

# NINELINE



## DESIGN GUIDE

### NINELINE™ Flute

Joining the bold geometric profiles of the NINELINE™ range, Flute takes its inspiration from neoclassical architecture. The curved shape delivers impact and exceptional functional performance. Its no-exposed-fixing system ensures a fully waterproof walling solution with a seamless, refined finish.



**STRATCO**  
ARCHITECTURAL  
SOLUTIONS

# NINELINE™ Flute

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

PROFILE SPECIFICATIONS	
Cover	300mm
Maximum Sheet Length	6.0m
Minimum Sheet Length	300mm
Fixing Type	Concealed

MATERIAL SPECIFICATIONS		
Base Metal Thickness (mm)	0.55mm	
Tensile Strength	G300	Coating
COLORBOND® Finishes	Standard XRW	AM100
	ULTRA	AM150
	Metallic	AM100
	Matt Finish	AM100
	STUDIO	AM100
Stratco Finishes	Woodgrain - Ashwood & Maple	AM150
	Bronze	AM100
Other Finishes	Traditional Galvanised Z600	Z600

Fixing	Steel 0.75 - 1.5mm BMT	Bremick Vortex Plus M6.2-13x25 Hex Head Self Drilling Screw
	Timber *	Bremick Vortex Plus M6.2-13x25 Hex Head Self Drilling Screw

\*Timber to be F5/JD4 Timber (Radiata Pine) specification or superior.

## 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).

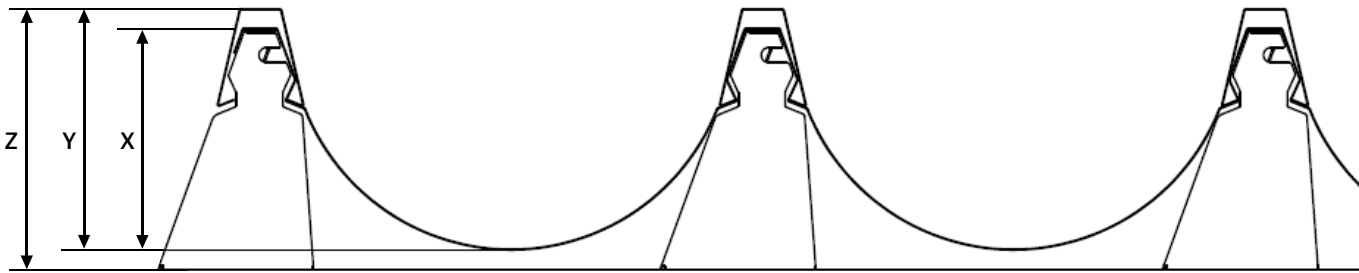
Refer AS/NZS 1170.2 for definition of local pressure (Kl) zones. Kl=3.0 is only applicable for buildings with an aspect ratio greater than 1.0. Aspect ratio defined as the average building height divided by the smaller of building length and width.

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

# NINELINE

Others in the Specification Sheet Library

☐ NINELINE™ Batten ☐ NINELINE™ Box ☐ NINELINE™ Pleat



PROFILE HEIGHT	
X	132mm
Y	144mm
Z	156mm

WALL CLADDING - FIXINGS	
	1 through both sheet laps into bracket
	2 through bracket base into purlin

For spans exceeding 1800mm, secure each overlap mid-span with one Bremick Vortex Plus M6.2-13x25 Hex Head Self Drilling Screw.

DESIGN PRESSURES (KPA)		
Span (mm)	Serviceability	Strength
	End/Internal	End/Internal
900	6.71	10.66
1200	4.71	7.29
1500	3.58	5.43
1800	2.86	4.27
2100	2.36	3.48
2400	2.01	2.92
2700	1.74	2.50
2900	1.59	2.27

These values are for use with steel supports with a minimum thickness of 0.75mm BMT G550.

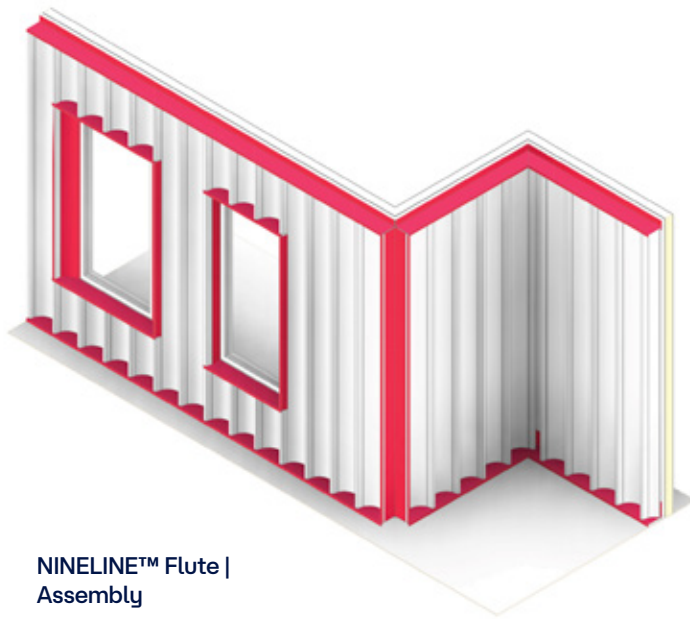
MAXIMUM ALLOWABLE SPANS (mm)															
Terrain Category	Kl	3m Maximum Height				Kl	5m Maximum Height				Kl	10m Maximum Height			
		Region A0-A5		Region B1			Region A0-A5		Region B1			Region A0-A5		Region B1	
		End	Internal	End	Internal		End	Internal	End	Internal		End	Internal	End	Internal
1.0	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900
	1.5	2030	2900	2030	2900	1.5	2030	2900	1980	2830	1.5	2030	2900	1790	2560
	2.0	2030	2900	1750	2500	2.0	2030	2900	1640	2350	2.0	2030	2900	1490	2130
	3.0	1910	2730	1330	1910	3.0	1790	2570	1250	1790	3.0	1620	2320	1130	1620
2.0	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900
	1.5	2030	2900	2030	2900	1.5	2030	2900	2030	2900	1.5	2030	2900	2010	2880
	2.0	2030	2900	1930	2760	2.0	2030	2900	1930	2760	2.0	2030	2900	1670	2390
	3.0	2030	2900	1470	2100	3.0	2030	2900	1470	2100	3.0	1790	2600	1270	1820
2.5	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900
	1.5	2030	2900	2030	2900	1.5	2030	2900	2030	2900	1.5	2030	2900	2030	2900
	2.0	2030	2900	2030	2900	2.0	2030	2900	2000	2900	2.0	2030	2900	1890	2710
	3.0	2030	2900	1570	2250	3.0	2030	2900	1570	2250	3.0	2000	2900	1440	2060
3.0	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900	1.0	2030	2900	2030	2900
	1.5	2030	2900	2030	2900	1.5	2030	2900	2030	2900	1.5	2030	2900	2030	2900
	2.0	2030	2900	2030	2900	2.0	2030	2900	2030	2900	2.0	2030	2900	2030	2900
	3.0	2030	2900	1680	2410	3.0	2030	2900	1680	2410	3.0	2030	2900	1680	2410

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

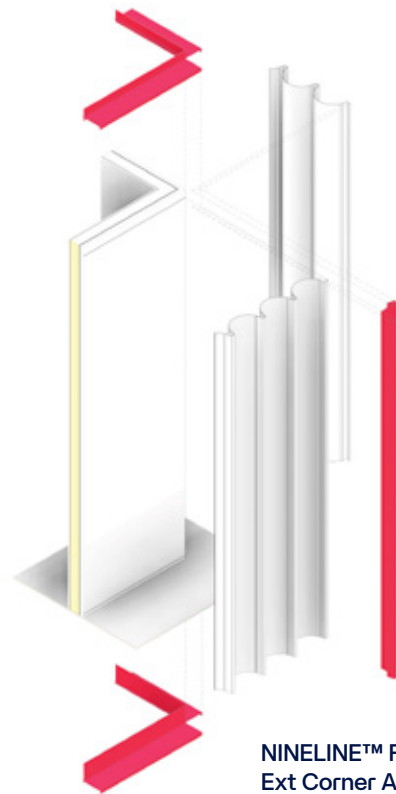
Note 2: For Region A0, utilise Terrain Category 2.0 in all terrains (i.e. T.C. 2.0 throughout).

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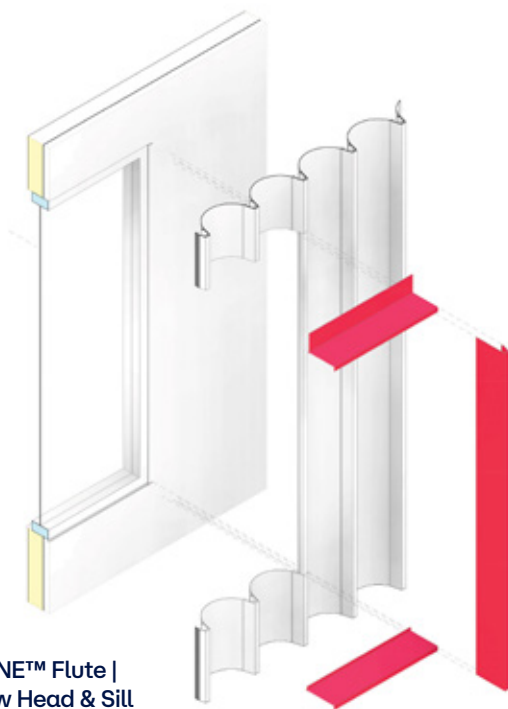
## INDICATIVE INSTALLATION DETAILS



NINELINE™ Flute |  
Assembly

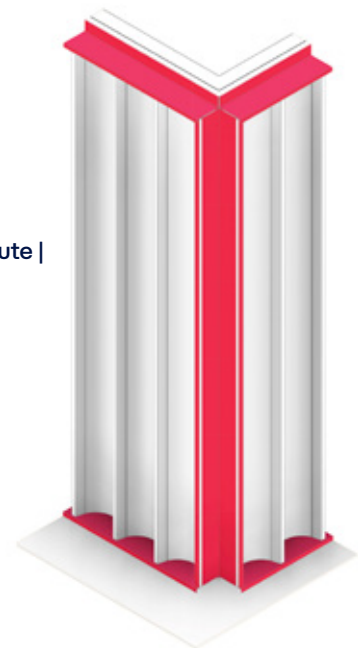


NINELINE™ Flute |  
Ext Corner Assembly



NINELINE™ Flute |  
Window Head & Sill

NINELINE™ Flute |  
Ext Corner



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