

# MULTISPAN Roof and Wall



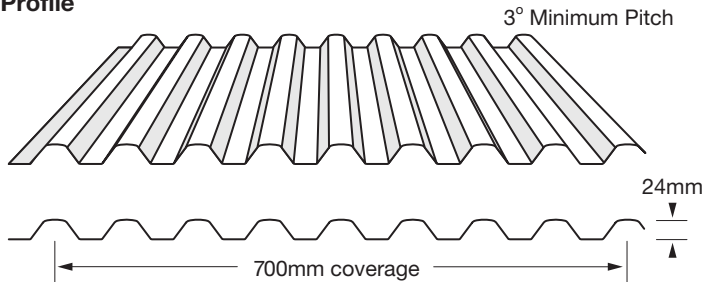
MultiSpan has a square corrugated profile with an attractive contemporary look.

MultiSpan is ideal for commercial applications where a stronger and longer span is required.

MultiSpan is equally popular in domestic roof and walls.

## Product Details

### Profile



## Material Specification

0.42 or 0.48	Zincalume®	G550 AM125
0.42 or 0.48	Galvanised	G550 Z450
0.42 or 0.48	Colorbond®	G550 AM100

### Special Orders

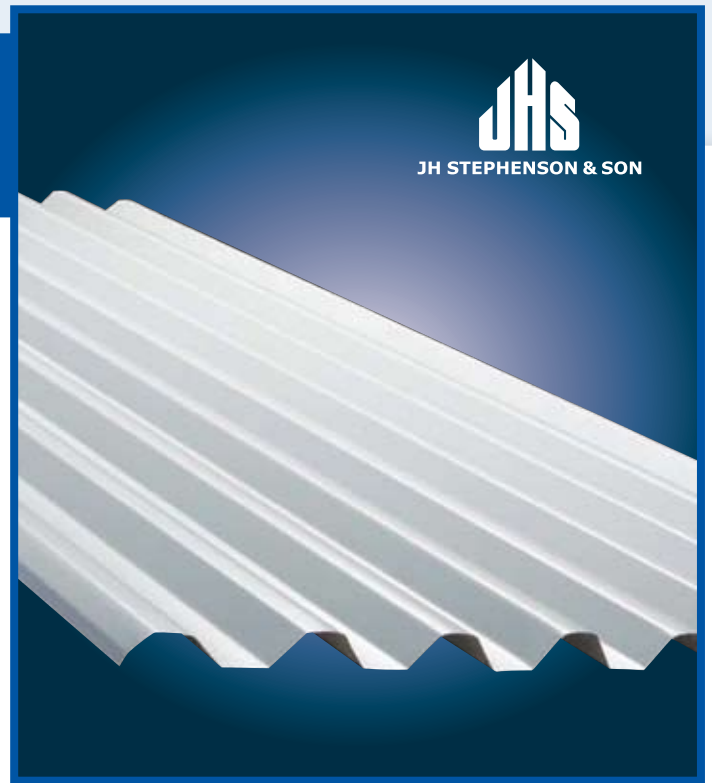
Stainless Steel, Metallic, Coolmax and Ultra

## Product Mass

BMT		kg/m <sup>2</sup>
0.42	Zincalume®	4.61
0.42	Colorbond®	4.64
0.42	Galvanised	5.05
0.48	Zincalume®	5.23
0.48	Colorbond®	5.27
0.48	Galvanised	5.69

## Wind Load Conversion

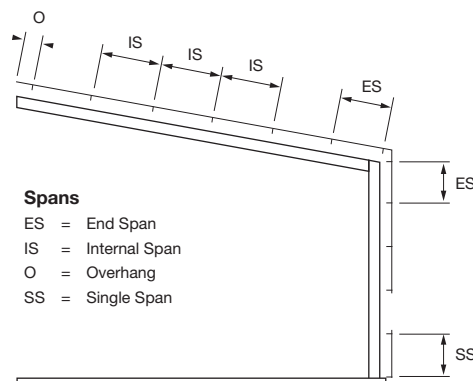
Wind Classification	Region & Category
(Domestic)	(Commercial/Industrial)
N1 (W28)	Reg A, Cat 3
N2 (W33)	Reg A, Cat 2.5 - Reg B, Cat 3
N3 (W41)	Reg A, Cat 2 - Reg B, Cat 2.5
N4 (W50)	Reg B, Cat 2



## Maximum Support Spacings (mm)

Type of Span	Thickness (mm)	BMT
	.42	.48
<b>ROOFS</b>		
Single Span	1300	2000
End Span	1800	2100
InternalSpan	2400	2700
Unstiffened Eaves Overhang	200	300
<b>WALLS</b>		
Single Span	2400	2700
End Span	2700	2700
InternalSpan	3000	3000
Overhang	200	300

Maximum Support Spacing has been determined by load tests and deflection in accordance with AS 1562-1 AS 4040 1 & 2 1992.



# MultiSpan - Roof and Wall



## .42 Bmt MultiSpan Roof & Wall

Limit State Wind Pressure Capacities (kpa)

4 Screws Per Purlin		Walls Only								
SPAN TYPE		Span mm								
		900	1200	1300	1500	1800	2100	2400	2700	3000
SINGLE	Serviceability	3.90	3.10	2.70	1.85	1.25	1.10	0.75		
	Strength	8.00	7.00	6.40	5.15	3.75	3.25	2.30		
END	Serviceability	3.60	3.20	2.80	2.50	2.15	1.80	1.60	1.20	0.80
	Strength	6.00	5.55	5.10	4.65	3.70	3.37	3.04	2.70	2.10
INTERNAL	Serviceability	4.20	3.80	3.35	2.90	2.35	2.20	1.70	1.50	1.20
	Strength	8.00	7.00	6.10	5.35	4.40	4.10	3.67	3.25	3.00

## .48 Bmt MultiSpan Roof & Wall

Limit State Wind Pressure Capacities (kpa)

4 Screws Per Purlin		Walls Only								
SPAN TYPE		Span mm								
		900	1200	1500	1800	2000	2100	2400	2700	3000
SINGLE	Serviceability	5.00	3.05	1.80	1.63	1.15	0.75	0.60		
	Strength	10.00	8.55	7.00	6.50	5.75	3.95	2.60	1.55	1.10
END	Serviceability	5.10	3.85	2.85	2.55	2.35	2.15	1.20	0.95	0.85
	Strength	8.60	6.70	5.20	4.80	3.95	3.75	3.00	2.70	2.65
INTERNAL	Serviceability	5.96	4.85	3.85	3.55	2.90	2.40	1.95	1.48	1.62
	Strength	9.00	8.00	7.00	6.65	5.65	5.25	4.40	3.50	3.80

### Compliance

Wind pressure capacity tables have been determined by full scale testing in accordance with AS 1562.1 and AS 4040.1&2 1992.

Non-Cyclonic areas.

The pressure considered is based on buildings up to 10m high in Region B, Terrain Category 3, M3 = 0.85, MI = 1.0, M=1.0 with the following assumptions made:

#### Roofs

$C_{pi} = +0.20$ ,  $C_{pe} = -0.90$ ,  $K_1 = 2.0$  for single and end spans,  $K_1 = 1.5$  for internal spans.

#### Walls

$C_{pi} = +0.20$ ,  $C_{pe} = -0.65$ ,  $K_1 = 2.0$  for single spans,  $K_1 = 1.5$  for internal spans.



Load Test



Pressure Test



# MultiSpan - Roof and Wall



## Fixing Details

### Crest: 4 Fasteners

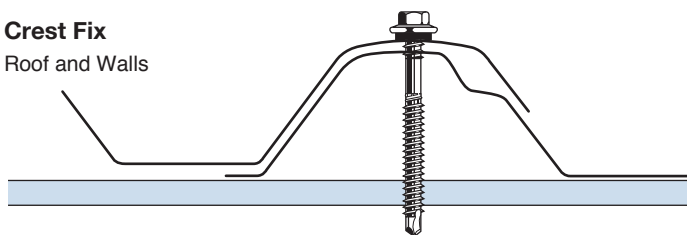


### Valley: 4 Fasteners

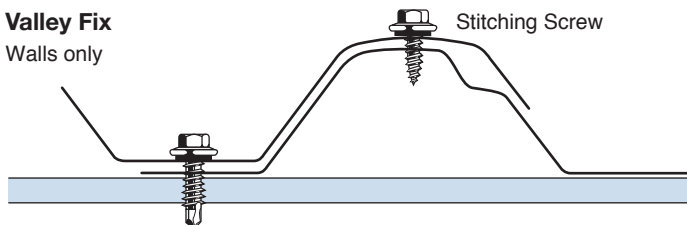
Walls only



**Crest Fix**  
Roof and Walls



**Valley Fix**  
Walls only



## MultiSpan Roofing

Should be laid square to the gutter line and into the prevailing wind. The sheet is fastened every second rib. Sheets must be turned up at the apex and down at the gutter line. Side lap fastener is recommended mid span when span exceeds 1200mm.

## MultiSpan Wall

MultiSpan is suitable for walls and has good spanning capabilities. Side lap fastener is recommended when the span exceeds 1200mm.

## Design Considerations

The recommended minimum pitch is 3 degrees. For long run roofing the pitch should be increased and spans considered.

### Length

- MultiSpan is custom cut to your exact length.
- The maximum length for pierce fixed roofing is 23.7m before an expansion joint is required. This length is recommended for light colours only. Dark colours should not exceed 16.0m because of increased thermal expansion.

### Foot Traffic

- Always walk over purlins and place your foot print in the pan only. To avoid sheet damage don't stand on ribs.

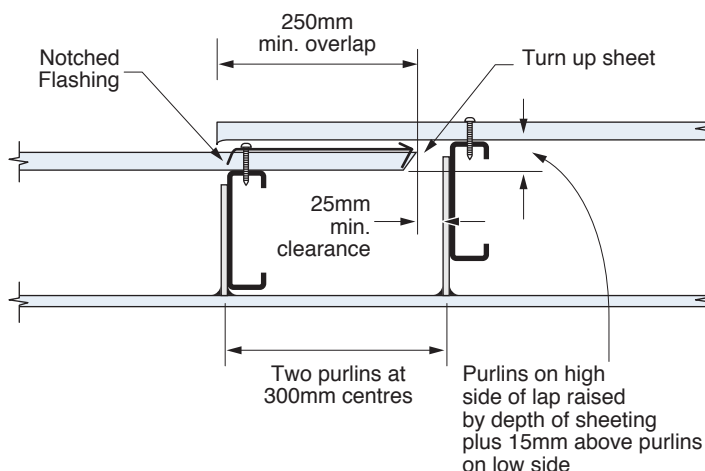
### Handling On Site

- Delivery to site to be the responsibility of the customer.
- Sheets should be kept dry and clear of the ground.
- When handling sheets use dry, clean gloves and don't drag sheets over each other.

### Cutting

- It is recommended to cut sheets with tin snips or a nibbler. Don't use an abrasive disc cutter.

## Expansion Joint



## Fasteners

	Fixing to Steel	Fixing to Timber
Crest Fixing Roof	12 - 14 Tekes or M6 x 50mm Tekes	12 Type 17
Neo Washer	.55-1.0mm Thick Steel	M6 Tekes
Walls Neo Washer	10 - 16 x 16 Tekes	12 x 25 Type 17

