3.0 Nordeck® Maximum Span

Select the Nordeck® panel thickness from the Span Table below for the Wind Classification at the site (refer to building inspector if required) and the number of sides enclosed under the roof (Case A to E).

Case A 3 open sides	Case B 2 open sides	Case C 1 open side	Case D fully enclosed	Case E free standing
				

Nordeck®Span Table - Domestic Patios Single Spans (mm)

		Case A 3 open sides		Case B 2 open sides		Case C 1 open side		Case D fully enclosed		Case E free standing	
Wind category	Panel thickness (mm)	A Max. span	B Max. overhang	A Max. span	B Max. overhang	A Max. span	B Max. overhang	A Max. span	B Max. overhang	A Max. span	B Max. overhang
N1	50	5600	1400	5550	1400	5000	1250	5250	1300	5600	1400
	75	7100	1800	6500	1650	5850	1450	6150	1550	7100	1800
	100	8000	2000	7350	1850	6650	1650	6950	1750	8000	2000
	125	8750	2200	8150	2050	7350	1850	7700	1950	8700	2200
	150	9500	2400	8850	2200	7950	2000	8400	2100	9500	2400
	200	10750	2700	10150	2550	9100	2300	9600	2400	10750	2700
N2	50	5600	1400	4600	1150	4150	1050	4350	1100	5600	1400
	75	6850	1700	5400	1350	4900	1250	5150	1300	7100	1800
	100	7700	1950	6100	1550	5550	1400	5800	1450	8000	2000
	125	8300	2100	6750	1700	6100	1550	6400	1600	8700	2200
	150	9100	2300	7350	1850	6650	1650	6950	1750	9500	2400
	200	10100	2550	8400	2100	7600	1900	7950	2000	10500	2650
N3	50	4850	1200	3600	900	3300	850	3450	850	5100	1300
	75	5700	1450	4250	1050	3850	950	4050	1000	6000	1500
	100	6400	1600	4800	1200	4350	1100	4550	1150	6750	1700
	125	7050	1750	5300	1350	4800	1200	5050	1250	7400	1850
	150	7650	1900	5750	1450	5200	1300	5450	1350	8000	2000
	200	8650	2150	6550	1650	5950	1500	6250	1550	9100	2300
N4	50	3900	1000	2950	750	2700	700	2800	700	4100	1050
	75	4550	1150	3450	850	3150	800	3300	850	4800	1200
	100	5150	1300	3900	1000	3550	900	3700	950	5450	1350
	125	5700	1450	4300	1100	3900	1000	4100	1050	6000	1500
	150	6200	1550	4650	1150	4250	1050	4450	1100	6500	1650
	200	7050	1750	5300	1350	4850	1200	5050	1250	7450	1850
C1	50	4900	900	3600	900	3300	800	2600	600	4900	900
	75	5900	1200	4600	1100	3900	900	3100	700	5900	1200
	100	6900	1300	5000	1200	4500	1000	3700	900	6900	1300
	125	7700	1400	5600	1300	5100	1100	4100	1000	7700	1400
	150	8800	1400	6600	1400	5900	1400	6200	1400	8800	1400
C2	50	4000	800	2900	600	2700	600	2000	450	4000	800
	75	4800	1000	3500	700	3100	700	2000	500	4800	1000
	100	5600	1100	4100	800	3700	800	2700	600	5600	1100
	125	6300	1200	4600	900	4200	900	3000	700	6300	1200
	150	7100	1400	5300	1300	4800	1200	5100	1200	7100	1400
C3	50	3300	800	2400	600	2000	450	N/A	N/A	3300	800
	75	4000	1000	2500	600	2100	500	N/A	N/A	4000	1000
	100	4600	1100	3300	800	2800	600	1900	450	4600	1100
	125	5200	1200	3700	900	3100	700	2000	500	5200	1200
	150	5700	1400	4300	1000	3900	900	4100	1000	5700	1400

Note:
1. Applies to patios attached to highset and lowset houses only.
2. The overhang must not exceed 25% of the immediate backspan.
3. With a full-width panel measuring 1000mm, the maximum allowable side and corner overhang is 400mm.
4. In the case of free-standing awnings, it is permissible to utilize 'Case A - 3 Open Sides', as long as it is not blocked under.
5. For free-standing awnings, the strength, serviceability, and stability of the supporting members such as beams, posts, and footings must be independently assessed.
6. A deflection limit of Span/150 has been allowed for.
7. Dead loads of up to 15kg/m2 are permissible.
8. A concentrated load of 1.4kN for incidental and maintenance has been allowed for each span. It is important to avoid stepping on the ribs. Live loads are not permitted on overhangs.
9. When using Nordeck® Naturelite® skylight with a minimum of 2 full Nordeck® panels in between, the maximum allowable spans must be reduced by 10%.
10. When using Nordeck® Naturelite® skylight with a minimum of 1 full Nordeck® panels in between, the maximum allowable spans must be reduced by 25%.
11. Nordeck® Naturelite® skylight should not be walked on or used for foot traffic.
12. Nordeck® Naturelite® skylight can only be used on patios in Non-Cyclonic regions, it must not to be used in Cyclonic areas.

STEP 3: Nordeck® Max Roof Span				
Determine Max Roof Span				
Product	Panel Thickness	Case Type	Wind Classification	Max Span (mm) Enter at Step 3