

NINELINE

DESIGN GUIDE

NINELINE™ Pleat

Through its pointed form and 90mm rib height, this profile provides a triangular reinterpretation of the classic corrugated profile, accentuating the sharpness of shadows and light play.

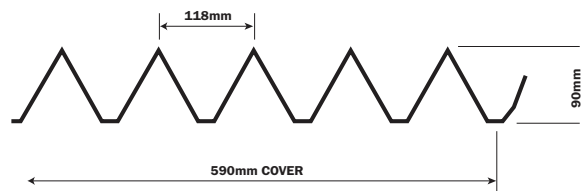


STRATCO
ARCHITECTURAL
SOLUTIONS

NINELINE™ Pleat

While delivering a highly aesthetic option for specifiers, its performance and strength have not been compromised due to the engineering and testing.

PROFILE SPECIFICATIONS	
Depth	90mm
Cover	590mm
Longest Length	6.0m
Minimum Length	0.6m



MATERIAL SPECIFICATIONS		
Base Metal Thickness	0.55mm	
Tensile Strength	G300	Coating
COLORBOND® Range	Standard	AM100
	Ultra	AM100
	Metallic	AM100
	Matt Finish	AM100
Stratco Exclusive	Bronze	AM100
	Woodgrain - Maple & Ash	AM100
Other	Zincalume®	AM125
	Galvanised Z600	Z600



NINELINE

Others in the Specification Sheet Library

- ☐ NINELINE™ Batten
- ☐ NINELINE™ Box

WALL CLADDING - PAN FIXING	
All screws must have a neoprene washer for a weather tight seal	
	Fasteners required per support:
	5

For spans exceeding 1500mm, 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
24 per m2	12 per m2

Fixing	Steel 1.0mm	Contour Head 12-14 × 30 Self Drilling with Seal
	Timber	Hex Head 12-11 × 25 T17 Self Drilling with Seal

DESIGN PRESSURES (KPA)		
Span (mm)	Serviceability	Strength
	End/Internal	End/Internal
900	5.45	8.46
1200	4.07	6.03
1500	3.25	4.63
1800	2.70	3.74
2100	2.31	3.12
2400	2.02	2.66
2700	1.79	2.32
3000	1.61	2.05
3300	1.46	1.83
3600	1.34	1.65

These values are for use with steel supports with a minimum thickness of 1.0mm BMT G550.

DESIGN CRITERIA - 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, Cp,i = +0.2
- External, Cp,e = -0.65

Topographic influence has not been considered (Mt=1.0) and spans are based on no shielding (Ms=1.0).

Refer AS/NZS 1170.2 for definition of local pressure (Kl) zones. Kl=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.

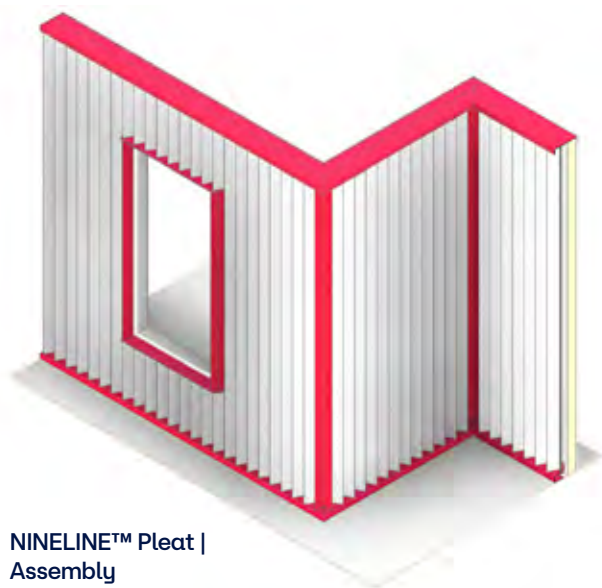
Additional engineering advice can be obtained from Stratco if any design parameters vary from those indicated above.

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	2520	3600	2430	3480	1.0	2520	3600	2270	3250	1.0	2520	3600	2030	2900
	1.5	2520	3600	1840	2640	1.5	2520	3600	1720	2460	1.5	2490	3570	1540	2200
	2.0	2430	3480	1490	2140	2.0	2270	3250	1400	2000	2.0	2030	2900	1250	1790
	3.0	1790	2560	1100	1580	3.0	1670	2390	1020	1470	3.0	1490	2140	910	1310
2.0	1.0	2520	3600	2520	3600	1.0	2520	3600	2520	3600	1.0	2520	3600	2310	3300
	1.5	2520	3600	2050	2940	1.5	2520	3600	2050	2940	1.5	2520	3600	1750	2510
	2.0	2520	3600	1670	2390	2.0	2520	3600	1670	2390	2.0	2310	3310	1420	2040
	3.0	2000	2860	1230	1760	3.0	2000	2860	1230	1760	3.0	1700	2440	1050	1500
2.5	1.0	2520	3600	2520	3600	1.0	2520	3600	2520	3600	1.0	2520	3600	2520	3600
	1.5	2520	3600	2220	3180	1.5	2520	3600	2220	3180	1.5	2520	3600	2020	2890
	2.0	2520	3600	1800	2580	2.0	2520	3600	1800	2580	2.0	2520	3600	1640	2350
	3.0	2160	3090	1330	1900	3.0	2160	3090	1330	1900	3.0	1960	2810	1210	1730
3.0	1.0	2520	3600	2520	3600	1.0	2520	3600	2520	3600	1.0	2520	3600	2520	3600
	1.5	2520	3600	2400	3440	1.5	2520	3600	2400	3440	1.5	2520	3600	2400	3440
	2.0	2520	3600	1960	2800	2.0	2520	3600	1960	2800	2.0	2520	3600	1960	2800
	3.0	2330	3340	1440	2060	3.0	2330	3340	1440	2060	3.0	2330	3340	1440	2060

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).

NINELINE™ Pleat

INDICATIVE INSTALLATION DETAILS



NINELINE™ Pleat |
Assembly



NINELINE™ Pleat |
Ext Corner Assembly



NINELINE™ Pleat |
Window Jamb



NINELINE™ Pleat |
Window Head & Sill



NINELINE™ Pleat |
Ext Corner



1300 155 155 | stratco.com.au

Scan this QR code to



find a Stratco near you.

All brand names, images accompanied by ® or ™ remain the property of Stratco Australia.