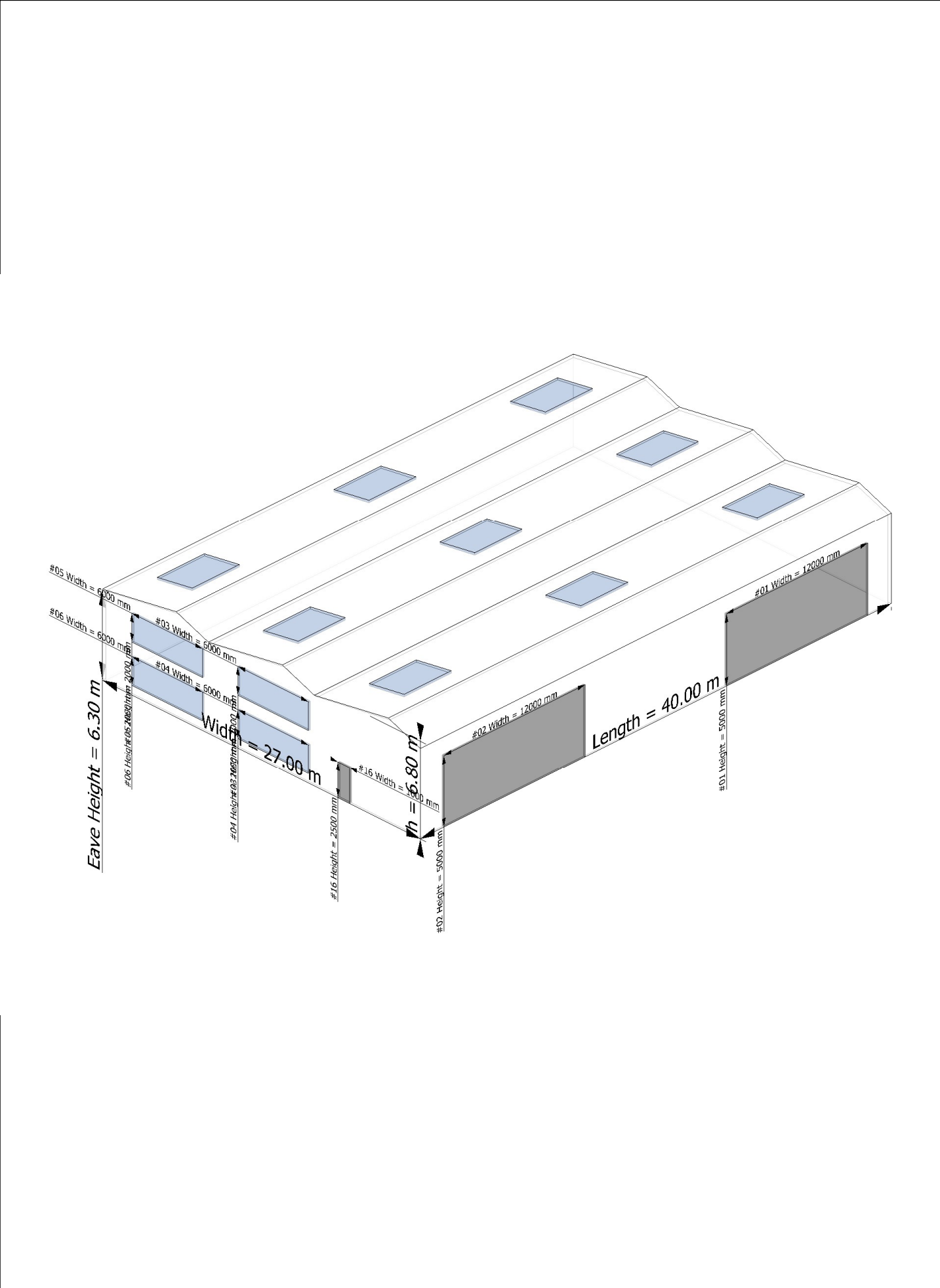




STRUCTURE DATA

TYPE: BUILDING

ORIENTATION: 67.5°

ROOF SHAPE: GABLE

WIDTH: 27.00 m

LENGTH: 40.00 m

ROOF PITCH (α): 9.0°

SPANS: 3

AVERAGE HEIGHT (h): 6.80 m

BASE RL: 0.00 m

SITE DATA

LOCATION

LATITUDE: -33.834486

LONGITUDE: 151.256145

ELEVATION: 87.50 m

DESIGN

REFERENCE: AS/NZS 1170-2021

IMPORTANCE LEVEL: 2

LIFE: 50 YEARS

WIND

REGION: A2

ULTIMATE ARI: 500 YEARS

REGIONAL WIND SPEED (VR)

Calculated as per AS/NZS 1170.2-2021 Section 3.2.

ULTIMATE: 45 m/s

SERVICEABILITY: 37 m/s

DIRECTION MULTIPLIER (Md)

Calculated for Region A2 as per AS/NZS 1170.2-2021 Section 3.3.

WIND Md

N 0.85

NE 0.75

E 0.85

SE 0.95

S 0.95

SW 0.95

W 1.0

NW 0.95

CLIMATE CHANGE MULTIPLIER (Mc) = 1.0

Calculated for Region A2 as per AS/NZS 1170.2-2021 Table 3.3.

TERRAIN/HEIGHT MULTIPLIER (Mz,cat)

Calculated using averaging as per AS/NZS 1170.2-2021 Section 4.2.3 and varies with height.

NORTH WIND: Mz,cat = 0.83 (TC 3.0)

ZONE 1: TC 3 to 649.50 m

NORTH EAST WIND: Mz,cat = 0.8733 (TC 2.62)

ZONE 1: TC 3 to 541.25 m

ZONE 2: TC 1 to 649.50 m

EAST WIND: Mz,cat = 0.9165 (TC 2.24)

ZONE 1: TC 3 to 433.00 m

ZONE 2: TC 1 to 649.50 m

SOUTH EAST WIND: Mz,cat = 0.8733 (TC 2.62)

ZONE 1: TC 3 to 541.25 m

ZONE 2: TC 1 to 649.50 m

SOUTH WIND: Mz,cat = 0.9165 (TC 2.24)

ZONE 1: TC 3 to 433.00 m

ZONE 2: TC 1 to 649.50 m

SOUTH WEST WIND: Mz,cat = 0.83 (TC 3.0)

ZONE 1: TC 3 to 649.50 m

WEST WIND: Mz,cat = 0.83 (TC 3.0)

ZONE 1: TC 3 to 649.50 m

NORTH WEST WIND: Mz,cat = 0.83 (TC 3.0)

ZONE 1: TC 3 to 649.50 m

SHIELDING MULTIPLIER (Ms)

Calculated as per AS/NZS 1170.2-2021 Section 4.3 and varies with height.

If the sum of projected breadths for a direction is less than 20.00 m, shielding is not considered to be applicable.

NORTH WIND: Ms = 0.8518

ID HEIGHT SCORE ELEVATION SLOPE AREA BREADTH LATITUDE LONGITUDE

002 7.80 m 95% 72.50 m 0.1226 221 m² 20.81 m -33.833388 151.256084

003 7.70 m 95% 69.00 m 0.1171 168 m² 5.36 m -33.833133 151.255630

004 7.40 m 95% 72.50 m 0.1128 231 m² 20.71 m -33.833300 151.256313

005	7.40 m	95%	73.00 m	0.1242	212 m²	19.33 m	-33.833454	151.255919
009	6.40 m	95%	73.00 m	0.1155	139 m²	16.00 m	-33.833360	151.256227
010	6.20 m	95%	72.00 m	0.108	167 m²	20.25 m	-33.833222	151.256448
011	6.10 m	95%	74.50 m	0.1217	300 m²	12.39 m	-33.833612	151.255669
014	5.40 m	95%	74.00 m	0.1198	312 m²	24.32 m	-33.833522	151.255773
030	4.10 m	95%	80.50 m	0.1588	192 m²	22.10 m	-33.834101	151.256256
032	4.00 m	95%	82.00 m	0.1811	117 m²	16.37 m	-33.834223	151.256232
040	3.50 m	-	72.00 m	0.1171	57 m²	9.43 m	-33.833376	151.255631
NORTH EAST WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
024	4.60 m	95%	77.50 m	0.0672	176 m²	15.13 m	-33.833458	151.257175
026	4.40 m	95%	77.00 m	0.0874	200 m²	19.69 m	-33.833571	151.256834
029	4.10 m	95%	83.00 m	0.0805	338 m²	26.75 m	-33.834215	151.256654
030	4.10 m	95%	80.50 m	0.1588	192 m²	3.84 m	-33.834101	151.256256
032	4.00 m	95%	82.00 m	0.1811	117 m²	4.15 m	-33.834223	151.256232
041	3.50 m	-	76.00 m	0.0918	36 m²	5.66 m	-33.833470	151.256728
EAST WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
015	5.10 m	95%	87.00 m	0.0075	1782 m²	26.05 m	-33.834869	151.256702
016	5.10 m	95%	87.00 m	0.0246	396 m²	7.46 m	-33.834632	151.256277
023	4.60 m	95%	86.00 m	0.0244	212 m²	21.15 m	-33.834320	151.256778
025	4.60 m	95%	86.50 m	0.0257	143 m²	16.14 m	-33.834480	151.256565
SOUTH EAST WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
015	5.10 m	95%	87.00 m	0.0075	1782 m²	54.72 m	-33.834869	151.256702
016	5.10 m	95%	87.00 m	0.0246	396 m²	21.83 m	-33.834632	151.256277
021	4.70 m	95%	87.50 m	0.0	39 m²	6.87 m	-33.835169	151.256510
022	4.60 m	95%	87.50 m	0.0	397 m²	7.90 m	-33.834945	151.256319
033	3.90 m	95%	83.00 m	0.0328	653 m²	10.69 m	-33.835653	151.256629
034	3.90 m	95%	81.50 m	0.0438	646 m²	39.44 m	-33.835482	151.257014
035	3.90 m	95%	84.00 m	0.0326	645 m²	40.80 m	-33.835283	151.256796
SOUTH WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
016	5.10 m	95%	87.00 m	0.0246	396 m²	20.16 m	-33.834632	151.256277
017	5.00 m	95%	89.00 m	0.0211	941 m²	45.03 m	-33.835117	151.256017
018	5.00 m	95%	88.00 m	0.0051	450 m²	19.42 m	-33.835314	151.255756
021	4.70 m	95%	87.50 m	0.0	39 m²	4.62 m	-33.835169	151.256510
022	4.60 m	95%	87.50 m	0.0	397 m²	26.72 m	-33.834945	151.256319
028	4.20 m	95%	89.50 m	0.0417	552 m²	7.30 m	-33.834822	151.255820
033	3.90 m	95%	83.00 m	0.0328	653 m²	36.43 m	-33.835653	151.256629
SOUTH WEST WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
017	5.00 m	95%	89.00 m	0.0211	941 m²	5.82 m	-33.835117	151.256017
018	5.00 m	95%	88.00 m	0.0051	450 m²	20.15 m	-33.835314	151.255756
027	4.30 m	95%	87.50 m	0.0	53 m²	9.53 m	-33.835058	151.255539
028	4.20 m	95%	89.50 m	0.0417	552 m²	18.36 m	-33.834822	151.255820
037	3.40 m	95%	85.50 m	0.0167	300 m²	23.21 m	-33.835038	151.255037
WEST WIND: Ms = 1.0								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
031	4.10 m	95%	86.50 m	0.0294	121 m²	15.47 m	-33.834473	151.255777
038	3.00 m	95%	87.00 m	0.0092	46 m²	9.68 m	-33.834633	151.255584
NORTH WEST WIND: Ms = 0.854								
ID	HEIGHT	SCORE	ELEVATION	SLOPE	AREA	BREADTH	LATITUDE	LONGITUDE
001	8.00 m	95%	74.50 m	0.1198	311 m²	20.24 m	-33.833737	151.255394
006	7.30 m	95%	76.50 m	0.0832	251 m²	21.37 m	-33.833922	151.254886
007	7.20 m	95%	74.50 m	0.1136	213 m²	18.61 m	-33.833795	151.255228
008	6.40 m	95%	70.50 m	0.1098	278 m²	17.17 m	-33.833498	151.254967
011	6.10 m	95%	74.50 m	0.1217	300 m²	17.06 m	-33.833612	151.255669
012	5.90 m	95%	70.00 m	0.1158	248 m²	20.12 m	-33.833270	151.255418
013	5.70 m	95%	69.50 m	0.1167	384 m²	16.74 m	-33.833303	151.255276
019	4.80 m	95%	72.50 m	0.1029	241 m²	21.85 m	-33.833653	151.254928
020	4.80 m	95%	76.00 m	0.113	219 m²	16.07 m	-33.833722	151.255541
036	3.90 m	95%	73.50 m	0.1007	194 m²	17.88 m	-33.833778	151.254907
039	3.50 m	-	76.50 m	0.1109	97 m²	15.11 m	-33.833933	151.255304
040	3.50 m	-	72.00 m	0.1171	57 m²	2.97 m	-33.833376	151.255631
TOPOGRAPHIC MULTIPLIER (Mt)								
• Calculated as per AS/NZS 1170.2-2021 Section 4.4 and varies with height.								
• Topography calculations based on "DEFAULT" dataset (this can be edited in Settings).								
WIND	CRITICAL	TOPOGRAPHY	H	Lu	x	Mh	Mt	
N	NNW	Hill	83.00 m	266.25 m	-40.00 m	1.2069	1.2069	
NE	ENE	Escarpment	87.50 m	337.37 m	-40.00 m	1.1789	1.1789	
E	EbS	Escarpment	85.00 m	215.79 m	40.00 m	1.2727	1.2727	
SE	ESE	Hill	86.50 m	282.00 m	40.00 m	1.2057	1.2057	
S	SSW	Hill	87.50 m	274.71 m	60.00 m	1.2007	1.2007	
SW	SSW	Hill	87.50 m	274.71 m	60.00 m	1.2007	1.2007	
W	WNN	Hill	35.50 m	330.00 m	0.00 m	1.0808	1.0808	
NW	NNW	Hill	83.00 m	266.25 m	-40.00 m	1.2069	1.2069	
ICE								
ALPINE:		FALSE						
WIND SPEED (VR):		34 m/s						
----- ANALYSIS -----								

LIMIT STATE 01: Ultimate

NORTH WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2069	32.64 m/s	0.6392 kPa
6.12 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2083	32.68 m/s	0.6408 kPa
5.44 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2097	32.71 m/s	0.6420 kPa
4.76 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2111	32.75 m/s	0.6435 kPa
4.08 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2126	32.79 m/s	0.6451 kPa
3.40 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.214	32.83 m/s	0.6467 kPa
2.72 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2155	32.87 m/s	0.6483 kPa
2.04 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.217	32.91 m/s	0.6498 kPa
1.36 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2185	32.95 m/s	0.6514 kPa
0.68 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.22	32.99 m/s	0.6530 kPa
0.00 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2216	33.04 m/s	0.6550 kPa
NORTH EAST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.75	1.0	0.8733	0	-	-	1.0	1.1789	34.75 m/s	0.7245 kPa
6.12 m	0.75	1.0	0.8661	0	-	-	1.0	1.1798	34.49 m/s	0.7137 kPa
5.44 m	0.75	1.0	0.8594	0	-	-	1.0	1.1808	34.25 m/s	0.7038 kPa
4.76 m	0.75	1.0	0.853	0	-	-	1.0	1.1818	34.02 m/s	0.6944 kPa
4.08 m	0.75	1.0	0.8469	0	-	-	1.0	1.1828	33.81 m/s	0.6859 kPa
3.40 m	0.75	1.0	0.8416	0	-	-	1.0	1.1837	33.62 m/s	0.6782 kPa
2.72 m	0.75	1.0	0.8373	0	-	-	1.0	1.1848	33.48 m/s	0.6725 kPa
2.04 m	0.75	1.0	0.8336	0	-	-	1.0	1.1858	33.36 m/s	0.6677 kPa
1.36 m	0.75	1.0	0.83	0	-	-	1.0	1.1868	33.25 m/s	0.6633 kPa
0.68 m	0.75	1.0	0.83	0	-	-	1.0	1.1878	33.27 m/s	0.6641 kPa
0.00 m	0.75	1.0	0.83	0	-	-	1.0	1.1889	33.30 m/s	0.6653 kPa
EAST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.85	1.0	0.9165	0	-	-	1.0	1.2727	44.62 m/s	1.1946 kPa
6.12 m	0.85	1.0	0.9073	0	-	-	1.0	1.2749	44.24 m/s	1.1743 kPa
5.44 m	0.85	1.0	0.8986	0	-	-	1.0	1.2771	43.90 m/s	1.1563 kPa
4.76 m	0.85	1.0	0.8899	0	-	-	1.0	1.2794	43.55 m/s	1.1380 kPa
4.08 m	0.85	1.0	0.881	0	-	-	1.0	1.2817	43.19 m/s	1.1192 kPa
3.40 m	0.85	1.0	0.8728	0	-	-	1.0	1.2841	42.87 m/s	1.1027 kPa
2.72 m	0.85	1.0	0.8668	0	-	-	1.0	1.2865	42.65 m/s	1.0914 kPa
2.04 m	0.85	1.0	0.8631	0	-	-	1.0	1.2889	42.55 m/s	1.0863 kPa
1.36 m	0.85	1.0	0.8594	0	-	-	1.0	1.2914	42.45 m/s	1.0812 kPa
0.68 m	0.85	1.0	0.8557	0	-	-	1.0	1.294	42.35 m/s	1.0761 kPa
0.00 m	0.85	1.0	0.8519	0	-	-	1.0	1.2965	42.25 m/s	1.0710 kPa
SOUTH EAST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.95	1.0	0.8733	0	-	-	1.0	1.2057	45.01 m/s	1.2155 kPa
6.12 m	0.95	1.0	0.8661	0	-	-	1.0	1.207	44.69 m/s	1.1983 kPa
5.44 m	0.95	1.0	0.8594	0	-	-	1.0	1.2083	44.39 m/s	1.1823 kPa
4.76 m	0.95	1.0	0.853	0	-	-	1.0	1.2096	44.11 m/s	1.1674 kPa
4.08 m	0.95	1.0	0.8469	0	-	-	1.0	1.211	43.84 m/s	1.1532 kPa
3.40 m	0.95	1.0	0.8416	0	-	-	1.0	1.2124	43.62 m/s	1.1416 kPa
2.72 m	0.95	1.0	0.8373	0	-	-	1.0	1.2137	43.44 m/s	1.1322 kPa
2.04 m	0.95	1.0	0.8336	0	-	-	1.0	1.2151	43.30 m/s	1.1249 kPa
1.36 m	0.95	1.0	0.83	0	-	-	1.0	1.2166	43.17 m/s	1.1182 kPa
0.68 m	0.95	1.0	0.83	0	-	-	1.0	1.218	43.22 m/s	1.1208 kPa
0.00 m	0.95	1.0	0.83	0	-	-	1.0	1.2195	43.27 m/s	1.1234 kPa
SOUTH WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.95	1.0	0.9165	0	-	-	1.0	1.2007	47.04 m/s	1.3277 kPa
6.12 m	0.95	1.0	0.9073	0	-	-	1.0	1.202	46.62 m/s	1.3041 kPa
5.44 m	0.95	1.0	0.8986	0	-	-	1.0	1.2033	46.22 m/s	1.2818 kPa
4.76 m	0.95	1.0	0.8899	0	-	-	1.0	1.2046	45.83 m/s	1.2602 kPa
4.08 m	0.95	1.0	0.881	0	-	-	1.0	1.206	45.42 m/s	1.2378 kPa
3.40 m	0.95	1.0	0.8728	0	-	-	1.0	1.2073	45.05 m/s	1.2177 kPa
2.72 m	0.95	1.0	0.8668	0	-	-	1.0	1.2087	44.79 m/s	1.2037 kPa
2.04 m	0.95	1.0	0.8631	0	-	-	1.0	1.2101	44.65 m/s	1.1962 kPa
1.36 m	0.95	1.0	0.8594	0	-	-	1.0	1.2115	44.51 m/s	1.1887 kPa
0.68 m	0.95	1.0	0.8557	0	-	-	1.0	1.213	44.37 m/s	1.1812 kPa
0.00 m	0.95	1.0	0.8519	0	-	-	1.0	1.2145	44.23 m/s	1.1738 kPa
SOUTH WEST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.95	1.0	0.83	0	-	-	1.0	1.2007	42.60 m/s	1.0889 kPa
6.12 m	0.95	1.0	0.83	0	-	-	1.0	1.202	42.65 m/s	1.0914 kPa
5.44 m	0.95	1.0	0.83	0	-	-	1.0	1.2033	42.70 m/s	1.0940 kPa
4.76 m	0.95	1.0	0.83	0	-	-	1.0	1.2046	42.74 m/s	1.0960 kPa
4.08 m	0.95	1.0	0.83	0	-	-	1.0	1.206	42.79 m/s	1.0986 kPa
3.40 m	0.95	1.0	0.83	0	-	-	1.0	1.2073	42.84 m/s	1.1012 kPa
2.72 m	0.95	1.0	0.83	0	-	-	1.0	1.2087	42.89 m/s	1.1037 kPa
2.04 m	0.95	1.0	0.83	0	-	-	1.0	1.2101	42.94 m/s	1.1063 kPa
1.36 m	0.95	1.0	0.83	0	-	-	1.0	1.2115	42.99 m/s	1.1089 kPa
0.68 m	0.95	1.0	0.83	0	-	-	1.0	1.213	43.04 m/s	1.1115 kPa
0.00 m	0.95	1.0	0.83	0	-	-	1.0	1.2145	43.09 m/s	1.1140 kPa
WEST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	1.0	1.0	0.83	0	-	-	1.0	1.0808	40.37 m/s	0.9778 kPa
6.12 m	1.0	1.0	0.83	0	-	-	1.0	1.0812	40.38 m/s	0.9783 kPa
5.44 m	1.0	1.0	0.83	0	-	-	1.0	1.0816	40.40 m/s	0.9793 kPa
4.76 m	1.0	1.0	0.83	0	-	-	1.0	1.0821	40.42 m/s	0.9803 kPa
4.08 m	1.0	1.0	0.83	0	-	-	1.0	1.0825	40.43 m/s	0.9808 kPa
3.40 m	1.0	1.0	0.83	0	-	-	1.0	1.083	40.45 m/s	0.9817 kPa
2.72 m	1.0	1.0	0.83	0	-	-	1.0	1.0835	40.47 m/s	0.9827 kPa
2.04 m	1.0	1.0	0.83	0	-	-	1.0	1.0839	40.48 m/s	0.9832 kPa
1.36 m	1.0	1.0	0.83	0	-	-	1.0	1.0844	40.50 m/s	0.9842 kPa
0.68 m	1.0	1.0	0.83	0	-	-	1.0	1.0849	40.52 m/s	0.9851 kPa
0.00 m	1.0	1.0	0.83	0	-	-	1.0	1.0854	40.54 m/s	0.9861 kPa

NORTH WEST WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2069	36.57 m/s	0.8024 kPa	
6.12 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2083	36.61 m/s	0.8042 kPa	
5.44 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2097	36.66 m/s	0.8064 kPa	
4.76 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2111	36.70 m/s	0.8081 kPa	
4.08 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2126	36.74 m/s	0.8099 kPa	
3.40 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.214	36.79 m/s	0.8121 kPa	
2.72 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2155	36.83 m/s	0.8139 kPa	
2.04 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.217	36.88 m/s	0.8161 kPa	
1.36 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2185	36.92 m/s	0.8179 kPa	
0.68 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.22	36.97 m/s	0.8201 kPa	
0.00 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2216	37.02 m/s	0.8223 kPa	
LIMIT STATE 02: Serviceability											
NORTH WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2069	26.84 m/s	0.4322 kPa	
6.12 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2083	26.87 m/s	0.4332 kPa	
5.44 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2097	26.90 m/s	0.4342 kPa	
4.76 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2111	26.93 m/s	0.4351 kPa	
4.08 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2126	26.96 m/s	0.4361 kPa	
3.40 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.214	26.99 m/s	0.4371 kPa	
2.72 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2155	27.03 m/s	0.4384 kPa	
2.04 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.217	27.06 m/s	0.4393 kPa	
1.36 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2185	27.09 m/s	0.4403 kPa	
0.68 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.22	27.13 m/s	0.4416 kPa	
0.00 m	0.85	1.0	0.83	4	7.58 m	16.55 m	0.8518	1.2216	27.16 m/s	0.4426 kPa	
NORTH EAST WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.75	1.0	0.8733	0	-	-	1.0	1.1789	28.57 m/s	0.4897 kPa	
6.12 m	0.75	1.0	0.8661	0	-	-	1.0	1.1798	28.36 m/s	0.4826 kPa	
5.44 m	0.75	1.0	0.8594	0	-	-	1.0	1.1808	28.16 m/s	0.4758 kPa	
4.76 m	0.75	1.0	0.853	0	-	-	1.0	1.1818	27.97 m/s	0.4694 kPa	
4.08 m	0.75	1.0	0.8469	0	-	-	1.0	1.1828	27.80 m/s	0.4637 kPa	
3.40 m	0.75	1.0	0.8416	0	-	-	1.0	1.1837	27.64 m/s	0.4584 kPa	
2.72 m	0.75	1.0	0.8373	0	-	-	1.0	1.1848	27.53 m/s	0.4547 kPa	
2.04 m	0.75	1.0	0.8336	0	-	-	1.0	1.1858	27.43 m/s	0.4514 kPa	
1.36 m	0.75	1.0	0.83	0	-	-	1.0	1.1868	27.33 m/s	0.4482 kPa	
0.68 m	0.75	1.0	0.83	0	-	-	1.0	1.1878	27.36 m/s	0.4491 kPa	
0.00 m	0.75	1.0	0.83	0	-	-	1.0	1.1889	27.38 m/s	0.4498 kPa	
EAST WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.85	1.0	0.9165	0	-	-	1.0	1.2727	36.68 m/s	0.8073 kPa	
6.12 m	0.85	1.0	0.9073	0	-	-	1.0	1.2749	36.38 m/s	0.7941 kPa	
5.44 m	0.85	1.0	0.8986	0	-	-	1.0	1.2771	36.09 m/s	0.7815 kPa	
4.76 m	0.85	1.0	0.8899	0	-	-	1.0	1.2794	35.81 m/s	0.7694 kPa	
4.08 m	0.85	1.0	0.881	0	-	-	1.0	1.2817	35.51 m/s	0.7566 kPa	
3.40 m	0.85	1.0	0.8728	0	-	-	1.0	1.2841	35.25 m/s	0.7455 kPa	
2.72 m	0.85	1.0	0.8668	0	-	-	1.0	1.2865	35.07 m/s	0.7379 kPa	
2.04 m	0.85	1.0	0.8631	0	-	-	1.0	1.2889	34.99 m/s	0.7346 kPa	
1.36 m	0.85	1.0	0.8594	0	-	-	1.0	1.2914	34.90 m/s	0.7308 kPa	
0.68 m	0.85	1.0	0.8557	0	-	-	1.0	1.294	34.82 m/s	0.7275 kPa	
0.00 m	0.85	1.0	0.8519	0	-	-	1.0	1.2965	34.74 m/s	0.7241 kPa	
SOUTH EAST WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.95	1.0	0.8733	0	-	-	1.0	1.2057	37.01 m/s	0.8218 kPa	
6.12 m	0.95	1.0	0.8661	0	-	-	1.0	1.207	36.75 m/s	0.8103 kPa	
5.44 m	0.95	1.0	0.8594	0	-	-	1.0	1.2083	36.50 m/s	0.7994 kPa	
4.76 m	0.95	1.0	0.853	0	-	-	1.0	1.2096	36.27 m/s	0.7893 kPa	
4.08 m	0.95	1.0	0.8469	0	-	-	1.0	1.211	36.05 m/s	0.7798 kPa	
3.40 m	0.95	1.0	0.8416	0	-	-	1.0	1.2124	35.87 m/s	0.7720 kPa	
2.72 m	0.95	1.0	0.8373	0	-	-	1.0	1.2137	35.72 m/s	0.7656 kPa	
2.04 m	0.95	1.0	0.8336	0	-	-	1.0	1.2151	35.60 m/s	0.7604 kPa	
1.36 m	0.95	1.0	0.83	0	-	-	1.0	1.2166	35.49 m/s	0.7557 kPa	
0.68 m	0.95	1.0	0.83	0	-	-	1.0	1.218	35.53 m/s	0.7574 kPa	
0.00 m	0.95	1.0	0.83	0	-	-	1.0	1.2195	35.58 m/s	0.7596 kPa	
SOUTH WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.95	1.0	0.9165	0	-	-	1.0	1.2007	38.68 m/s	0.8977 kPa	
6.12 m	0.95	1.0	0.9073	0	-	-	1.0	1.202	38.33 m/s	0.8815 kPa	
5.44 m	0.95	1.0	0.8986	0	-	-	1.0	1.2033	38.01 m/s	0.8669 kPa	
4.76 m	0.95	1.0	0.8899	0	-	-	1.0	1.2046	37.68 m/s	0.8519 kPa	
4.08 m	0.95	1.0	0.881	0	-	-	1.0	1.206	37.35 m/s	0.8370 kPa	
3.40 m	0.95	1.0	0.8728	0	-	-	1.0	1.2073	37.04 m/s	0.8232 kPa	
2.72 m	0.95	1.0	0.8668	0	-	-	1.0	1.2087	36.83 m/s	0.8139 kPa	
2.04 m	0.95	1.0	0.8631	0	-	-	1.0	1.2101	36.71 m/s	0.8086 kPa	
1.36 m	0.95	1.0	0.8594	0	-	-	1.0	1.2115	36.60 m/s	0.8037 kPa	
0.68 m	0.95	1.0	0.8557	0	-	-	1.0	1.213	36.48 m/s	0.7985 kPa	
0.00 m	0.95	1.0	0.8519	0	-	-	1.0	1.2145	36.37 m/s	0.7937 kPa	
SOUTH WEST WIND											
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz	
6.80 m	0.95	1.0	0.83	0	-	-	1.0	1.2007	35.03 m/s	0.7363 kPa	
6.12 m	0.95	1.0	0.83	0	-	-	1.0	1.202	35.07 m/s	0.7379 kPa	
5.44 m	0.95	1.0	0.83	0	-	-	1.0	1.2033	35.11 m/s	0.7396 kPa	
4.76 m	0.95	1.0	0.83	0	-	-	1.0	1.2046	35.14 m/s	0.7409 kPa	
4.08 m	0.95	1.0	0.83	0	-	-	1.0	1.206	35.18 m/s	0.7426 kPa	
3.40 m	0.95	1.0	0.83	0	-	-	1.0	1.2073	35.22 m/s	0.7443 kPa	
2.72 m	0.95	1.0	0.83	0	-	-	1.0	1.2087	35.26 m/s	0.7460 kPa	
2.04 m	0.95	1.0	0.83	0	-	-	1.0	1.2101	35.30 m/s	0.7477 kPa	
1.36 m	0.95	1.0	0.83	0	-	-	1.0	1.2115	35.34 m/s	0.7493 kPa	
0.68 m	0.95	1.0	0.83	0	-	-	1.0	1.213	35.39 m/s	0.7515 kPa	

0.00 m	0.95	1.0	0.83	0	-	-	1.0	1.2145	35.43 m/s	0.7532 kPa
WEST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	1.0	1.0	0.83	0	-	-	1.0	1.0808	33.19 m/s	0.6609 kPa
6.12 m	1.0	1.0	0.83	0	-	-	1.0	1.0812	33.20 m/s	0.6613 kPa
5.44 m	1.0	1.0	0.83	0	-	-	1.0	1.0816	33.22 m/s	0.6621 kPa
4.76 m	1.0	1.0	0.83	0	-	-	1.0	1.0821	33.23 m/s	0.6625 kPa
4.08 m	1.0	1.0	0.83	0	-	-	1.0	1.0825	33.24 m/s	0.6629 kPa
3.40 m	1.0	1.0	0.83	0	-	-	1.0	1.083	33.26 m/s	0.6637 kPa
2.72 m	1.0	1.0	0.83	0	-	-	1.0	1.0835	33.27 m/s	0.6641 kPa
2.04 m	1.0	1.0	0.83	0	-	-	1.0	1.0839	33.29 m/s	0.6649 kPa
1.36 m	1.0	1.0	0.83	0	-	-	1.0	1.0844	33.30 m/s	0.6653 kPa
0.68 m	1.0	1.0	0.83	0	-	-	1.0	1.0849	33.32 m/s	0.6661 kPa
0.00 m	1.0	1.0	0.83	0	-	-	1.0	1.0854	33.33 m/s	0.6665 kPa
NORTH WEST WIND										
RL	Md	Mc	Mz,cat	ns	hs	bs	Ms	Mt	Vsit,β	qz
6.80 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2069	30.07 m/s	0.5425 kPa
6.12 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2083	30.10 m/s	0.5436 kPa
5.44 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2097	30.14 m/s	0.5451 kPa
4.76 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2111	30.17 m/s	0.5461 kPa
4.08 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2126	30.21 m/s	0.5476 kPa
3.40 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.214	30.25 m/s	0.5490 kPa
2.72 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2155	30.28 m/s	0.5501 kPa
2.04 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.217	30.32 m/s	0.5516 kPa
1.36 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2185	30.36 m/s	0.5530 kPa
0.68 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.22	30.40 m/s	0.5545 kPa
0.00 m	0.95	1.0	0.83	3	7.50 m	20.07 m	0.854	1.2216	30.44 m/s	0.5560 kPa
----- INTERNAL PRESSURES -----										
• Building contains openings larger than 0.5% of the corresponding wall/roof area, use Table 5.1(B) to determine Cp,i.										
• The largest opening (12000 mm × 5000 mm) is on the South South East (θ = 157.5°) Wall.										
PERMEABILITY										
SURFACE	TYPE		PERMEABILITY							
01	Wall (ENE)		Permeable							
02	Wall (SSE)		Permeable							
03	Wall (WSW)		Permeable							
04	Wall (NNW)		Permeable							
05	Roof		Impermeable							
06	Roof		Impermeable							
07	Roof		Impermeable							
08	Roof		Impermeable							
09	Roof		Impermeable							
10	Roof		Impermeable							
LIMIT STATE 01: Ultimate										
WINDWARD BUILDING FACE: EAST NORTH EAST (θ = 67.5°)										
DYNAMIC										
FREQUENCY (n1):		1.0 Hz								
Cdyn:		1.0								
VOLUME FACTOR										
VOLUME:		8720 m³								
OPEN AREA:		120 m²								
Kv:		1.0								
LARGEST OPENING										
Cp,e:		-0.65 (SIDE WALL RATIO = 0.76)								
Ka:		0.8								
Kl:		1.0								
INTERNAL 1										
Cp,i:		-0.3								
Kc,i:		1.0								
Kc,e:		0.9								
Cshp,i:		-0.3								
pi:		-0.36 kPa								
INTERNAL 2										
Cp,i:		0.0								
Kc,i:		1.0								
Kc,e:		0.9								
Cshp,i:		0.0								
pi:		0.00 kPa								
WINDWARD BUILDING FACE: SOUTH SOUTH EAST (θ = 157.5°)										
DYNAMIC										
FREQUENCY (n1):		1.0 Hz								
Cdyn:		1.0								
VOLUME FACTOR										
VOLUME:		8720 m³								
OPEN AREA:		120 m²								
Kv:		1.0								
LARGEST OPENING										
Cp,e:		0.7 (WINDWARD WALL RATIO = 0.76)								
Ka:		0.9								
Kl:		1.0								

TITLE: 27.00 m x 40.00 m x 6.80 m Multi-span Building
PROJECT: CHECKWIND Samples
CODE: R-0001

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INTERNAL 1

Cp,i: -0.1
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.1
pi: -0.13 kPa

INTERNAL 2

Cp,i: 0.2
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.2
pi: 0.27 kPa

WINDWARD BUILDING FACE: WEST SOUTH WEST ($\theta = 247.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: -0.65 (SIDE WALL RATIO = 0.76)
Ka: 0.8
Kl: 1.0

INTERNAL 1

Cp,i: -0.3
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.3
pi: -0.36 kPa

INTERNAL 2

Cp,i: 0.0
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.0
pi: 0.00 kPa

WINDWARD BUILDING FACE: NORTH NORTH WEST ($\theta = 337.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: -0.3 (LEEWARD WALL RATIO = 0.76)
Ka: 0.95
Kl: 1.0

INTERNAL 1

Cp,i: -0.3
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.3
pi: -0.27 kPa

INTERNAL 2

Cp,i: 0.0
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.0
pi: 0.00 kPa

LIMIT STATE 02: Serviceability

WINDWARD BUILDING FACE: EAST NORTH EAST ($\theta = 67.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: -0.65 (SIDE WALL RATIO = 0.76)
Ka: 0.8
Kl: 1.0

INTERNAL 1

Cp,i: -0.3
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.3

TITLE: 27.00 m x 40.00 m x 6.80 m Multi-span Building
PROJECT: CHECKWIND Samples
CODE: R-0001

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pi: -0.24 kPa

INTERNAL 2

Cp,i: 0.0
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.0
pi: 0.00 kPa

WINDWARD BUILDING FACE: SOUTH SOUTH EAST ($\theta = 157.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: 0.7 (WINDWARD WALL RATIO = 0.76)
Ka: 0.9
Kl: 1.0

INTERNAL 1

Cp,i: -0.1
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.1
pi: -0.09 kPa

INTERNAL 2

Cp,i: 0.2
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.2
pi: 0.18 kPa

WINDWARD BUILDING FACE: WEST SOUTH WEST ($\theta = 247.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: -0.65 (SIDE WALL RATIO = 0.76)
Ka: 0.8
Kl: 1.0

INTERNAL 1

Cp,i: -0.3
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.3
pi: -0.24 kPa

INTERNAL 2

Cp,i: 0.0
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.0
pi: 0.00 kPa

WINDWARD BUILDING FACE: NORTH NORTH WEST ($\theta = 337.5^\circ$)

DYNAMIC

FREQUENCY (n1): 1.0 Hz
Cdyn: 1.0

VOLUME FACTOR

VOLUME: 8720 m³
OPEN AREA: 120 m²
Kv: 1.0

LARGEST OPENING

Cp,e: -0.3 (LEEWARD WALL RATIO = 0.76)
Ka: 0.95
Kl: 1.0

INTERNAL 1

Cp,i: -0.3
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: -0.3
pi: -0.18 kPa

INTERNAL 2

Cp,i: 0.0
Kc,i: 1.0
Kc,e: 0.9
Cshp,i: 0.0

pi:

0.00 kPa

----- WALL PRESSURES -----

LIMIT STATE 01: Ultimate @ z = 6.80 m

WINDWARD BUILDING FACE: EAST NORTH EAST (θ = 67.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	1.0	0.7	0.76 kPa / 0.76 kPa	1.12 kPa / 0.76 kPa
Leeward	40.00 m	1.0	-0.4037	-0.44 kPa / -0.44 kPa	-0.08 kPa / -0.44 kPa
Side	0.00 m to 6.80 m	0.88 (A = 40.00 m²)	-0.65	-0.63 kPa / -0.63 kPa	-0.27 kPa / -0.63 kPa
	6.80 m to 13.60 m	0.88 (A = 40.00 m²)	-0.5	-0.48 kPa / -0.48 kPa	-0.12 kPa / -0.48 kPa
	13.60 m to 20.40 m	0.88 (A = 40.00 m²)	-0.3	-0.29 kPa / -0.29 kPa	0.07 kPa / -0.29 kPa
	20.40 m to 40.00 m	0.88 (A = 40.00 m²)	-0.2	-0.19 kPa / -0.19 kPa	0.17 kPa / -0.19 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m²	1.5	0.945 / 0.945	1.14 kPa / 1.14 kPa	1.50 kPa / 1.14 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m²	1.5	-0.7722 / -0.7722	-0.93 kPa / -0.93 kPa	-0.57 kPa / -0.93 kPa
	0.00 m to 2.70 m	SA2	7.29 m²	2.0	-1.0296 / -1.0296	-1.24 kPa / -1.24 kPa	-0.88 kPa / -1.24 kPa

WINDWARD BUILDING FACE: SOUTH SOUTH EAST (θ = 157.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	0.94 (A = 40.00 m²)	0.7	0.79 kPa / 0.79 kPa	0.92 kPa / 0.52 kPa
Leeward	27.00 m	0.99 (A = 40.00 m²)	-0.3	-0.35 kPa / -0.35 kPa	-0.22 kPa / -0.62 kPa
Side	0.00 m to 6.80 m	1.0	-0.65	-0.78 kPa / -0.78 kPa	-0.65 kPa / -1.05 kPa
	6.80 m to 13.60 m	1.0	-0.5	-0.60 kPa / -0.60 kPa	-0.47 kPa / -0.87 kPa
	13.60 m to 20.40 m	1.0	-0.3	-0.36 kPa / -0.36 kPa	-0.23 kPa / -0.63 kPa
	20.40 m to 27.00 m	1.0	-0.2	-0.24 kPa / -0.24 kPa	-0.11 kPa / -0.51 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m²	1.5	0.8883 / 0.8883	1.18 kPa / 1.18 kPa	1.31 kPa / 0.91 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m²	1.5	-0.8775 / -0.8775	-1.17 kPa / -1.17 kPa	-1.04 kPa / -1.44 kPa
	0.00 m to 2.70 m	SA2	7.29 m²	2.0	-1.17 / -1.17	-1.55 kPa / -1.55 kPa	-1.42 kPa / -1.82 kPa

WINDWARD BUILDING FACE: WEST SOUTH WEST (θ = 247.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	1.0	0.7	0.76 kPa / 0.76 kPa	1.12 kPa / 0.76 kPa
Leeward	40.00 m	1.0	-0.4037	-0.44 kPa / -0.44 kPa	-0.08 kPa / -0.44 kPa
Side	0.00 m to 6.80 m	0.88 (A = 40.00 m²)	-0.65	-0.63 kPa / -0.63 kPa	-0.27 kPa / -0.63 kPa
	6.80 m to 13.60 m	0.88 (A = 40.00 m²)	-0.5	-0.48 kPa / -0.48 kPa	-0.12 kPa / -0.48 kPa
	13.60 m to 20.40 m	0.88 (A = 40.00 m²)	-0.3	-0.29 kPa / -0.29 kPa	0.07 kPa / -0.29 kPa
	20.40 m to 40.00 m	0.88 (A = 40.00 m²)	-0.2	-0.19 kPa / -0.19 kPa	0.17 kPa / -0.19 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m²	1.5	0.945 / 0.945	1.14 kPa / 1.14 kPa	1.50 kPa / 1.14 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m²	1.5	-0.7722 / -0.7722	-0.93 kPa / -0.93 kPa	-0.57 kPa / -0.93 kPa
	0.00 m to 2.70 m	SA2	7.29 m²	2.0	-1.0296 / -1.0296	-1.24 kPa / -1.24 kPa	-0.88 kPa / -1.24 kPa

WINDWARD BUILDING FACE: NORTH NORTH WEST (θ = 337.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	0.94 (A = 40.00 m²)	0.7	0.53 kPa / 0.53 kPa	0.80 kPa / 0.53 kPa
Leeward	27.00 m	0.99 (A = 40.00 m²)	-0.3	-0.24 kPa / -0.24 kPa	0.03 kPa / -0.24 kPa
Side	0.00 m to 6.80 m	1.0	-0.65	-0.52 kPa / -0.52 kPa	-0.25 kPa / -0.52 kPa
	6.80 m to 13.60 m	1.0	-0.5	-0.40 kPa / -0.40 kPa	-0.13 kPa / -0.40 kPa
	13.60 m to 20.40 m	1.0	-0.3	-0.24 kPa / -0.24 kPa	0.03 kPa / -0.24 kPa
	20.40 m to 27.00 m	1.0	-0.2	-0.16 kPa / -0.16 kPa	0.11 kPa / -0.16 kPa

TITLE: 27.00 m x 40.00 m x 6.80 m Multi-span Building
PROJECT: CHECKWIND Samples
CODE: R-0001

Revolutio
Chris Hackney
Tuesday, January 27, 2026 7:07:08 PM

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m ²	1.5	0.8883 / 0.8883	0.79 kPa / 0.79 kPa	1.06 kPa / 0.79 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m ²	1.5	-0.8775 / -0.8775	-0.78 kPa / -0.78 kPa	-0.51 kPa / -0.78 kPa
	0.00 m to 2.70 m	SA2	7.29 m ²	2.0	-1.17 / -1.17	-1.04 kPa / -1.04 kPa	-0.77 kPa / -1.04 kPa

LIMIT STATE 02: Serviceability @ z = 6.80 m

WINDWARD BUILDING FACE: EAST NORTH EAST (θ = 67.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	1.0	0.7	0.51 kPa / 0.51 kPa	0.75 kPa / 0.51 kPa
Leeward	40.00 m	1.0	-0.4037	-0.30 kPa / -0.30 kPa	-0.06 kPa / -0.30 kPa
Side	0.00 m to 6.80 m	0.88 (A = 40.00 m ²)	-0.65	-0.42 kPa / -0.42 kPa	-0.18 kPa / -0.42 kPa
	6.80 m to 13.60 m	0.88 (A = 40.00 m ²)	-0.5	-0.33 kPa / -0.33 kPa	-0.09 kPa / -0.33 kPa
	13.60 m to 20.40 m	0.88 (A = 40.00 m ²)	-0.3	-0.20 kPa / -0.20 kPa	0.04 kPa / -0.20 kPa
	20.40 m to 40.00 m	0.88 (A = 40.00 m ²)	-0.2	-0.13 kPa / -0.13 kPa	0.11 kPa / -0.13 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m ²	1.5	0.945 / 0.945	0.77 kPa / 0.77 kPa	1.01 kPa / 0.77 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m ²	1.5	-0.7722 / -0.7722	-0.63 kPa / -0.63 kPa	-0.39 kPa / -0.63 kPa
	0.00 m to 2.70 m	SA2	7.29 m ²	2.0	-1.0296 / -1.0296	-0.84 kPa / -0.84 kPa	-0.60 kPa / -0.84 kPa

WINDWARD BUILDING FACE: SOUTH SOUTH EAST (θ = 157.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	0.94 (A = 40.00 m ²)	0.7	0.53 kPa / 0.53 kPa	0.62 kPa / 0.35 kPa
Leeward	27.00 m	0.99 (A = 40.00 m ²)	-0.3	-0.24 kPa / -0.24 kPa	-0.15 kPa / -0.42 kPa
Side	0.00 m to 6.80 m	1.0	-0.65	-0.53 kPa / -0.53 kPa	-0.44 kPa / -0.71 kPa
	6.80 m to 13.60 m	1.0	-0.5	-0.40 kPa / -0.40 kPa	-0.31 kPa / -0.58 kPa
	13.60 m to 20.40 m	1.0	-0.3	-0.24 kPa / -0.24 kPa	-0.15 kPa / -0.42 kPa
	20.40 m to 27.00 m	1.0	-0.2	-0.16 kPa / -0.16 kPa	-0.07 kPa / -0.34 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m ²	1.5	0.8883 / 0.8883	0.80 kPa / 0.80 kPa	0.89 kPa / 0.62 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m ²	1.5	-0.8775 / -0.8775	-0.79 kPa / -0.79 kPa	-0.70 kPa / -0.97 kPa
	0.00 m to 2.70 m	SA2	7.29 m ²	2.0	-1.17 / -1.17	-1.05 kPa / -1.05 kPa	-0.96 kPa / -1.23 kPa

WINDWARD BUILDING FACE: WEST SOUTH WEST (θ = 247.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	1.0	0.7	0.51 kPa / 0.51 kPa	0.75 kPa / 0.51 kPa
Leeward	40.00 m	1.0	-0.4037	-0.30 kPa / -0.30 kPa	-0.06 kPa / -0.30 kPa
Side	0.00 m to 6.80 m	0.88 (A = 40.00 m ²)	-0.65	-0.42 kPa / -0.42 kPa	-0.18 kPa / -0.42 kPa
	6.80 m to 13.60 m	0.88 (A = 40.00 m ²)	-0.5	-0.33 kPa / -0.33 kPa	-0.09 kPa / -0.33 kPa
	13.60 m to 20.40 m	0.88 (A = 40.00 m ²)	-0.3	-0.20 kPa / -0.20 kPa	0.04 kPa / -0.20 kPa
	20.40 m to 40.00 m	0.88 (A = 40.00 m ²)	-0.2	-0.13 kPa / -0.13 kPa	0.11 kPa / -0.13 kPa

LOCAL

SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
Windward	All	WA1	7.29 m ²	1.5	0.945 / 0.945	0.77 kPa / 0.77 kPa	1.01 kPa / 0.77 kPa
Side	0.00 m to 5.40 m	SA1	29.16 m ²	1.5	-0.7722 / -0.7722	-0.63 kPa / -0.63 kPa	-0.39 kPa / -0.63 kPa
	0.00 m to 2.70 m	SA2	7.29 m ²	2.0	-1.0296 / -1.0296	-0.84 kPa / -0.84 kPa	-0.60 kPa / -0.84 kPa

WINDWARD BUILDING FACE: NORTH NORTH WEST (θ = 337.5°)

EXTERNAL

SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
Windward	All	0.94 (A = 40.00 m ²)	0.7	0.36 kPa / 0.36 kPa	0.54 kPa / 0.36 kPa
Leeward	27.00 m	0.99 (A = 40.00 m ²)	-0.3	-0.16 kPa / -0.16 kPa	0.02 kPa / -0.16 kPa
Side	0.00 m to 6.80 m	1.0	-0.65	-0.35 kPa / -0.35 kPa	-0.17 kPa / -0.35 kPa
	6.80 m to 13.60 m	1.0	-0.5	-0.27 kPa / -0.27 kPa	-0.09 kPa / -0.27 kPa

	13.60 m to 20.40 m	1.0		-0.3	-0.16 kPa / -0.16 kPa	0.02 kPa / -0.16 kPa
	20.40 m to 27.00 m	1.0		-0.2	-0.11 kPa / -0.11 kPa	0.07 kPa / -0.11 kPa
LOCAL						
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,epepnet
	Windward	All	WA1	7.29 m²	1.5	0.8883 / 0.88830.53 kPa / 0.53 kPa0.71 kPa / 0.53 kPa
	Side	0.00 m to 5.40 m	SA1	29.16 m²	1.5	-0.8775 / -0.8775-0.53 kPa / -0.53 kPa-0.35 kPa / -0.53 kPa
		0.00 m to 2.70 m	SA2	7.29 m²	2.0	-1.17 / -1.17-0.70 kPa / -0.70 kPa-0.52 kPa / -0.70 kPa
----- ROOF PRESSURES -----						
LIMIT STATE 01: Ultimate @ z = 6.80 m						
WINDWARD BUILDING FACE: EAST NORTH EAST (θ = 67.5°)						
EXTERNAL						
	SURFACE	DISTANCE FROM EDGE			Ka	Cp,epepnet
	Crosswind Slope (Table A.1)	0.00 m to 6.80 m			0.8 (A = 135.00 m²)	-1.0-0.96 kPa / -0.96 kPa-0.60 kPa / -0.96 kPa
						-0.5-0.48 kPa / -0.48 kPa-0.12 kPa / -0.48 kPa
		6.80 m to 13.60 m			0.8 (A = 135.00 m²)	-0.5-0.48 kPa / -0.48 kPa-0.12 kPa / -0.48 kPa
						0.00.36 kPa / 0.00 kPa0.00 kPa / 0.00 kPa
		13.60 m to 20.40 m			0.8 (A = 135.00 m²)	-0.3-0.29 kPa / -0.29 kPa0.07 kPa / -0.29 kPa
						0.10.10 kPa / 0.10 kPa0.46 kPa / 0.10 kPa
		20.40 m to 40.00 m			0.8 (A = 135.00 m²)	-0.2-0.19 kPa / -0.19 kPa0.17 kPa / -0.19 kPa
						0.20.19 kPa / 0.19 kPa0.55 kPa / 0.19 kPa
LOCAL						
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,epepnet
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m²	3.0	-2.16 / -2.16-2.60 kPa / -2.60 kPa-2.24 kPa / -2.60
kPa						-1.08 / -1.08-1.30 kPa / -1.30 kPa-0.94 kPa / -0.94
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m²	1.5	-1.08 / -1.08-1.30 kPa / -1.30 kPa-0.94 kPa / -1.30
kPa						-0.54 / -0.54-0.65 kPa / -0.65 kPa-0.29 kPa / -0.29
kPa		0.00 m to 2.70 m	RA2	7.29 m²	2.0	-1.44 / -1.44-1.74 kPa / -1.74 kPa-1.38 kPa / -1.74
kPa						-0.72 / -0.72-0.87 kPa / -0.87 kPa-0.51 kPa / -0.51
WINDWARD BUILDING FACE: SOUTH SOUTH EAST (θ = 157.5°)						
EXTERNAL						
	SURFACE	DISTANCE FROM EDGE			Ka	Cp,epepnet
	All Slopes (Table A.1)	0.00 m to 2.73 m			0.8 (A = 135.00 m²)	-0.8784-0.93 kPa / -0.93 kPa-0.80 kPa / -1.20 kPa
						-0.4122-0.44 kPa / -0.44 kPa-0.31 kPa / -0.71 kPa
		2.73 m to 9.00 m			0.8 (A = 135.00 m²)	-0.5562-0.59 kPa / -0.59 kPa-0.46 kPa / -0.86 kPa
		9.00 m to 11.73 m			0.8 (A = 135.00 m²)	-0.8784-0.93 kPa / -0.93 kPa-0.80 kPa / -1.20 kPa
						-0.4122-0.44 kPa / -0.44 kPa-0.31 kPa / -0.71 kPa
		11.73 m to 27.00 m			0.8 (A = 135.00 m²)	-0.5-0.53 kPa / -0.53 kPa-0.40 kPa / -0.80 kPa
						0.30.32 kPa / 0.32 kPa0.45 kPa / 0.05 kPa
LOCAL						
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,epepnet
kPa	Downwind Corners	0.00 m to 5.40 m	RC2	7.29 m²	3.0	-1.2014 / -1.2014-1.60 kPa / -1.60 kPa-1.47 kPa / -1.87
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m²	1.5	-0.9487 / -0.9487-1.26 kPa / -1.26 kPa-1.13 kPa / -1.53
kPa						-0.4452 / -0.4452-0.59 kPa / -0.59 kPa-0.46 kPa / -0.46
kPa		0.00 m to 2.70 m	RA2	7.29 m²	2.0	-1.2649 / -1.2649-1.68 kPa / -1.68 kPa-1.55 kPa / -1.95
kPa						-0.5936 / -0.5936-0.79 kPa / -0.79 kPa-0.66 kPa / -0.66
kPa	Downwind Hips & Ridges	0.00 m to 5.40 m	RA3	29.16 m²	1.5	-0.6007 / -0.6007-0.80 kPa / -0.80 kPa-0.67 kPa / -1.07
kPa		0.00 m to 2.70 m	RA4	7.29 m²	2.0	-0.8009 / -0.8009-1.06 kPa / -1.06 kPa-0.93 kPa / -1.33
WINDWARD BUILDING FACE: WEST SOUTH WEST (θ = 247.5°)						
EXTERNAL						
	SURFACE	DISTANCE FROM EDGE			Ka	Cp,epepnet
	Crosswind Slope (Table A.1)	0.00 m to 6.80 m			0.8 (A = 135.00 m²)	-1.0-0.96 kPa / -0.96 kPa-0.60 kPa / -0.96 kPa
						-0.5-0.48 kPa / -0.48 kPa-0.12 kPa / -0.48 kPa
		6.80 m to 13.60 m			0.8 (A = 135.00 m²)	-0.5-0.48 kPa / -0.48 kPa-0.12 kPa / -0.48 kPa
						0.00.36 kPa / 0.00 kPa0.36 kPa / 0.00 kPa
		13.60 m to 20.40 m			0.8 (A = 135.00 m²)	-0.3-0.29 kPa / -0.29 kPa0.07 kPa / -0.29 kPa
						0.10.10 kPa / 0.10 kPa0.46 kPa / 0.10 kPa

		20.40 m to 40.00 m	0.8 (A = 135.00 m²)		-0.2 0.2	-0.19 kPa / -0.19 kPa 0.19 kPa / 0.19 kPa	0.17 kPa / -0.19 kPa 0.55 kPa / 0.19 kPa		
LOCAL									
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet	
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m²	3.0	-2.16 / -2.16	-2.60 kPa / -2.60 kPa	-2.24 kPa / -2.60	
kPa						-1.08 / -1.08	-1.30 kPa / -1.30 kPa	-0.94 kPa / -0.94	
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m²	1.5	-1.08 / -1.08	-1.30 kPa / -1.30 kPa	-0.94 kPa / -1.30	
kPa						-0.54 / -0.54	-0.65 kPa / -0.65 kPa	-0.29 kPa / -0.29	
kPa		0.00 m to 2.70 m	RA2	7.29 m²	2.0	-1.44 / -1.44	-1.74 kPa / -1.74 kPa	-1.38 kPa / -1.74	
kPa						-0.72 / -0.72	-0.87 kPa / -0.87 kPa	-0.51 kPa / -0.51	
WINDWARD BUILDING FACE: NORTH NORTH WEST (θ = 337.5°)									
EXTERNAL									
	SURFACE	DISTANCE FROM EDGE	Ka		Cp,e	pe	pnet		
	All Slopes (Table A.1)	0.00 m to 6.27 m	0.8 (A = 135.00 m²)		-0.8784 -0.4122	-0.62 kPa / -0.62 kPa -0.29 kPa / -0.29 kPa	-0.35 kPa / -0.62 kPa -0.02 kPa / -0.29 kPa		
		6.27 m to 9.00 m	0.8 (A = 135.00 m²)		-0.5562	-0.40 kPa / -0.40 kPa	-0.13 kPa / -0.40 kPa		
		9.00 m to 15.27 m	0.8 (A = 135.00 m²)		-0.8784 -0.4122	-0.62 kPa / -0.62 kPa -0.29 kPa / -0.29 kPa	-0.35 kPa / -0.62 kPa -0.02 kPa / -0.29 kPa		
		15.27 m to 27.00 m	0.8 (A = 135.00 m²)		-0.5 0.3	-0.36 kPa / -0.36 kPa 0.21 kPa / 0.21 kPa	-0.09 kPa / -0.36 kPa 0.48 kPa / 0.21 kPa		
LOCAL									
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet	
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m²	2.2413 (hp = 800 mm)	-1.4175 / -1.4175	-1.26 kPa / -1.26 kPa	-0.99 kPa / -1.26	
kPa						-0.6652 / -0.6652	-0.59 kPa / -0.59 kPa	-0.32 kPa / -0.32	
kPa	Downwind Corners	0.00 m to 5.40 m	RC2	7.29 m²	3.0	-1.2014 / -1.2014	-1.07 kPa / -1.07 kPa	-0.80 kPa / -1.07	
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m²	1.1207 (hp = 800 mm)	-0.7088 / -0.7088	-0.63 kPa / -0.63 kPa	-0.36 kPa / -0.63	
kPa						-0.3326 / -0.3326	-0.30 kPa / -0.30 kPa	-0.03 kPa / -0.03	
kPa		0.00 m to 2.70 m	RA2	7.29 m²	1.4942 (hp = 800 mm)	-0.945 / -0.945	-0.84 kPa / -0.84 kPa	-0.57 kPa / -0.84	
kPa						-0.4435 / -0.4435	-0.39 kPa / -0.39 kPa	-0.12 kPa / -0.12	
kPa	Downwind Hips & Ridges	0.00 m to 5.40 m	RA3	29.16 m²	1.5	-0.6007 / -0.6007	-0.53 kPa / -0.53 kPa	-0.26 kPa / -0.53	
kPa		0.00 m to 2.70 m	RA4	7.29 m²	2.0	-0.8009 / -0.8009	-0.71 kPa / -0.71 kPa	-0.44 kPa / -0.71	
LIMIT STATE 02: Serviceability @ z = 6.80 m									
WINDWARD BUILDING FACE: EAST NORTH EAST (θ = 67.5°)									
EXTERNAL									
	SURFACE	DISTANCE FROM EDGE	Ka		Cp,e	pe	pnet		
	Crosswind Slope (Table A.1)	0.00 m to 6.80 m	0.8 (A = 135.00 m²)		-1.0 -0.5	-0.65 kPa / -0.65 kPa -0.33 kPa / -0.33 kPa	-0.41 kPa / -0.65 kPa -0.09 kPa / -0.33 kPa		
		6.80 m to 13.60 m	0.8 (A = 135.00 m²)		-0.5 0.0	-0.33 kPa / -0.33 kPa 0.00 kPa / 0.00 kPa	-0.09 kPa / -0.33 kPa 0.24 kPa / 0.00 kPa		
		13.60 m to 20.40 m	0.8 (A = 135.00 m²)		-0.3 0.1	-0.20 kPa / -0.20 kPa 0.07 kPa / 0.07 kPa	0.04 kPa / -0.20 kPa 0.31 kPa / 0.07 kPa		
		20.40 m to 40.00 m	0.8 (A = 135.00 m²)		-0.2 0.2	-0.13 kPa / -0.13 kPa 0.13 kPa / 0.13 kPa	0.11 kPa / -0.13 kPa 0.37 kPa / 0.13 kPa		
LOCAL									
	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet	
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m²	3.0	-2.16 / -2.16	-1.76 kPa / -1.76 kPa	-1.52 kPa / -1.76	
kPa						-1.08 / -1.08	-0.88 kPa / -0.88 kPa	-0.64 kPa / -0.64	
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m²	1.5	-1.08 / -1.08	-0.88 kPa / -0.88 kPa	-0.64 kPa / -0.88	
kPa						-0.54 / -0.54	-0.44 kPa / -0.44 kPa	-0.20 kPa / -0.20	
kPa		0.00 m to 2.70 m	RA2	7.29 m²	2.0	-1.44 / -1.44	-1.17 kPa / -1.17 kPa	-0.93 kPa / -1.17	
kPa						-0.72 / -0.72	-0.59 kPa / -0.59 kPa	-0.35 kPa / -0.35	
WINDWARD BUILDING FACE: SOUTH SOUTH EAST (θ = 157.5°)									
EXTERNAL									
	SURFACE	DISTANCE FROM EDGE	Ka		Cp,e	pe	pnet		

TITLE: 27.00 m x 40.00 m x 6.80 m Multi-span Building
PROJECT: CHECKWIND Samples
CODE: R-0001

Revolutio
Chris Hackney
Tuesday, January 27, 2026 7:07:08 PM

	All Slopes (Table A.1)	0.00 m to 2.73 m	0.8 (A = 135.00 m ²)	-0.8784 -0.4122	-0.63 kPa / -0.63 kPa -0.30 kPa / -0.30 kPa	-0.54 kPa / -0.81 kPa -0.21 kPa / -0.48 kPa
		2.73 m to 9.00 m	0.8 (A = 135.00 m ²)	-0.5562	-0.40 kPa / -0.40 kPa	-0.31 kPa / -0.58 kPa
		9.00 m to 11.73 m	0.8 (A = 135.00 m ²)	-0.8784 -0.4122	-0.63 kPa / -0.63 kPa -0.30 kPa / -0.30 kPa	-0.54 kPa / -0.81 kPa -0.21 kPa / -0.48 kPa
		11.73 m to 27.00 m	0.8 (A = 135.00 m ²)	-0.5 0.3	-0.36 kPa / -0.36 kPa 0.22 kPa / 0.22 kPa	-0.27 kPa / -0.54 kPa 0.31 kPa / 0.04 kPa

LOCAL

	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
kPa	Downwind Corners	0.00 m to 5.40 m	RC2	7.29 m ²	3.0	-1.2014 / -1.2014	-1.08 kPa / -1.08 kPa	-0.99 kPa / -1.26
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m ²	1.5	-0.9487 / -0.9487	-0.85 kPa / -0.85 kPa	-0.76 kPa / -1.03
kPa						-0.4452 / -0.4452	-0.40 kPa / -0.40 kPa	-0.31 kPa / -0.31
kPa		0.00 m to 2.70 m	RA2	7.29 m ²	2.0	-1.2649 / -1.2649	-1.14 kPa / -1.14 kPa	-1.05 kPa / -1.32
kPa						-0.5936 / -0.5936	-0.53 kPa / -0.53 kPa	-0.44 kPa / -0.44
kPa	Downwind Hips & Ridges	0.00 m to 5.40 m	RA3	29.16 m ²	1.5	-0.6007 / -0.6007	-0.54 kPa / -0.54 kPa	-0.45 kPa / -0.72
kPa						-0.8009 / -0.8009	-0.72 kPa / -0.72 kPa	-0.63 kPa / -0.90

WINDWARD BUILDING FACE: WEST SOUTH WEST (θ = 247.5°)

EXTERNAL

	SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
	Crosswind Slope (Table A.1)	0.00 m to 6.80 m	0.8 (A = 135.00 m ²)	-1.0 -0.5	-0.65 kPa / -0.65 kPa -0.33 kPa / -0.33 kPa	-0.41 kPa / -0.65 kPa -0.09 kPa / -0.33 kPa
		6.80 m to 13.60 m	0.8 (A = 135.00 m ²)	-0.5 0.0	-0.33 kPa / -0.33 kPa 0.00 kPa / 0.00 kPa	-0.09 kPa / -0.33 kPa 0.24 kPa / 0.00 kPa
		13.60 m to 20.40 m	0.8 (A = 135.00 m ²)	-0.3 0.1	-0.20 kPa / -0.20 kPa 0.07 kPa / 0.07 kPa	0.04 kPa / -0.20 kPa 0.31 kPa / 0.07 kPa
		20.40 m to 40.00 m	0.8 (A = 135.00 m ²)	-0.2 0.2	-0.13 kPa / -0.13 kPa 0.13 kPa / 0.13 kPa	0.11 kPa / -0.13 kPa 0.37 kPa / 0.13 kPa

LOCAL

	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m ²	3.0	-2.16 / -2.16	-1.76 kPa / -1.76 kPa	-1.52 kPa / -1.76
kPa						-1.08 / -1.08	-0.88 kPa / -0.88 kPa	-0.64 kPa / -0.64
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m ²	1.5	-1.08 / -1.08	-0.88 kPa / -0.88 kPa	-0.64 kPa / -0.88
kPa						-0.54 / -0.54	-0.44 kPa / -0.44 kPa	-0.20 kPa / -0.20
kPa		0.00 m to 2.70 m	RA2	7.29 m ²	2.0	-1.44 / -1.44	-1.17 kPa / -1.17 kPa	-0.93 kPa / -1.17
kPa						-0.72 / -0.72	-0.59 kPa / -0.59 kPa	-0.35 kPa / -0.35

WINDWARD BUILDING FACE: NORTH NORTH WEST (θ = 337.5°)

EXTERNAL

	SURFACE	DISTANCE FROM EDGE	Ka	Cp,e	pe	pnet
	All Slopes (Table A.1)	0.00 m to 6.27 m	0.8 (A = 135.00 m ²)	-0.8784 -0.4122	-0.42 kPa / -0.42 kPa -0.20 kPa / -0.20 kPa	-0.24 kPa / -0.42 kPa -0.02 kPa / -0.20 kPa
		6.27 m to 9.00 m	0.8 (A = 135.00 m ²)	-0.5562	-0.27 kPa / -0.27 kPa	-0.09 kPa / -0.27 kPa
		9.00 m to 15.27 m	0.8 (A = 135.00 m ²)	-0.8784 -0.4122	-0.42 kPa / -0.42 kPa -0.20 kPa / -0.20 kPa	-0.24 kPa / -0.42 kPa -0.02 kPa / -0.20 kPa
		15.27 m to 27.00 m	0.8 (A = 135.00 m ²)	-0.5 0.3	-0.24 kPa / -0.24 kPa 0.14 kPa / 0.14 kPa	-0.06 kPa / -0.24 kPa 0.32 kPa / 0.14 kPa

LOCAL

	SURFACE	DISTANCE FROM EDGE	REF	AREA	K1	Cshp,e	pe	pnet
kPa	Upwind Corners	0.00 m to 5.40 m	RC1	7.29 m ²	2.2413 (hp = 800 mm)	-1.4175 / -1.4175	-0.85 kPa / -0.85 kPa	-0.67 kPa / -0.85
kPa						-0.6652 / -0.6652	-0.40 kPa / -0.40 kPa	-0.22 kPa / -0.22
kPa	Downwind Corners	0.00 m to 5.40 m	RC2	7.29 m ²	3.0	-1.2014 / -1.2014	-0.72 kPa / -0.72 kPa	-0.54 kPa / -0.72
kPa	Upwind Edges	0.00 m to 5.40 m	RA1	29.16 m ²	1.1207 (hp = 800 mm)	-0.7088 / -0.7088	-0.43 kPa / -0.43 kPa	-0.25 kPa / -0.43
kPa						-0.3326 / -0.3326	-0.20 kPa / -0.20 kPa	-0.02 kPa / -0.02
kPa		0.00 m to 2.70 m	RA2	7.29 m ²	1.4942 (hp = 800 mm)	-0.945 / -0.945	-0.57 kPa / -0.57 kPa	-0.39 kPa / -0.57
kPa						-0.4435 / -0.4435	-0.27 kPa / -0.27 kPa	-0.09 kPa / -0.09
kPa	Downwind Hips & Ridges	0.00 m to 5.40 m	RA3	29.16 m ²	1.5	-0.6007 / -0.6007	-0.36 kPa / -0.36 kPa	-0.18 kPa / -0.36

kPa	0.00 m to 2.70 m	RA4	7.29 m²	2.0	-0.8009 / -0.8009	-0.48 kPa / -0.48 kPa	-0.30 kPa / -0.48
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