

NINELINE



DESIGN GUIDE

NINELINE™ Batten

With its 45mm rib height, NINELINE™ Batten's application is versatile as it can be specified for residential use including internal walling and/or fencing.

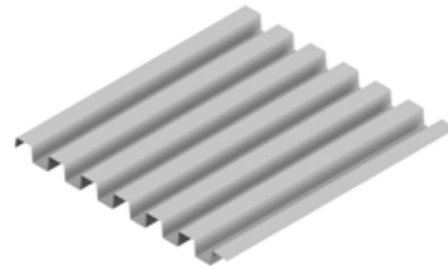
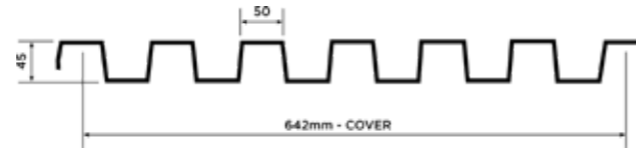


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NINELINE™ Batten

This profile achieves the visual impact of a repeated batten system on a wall, all through a single integrated product.

PROFILE SPECIFICATIONS	
Depth	45mm
Cover	642mm
Longest Length	6.0m
Minimum Length	0.3m



MATERIAL SPECIFICATIONS		
Base Metal Thickness (mm)	0.55mm	
Tensile Strength	G300	Coating
COLORBOND® Finishes available	Standard XRW	AM100
	ULTRA	AM150
	Metallic	AM100
	Matt Finish	AM100
	Stratco Bronze	AM100

Span Type	WIND CLASSIFICATION			
	N1	N2	N3	N4
End	2100	2100	1730	1330
Internal	3000	3000	2530	1940

Note 1: All end spans shall not exceed 70% of the maximum allowable internal span.

NINELINE

Others in the Design Guide Library

- NINELINE™ Box
- NINELINE™ Pleat

WALL CLADDING - PAN FIXING	
All screws must have a neoprene washer for a weather tight seal	
	Fasteners required per support:
	3

For spans exceeding 1200mm, secure each overlap mid-span with 3.2mm Rivets (rivets to be sealed to prevent water penetration).

Fastener required per Internal Span:	
1.0m span	1.5m span
12 per m2	6 per m2

Fixing	Steel 1.0mm	Contour Head 12-14 x 30 Self Drilling with Seal
	Steel 0.55mm	M6.2-13x25 Hex Head Universal Screw with Seal
	Timber	M6.2-13x25 Hex Head Universal Screw with Seal

DESIGN PRESSURES (KPA)	
Span (mm)	Serviceability/Strength
	End/Internal
900	6.03
1200	3.92
1500	2.80
1800	2.13
2100	1.69
2400	1.39
2700	1.16
3000	0.99

These values are for use with steel supports with a minimum thickness of 0.55mm BMT G550.

DESIGN CRITERIA

Residential Walling

Design criteria determined in accordance with AS 4055 Wind loads for housing.

Pressures and spans are based on an eaves height not exceeding 6.0m, a roof pitch no greater than 35° and a total roof height of maximum 8.5m.

Walling calculations are based on $C_{p,e} = -0.65$ and $C_{p,i} = 0.2$. A local pressure factor, $K_l = 2.0$ has been used for end spans which exist within 1200mm of all roofing and walling edges. A local pressure factor, $K_l = 1.0$, has been used for internal spans.

If any internal span occurs within 1200mm of any roof edge, the maximum allowable span specified for end spans will apply.

Additional engineering advice can be obtained from Stratco if any design parameters vary from those indicated above.

Commercial Walling

Design criteria determined in accordance with AS/NZS 1170.2:2021 Wind Actions.

The following criteria were used in the development of the tables:

- Region A & B with a design return period of 500 years for Strength Limit
- State and 25 years for Serviceability Limit State.

Pressure Coefficients for Walling of Enclosed Building:

- Internal, $C_{p,i} = +0.2$
- External, $C_{p,e} = -0.65$

Topographic influence has not been considered ($M_t = 1.0$) and spans are based on no shielding ($M_s = 1.0$).

Refer AS/NZS 1170.2 for definition of local pressure (K_l) zones. $K_l = 3.0$ is only applicable for buildings with an aspect ratio greater than 1.0. Aspect ratio defined as the average building height divided by the smaller of building length and width.

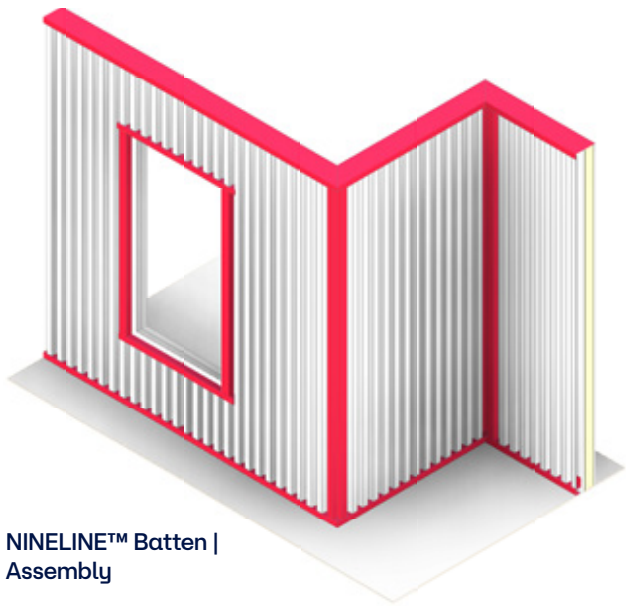
Additional engineering advice can be obtained from Stratco if any design parameters vary from those indicated above.

MAXIMUM ALLOWABLE SPANS (mm)															
Terrain Category	Kl	3m Maximum Height				Kl	5m Maximum Height				Kl	10m Maximum Height			
		Region A0-A5		Region B1			Region A0-A5		Region B1			Region A0-A5		Region B1	
		End	Internal	End	Internal		End	Internal	End	Internal		End	Internal	End	Internal
1.0	1.0	2100	3000	1440	2070	1.0	2010	2880	1370	1960	1.0	1840	2630	1260	1800
	1.5	1700	2440	1160	1670	1.5	1620	2320	1100	1580	1.5	1480	2120	1010	1450
	2.0	1450	2080	990	1420	2.0	1370	1970	930	1340	2.0	1260	1800	860	1230
	3.0	1140	1630	770	1110	3.0	1080	1550	740	1060	3.0	980	1410	670	970
2.0	1.0	2100	3000	1580	2260	1.0	2100	3000	1580	2260	1.0	2030	2910	1390	1990
	1.5	1860	2660	1270	1820	1.5	1860	2660	1270	1820	1.5	1640	2350	1120	1600
	2.0	1580	2260	1070	1540	2.0	1580	2260	1070	1540	2.0	1390	1990	950	1360
	3.0	1240	1780	840	1210	3.0	1240	1780	840	1210	3.0	1090	1570	740	1070
2.5	1.0	2100	3000	1680	2400	1.0	2100	3000	1680	2400	1.0	2100	3000	1560	2230
	1.5	1980	2830	1350	1930	1.5	1980	2830	1350	1930	1.5	1830	2620	1250	1790
	2.0	1680	2400	1140	1640	2.0	1680	2400	1140	1640	2.0	1560	2230	1060	1520
	3.0	1320	1890	900	1290	3.0	1320	1890	900	1290	3.0	1220	1750	840	1200
3.0	1.0	2100	3000	1780	2550	1.0	2100	3000	1780	2550	1.0	2100	3000	1780	2550
	1.5	2100	3000	1440	2060	1.5	2100	3000	1440	2060	1.5	2100	3000	1440	2060
	2.0	1790	2560	1220	1750	2.0	1790	2560	1220	1750	2.0	1790	2560	1220	1750
	3.0	1400	2010	950	1370	3.0	1400	2010	950	1370	3.0	1400	2010	950	1370

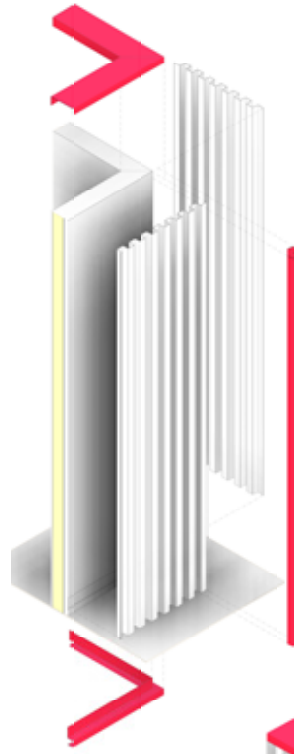
Note 1: All end spans shall not exceed 70% of the maximum allowable internal span.
 Note 2: For Region A0, utilise Terrain Category 2.0 in all terrains (i.e. T.C. 2.0 throughout).

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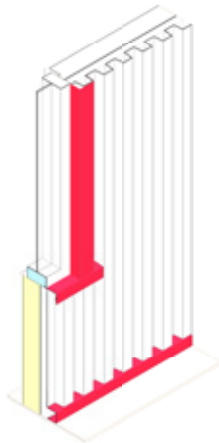
INDICATIVE INSTALLATION DETAILS



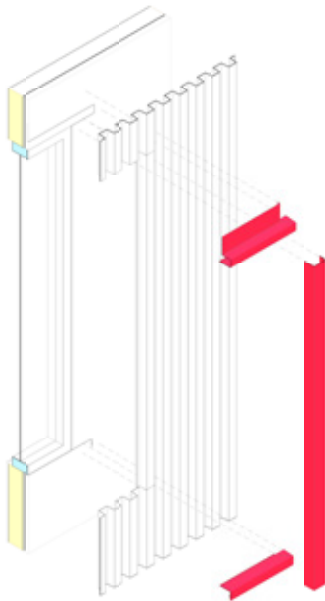
NINELINE™ Batten |
Assembly



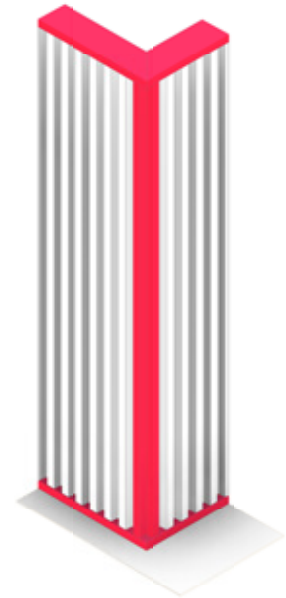
NINELINE™ Batten |
Ext Corner Assembly



NINELINE™ Batten |
Window Jamb



NINELINE™ Batten |
Window Head & Sill



NINELINE™ Batten |
Ext Corner



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