60x0.75	100x0.75	60x0.95	60x0.95	100x0.75	100x0.75	60x0.95	100x0.75	60x0.95	60x0.75
1700	2.25	100x0.75	100x0.75	60x0.95	100x0.95	100x0.75	100x0.75	100x0.95	100x0.95	100x0.75	100x0.75	100x0.75	60x0.95
1700	2.50	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	100x0.75	100x0.75	100x0.75
1700	2.75	100x0.95	100x0.75	100x0.75	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	100x0.75	100x0.95	100x0.75
1700	3.00	120x0.95	100x0.95	100x0.75	150x0.95	100x0.95	100x0.75	150x1.15	120x0.95	100x0.75	100x0.75	100x0.95	100x0.75
1700	3.25	150x0.95	100x0.95	100x0.75	150x1.15	100x0.95	100x0.95		120x0.95	100x0.95	100x0.95	100x0.95	100x0.75
1700	3.50	150x1.15	120x0.95	100x0.95	150x1.15	100x0.95	100x0.95		150x1.15	100x0.95	120x0.95	120x0.95	100x0.95
1700	3.75	150x1.15	150x0.95	100x0.95	150x1.15	100x0.95	120x0.95		150x1.15	150x0.95	150x0.95	150x0.95	100x0.95
1700	4.00		150x0.95	120x0.95	150x1.15	100x0.95	150x0.95		150x1.15	150x1.15	150x1.15	150x0.95	100x0.95
1700	4.25		150x1.15	120x0.95	150x1.15	120x0.95	150x1.15		150x1.15	150x1.15	150x1.15	150x1.15	120x0.95
1700	4.50		150x1.15	150x0.95	150x1.15	150x0.95	150x1.15		150x1.15	150x1.15	150x1.15	150x1.15	150x0.95
1700	4.75		150x1.15	150x0.95	150x1.15	150x0.95	150x1.15		150x1.15	150x1.15	150x1.15	150x1.15	150x0.95
1700	5.00			150x1.15	150x1.15	150x1.15			150x1.15				150x1.15
1700	5.25			150x1.15	150x1.15	150x1.15			150x1.15				150x1.15
1700	5.50			150x1.15									150x1.15
1700	5.75												150x1.15
1700	6.00												
1700	6.25												
1700	6.50												
1700	6.75												
1700	7.00												
1700	7.25												
1700	7.50												

## 2.2.4 ROOFING QUICK REFERENCE GUIDE

This table is taken from the Roofing and Cladding Systems Manual and should be used as a quick reference guide on span and curvature limitations for all Dimond Roofing and Wall Cladding profiles.

For detailed Serviceability and Ultimate Limit State design, please refer to Section 2.1.4 – Specific Design by Profile, of the Roofing and Cladding Systems Manual.

### **Basis to the tables:**

**Roofing** – the spans are based on restricted access foot traffic limits only or where the Ultimate Wind Load does not exceed 1.5kPa. A restricted access roof is where there is occasional foot traffic, that is educated to walk on the purlin lines, in the profile pans, or carefully across two profile ribs. Walkways will be installed where regular traffic is expected and “Restricted Access” signs placed at access points.

Refer to section 2.1.4 - Specific Design by Profile of the Roofing and Cladding Systems Manual to check the Load/Span Capability in the Ultimate and Serviceability tables.

**Walls** – spans are limited by acceptable appearance or an ultimate wind load of 2 kPa.

**Roofing Fasteners** – average of 4 screw fasteners per sheet per purlin. Based on hex-head screws without washers. The number of fasteners can be reduced by specific design (refer to Section 2.1.4 – Specific Design by Profile, in the Roofing and Cladding Systems Manual).

**Drape Curve** – radii are limited by acceptable roof appearance, refer to Section 2.4.2 of the Roofing and Cladding Systems Manual.

**Crimp and Roll Curve** – radii are limited by machine capabilities.

**Overhang** – for restricted access roofs. The unsupported area is not intended to be used as an access way.

2.2.4 ROOFING QUICK REFERENCE GUIDE *continued*

Product		Thickness BMT	Nominal sheet weight per square metre	Maximum Span**				Minimum radius for drape curve	Minimum radius for crimp or roll curve	Maximum overhang unsupported
				Restricted Access Roofing		Walls				
				End Span	Internal	End Span	Internal			
		(mm)	(kg/m <sup>2</sup> )	(m)	(m)	(m)	(m)	(m)	(mm)	(mm)
<b>Steelspan 900</b> Minimum pitch 3 degrees	Steel (G550)	0.4 <sup>+</sup>	4.6	2.0	3.0	2.4	3.7	N/R	N/A	250
		0.55	6.2	2.9	4.3	3.3	5.0	120	N/A	450
		0.75 <sup>+</sup>	8.3	4.0	6.0	N/A	N/A	120	N/A	600
	Aluminium H36	0.7 <sup>+</sup>	2.6	1.6	2.5	1.7	2.6	N/R	N/A	250
		0.9	3.3	2.5	3.8	2.6	3.9	120	N/A	350
Duraclad	1.7	2.8	1.0	1.5	1.4	2.1	30	N/A	250	
<b>Topspan</b> Minimum pitch 3 degrees	Steel (G550)	0.4 <sup>+</sup>	4.6	2.0	3.0	2.4	3.7	N/A	N/A	250
		0.55	6.2	2.9	4.3	3.3	5.0	120	N/A	450
		0.75 <sup>+</sup>	8.3	4.0	6.0	N/A	N/A	120	N/A	600
	Aluminium H36	0.7 <sup>+</sup>	2.6	1.6	2.5	1.7	2.6	N/R	N/A	250
		0.9	3.3	2.5	3.8	2.6	3.9	120	N/A	350
Duraclad	1.7	2.8	1.0	1.5	1.4	2.1	30	N/A	250	
<b>BB900</b> Minimum pitch 3 degrees	Steel (G550)	0.4	4.6	1.5	2.2	1.9	2.9	N/R	N/A	250
		0.55	6.2	2.3	3.4	2.7	4.1	90	N/A	350
		0.75	8.3	2.7	4.0	N/A	N/A	90	N/A	500
	Aluminium H36	0.7	2.6	1.1	1.7	1.6	2.4	N/R	N/A	200
		0.9	3.3	1.9	2.8	2.8	3.7	90	N/A	300
Duraclad	1.7	2.8	0.8	1.2	1.8	2.1	24	N/A	200	
<b>DP955</b> Minimum pitch 3 degrees	Steel (G550)	0.4	4.6	1.6	2.4	2.0	3.0	N/R	N/A	250
		0.55	6.2	2.7	4.0	2.9	4.3	70	N/A	350
<b>LT7</b> Minimum pitch 3 degrees	Steel (G550)	0.4	4.6	1.2	1.8	1.6	2.4	80	900	250
		0.55	6.2	1.9	2.9	1.9	2.9	50	400	350
	Aluminium H36	0.7	2.6	0.9	1.3	1.2	1.8	80	N/A	200
		0.9	3.3	1.5	2.3	1.9	2.9	50	400	300
Duraclad	1.7	2.8	0.8	1.2	1.3	2.0	24	N/A	200	
<b>V-Rib</b> Minimum pitch 4 degrees	Steel (G550)	0.4	4.5	1.2	1.8	1.9	2.9	20	400	200
		0.55	6.1	1.7	2.5	2.3	3.5	16	400	300
	Aluminium H36	0.7	2.5	0.9	1.2	1.6	2.4	20	N/A	150
		0.9	3.2	1.4	2.1	1.9	2.9	16	N/A	250
	Duraclad	1.7	2.8	0.8	1.2	0.9	1.4	20	N/A	150

Note: N/A = not available, N/R = not recommended, \* = roll curve only

\*\* Maximum spans are based on restricted access foot traffic limits only. Refer to section 2.1.4 - Specific Design by Profile of the Roofing and Cladding Systems Manual to check load/span capability for wind loads in the Ultimate and Serviceability tables along with manufacturing locality for each profile.

+ = Available only on request, subject to minimum order quantities. Check availability with Dimond



2.2.4 ROOFING QUICK REFERENCE GUIDE *continued*

Product		Thickness BMT	Nominal sheet weight per square metre	Maximum Span**				Minimum radius for drape curve	Minimum radius for crimp or roll curve	Maximum overhang unsupported	
				Restricted Access Roofing		Walls					
				End Span	Internal	End Span	Internal				
		(mm)	(kg/m <sup>2</sup> )	(m)	(m)	(m)	(m)	(m)	(mm)	(mm)	
<b>Styleline</b> Min pitch 3°	Steel (G550)	0.4	4.2	1.0	1.6	1.6	2.4	80	900	200	
		0.55	5.7	1.5	2.2	2.0	3	40	400	250	
	Aluminium H36	0.7	2.4	0.8	1.2	1.2	1.8	80	N/A	100	
		0.9	3.0	1.1	1.7	1.7	2.6	40	400	200	
Duraclad	1.7	2.8	0.7	1.1	1.1	1.7	12	N/A	100		
<b>Veedek™</b> Min pitch 3°	Steel (G550)	0.4	4.2	1.0	1.6	1.6	2.4	N/R	N/A	200	
		0.55	5.7	1.5	2.2	2.0	3	N/R	N/A	250	
	Aluminium H36	0.7	2.4	0.8	1.2	1.2	1.8	N/R	N/A	100	
		0.9	3.0	1.1	1.7	1.7	2.6	N/R	N/A	200	
Duraclad	1.7	2.8	0.7	1.1	1.1	1.7	N/R	N/A	100		
<b>Corrugate</b> Min pitch 8°	Steel (G550)	0.4	4.2	0.8	1.2	1.0	1.5	12	450*	100	
		0.55	5.6	1.0	1.5	1.2	1.9	10	450*	150	
	Aluminium H36	0.7	2.3	0.5	0.8	0.8	1.2	12	450*	75	
		0.9	3.0	0.8	1.2	1.4	2.1	10	450*	150	
Duraclad	1.7	2.8	0.6	0.9	0.9	1.3	8	N/A	100		
<b>Dimondek 630</b> Min pitch 3°	Steel (G550)	0.48	6.1	2.2	3.3	1.4	2.1	250	N/A	150	
		0.55	6.7	2.4	3.6	1.7	2.6	250	N/A	250	
<b>Dimondek 400</b> Min pitch 3°	Steel (G300)	0.55	6.8	1.1	1.6	1.0	1.3	70	N/A	250	
		0.75	9.2	1.5	2.2	1.3	1.9	70	N/A	300	
	Aluminium H36	0.9	3.6	0.9	1.3	0.7	1.0	70	N/A	200	
	Copper 1/2 Hard	0.55	7.4	0.9	1.4	0.7	1.1	70	N/A	200	
<b>Dimondek 300</b> Min pitch 3°	Steel (G300)	0.55	7.6	1.3	2	1.2	1.9	N/R	N/A	250	
		0.75	10.2	1.5	2.3	1.5	2.3	N/R	N/A	350	
	Aluminium H36	0.9	4.1	1.1	1.6	1.0	1.5	N/R	N/A	200	
	Copper 1/2 Hard	0.55	8.2	1.1	1.8	1.1	1.7	N/R	N/A	200	
<b>Super Six</b> Min pitch 3°	Duraclad	1.7	2.8	1	1.2	1.8	2	28	N/A	250	
<b>Dimondclad</b> Wall cladding only	Steel (G550)	0.4	4.1	N/R	N/R	0.9	1.4	N/R	N/A	100	
		Aluminium H36	0.7	2.3	N/R	N/R	0.9	1.4	N/R	N/A	75
			0.9	2.9	N/R	N/R	0.9	1.4	N/R	N/A	100
<b>Baby Corrugate</b> Wall cladding only	Steel (G550)	0.4	3.9	N/R	N/R	0.4	0.6	N/R	N/A	75	
		0.55	5.2	N/R	N/R	0.4	0.8	N/R	N/A	75	
<b>Fineline</b> Wall cladding only	Steel (G550)	0.55	4.8	N/R	N/R	0.3	0.3	N/R	N/A	N/R	
		Aluminium H36	0.9	2.6	N/R	N/R	0.3	0.3	N/R	N/A	N/R

Note: N/A = not available, N/R = not recommended, \* = roll curve only

\*\* Maximum spans are based on restricted access foot traffic limits only. Refer to section 2.1.4 - Specific Design by Profile of the Roofing and Cladding Systems Manual to check load/span capability for wind loads in the Ultimate and Serviceability tables along with manufacturing locality for each profile.