



43 & 63-67 RIVER STREET DEVELOPMENT, RICHMOND

ENVIRONMENTAL WIND CONDITIONS STUDY



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ENGINEERING CONSULTANCY
SPECIALISING IN DETERMINING
WIND EFFECTS ON BUILDINGS,
STRUCTURES AND THE ENVIRONMENT

5 May 2026

Prepared for:
CBUS Property

Report: 25120A-WT-ENV01

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SUMMARY

A wind tunnel study has been conducted to quantify the pedestrian wind safety and comfort conditions for the proposed 43 and 63-67 River Street development in Richmond. The wind tunnel study was completed in MEL Consultants boundary layer wind tunnel facility for 360 degrees of wind direction at 22.5-degree increments. The testing was performed using a 1/400 scale model of the proposed development based on architectural drawings from SJB Architects received on the 7th April, 2026. The model was inserted into a proximity model that included topography, existing and under construction buildings out to a minimum radius of 300m.

The model of the development within surrounding buildings, was tested in a simulated upstream boundary layer of the natural wind to determine likely environmental wind conditions. Mean and peak wind speeds were measured at locations within and around the development using hot-wire anemometers. The wind speed ratios determined from the wind tunnel measurements were combined with local wind climate data for the site to determine equivalent full-scale wind conditions around the proposed development. These full-scale wind conditions were compared against the City of Yarra Planning Scheme Clause 58.04-4 (Standard D17) wind safety and comfort criteria. These criteria are based on the 3 second gust wind speed for pedestrian safety and the Gust Equivalent Mean (GEM) wind speed for pedestrian comfort. The wind conditions for the Existing Configuration were also quantified to allow that assessment of the wind impacts of the proposed development. The study did not include the effects any landscaping or street trees.

The findings of this study are as follows:

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For the ground level

- For the Proposed Configuration, wind conditions at the pedestrian areas within the development and the surrounding streetscapes satisfy the safety and walking comfort criteria at a minimum.
- For the Proposed Configuration, the wind conditions in public outdoor amenities satisfy the safety and the recommended standing comfort criteria or better.
- Exceedances of wind safety criterion on the ground level private terrace on the northwest building corner have been rectified with the addition of a 1.8m high north-south screen/gate at the northwest building corner (see Figure 6a), resulting in safe and sitting comfort wind conditions.
- The wind conditions at the building entries satisfy the safety and the target standing comfort criterion at a minimum.

For the upper levels

- Exceedances of wind comfort criterion on Building B level 3 northwest terrace and exceedances of wind safety criterion on Building A level 4 north terraces, level 7 southwest terrace, and Level 9 terrace near the north building corners have been rectified with the addition of 1.2m high solid balustrade (or equivalently a porous balustrade with solid planter behind), resulting in safe and walking comfort wind conditions or better (see Figures 6b-6d).
- The wind conditions at all upper level terraces were tested with 1.2m high solid balustrade (or equivalently a porous balustrade with solid planter behind) and were shown to satisfy the safety and walking comfort criteria at a minimum (see Figures 6b-6d).



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**43 AND 63-67 RIVER STREET, RICHMOND
ENVIRONMENTAL WIND TUNNEL MODELLING**

MEL CONSULTANTS REPORT NO:

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1. INTRODUCTION

The proposed 43 and 63-67 River Street development site in Richmond is bounded by North Street to the north, Main Yarra Trail to the east, and River Street to the west, as shown in Figure 1. The development will consist of 2-level buildings along the site's east, 12-level Building A on the site's north, and 9-level Building B on the site's south.

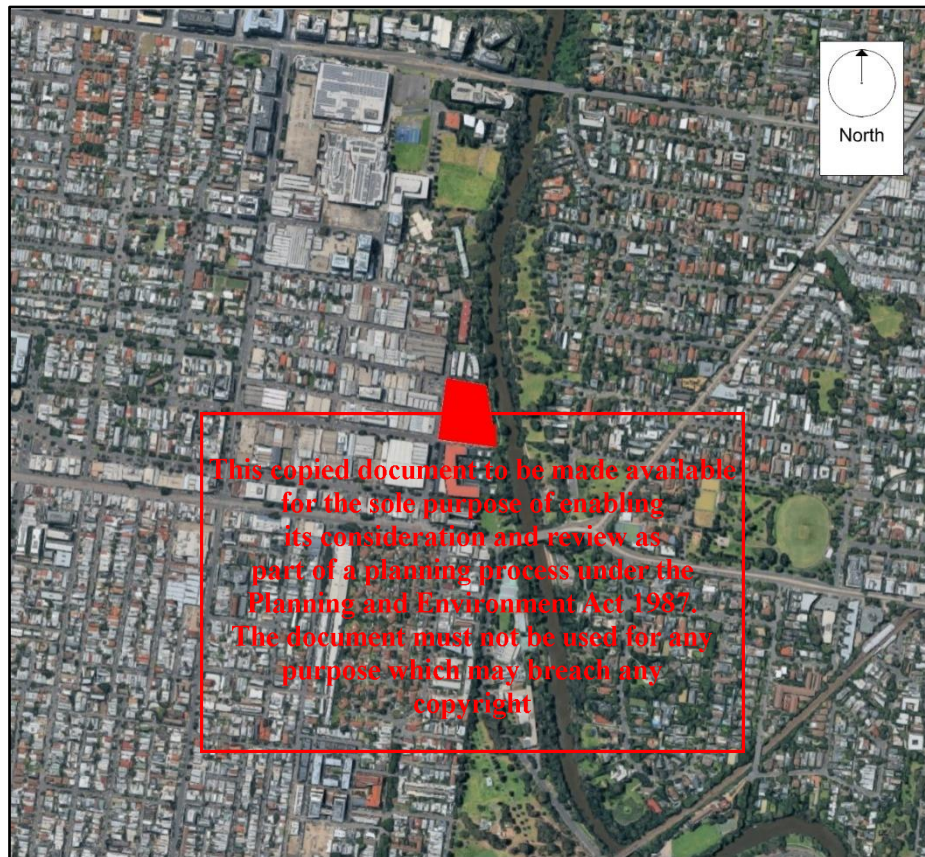


Figure 1 - Satellite imagery showing the proposed 43 and 63-67 River Street development site (highlighted red).

A wind tunnel study was commissioned by CBUS Property to examine the wind conditions for the proposed development and, if necessary, to develop wind mitigation strategies. This report details the environmental wind assessment of the 1/400 scale model of the proposed development within a proximity model of surrounding buildings out to a minimum radius of 300m. These tests were carried out in the MEL Consultants 400kW Boundary Layer Wind Tunnel during October 2025 and April 2026.

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2. WIND TUNNEL MODEL

A 1/400 scale model of 43 and 63-67 River Street development was constructed from architectural drawings by SJB Architects received on the 7th April, 2026. The model of the 43 and 63-67 River Street development was inserted into a proximity model of topography and existing and future (under construction) surrounding buildings out to a minimum radius of 300m. No existing or proposed landscape trees were included within the model. Photographs of wind tunnel model inserted into the proximity model are presented in Figures 2a - 2d.



Figure 2a - Close-up view from the northeast of the 1/400 scale model of the proposed 43 and 63-67 River Street development in the wind tunnel.

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Figure 2b - View from the north of the 1/400 scale model of the proposed 43 and 63-67 River Street development in the wind tunnel.

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Figure 2c - View from the southeast of the 1/400 scale model of the proposed 43 and 63-67 River Street development in the wind tunnel.



Figure 2d - Close-up view from the southwest of the 1/400 scale model of the proposed 43 and 63-67 River Street development in the wind tunnel.

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3. ENVIRONMENTAL WIND CRITERIA

The advancement of wind tunnel testing techniques, using large boundary layer flows to simulate the natural wind, has facilitated the prediction of wind speeds likely to be induced around a development. To assess whether the predicted wind conditions are likely to be acceptable or not, the City of Yarra Planning Scheme Clause 58.04-4 (Standard D17) wind safety and comfort criteria will be used. The criteria are as follows:

Unsafe wind conditions means the annual maximum 3 second gust wind speed which exceeds 20 metres/second with the probability of exceedance of 0.1% from any wind direction considering at least 16 wind directions with the corresponding probability of exceedance percentage.

Comfortable wind conditions means hourly mean wind speed or gust equivalent mean speed from all wind directions combined with probability of exceedance less than 20% of the time, equal to or less than:

- 3 metres/second for sitting areas
- 4 metres/second for standing areas
- 5 metres/second for walking areas

Mean wind speed means the maximum of:

- Hourly mean wind speed, or
- Gust equivalent mean wind speed (3 second gust wind speed divided by 1.85)

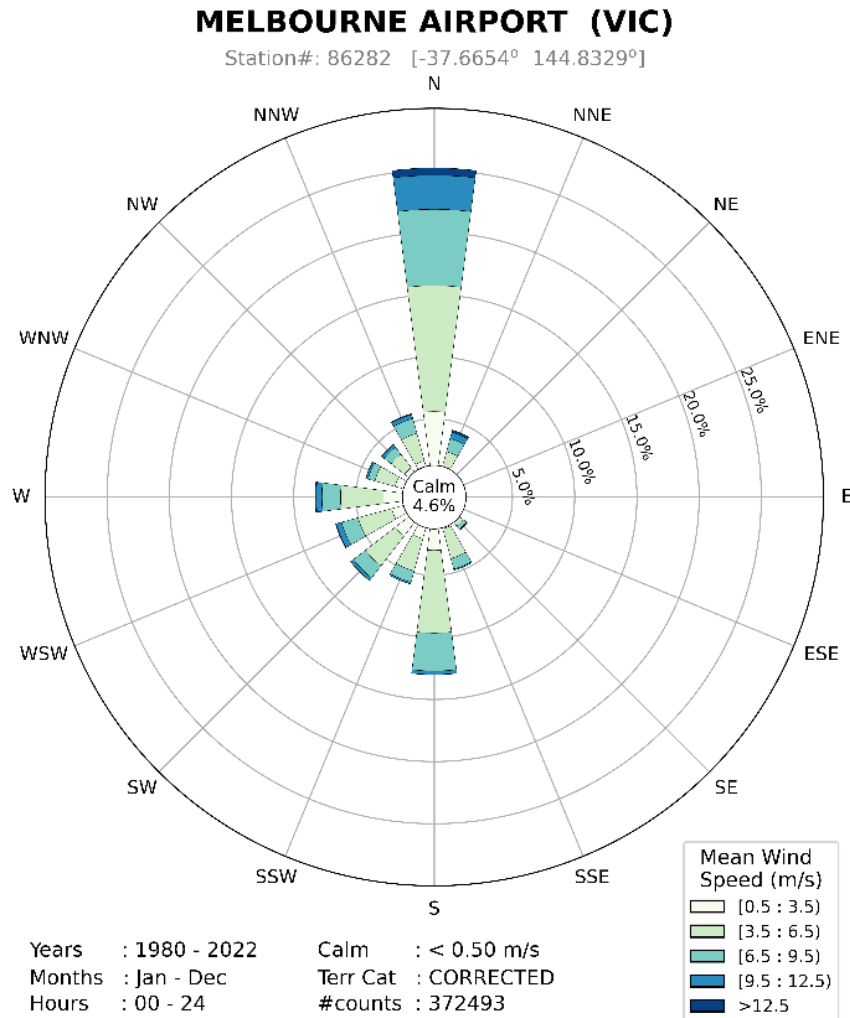
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The above comfort criteria are pass/fail criteria which assess the integrated probability of all wind directions to determine whether a location passes or fails the threshold criterion. The safety criterion is a pass/fail criterion based upon exceedance of the wind speed for any one wind direction.

The wind condition must be assessed within a distance of half the greatest length of the building, or half the total height of the building, whichever is greater.

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The criteria use the definition of mean wind speed as based on the hourly wind speed so the probabilities will be determined from the hourly wind data for an applicable automatic weather station for the Melbourne Airport. The probability data used have been corrected for the approach terrain at the location of the automatic weather station and referenced to 10m in Terrain Category 2. This is the standard reference height of AS/NZS1170.2:2021. The wind climate rose for Melbourne Airport is shown below.



Wind Rose for Melbourne Airport

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3.1 Recommended Comfort Criteria

The recommended comfort criteria for the proposed 43 and 63-67 River Street development are as follows:

- Pedestrian transit areas Walking Criterion
- Building entrances Standing Criterion
- Common outdoor amenities Walking Criterion
- Private terraces Walking Criterion[†]

[†]The wind conditions at outdoor terraces have been suggested to satisfy the walking criterion as these terraces could be considered elective when external conditions would be perceived as acceptable for the desired activity. Users of these terraces will need to be educated on the wind effects and loose objects should not be left unattended in outdoor areas.

The activation of the public realm external to the site would depend on the existing wind conditions in the streetscapes that are often beyond the control of the proposed development. For cases where the existing wind conditions in the public realm external to the site are on the walking criterion, then the proposed Development should not have any adverse wind effects in these areas.

All areas of the development must satisfy the pedestrian wind safety criterion.

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4. EXPERIMENTAL TECHNIQUE

The building model was tested in a model of the natural wind generated by flow over roughness elements augmented by vorticity generators at the beginning of the wind tunnel working section. The approach Terrain Categories have been assessed based on the definitions in AS/NZS1170.2:2021 and has been determined as Terrain Category 3 (suburban terrain) for all wind directions.

The velocity and turbulence profiles for the Terrain Categories are provided in Appendix A.

Hot-wire anemometers were used to measure the local wind speeds at locations in and around the development. The positions of the measurement locations satisfied the minimum study radius from the development as required by Clause 58.04-4. Some of the positions of the measurement locations were outside the minimum radius where significant pedestrian spaces were identified. The minimum radius examined was half the building height or width, whichever is greater, measured from the site boundaries. Since the development consists of multiple buildings, the minimum radius used by MEL Consultants is large compared to a radius for an individual development site. The Test Locations at the ground level surrounding and upper level terraces are shown in Figures 3a-3d.

The wind tunnel velocity measurements were made for an equivalent 1 hour period in full scale and filtered to determine the mean and an equivalent full scale 3 second gust wind speed for 16 wind directions.

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The following velocity ratios were measured in the wind tunnel:

$$\text{mean } \bar{V}_R = \frac{\bar{V}_{local}}{\bar{V}_{300m}}$$

$$\text{gust } \hat{V}_R = \frac{\hat{V}_{local}}{\bar{V}_{300m}}$$

where:

\bar{V}_{local} is the mean velocity

\hat{V}_{300m} is the gust velocity

V_{300m} is the velocity at the free-stream reference height of 300m

These measured velocity ratios were combined with a statistical model of the local wind climate that relates wind speed to a probability of exceedance. The model of the wind climate also includes the directional variation of wind speed (frequency). The measured wind speeds are assessed against the pedestrian safety and the pedestrian comfort criteria. The pedestrian safety criterion is applied to the annual hourly maximum wind gusts for each wind direction. The pedestrian comfort criteria are based on all wind directions combined (i.e. summation of exceedances across 360° of wind direction) and the pedestrian comfort criterion utilises the maximum of either the hourly mean wind speed, or the gust equivalent mean wind speed (GEM) as follows

$$\text{Mean wind speed for comfort criterion} = \max\left(\bar{V}, \frac{\hat{V}}{1.85}\right)$$

where:

\bar{V} is the mean wind speed

\hat{V} is the 3-second gust wind speed

$\frac{\hat{V}}{1.85}$ is the gust equivalent mean (GEM) velocity

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The three model configurations examined by this study are as follows:

Existing Configuration

- Existing surrounding proximity model
- Existing buildings occupying the development site (1-3 levels)

Proposed Configuration

- Existing surrounding proximity model
- Proposed 43 and 63-67 River Street development

Proposed Configuration with wind mitigation strategies

- Existing surrounding proximity model
- Proposed 43 and 63-67 River Street development with wind mitigation strategies to address exceedances of the target safety and comfort criteria

The wind tunnel study has been undertaken to exceed the requirements of the Australasian Wind Engineering Society Quality Assurance Manual for Wind Tunnel Studies.

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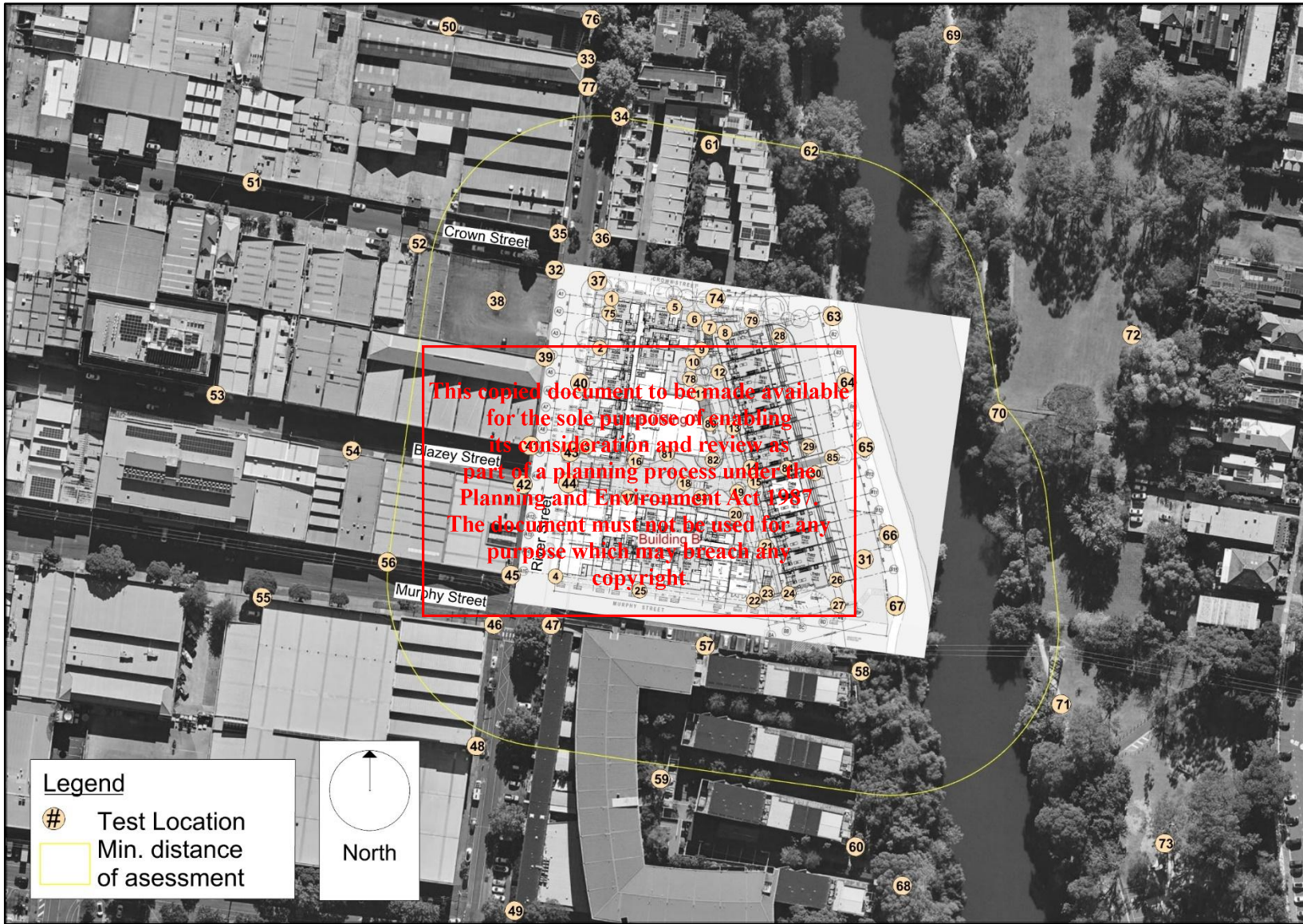


Figure 3a - Test Locations in the streetscapes surrounding the proposed 43 and 63-67 River Street development.

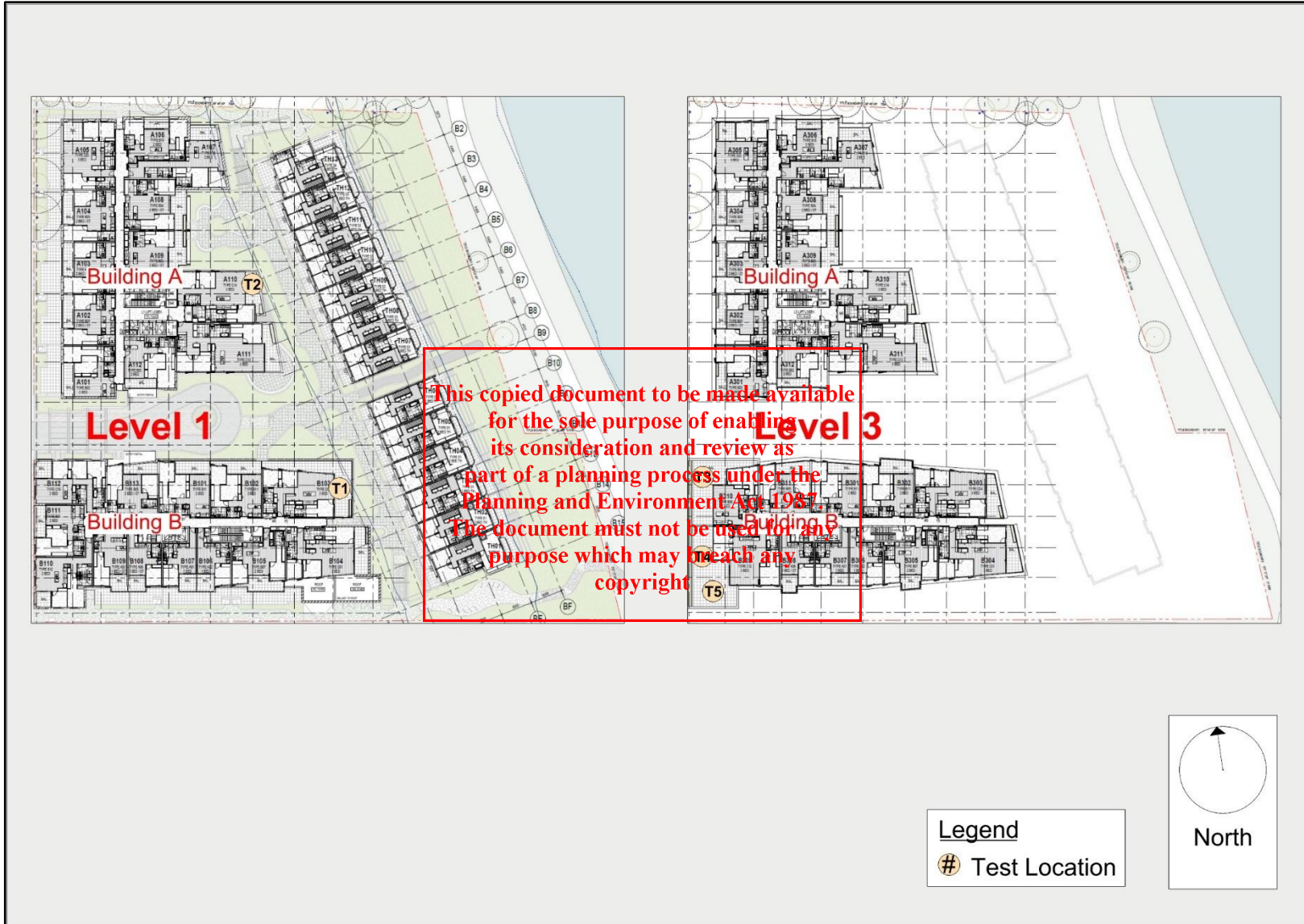


Figure 3b - Level 1 and 3 Terraces Test Locations on the proposed 43 and 63-67 River Street development.

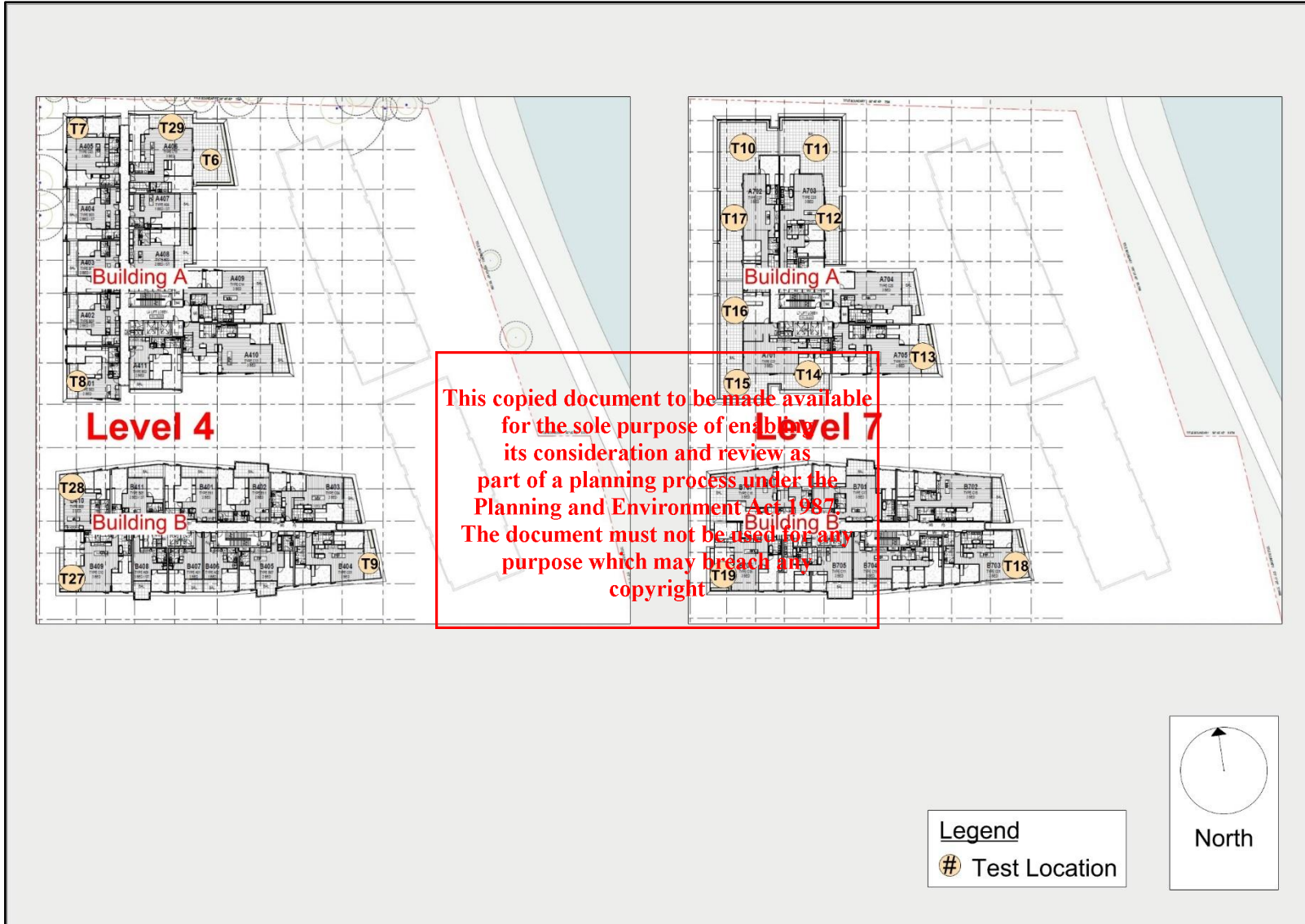


Figure 3c - Level 4 and 7 Terraces Test Locations on the proposed 43 and 63-67 River Street development.

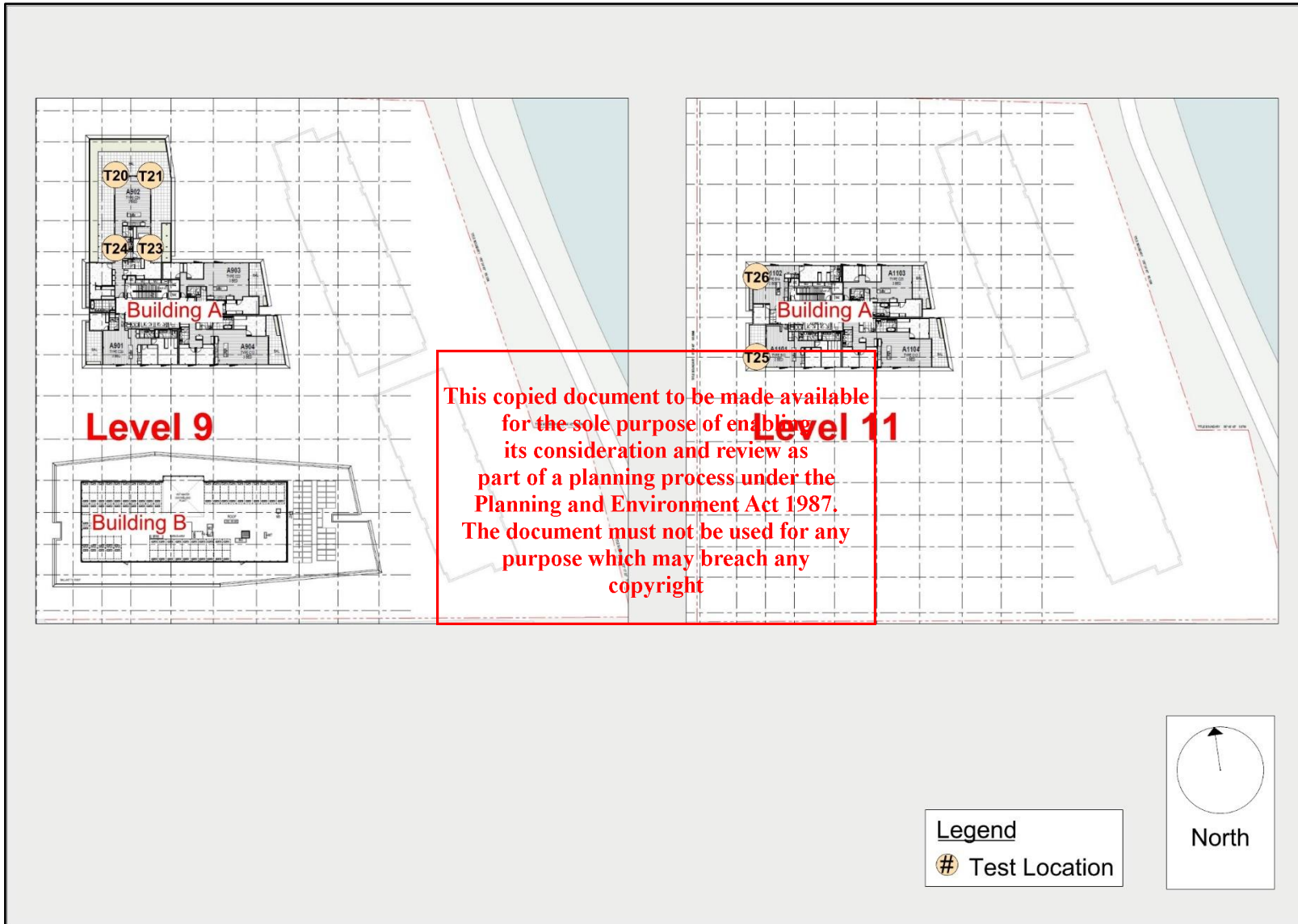


Figure 3c - Level 9 and 10 Terraces Test Locations on the proposed 43 and 63-67 River Street development.

5. DISCUSSION OF RESULTS

The assessment of the wind safety and comfort criteria are presented in Tables 1 and 2. The Tables detail the yearly exceedances and mean wind speed for wind comfort, peak wind speed for wind safety, and the result compared to the recommended wind safety and comfort criteria. The wind conditions for the Existing Configuration have been provided where applicable, for comparison purposes.

In addition to the tabular format, the assessment of the pedestrian comfort and safety are summarised in the following;

Figure 4	Existing Configuration
Figures 5a-5d	Proposed Configuration
Figures 6a-6d	Proposed Configuration with wind mitigation strategies

The figures present the pedestrian comfort criteria satisfied using colour code system, where different colours have been used to represent the wind criteria satisfied at each Test Location.

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5.1 Wind Safety Assessment

The wind conditions for the Proposed Configurations at all ground level Test Locations satisfy the safety criterion, except at the northwest corner of Building A (Test Location 1) where wind conditions exceeded the safety criterion. The wind mitigation strategies to address this exceedance will be discussed in Section 5.3.

The wind conditions for the Proposed Configuration at Building A level 4 north terraces (Test Locations T6 and T7), level 7 southwest terrace (Test Location T15), and level 9 terrace near the north building corners (Test Locations T20 and T21) exceeded the safety criterion. The wind mitigation strategies to address these exceedances will be discussed in Section 5.3.

The annual maximum 3 second gust wind speed from each of the 16 wind directions are also presented in polar plots and compared against the safety criterion in Appendix B.

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5.2 Wind Comfort Assessment

5.2.1 Surrounding Pedestrian Streetscapes

The wind conditions for the Proposed Configuration in the streetscapes surrounding the development (Test Locations 32-77) satisfied the pedestrian walking comfort criterion at a minimum, with many locations satisfying the standing or sitting comfort criteria.

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5.2.2 Within the Development

The wind conditions for the Proposed Configuration within the development (Test Locations 1-31, 75, 78-83) satisfy the walking comfort criterion at a minimum, with the majority of Test Locations achieving the Standing or Sitting comfort criteria. The exception was Test Location 1 which was discussed in Section 5.1. The wind mitigation strategies investigated will be discussed in Section 5.3.

The wind conditions at various common outdoor amenities on the ground level are discussed below:

- Resident pocket park (Test Location 79)

The wind conditions for the Proposed Configuration at the resident pocket park satisfy the standing comfort criterion.

- Health and wellness courtyard (Test Locations 9, 10, and 78)

The wind conditions for the Proposed Configuration at the health and wellness courtyard satisfy the standing comfort criterion or better.

- Outdoor lounges (Test Locations 11, 80 to 82)

The wind conditions for the Proposed Configuration at the outdoor lounges satisfy the standing comfort criterion or better.

- Fern Gully lookout platform (Test Locations 84 and 85)

The wind conditions for the Proposed Configuration at the Fern Gully lookout satisfy the walking comfort criterion or better.

- River stair connection (Test Locations 27 and 67)

The wind conditions for the Proposed Configuration at the river stair satisfy the standing comfort criterion.

5.2.4 Building Entrances

The wind conditions for the Proposed Configuration at the building entrances (Test Locations 16, 17, and 83) satisfy the sitting comfort, better than the recommended criterion.

5.2.5 Upper Level Terraces

The wind conditions for the Proposed Configuration have been shown to exceed the walking comfort criterion at Building B level 3 northwest terrace (Test Location T3) and exceed the safety criterion at Test Locations T6, T7, T15, T20, and T21), as discussed in Section 5.1. The wind mitigation strategies to address these exceedances and the wind conditions at the remainder of upper level terraces will be discussed in Section 5.3.

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Table 1: Pedestrian Wind Comfort and Safety – Ground Level

Configuration	Wind Criteria								
	Comfort				Safety				
	Yearly exceedence of given wind speed			Mean wind speed (exceeded 20% of year)	Recommended criterion	Result (compared against Recommended criterion)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)	
Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)	Pass/Fail						Pass/Fail
	%	%	%	m/s			m/s		
1	Proposed	39.6%	26.6%	18.6%	4.8	Walking	Pass	22.4	Fail
	Existing	33.0%	15.9%	7.4%	3.7	Walking	Pass	17.2	Pass
	Proposed + 1.8m high, 50% porous screen	19.2%	8.3%	2.9%	2.9	Walking	Pass	12.5	Pass
2	Proposed	6.1%	1.1%	0.1%	2.1	Walking	Pass	8.9	Pass
	Existing	27.1%	13.5%	5.9%	3.5	Walking	Pass	13.7	Pass
3	Proposed	17.7%	7.2%	2.6%	2.9	Walking	Pass	13.6	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Proposed	51.3%	32.9%	19.7%	5.0	Walking	Pass	19.4	Pass
	Existing	37.6%	20.1%	9.2%	4.0	Walking	Pass	14.5	Pass
5	Proposed	26.5%	10.2%	3.5%	3.3	Walking	Pass	12.7	Pass
	Existing	30.6%	13.5%	5.5%	3.6	Walking	Pass	15.1	Pass
6	Proposed	19.4%	10.6%	4.9%	2.9	Walking	Pass	14.3	Pass
	Existing	30.7%	13.8%	6.0%	3.5	Walking	Pass	16.3	Pass
7	Proposed	26.8%	16.9%	10.1%	3.6	Walking	Pass	17.1	Pass
	Existing	25.6%	10.7%	4.1%	3.3	Walking	Pass	14.1	Pass
8	Proposed	24.3%	12.8%	5.8%	3.3	Walking	Pass	14.0	Pass
	Existing	29.4%	14.3%	6.5%	3.6	Walking	Pass	16.4	Pass
9	Proposed	13.8%	4.9%	1.4%	2.6	Walking	Pass	11.4	Pass
	Existing	27.6%	11.9%	4.7%	3.4	Walking	Pass	15.2	Pass
10	Proposed	27.3%	15.4%	4.7%	3.2	Walking	Pass	14.3	Pass
	Existing	35.7%	19.8%	10.1%	4.0	Walking	Pass	18.0	Pass
11	Proposed	17.6%	10.6%	5.0%	2.8	Walking	Pass	15.4	Pass
	Existing	27.3%	12.9%	5.6%	3.5	Walking	Pass	14.0	Pass
12	Proposed	21.1%	13.5%	7.9%	3.1	Walking	Pass	16.5	Pass
	Existing	21.2%	11.7%	5.0%	3.1	Walking	Pass	15.0	Pass
13	Proposed	31.7%	16.0%	5.0%	3.5	Walking	Pass	16.4	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	Proposed	47.5%	29.9%	16.3%	4.5	Walking	Pass	17.8	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	Proposed	31.6%	14.1%	4.6%	3.6	Walking	Pass	12.4	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Proposed	12.2%	3.2%	0.5%	2.5	Standing	Pass	10.3	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	Proposed	2.1%	0.2%	0.0%	1.7	Standing	Pass	6.9	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Proposed	51.3%	32.9%	19.3%	4.9	Walking	Pass	19.6	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Proposed	46.4%	27.8%	14.2%	4.5	Walking	Pass	16.6	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	Proposed	27.1%	12.1%	4.8%	3.4	Walking	Pass	12.8	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21	Proposed	38.7%	21.2%	10.1%	4.1	Walking	Pass	16.1	Pass
	Existing	12.6%	3.5%	0.8%	2.6	Walking	Pass	11.0	Pass
22	Proposed	47.6%	29.5%	15.6%	4.6	Walking	Pass	18.2	Pass
	Existing	23.7%	11.7%	4.8%	3.3	Walking	Pass	13.0	Pass
23	Proposed	26.5%	15.1%	8.1%	3.5	Walking	Pass	16.7	Pass
	Existing	21.7%	9.8%	3.8%	3.1	Walking	Pass	13.4	Pass
24	Proposed	21.8%	7.4%	2.3%	3.1	Walking	Pass	12.0	Pass
	Existing	36.4%	19.7%	10.7%	4.0	Walking	Pass	16.4	Pass
25	Proposed	9.7%	3.3%	1.1%	2.3	Walking	Pass	12.3	Pass
	Existing	28.7%	15.6%	7.6%	3.6	Walking	Pass	17.1	Pass
26	Proposed	24.7%	9.7%	3.0%	3.3	Walking	Pass	13.3	Pass
	Existing	41.9%	24.2%	13.4%	4.3	Walking	Pass	17.3	Pass

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Table 1 (continued): Pedestrian Wind Comfort and Safety – Ground Level

Configuration	Wind Criteria								
	Comfort					Safety			
	Yearly exceedence of given wind speed need			Mean wind speed (exceeded 20% of year) m/s	Recommended criterion	Result (compared against Recommended criterion) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail	
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %							
27	Proposed	32.0%	17.6%	10.3%	3.8	Walking	Pass	16.0	Pass
	Existing	35.5%	20.3%	11.7%	4.0	Walking	Pass	18.1	Pass
28	Proposed	22.3%	8.6%	3.0%	3.1	Walking	Pass	12.6	Pass
	Existing	49.9%	31.2%	19.2%	4.9	Walking	Pass	19.7	Pass
29	Proposed	2.2%	0.3%	0.0%	1.9	Walking	Pass	8.1	Pass
	Existing	17.0%	10.8%	5.7%	2.7	Walking	Pass	15.8	Pass
30	Proposed	10.5%	2.5%	0.3%	2.4	Walking	Pass	9.8	Pass
	Existing	38.2%	23.4%	13.9%	4.3	Walking	Pass	17.4	Pass
31	Proposed	37.3%	21.2%	13.2%	4.1	Walking	Pass	18.5	Pass
	Existing	37.6%	20.9%	12.9%	4.1	Walking	Pass	18.6	Pass
32	Proposed	40.7%	21.9%	10.6%	4.1	Walking	Pass	18.2	Pass
	Existing	32.7%	17.1%	8.4%	3.8	Walking	Pass	17.0	Pass
33	Proposed	23.3%	12.4%	5.7%	3.2	Walking	Pass	14.4	Pass
	Existing	29.9%	16.4%	8.9%	3.7	Walking	Pass	16.6	Pass
34	Proposed	21.1%	10.8%	4.7%	3.1	Walking	Pass	13.6	Pass
	Existing	24.9%	14.1%	6.6%	3.4	Walking	Pass	15.2	Pass
35	Proposed	41.4%	23.9%	12.5%	4.3	Walking	Pass	18.2	Pass
	Existing	40.4%	21.5%	10.5%	4.1	Walking	Pass	17.2	Pass
36	Proposed	26.6%	12.1%	5.2%	3.3	Walking	Pass	14.8	Pass
	Existing	36.4%	18.1%	7.5%	3.9	Walking	Pass	13.4	Pass
37	Proposed	34.5%	21.4%	12.2%	4.1	Walking	Pass	19.3	Pass
	Existing	33.3%	16.0%	7.2%	3.7	Walking	Pass	16.8	Pass
38	Proposed	27.5%	13.1%	5.4%	3.4	Walking	Pass	13.4	Pass
	Existing	26.4%	10.4%	3.7%	3.4	Walking	Pass	12.3	Pass
39	Proposed	32.5%	17.0%	7.0%	3.6	Walking	Pass	19.1	Pass
	Existing	30.4%	16.0%	5.6%	3.6	Walking	Pass	19.0	Pass
40	Proposed	17.4%	4.9%	1.4%	2.8	Walking	Pass	14.1	Pass
	Existing	18.1%	6.9%	1.9%	2.8	Walking	Pass	11.9	Pass
41	Proposed	35.6%	21.1%	12.0%	4.1	Walking	Pass	18.1	Pass
	Existing	25.6%	12.9%	5.4%	3.4	Walking	Pass	14.9	Pass
42	Proposed	23.2%	10.1%	3.6%	3.2	Walking	Pass	12.9	Pass
	Existing	17.8%	8.2%	3.0%	2.8	Walking	Pass	13.0	Pass
43	Proposed	44.9%	27.1%	14.8%	4.5	Walking	Pass	17.2	Pass
	Existing	12.1%	3.8%	0.9%	2.5	Walking	Pass	11.6	Pass
44	Proposed	40.7%	23.0%	11.2%	4.2	Walking	Pass	16.5	Pass
	Existing	12.9%	4.3%	0.9%	2.5	Walking	Pass	10.7	Pass
45	Proposed	32.8%	16.0%	6.1%	3.7	Walking	Pass	13.3	Pass
	Existing	20.2%	6.8%	2.2%	3.0	Walking	Pass	14.5	Pass
46	Proposed	34.9%	19.4%	11.1%	3.9	Walking	Pass	17.8	Pass
	Existing	30.7%	18.4%	11.8%	3.8	Walking	Pass	18.9	Pass
47	Proposed	37.6%	21.0%	9.5%	4.1	Walking	Pass	15.0	Pass
	Existing	36.3%	20.4%	12.6%	4.0	Walking	Pass	19.2	Pass
48	Proposed	16.9%	7.1%	2.5%	2.8	Walking	Pass	12.9	Pass
	Existing	21.2%	9.6%	3.9%	3.1	Walking	Pass	14.2	Pass
49	Proposed	24.6%	8.5%	2.1%	3.2	Walking	Pass	12.3	Pass
	Existing	24.9%	8.9%	2.5%	3.3	Walking	Pass	11.3	Pass
50	Proposed	22.3%	12.3%	5.3%	3.2	Walking	Pass	15.0	Pass
	Existing	21.7%	11.9%	5.0%	3.1	Walking	Pass	14.6	Pass
51	Proposed	11.2%	3.4%	0.8%	2.4	Walking	Pass	10.2	Pass
	Existing	7.7%	1.8%	0.5%	2.2	Walking	Pass	10.2	Pass
52	Proposed	20.2%	11.3%	5.4%	3.0	Walking	Pass	14.8	Pass
	Existing	26.1%	13.8%	6.9%	3.4	Walking	Pass	15.9	Pass

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Table 1: Pedestrian Wind Comfort and Safety – Ground Level

Configuration		Wind Criteria							
		Comfort					Safety		
		Yearly exceedence of given wind speed			Mean wind speed (exceeded 20% of year)	Recommended criterion	Result (compared against Recommended criterion)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)	m/s	m/s					
53	Proposed	24.7%	10.0%	3.1%	3.3	Walking	Pass	12.3	Pass
	Existing	24.8%	10.0%	3.3%	3.2	Walking	Pass	13.2	Pass
54	Proposed	23.6%	9.8%	3.5%	3.2	Walking	Pass	13.0	Pass
	Existing	10.9%	3.5%	1.0%	2.4	Walking	Pass	11.0	Pass
55	Proposed	31.8%	16.7%	7.3%	3.7	Walking	Pass	15.2	Pass
	Existing	28.1%	14.4%	6.1%	3.5	Walking	Pass	14.3	Pass
56	Proposed	19.0%	6.5%	1.6%	2.9	Walking	Pass	11.3	Pass
	Existing	15.9%	4.8%	1.2%	2.8	Walking	Pass	11.9	Pass
57	Proposed	28.5%	12.3%	4.7%	3.4	Walking	Pass	15.1	Pass
	Existing	6.8%	1.7%	0.2%	2.1	Walking	Pass	9.3	Pass
58	Proposed	15.9%	7.1%	3.0%	2.7	Walking	Pass	13.6	Pass
	Existing	27.9%	17.5%	12.0%	3.7	Walking	Pass	19.9	Pass
59	Proposed	7.7%	1.6%	0.3%	2.2	Walking	Pass	9.5	Pass
	Existing	10.4%	2.4%	0.3%	2.5	Walking	Pass	9.7	Pass
60	Proposed	22.6%	11.3%	4.7%	3.2	Walking	Pass	14.4	Pass
	Existing	22.5%	9.3%	3.3%	3.1	Walking	Pass	13.1	Pass
61	Proposed	8.4%	2.1%	0.4%	2.3	Walking	Pass	10.5	Pass
	Existing	2.8%	0.4%	0.0%	1.9	Walking	Pass	7.5	Pass
62	Proposed	37.1%	21.4%	12.7%	4.1	Walking	Pass	17.5	Pass
	Existing	42.2%	25.1%	15.2%	4.4	Walking	Pass	17.8	Pass
63	Proposed	30.3%	16.8%	9.5%	3.1	Walking	Pass	15.9	Pass
	Existing	46.1%	27.3%	16.2%	4.0	Walking	Pass	18.3	Pass
64	Proposed	23.9%	9.9%	3.4%	3.1	Walking	Pass	16.6	Pass
	Existing	27.5%	13.1%	5.1%	3.1	Walking	Pass	17.1	Pass
65	Proposed	23.9%	9.9%	3.4%	3.1	Walking	Pass	16.6	Pass
	Existing	34.1%	19.8%	11.8%	3.8	Walking	Pass	16.5	Pass
66	Proposed	22.4%	13.5%	8.8%	3.2	Walking	Pass	16.0	Pass
	Existing	17.4%	8.6%	3.4%	2.8	Walking	Pass	12.6	Pass
67	Proposed	30.1%	16.8%	10.5%	3.6	Walking	Pass	16.2	Pass
	Existing	31.9%	18.1%	9.2%	3.8	Walking	Pass	16.2	Pass
68	Proposed	31.6%	17.9%	11.6%	3.8	Walking	Pass	17.9	Pass
	Existing	28.9%	17.0%	11.3%	3.6	Walking	Pass	17.5	Pass
69	Proposed	36.6%	20.1%	10.6%	4.0	Walking	Pass	16.8	Pass
	Existing	37.4%	20.6%	10.9%	4.0	Walking	Pass	15.5	Pass
70	Proposed	41.6%	24.2%	14.0%	4.4	Walking	Pass	17.6	Pass
	Existing	41.5%	23.6%	12.9%	4.3	Walking	Pass	16.6	Pass
71	Proposed	34.1%	18.6%	9.5%	3.9	Walking	Pass	16.1	Pass
	Existing	27.7%	13.8%	5.4%	3.5	Walking	Pass	14.0	Pass
72	Proposed	35.4%	20.0%	11.4%	4.0	Walking	Pass	16.4	Pass
	Existing	37.7%	21.2%	11.9%	4.1	Walking	Pass	16.7	Pass
73	Proposed	21.6%	9.3%	3.2%	3.1	Walking	Pass	12.8	Pass
	Existing	20.8%	9.5%	3.4%	3.1	Walking	Pass	13.0	Pass
74	Proposed	33.9%	19.0%	9.4%	3.9	Walking	Pass	15.5	Pass
	Existing	28.3%	11.7%	4.4%	3.4	Walking	Pass	15.7	Pass
75	Proposed	27.9%	17.4%	11.3%	3.7	Walking	Pass	19.1	Pass
	Existing	33.0%	15.9%	7.4%	3.7	Walking	Pass	17.2	Pass
76	Proposed	22.9%	10.8%	5.4%	3.2	Walking	Pass	16.7	Pass
	Existing	21.8%	8.9%	3.3%	3.1	Walking	Pass	14.1	Pass
77	Proposed	9.4%	2.8%	0.6%	2.3	Walking	Pass	10.9	Pass
	Existing	12.9%	4.7%	1.5%	2.5	Walking	Pass	12.1	Pass

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Table 1 (continued): Pedestrian Wind Comfort and Safety – Ground Level

Configuration	Wind Criteria								
	Comfort					Safety			
	Yearly exceedence of given wind speed			Mean wind speed (exceeded 20% of year)	Recommended criterion	Result (compared against Recommended criterion) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail	
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %							
78	Proposed	8.0%	2.4%	0.4%	2.0	Walking	Pass	10.0	Pass
	Existing	35.7%	19.8%	10.1%	4.0	Walking	Pass	18.0	Pass
79	Proposed	29.4%	18.7%	12.4%	3.8	Walking	Pass	18.8	Pass
	Existing	49.9%	31.2%	19.2%	4.9	Walking	Pass	19.7	Pass
80	Proposed	15.9%	7.9%	3.6%	2.6	Walking	Pass	15.7	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
81	Proposed	17.7%	5.6%	1.1%	2.9	Walking	Pass	10.7	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
82	Proposed	25.2%	9.4%	3.5%	3.3	Walking	Pass	16.9	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
83	Proposed	10.3%	2.5%	0.4%	2.5	Standing	Pass	9.5	Pass
	Existing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84	Proposed	18.5%	7.5%	3.0%	2.9	Walking	Pass	13.9	Pass
	Existing	17.0%	10.8%	5.7%	2.7	Walking	Pass	15.8	Pass
85	Proposed	37.6%	21.5%	11.0%	4.1	Walking	Pass	15.6	Pass
	Existing	38.2%	23.4%	13.9%	4.3	Walking	Pass	17.4	Pass

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Table 2: Pedestrian Wind Comfort and Safety – Upper Level Terraces

Configuration		Wind Criteria							
		Comfort					Safety		
		Yearly exceedence of given wind speed			Mean wind speed (exceeded 20% of year)	Recommended criterion	Result (compared against Recommended criterion)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %	m/s	Pass/Fail					
T1	Proposed + 1.2m solid balustrade	3.1%	0.3%	0.0%	1.9	Walking	Pass	7.3	Pass
T2	Proposed + 1.2m solid balustrade	5.5%	0.9%	0.1%	2.0	Walking	Pass	8.8	Pass
T3	Proposed	52.7%	34.8%	21.1%	5.1	Walking	Fail	19.2	Pass
	Proposed + 1.2m solid balustrade	42.8%	25.5%	12.6%	4.4	Walking	Pass	17.2	Pass
T4	Proposed + 1.2m solid balustrade	24.9%	10.5%	3.4%	3.3	Walking	Pass	12.3	Pass
T5	Proposed + 1.2m solid balustrade	34.1%	18.1%	8.7%	3.9	Walking	Pass	15.6	Pass
T6	Proposed	26.8%	47.2%	44.8%	3.6	Walking	Pass	20.2	Fail
	Proposed + 1.2m solid balustrade	19.3%	12.8%	7.5%	2.9	Walking	Pass	16.6	Pass
T7	Proposed	46.4%	32.9%	23.1%	5.4	Walking	Fail	24.2	Fail
	Proposed + 1.2m solid balustrade	32.6%	21.9%	14.1%	4.2	Walking	Pass	18.6	Pass
T8	Proposed + 1.2m solid balustrade	1.4%	0.2%	0.0%	1.3	Walking	Pass	7.0	Pass
T9	Proposed + 1.2m solid balustrade	5.0%	1.4%	0.4%	1.9	Walking	Pass	11.0	Pass
T10	Proposed + 1.2m solid balustrade	37.4%	23.3%	13.5%	4.3	Walking	Pass	19.9	Pass
T11	Proposed	26.4%	16.0%	8.1%	3.6	Walking	Pass	17.7	Pass
	Proposed + 1.2m solid balustrade	17.1%	8.0%	3.7%	2.7	Walking	Pass	13.7	Pass
T12	Proposed + 1.2m solid balustrade	22.8%	15.5%	10.8%	3.3	Walking	Pass	19.7	Pass
T13	Proposed + 1.2m solid balustrade	11.4%	4.0%	1.2%	2.5	Walking	Pass	12.6	Pass
T14	Proposed + 1.2m solid balustrade	15.4%	6.9%	3.3%	2.7	Walking	Pass	14.5	Pass
T15	Proposed	51.6%	34.1%	49.6%	5.0	Walking	Pass	21.9	Fail
	Proposed + 1.2m solid balustrade	51.6%	33.6%	19.4%	5.0	Walking	Pass	19.0	Pass
T16	Proposed + 1.2m solid balustrade	42.5%	25.5%	12.5%	4.4	Walking	Pass	15.4	Pass
T17	Proposed + 1.2m solid balustrade	37.7%	22.5%	13.4%	0.0	Walking	Pass	18.2	Pass
T18	Proposed + 1.2m solid balustrade	11.6%	4.1%	1.0%	2.3	Walking	Pass	11.0	Pass
T19	Proposed + 1.2m solid balustrade	8.0%	3.0%	1.0%	2.0	Walking	Pass	11.2	Pass
T20	Proposed	38.4%	26.3%	46.9%	4.7	Walking	Pass	21.8	Fail
	Proposed + 1.2m solid balustrade	25.3%	11.1%	4.8%	3.3	Walking	Pass	14.8	Pass
T21	Proposed	33.8%	22.4%	46.4%	4.3	Walking	Pass	22.0	Fail
	Proposed + 1.2m solid balustrade	27.7%	17.7%	11.7%	3.7	Walking	Pass	19.3	Pass
T23	Proposed + 1.2m solid balustrade	16.6%	9.8%	4.4%	2.6	Walking	Pass	14.4	Pass
T24	Proposed	38.4%	21.2%	10.5%	4.1	Walking	Pass	16.4	Pass
	Proposed + 1.2m solid balustrade	28.6%	13.6%	5.9%	3.5	Walking	Pass	14.6	Pass
T25	Proposed + 1.2m solid balustrade	13.4%	6.8%	3.1%	2.4	Walking	Pass	14.9	Pass
T26	Proposed + 1.2m solid balustrade	26.9%	15.7%	7.8%	3.6	Walking	Pass	16.3	Pass
T27	Proposed + 1.2m solid balustrade	21.6%	9.9%	4.1%	3.1	Walking	Pass	15.1	Pass
T28	Proposed + 1.2m solid balustrade	32.2%	20.9%	11.6%	4.1	Walking	Pass	18.7	Pass
T29	Proposed + 1.2m solid balustrade	21.6%	9.9%	4.1%	3.1	Walking	Pass	15.1	Pass

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Figure 4 - Summary of wind criteria satisfied on the ground level surrounding of the 43 and 63-67 River Street development for the Existing Configuration.

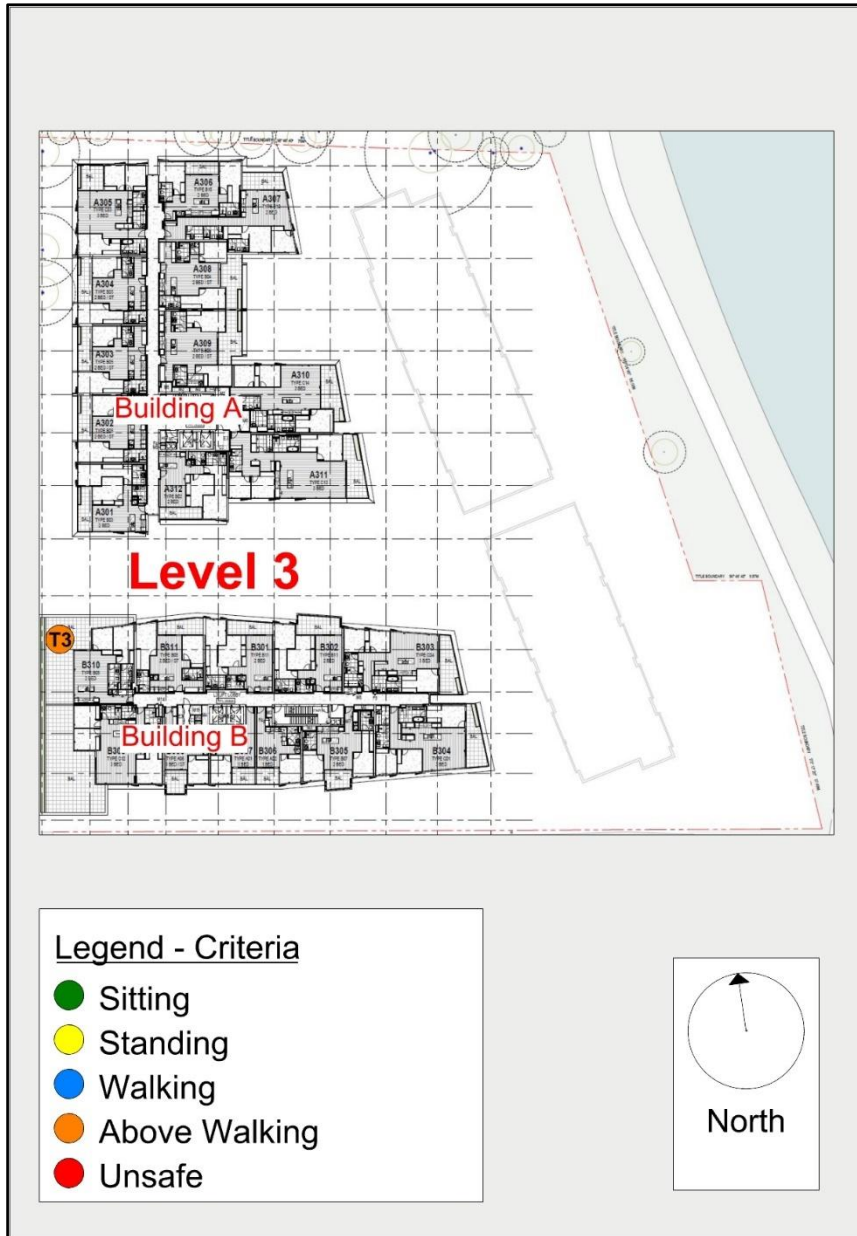


Figure 5b - Summary of wind criteria satisfied on the level 3 terrace of the 43 and 63-67 River Street development for the Proposed Configuration.

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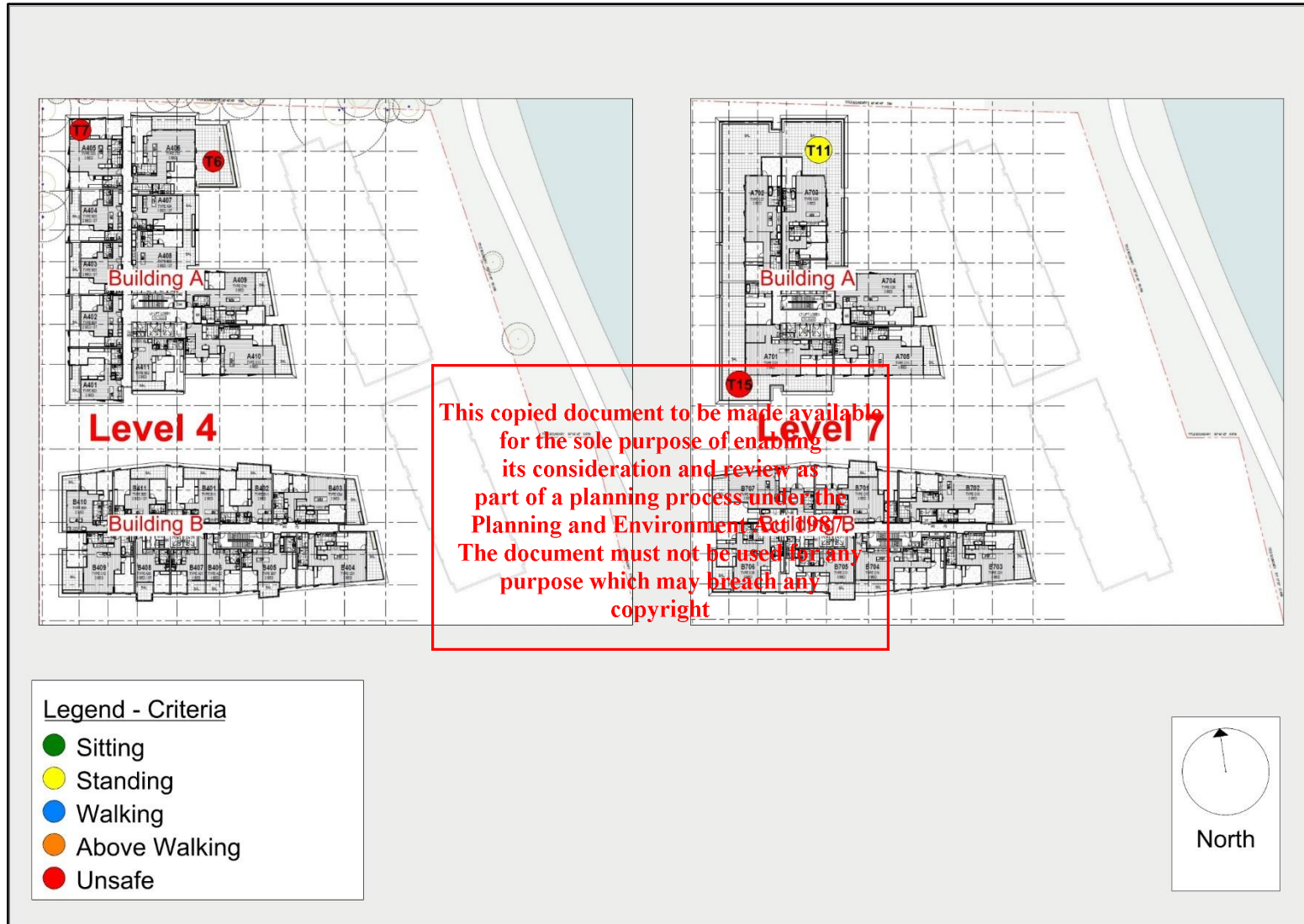


Figure 5c - Summary of wind criteria satisfied on the level 4 and 7 terraces of the 43 and 63-67 River Street development for the Proposed Configuration.

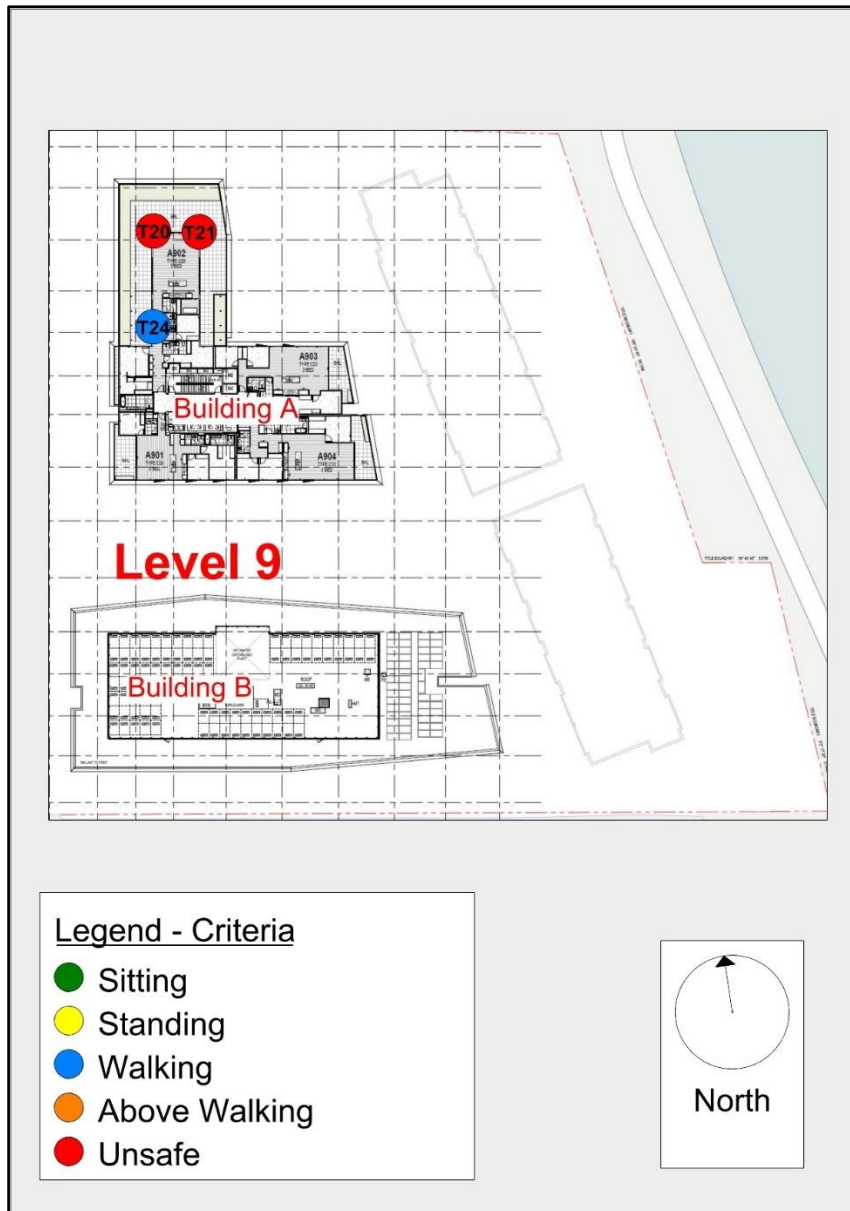


Figure 5d - Summary of wind criteria satisfied on the level 9 terrace of the 43 and 63-67 River Street development for the Proposed Configuration.

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5.3 Wind Mitigation Strategies

In order to address the wind safety issues and achieve the recommended comfort criterion, wind mitigation strategies have been investigated as follows:

- Ground level

It has been demonstrated that the addition of a 1.8m high (50% porosity) north-south screen/gate would be required to improve the wind conditions to satisfy the safety criterion at the northwest corner of Building A (Test Location 1, see Figure 6a). The addition of this screen/gate has also been shown to improve the wind comfort at Test Location 1 to satisfy the sitting criterion.

- Upper level terraces

It has been demonstrated that the addition of a 1.2m high solid balustrade (or equivalently a porous balustrade with solid planter immediately behind) would be required to improve the wind conditions to achieve safety and a minimum of walking comfort criteria at Building B level 3 northwest terrace (Test Location T3), Building A level 4 north terraces (Test Locations T6 and T7), level 7 southwest terrace (Test Locations T15), and level 9 terrace near the north building corners (Test Locations T20 and T21). The wind conditions for the Proposed Configuration with 1.2m high solid balustrades were measured for all upper level terraces Test Locations (T1-T29) and were shown to satisfy the safety and walking comfort criteria at a minimum (see Figures 6b-6d).

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Figure 6a - Summary of wind criteria satisfied on the ground level surrounding of the 43 and 63-67 River Street development for the Proposed Configuration with wind mitigation strategies.

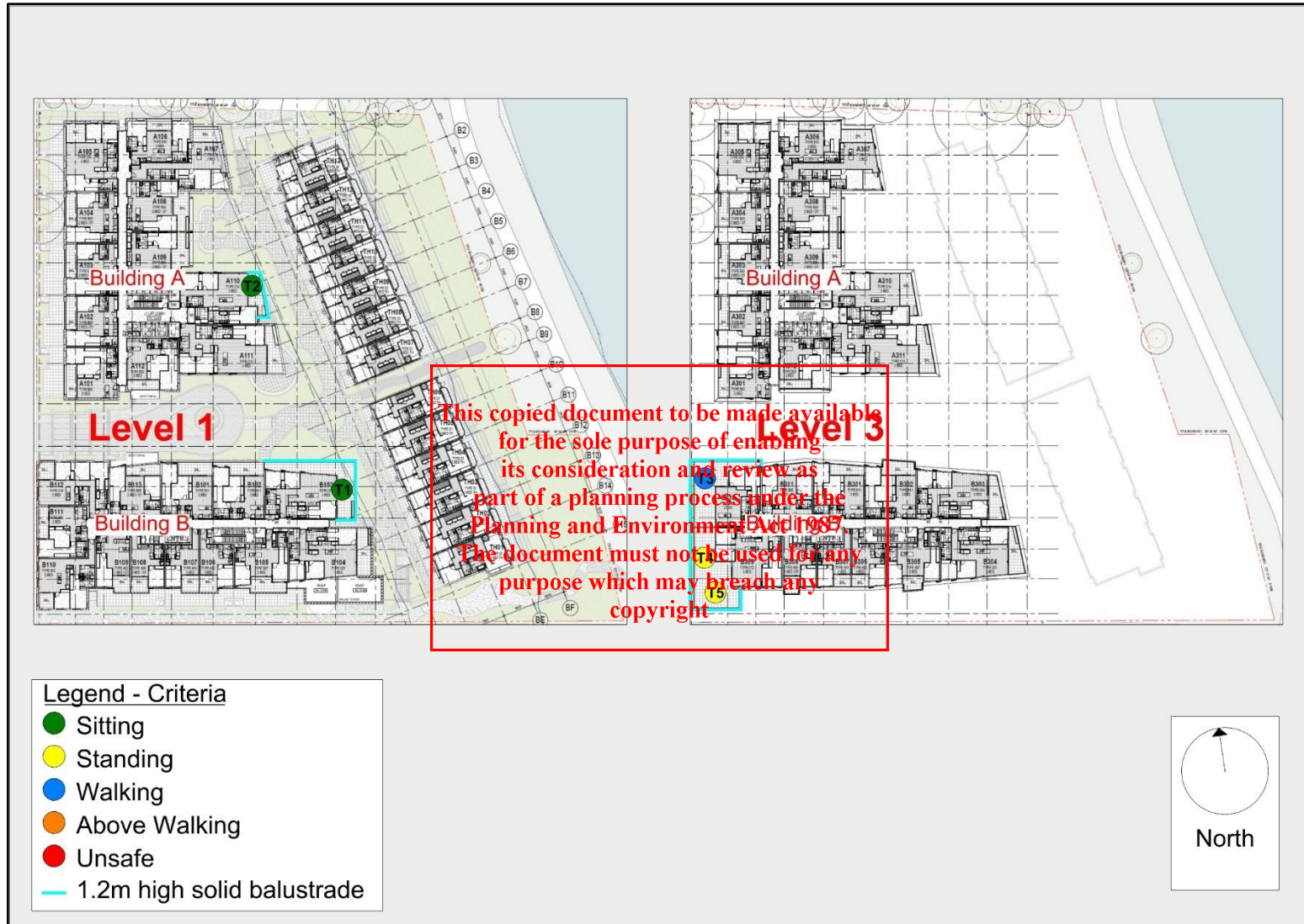


Figure 6b - Summary of wind criteria satisfied on the level 1 and 3 terraces of the 43 and 63-67 River Street development for the Proposed Configuration with wind mitigation strategies.

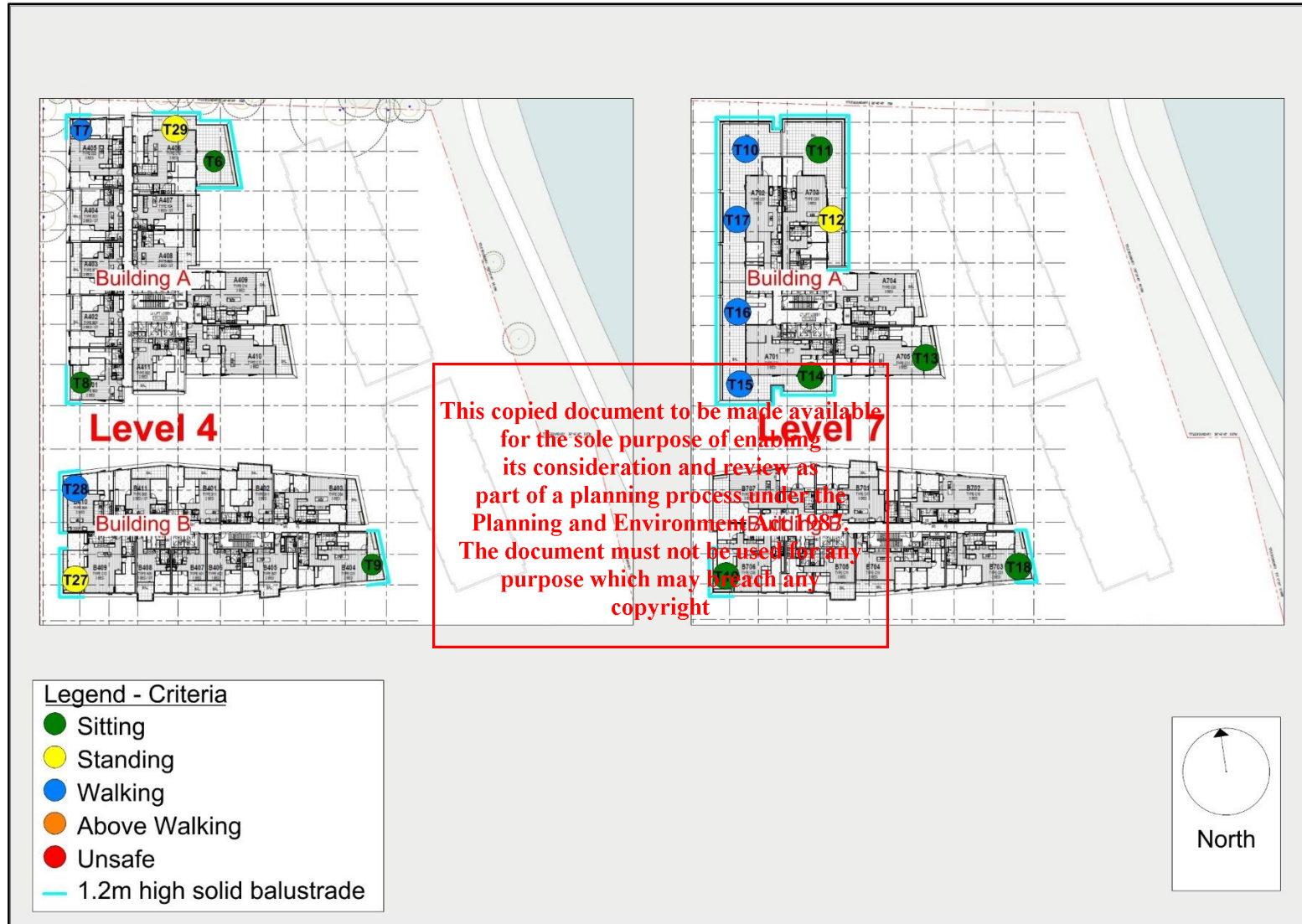


Figure 6c - Summary of wind criteria satisfied on the level 4 and 7 terraces of the 43 and 63-67 River Street development for the Proposed Configuration with wind mitigation strategies.

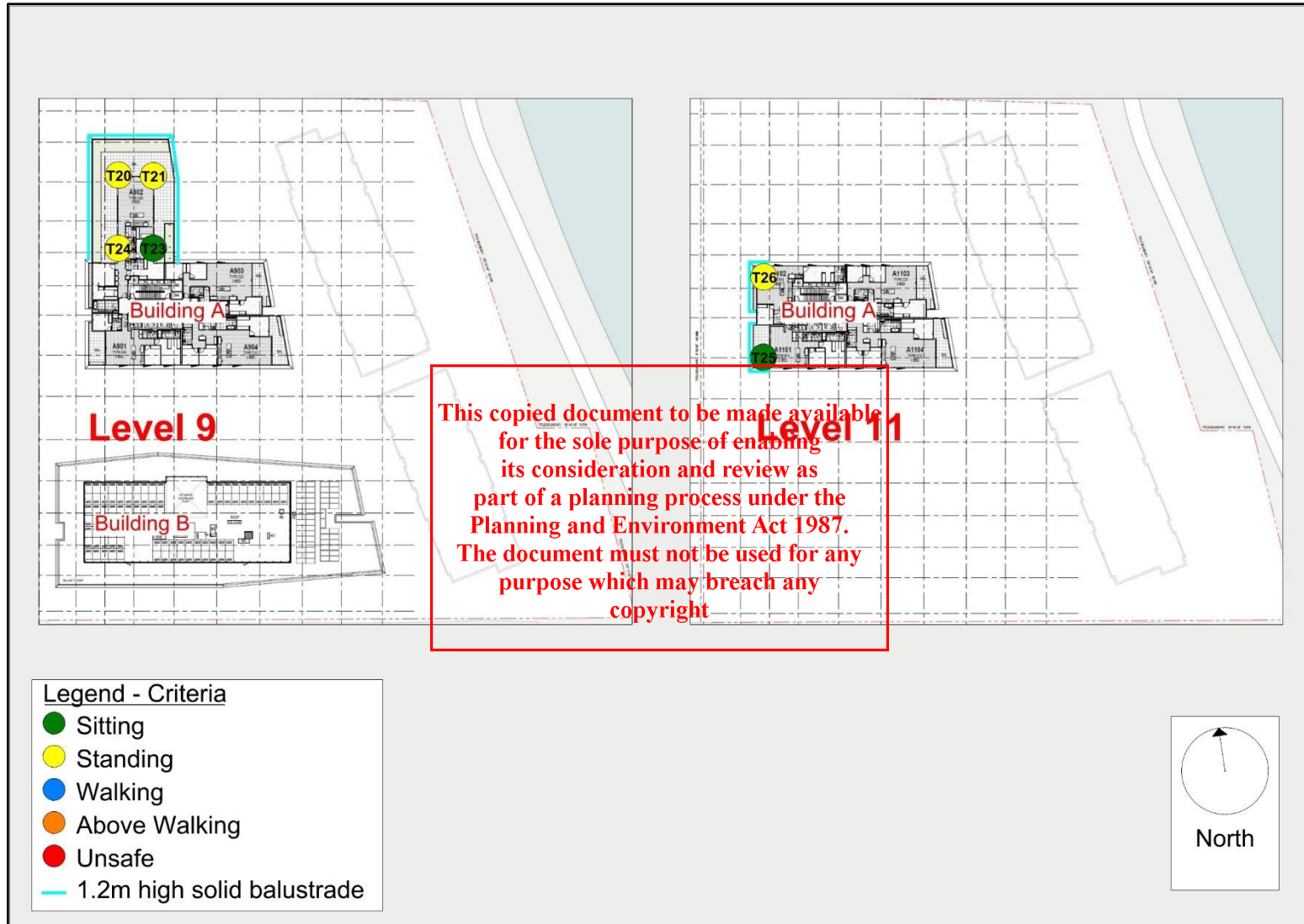


Figure 6d - Summary of wind criteria satisfied on the level 9 and 11 terraces of the 43 and 63-67 River Street development for the Proposed Configuration with wind mitigation strategies.

APPENDIX A – VELOCITY AND TURBULENCE PROFILES

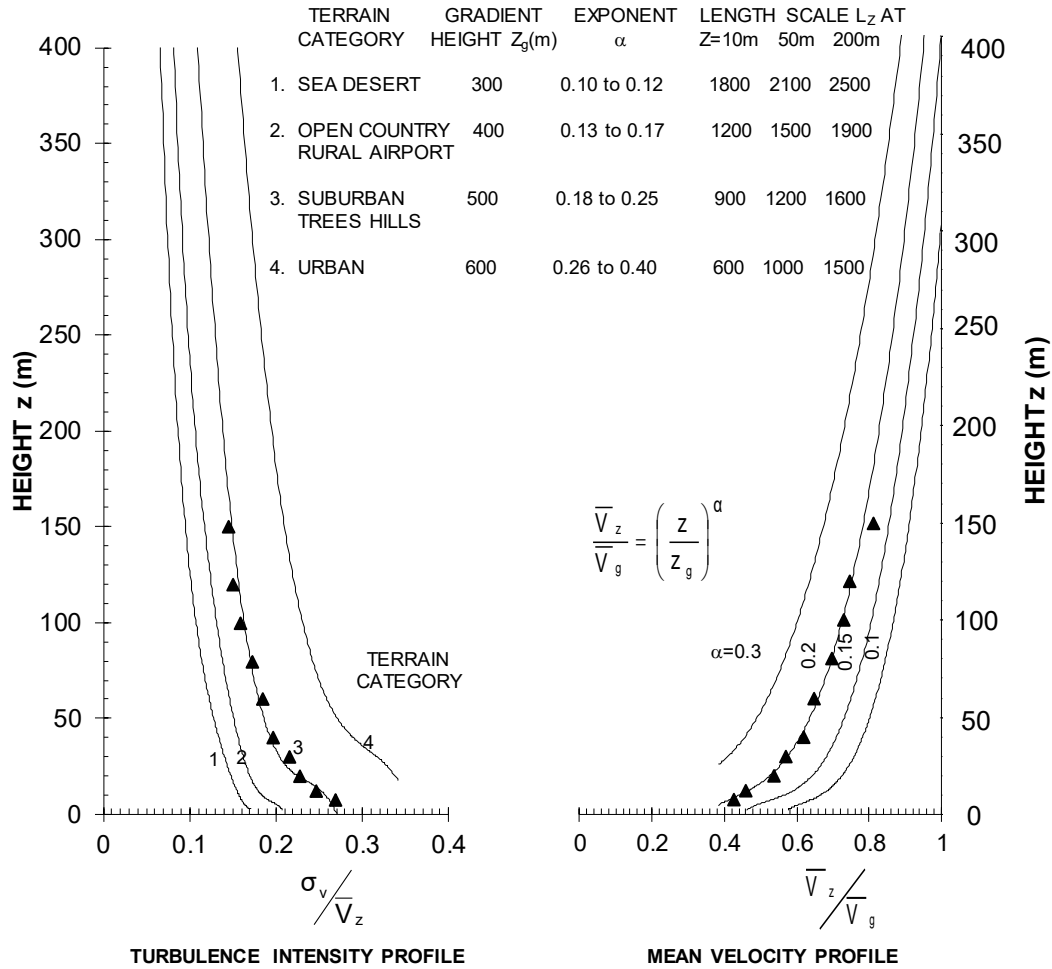


Figure A1 -1/400 scale TC3 boundary layer turbulence intensity and mean velocity profiles in the MEL Consultants Boundary Layer Wind Tunnel 4.8m x 2.2m working section, scaled to full scale dimensions.

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APPENDIX B – PEDESTRIAN SAFETY PLOTS

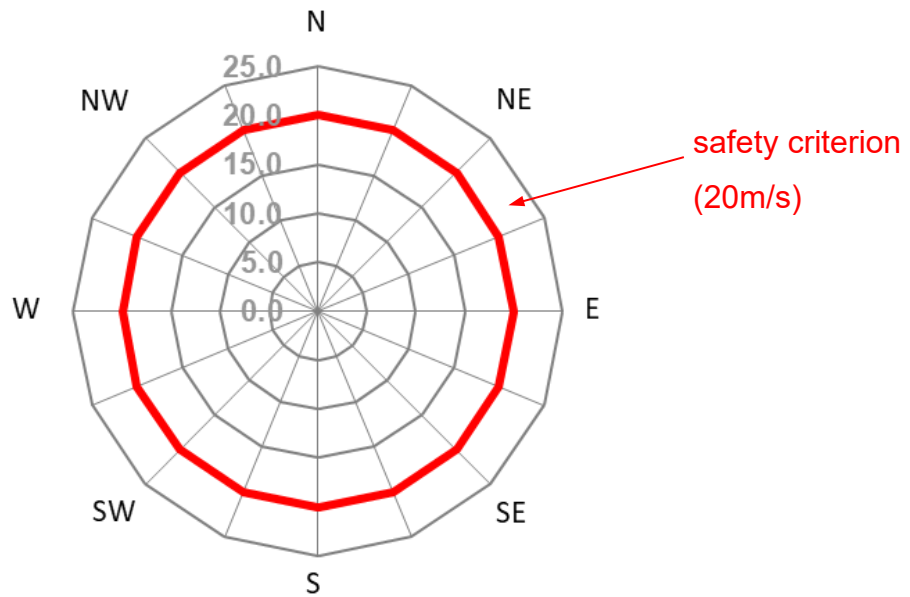
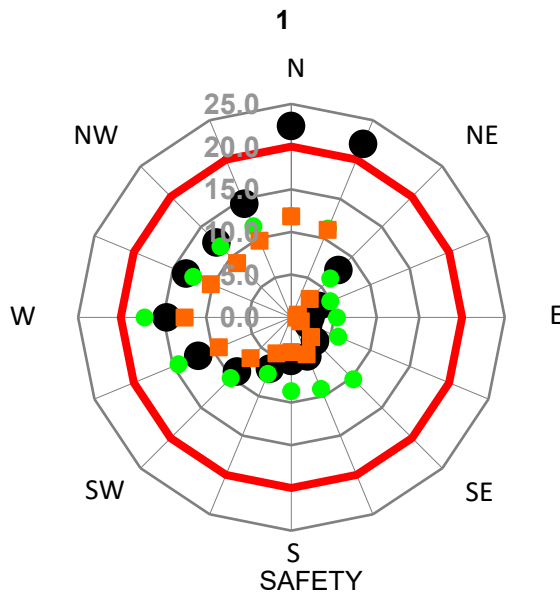


Figure B1 – Environmental wind safety criterion for Melbourne Region based on local 3 second peak gust wind speed

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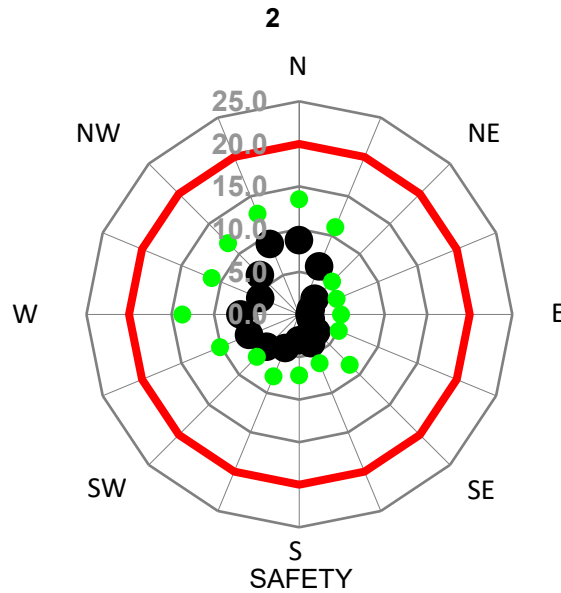
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	39.6%	26.6%	18.6%	4.8	NA - Safety criterion failed	22.4	Fail
● Existing Configuration	33.0%	15.9%	7.4%	3.7	Pass	17.2	Pass
■ Proposed Configuration with mitigation strategies	19.2%	8.3%	2.9%	2.9	Pass	12.5	Pass
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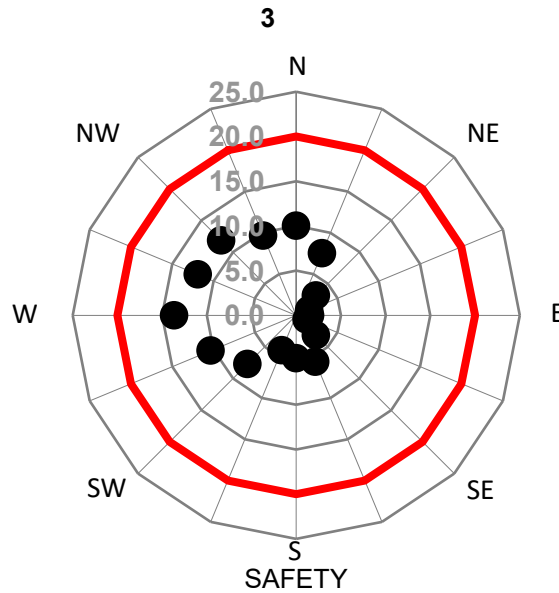
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	6.1%	1.1%	0.1%	2.1	Pass	8.9	Pass
● Existing Configuration	27.1%	13.5%	5.9%	3.5	Pass	13.7	Pass
■ Proposed Configuration with mitigation strategies							
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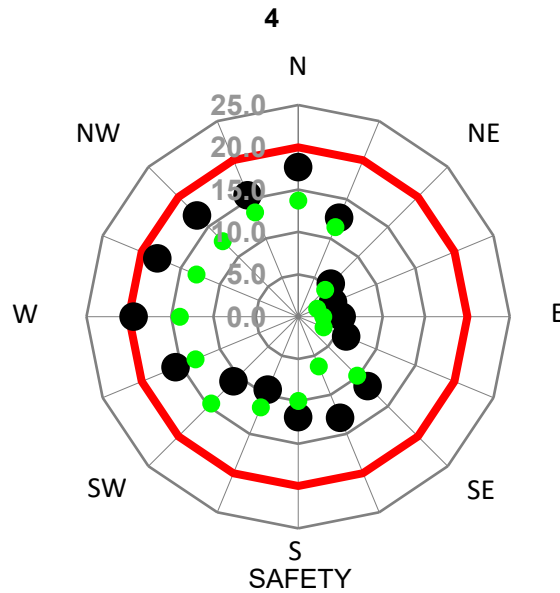
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	17.7%	7.2%	2.6%	2.9	Pass	13.6	Pass
● Existing Configuration							
■ Proposed Configuration with mitigation strategies							
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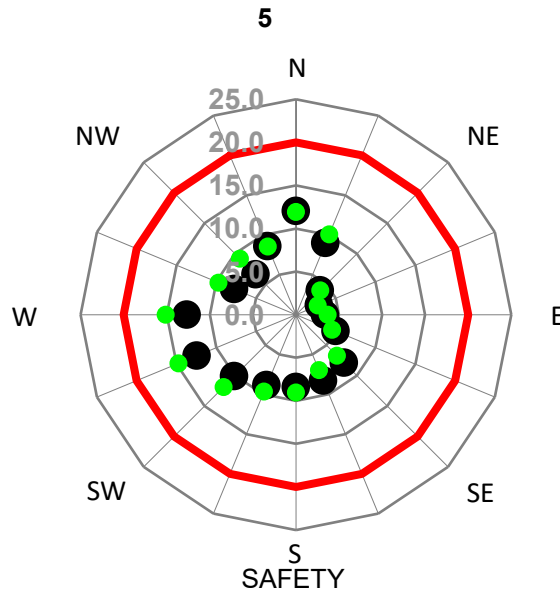
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	51.3%	32.9%	19.7%	5.0	Pass	19.4	Pass
● Existing Configuration	37.6%	20.1%	9.2%	4.0	Pass	14.5	Pass
■ Proposed Configuration with mitigation strategies							
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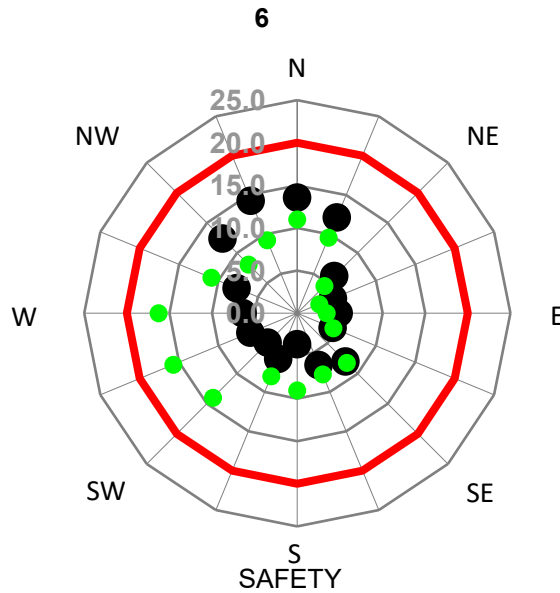
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	26.5%	10.2%	3.5%	3.3	Pass	12.7	Pass
● Existing Configuration	30.6%	13.5%	5.5%	3.6	Pass	15.1	Pass
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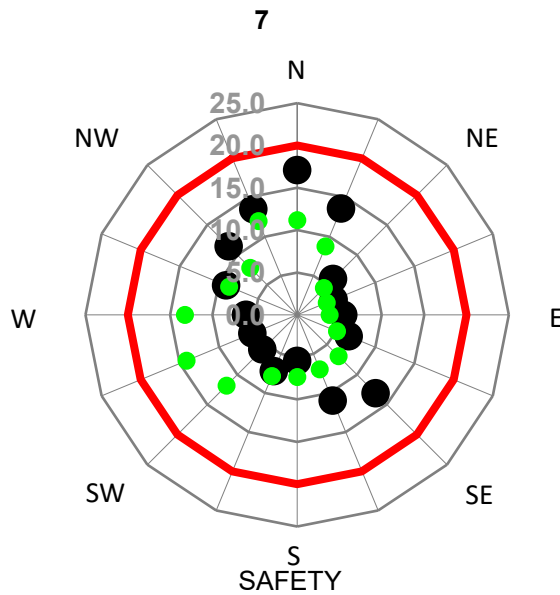
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	19.4%	10.6%	4.9%	2.9	Pass	14.3	Pass
● Existing Configuration	30.7%	13.8%	6.0%	3.5	Pass	16.3	Pass
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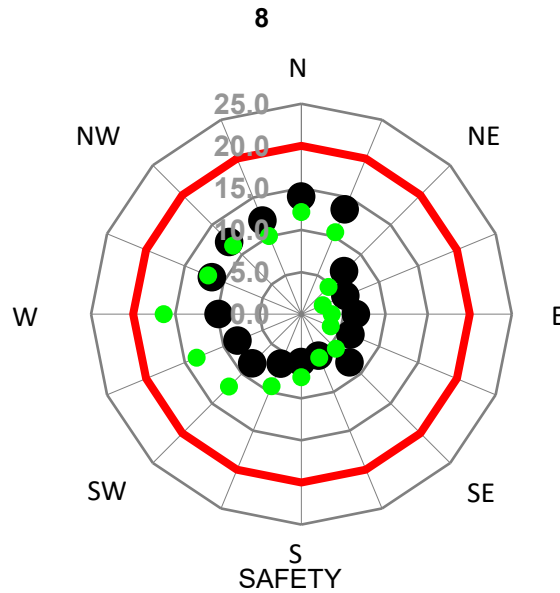
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	26.8%	16.9%	10.1%	3.6	Pass	17.1	Pass
● Existing Configuration	25.6%	10.7%	4.1%	3.3	Pass	14.1	Pass
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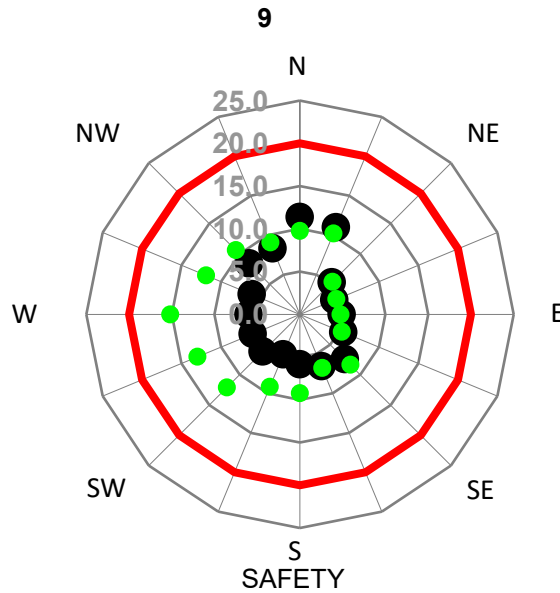
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	24.3%	12.8%	5.8%	3.3	Pass	14.0	Pass
● Existing Configuration	29.4%	14.3%	6.5%	3.6	Pass	16.4	Pass
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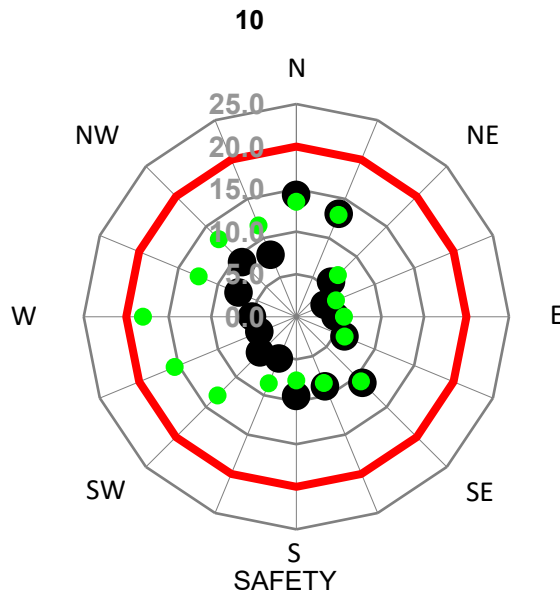
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	13.8%	4.9%	1.4%	2.6	Pass	11.4	Pass
● Existing Configuration	27.6%	11.9%	4.7%	3.4	Pass	15.2	Pass
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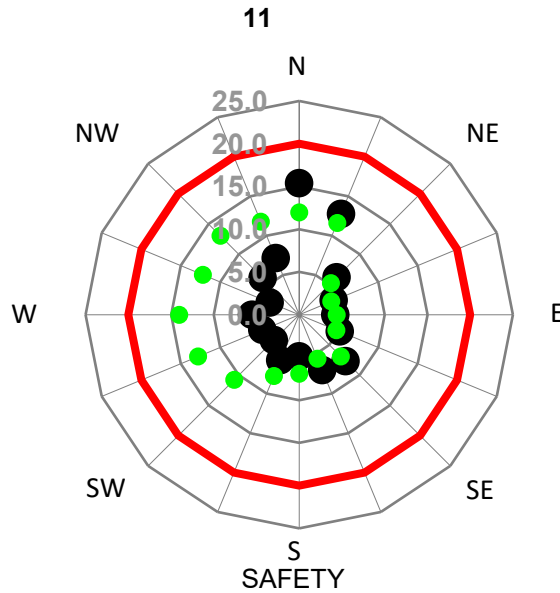
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.6%	11.5%	4.7%	3.2	Pass	14.3	Pass
● Existing Configuration	35.7%	19.8%	10.1%	4.0	Pass	18.0	Pass
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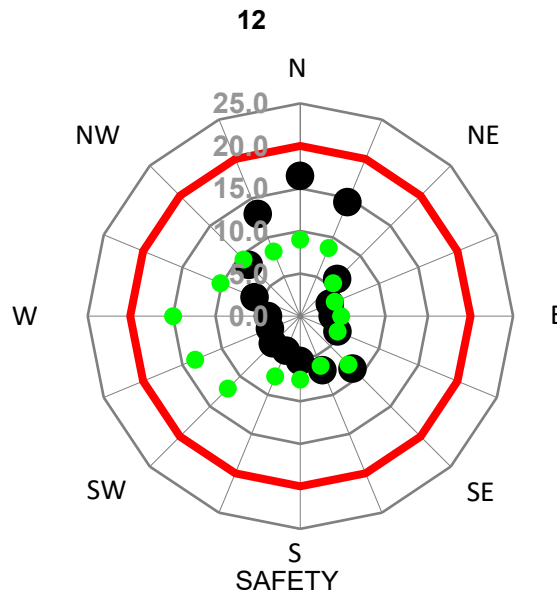
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	17.6%	10.6%	5.0%	2.8	Pass	15.4	Pass
● Existing Configuration	27.3%	12.9%	5.6%	3.5	Pass	14.0	Pass
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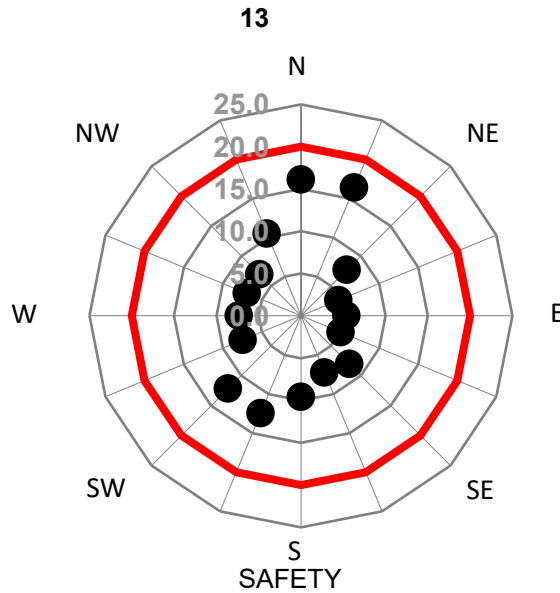
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	21.1%	13.5%	7.9%	3.1	Pass	16.5	Pass
● Existing Configuration	21.2%	8.7%	3.6%	3.1	Pass	15.0	Pass
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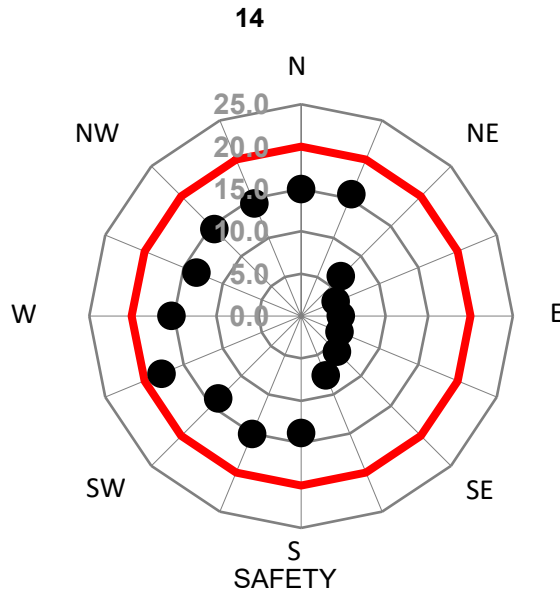
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	31.7%	17.1%	8.4%	3.8	Pass	16.4	Pass
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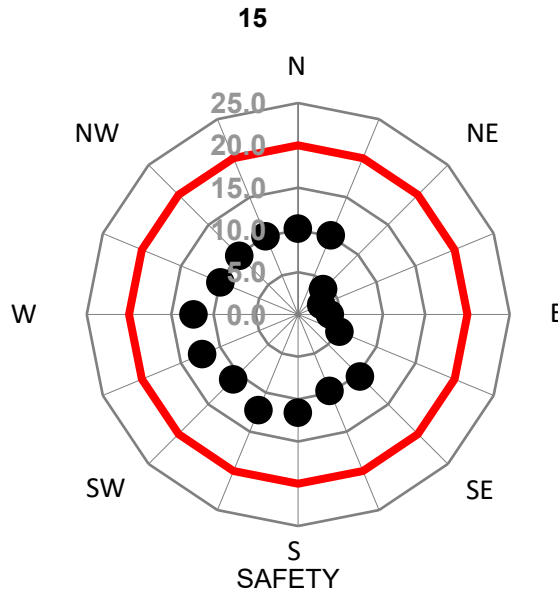
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	47.5%	29.9%	16.3%	4.7	Pass	17.8	Pass
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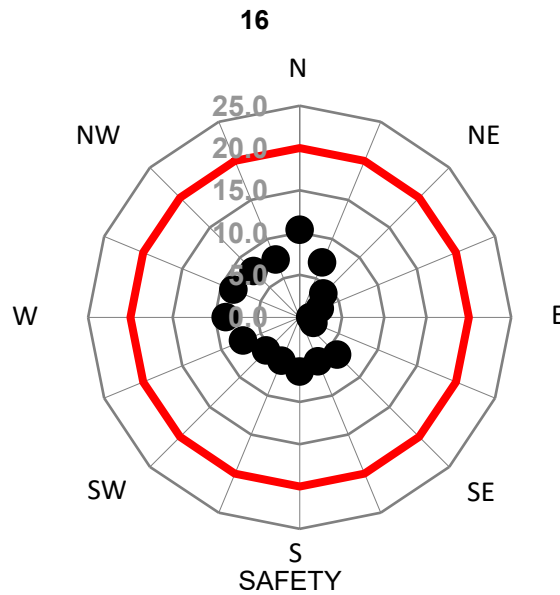
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	31.6%	14.1%	4.6%	3.6	Pass	12.4	Pass
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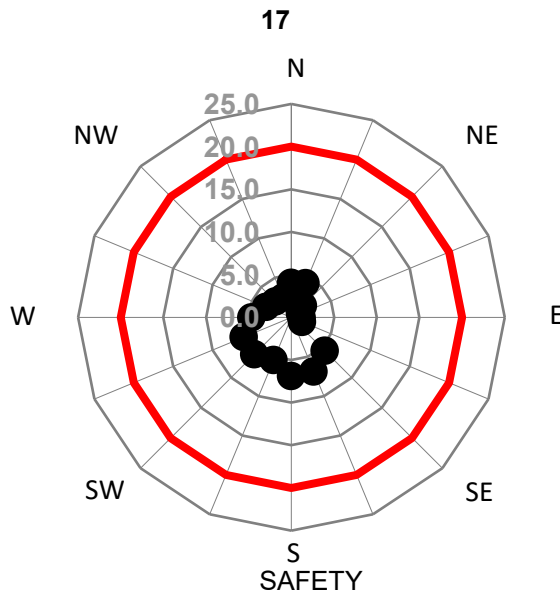
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 4m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	12.2%	3.2%	0.5%	2.5	Pass	10.3	Pass
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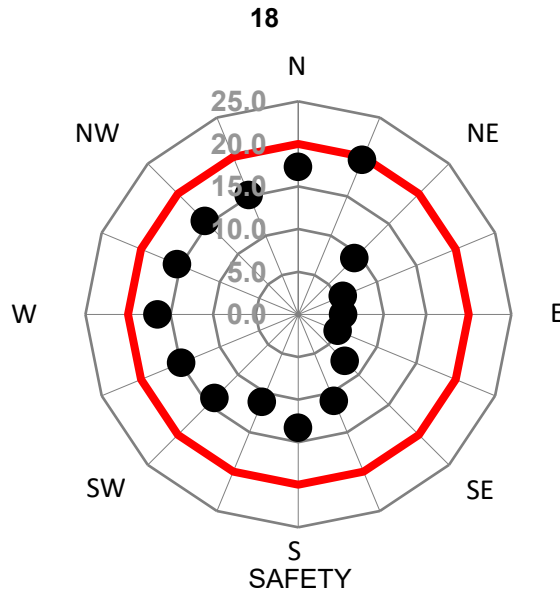
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 4m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	2.1%	0.2%	0.0%	1.7	Pass	6.9	Pass
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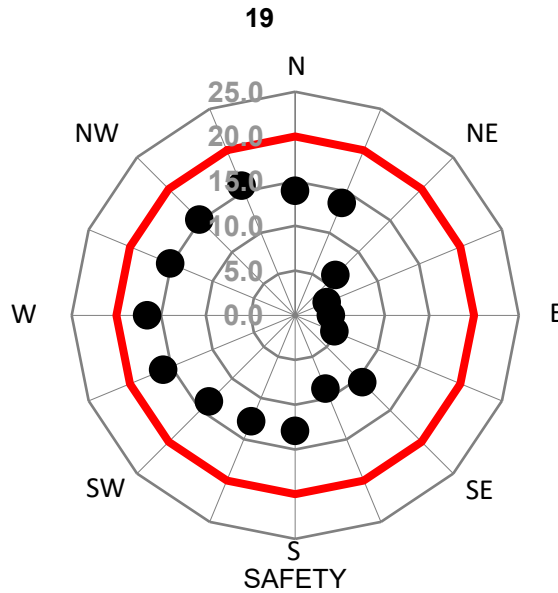
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	51.3%	32.9%	19.3%	4.9	Pass	19.6	Pass
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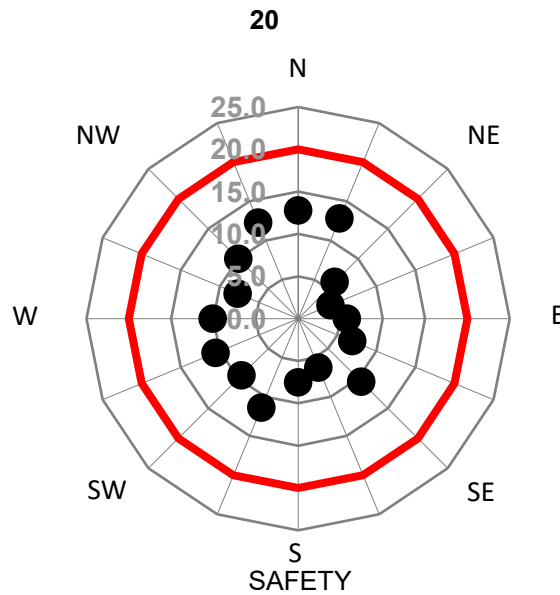
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	46.4%	27.8%	14.2%	4.5	Pass	16.6	Pass
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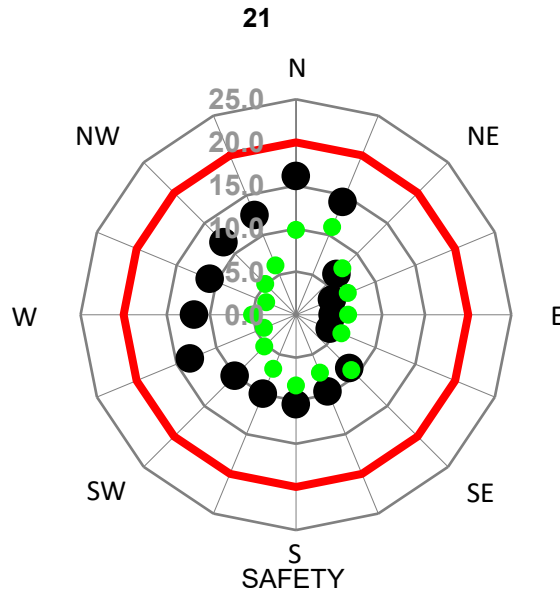
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	27.1%	12.1%	4.8%	3.4	Pass	12.8	Pass
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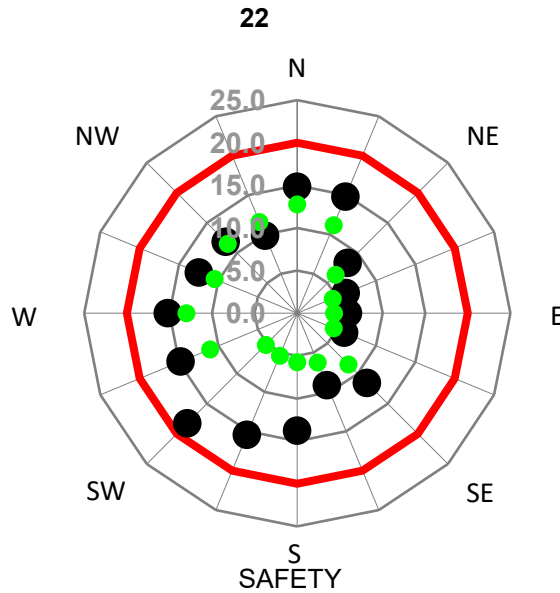
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	38.7%	21.2%	10.1%	4.1	Pass	16.1	Pass
● Existing Configuration	12.6%	3.5%	0.8%	2.6	Pass	11.0	Pass
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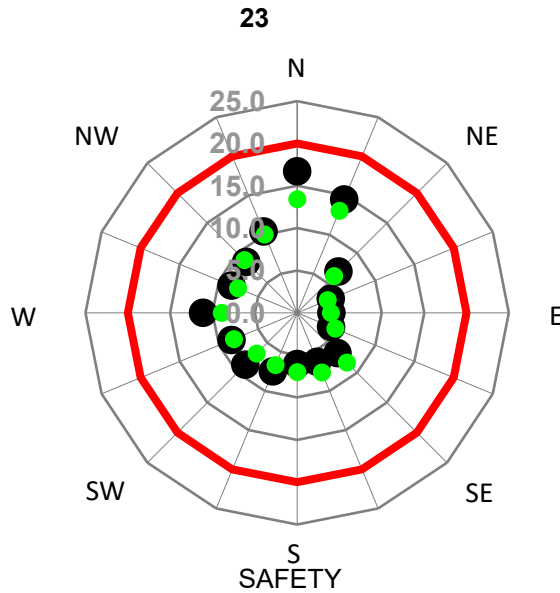
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	47.6%	29.5%	15.6%	4.6	Pass	18.2	Pass
● Existing Configuration	23.7%	11.7%	4.8%	3.3	Pass	13.0	Pass
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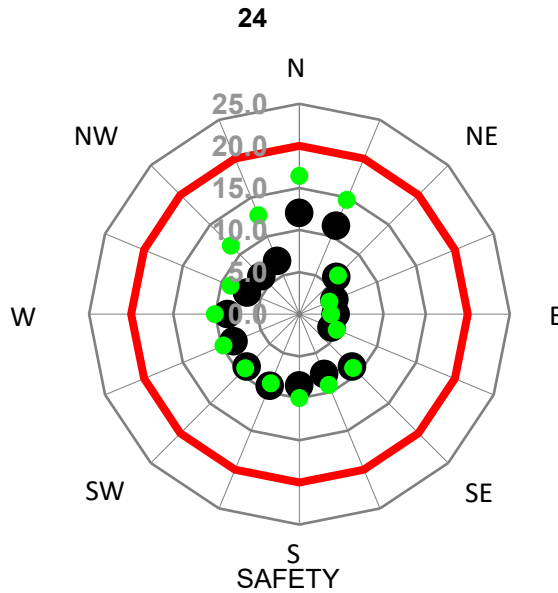
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	26.5%	15.1%	8.1%	3.5	Pass	16.7	Pass
● Existing Configuration	21.7%	9.8%	3.8%	3.1	Pass	13.4	Pass
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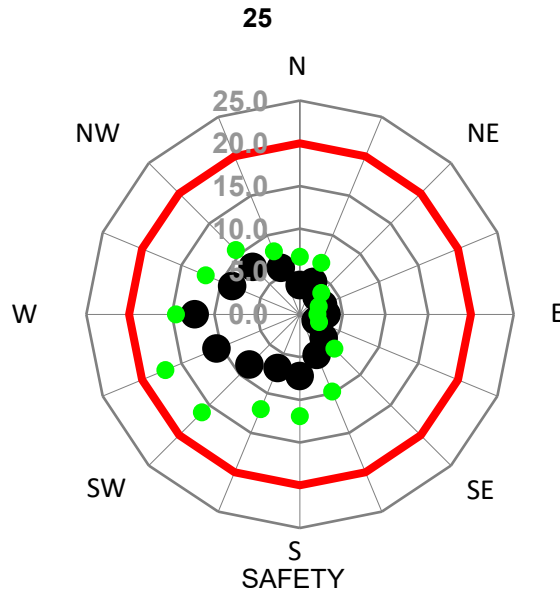
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	21.8%	7.4%	2.3%	3.1	Pass	12.0	Pass
● Existing Configuration	36.4%	19.7%	10.7%	4.0	Pass	16.4	Pass
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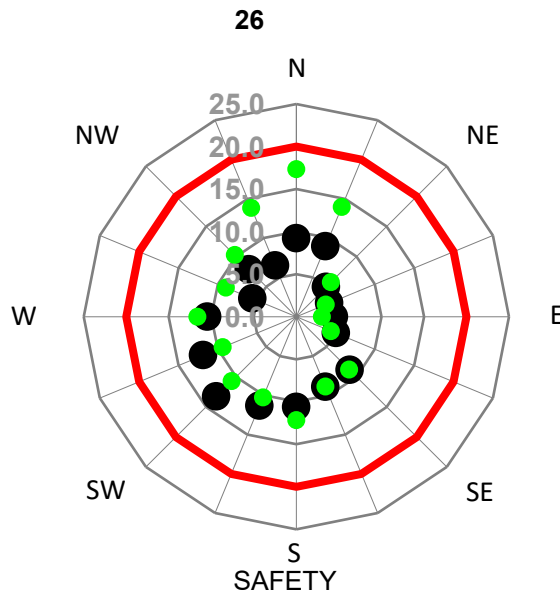
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	9.7%	3.3%	1.1%	2.3	Pass	12.3	Pass
● Existing Configuration	28.7%	15.6%	7.6%	3.6	Pass	17.1	Pass
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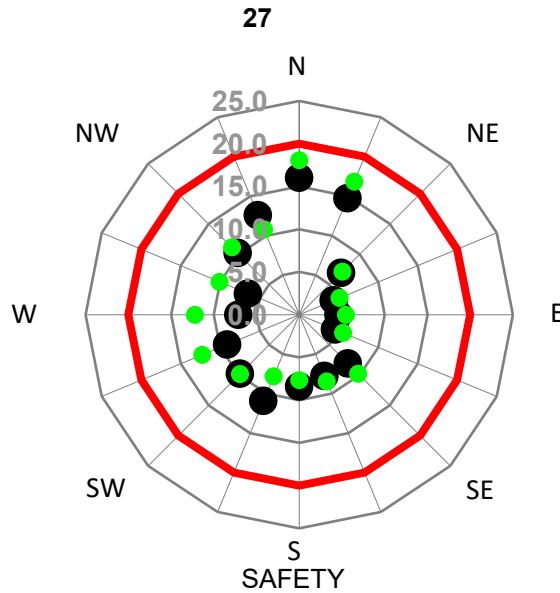
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	24.7%	9.7%	3.0%	3.3	Pass	13.3	Pass
● Existing Configuration	41.9%	24.2%	13.4%	4.3	Pass	17.3	Pass
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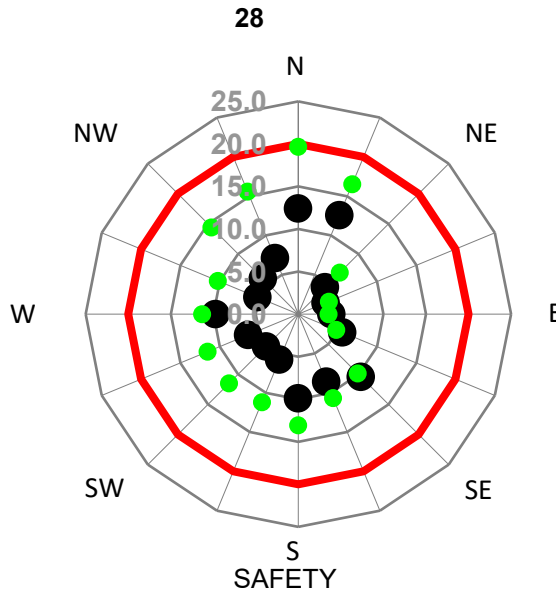
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	32.0%	17.6%	10.3%	3.8	Pass	16.0	Pass
● Existing Configuration	35.5%	20.3%	11.7%	4.0	Pass	18.1	Pass
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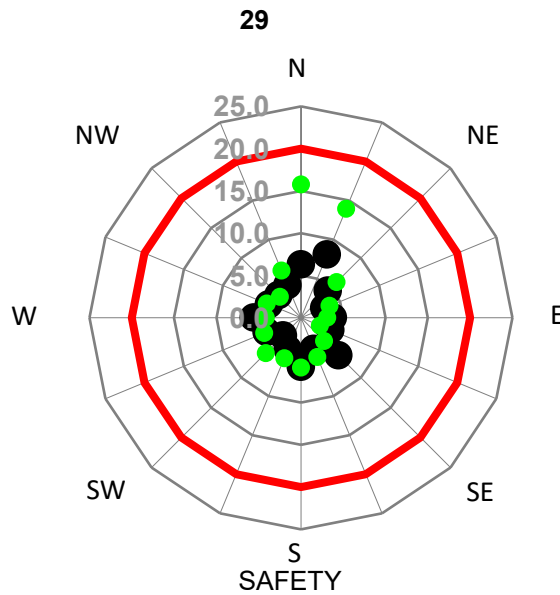
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	22.3%	8.6%	3.0%	3.1	Pass	12.6	Pass
● Existing Configuration	49.9%	31.2%	19.2%	4.9	Pass	19.7	Pass
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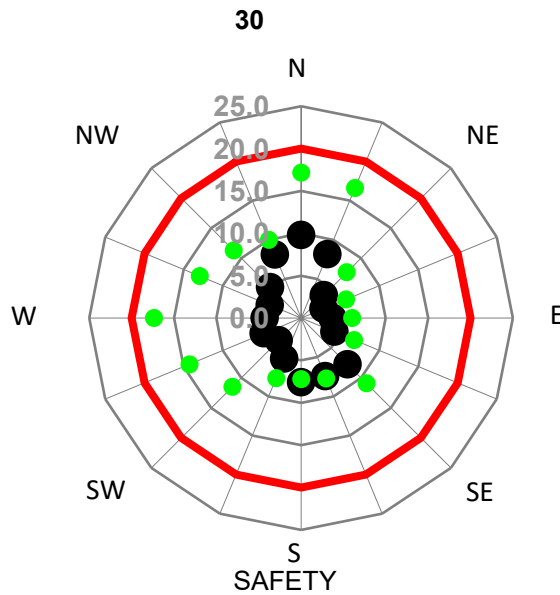
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	2.2%	0.3%	0.0%	1.9	Pass	8.1	Pass
● Existing Configuration	17.0%	10.8%	5.7%	2.7	Pass	15.8	Pass
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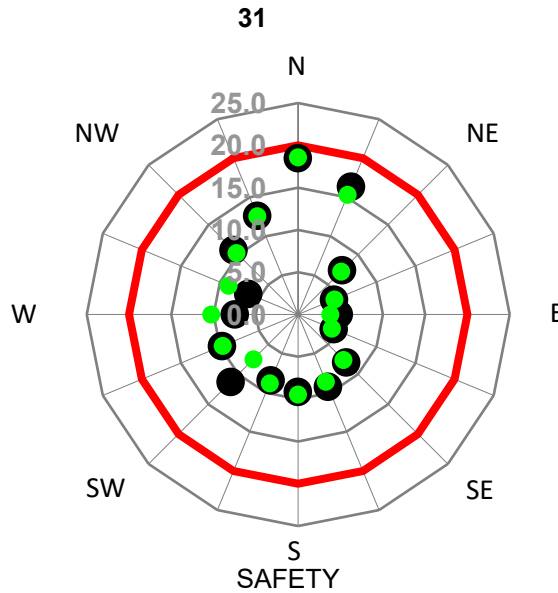
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	10.5%	2.5%	0.3%	2.4	Pass	9.8	Pass
● Existing Configuration	38.2%	23.4%	13.9%	4.3	Pass	17.4	Pass
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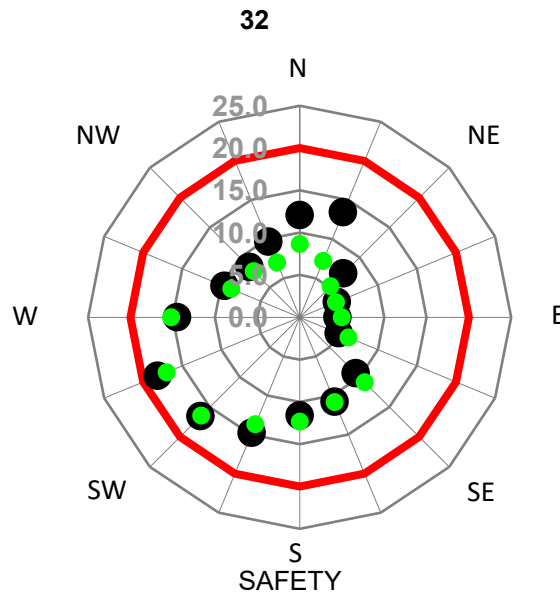
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	37.3%	21.2%	13.2%	4.1	Pass	18.5	Pass
● Existing Configuration	37.6%	20.9%	12.9%	4.1	Pass	18.6	Pass
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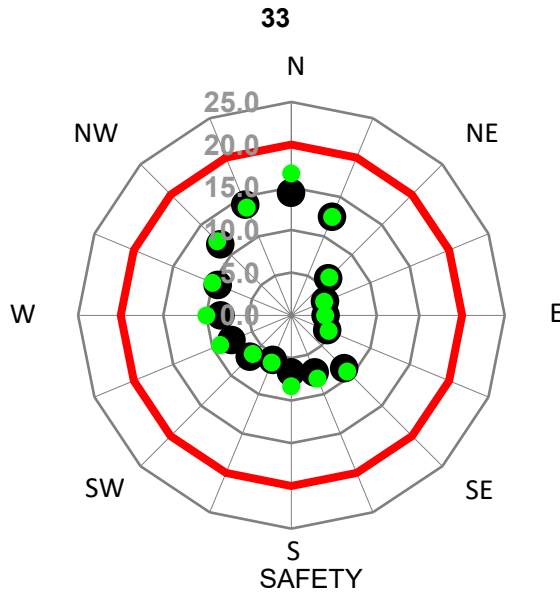
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	40.7%	21.9%	10.6%	4.1	Pass	18.2	Pass
● Existing Configuration	32.7%	17.1%	8.4%	3.8	Pass	17.0	Pass
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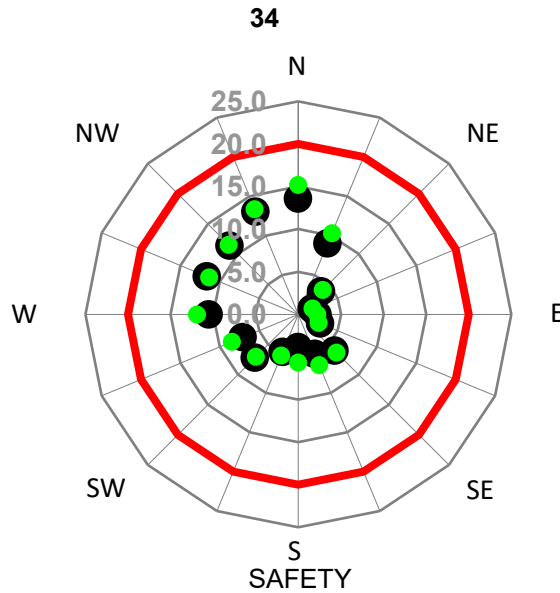
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.3%	12.4%	5.7%	3.2	Pass	14.4	Pass
● Existing Configuration	29.9%	16.4%	8.9%	3.7	Pass	16.6	Pass
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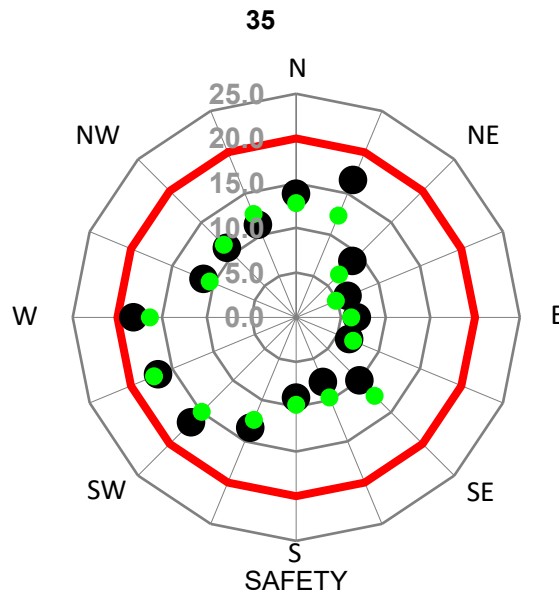
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	21.1%	10.8%	4.7%	3.1	Pass	13.6	Pass
● Existing Configuration	24.9%	14.1%	6.6%	3.4	Pass	15.2	Pass
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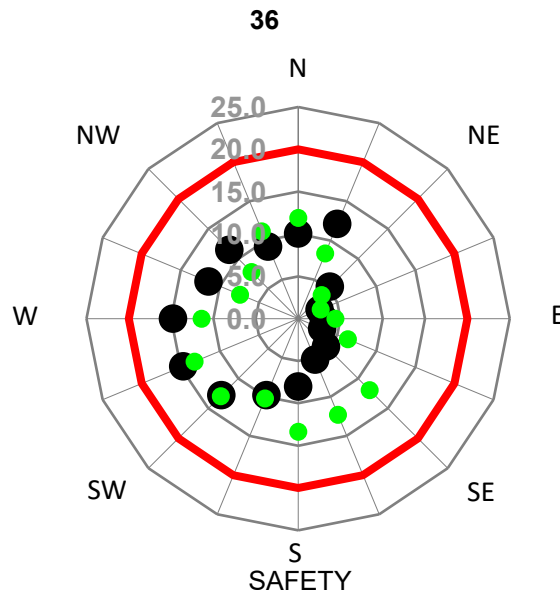
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	41.4%	23.9%	12.5%	4.3	Pass	18.2	Pass
● Existing Configuration	40.4%	21.5%	10.5%	4.1	Pass	17.2	Pass
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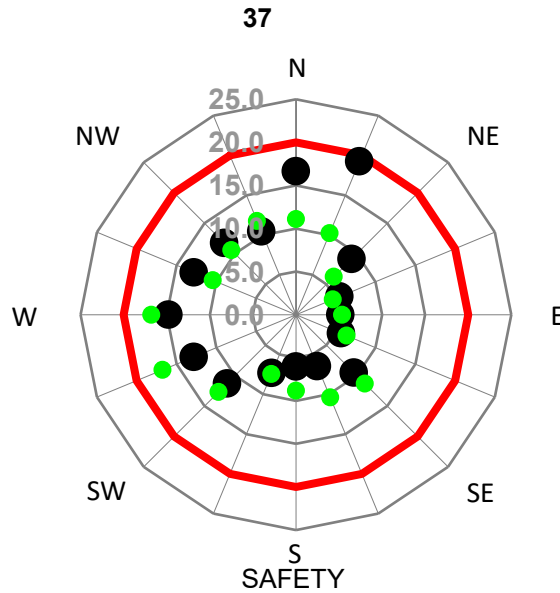
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	26.6%	12.1%	5.2%	3.3	Pass	14.8	Pass
● Existing Configuration	36.4%	18.1%	7.5%	3.9	Pass	13.4	Pass
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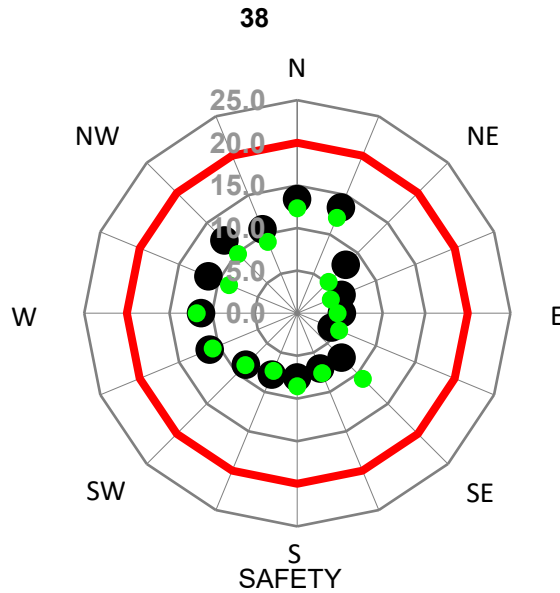
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	34.5%	21.4%	12.2%	4.1	Pass	19.3	Pass
● Existing Configuration	33.3%	16.0%	7.2%	3.7	Pass	16.8	Pass
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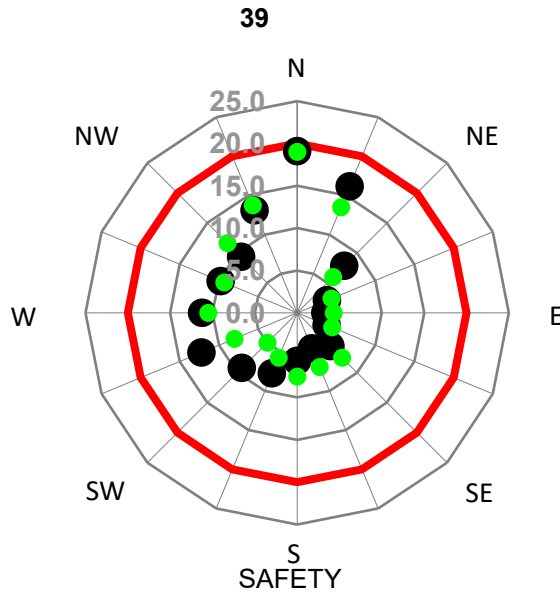
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	27.5%	13.1%	5.4%	3.4	Pass	13.4	Pass
● Existing Configuration	26.4%	10.4%	3.7%	3.4	Pass	12.3	Pass
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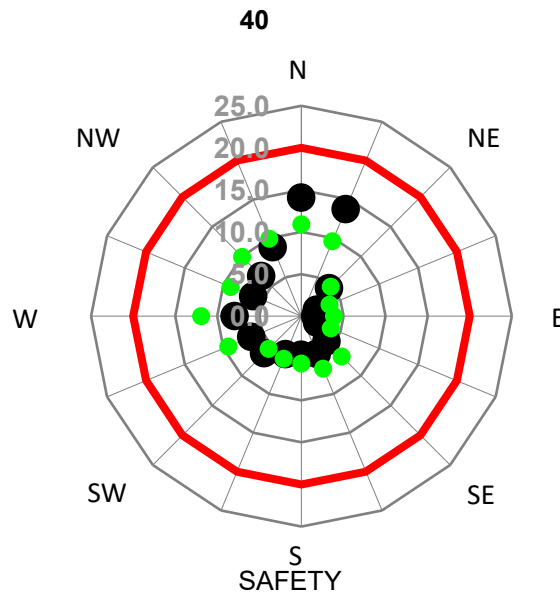
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	32.5%	19.8%	12.4%	4.0	Pass	19.1	Pass
● Existing Configuration	30.4%	17.8%	11.4%	3.7	Pass	19.0	Pass
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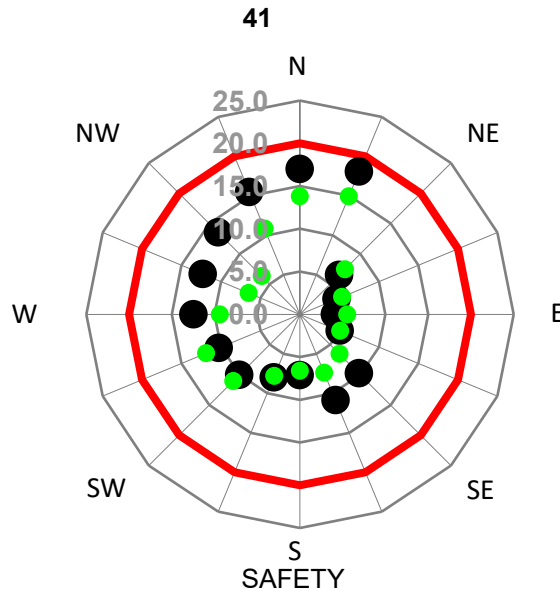
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	17.4%	9.4%	4.1%	2.8	Pass	14.1	Pass
● Existing Configuration	18.1%	6.9%	1.9%	2.9	Pass	11.9	Pass
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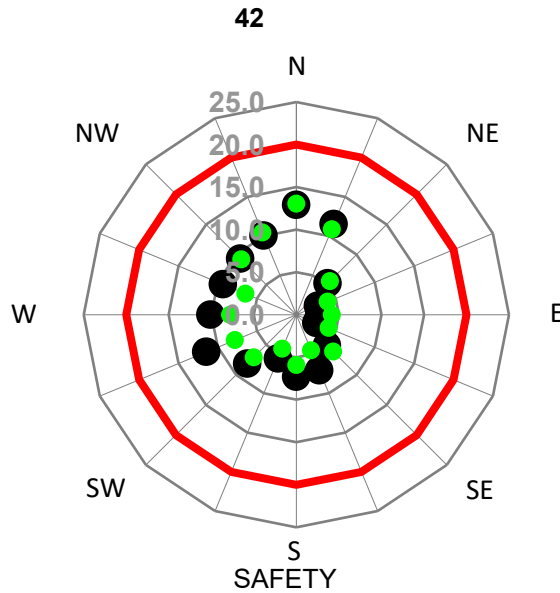
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	35.6%	21.1%	12.0%	4.1	Pass	18.1	Pass
● Existing Configuration	25.6%	12.9%	5.4%	3.4	Pass	14.9	Pass
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Test Location



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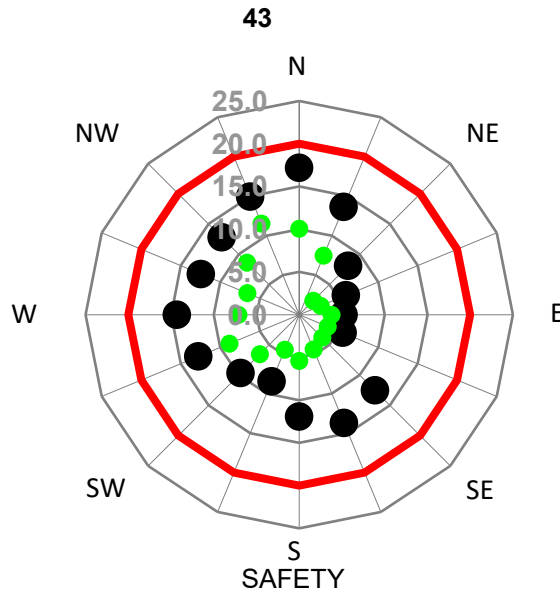
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.2%	10.1%	3.6%	3.2	Pass	12.9	Pass
● Existing Configuration	17.8%	8.2%	3.0%	2.8	Pass	13.0	Pass
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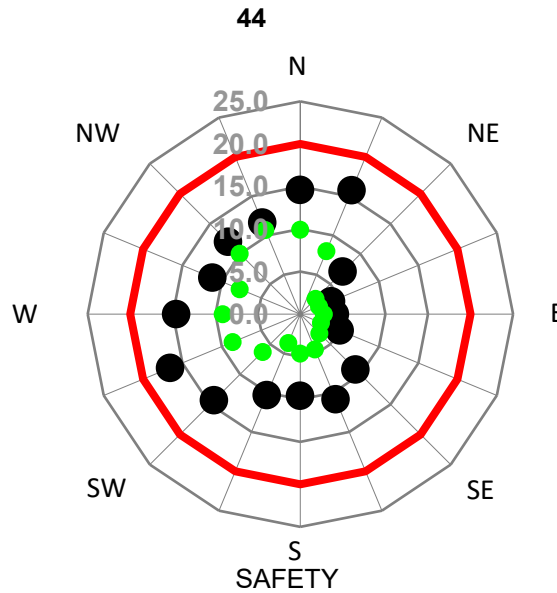
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	44.9%	27.1%	14.8%	4.5	Pass	17.2	Pass
● Existing Configuration	12.1%	3.8%	0.9%	2.5	Pass	11.6	Pass
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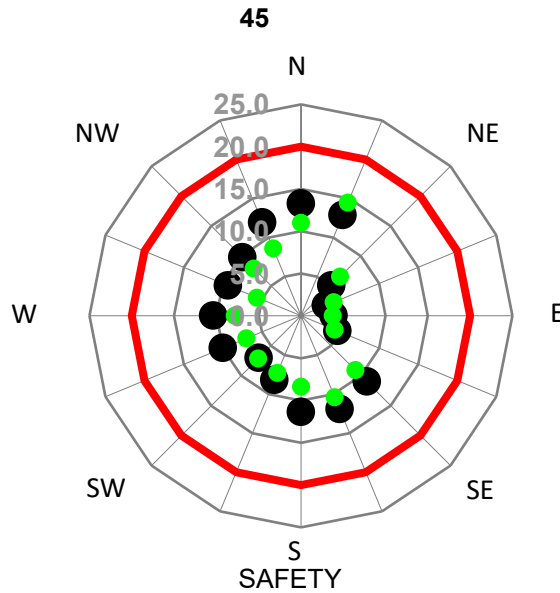
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	40.7%	23.0%	11.2%	4.2	Pass	16.5	Pass
● Existing Configuration	12.9%	4.3%	0.9%	2.5	Pass	10.7	Pass
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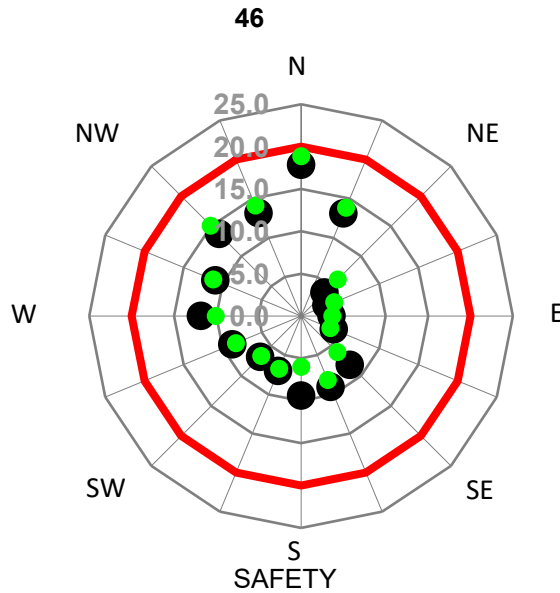
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	32.8%	16.0%	6.1%	3.7	Pass	13.3	Pass
● Existing Configuration	20.2%	6.8%	2.2%	3.0	Pass	14.5	Pass
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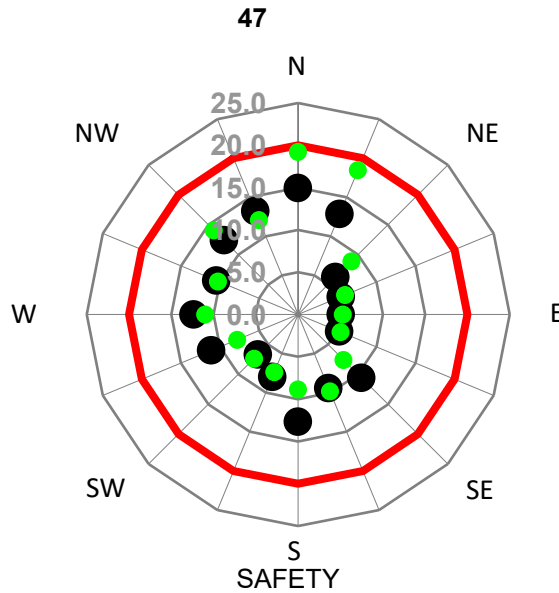
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	34.9%	19.4%	11.1%	3.9	Pass	17.8	Pass
● Existing Configuration	30.7%	18.4%	11.8%	3.8	Pass	18.9	Pass
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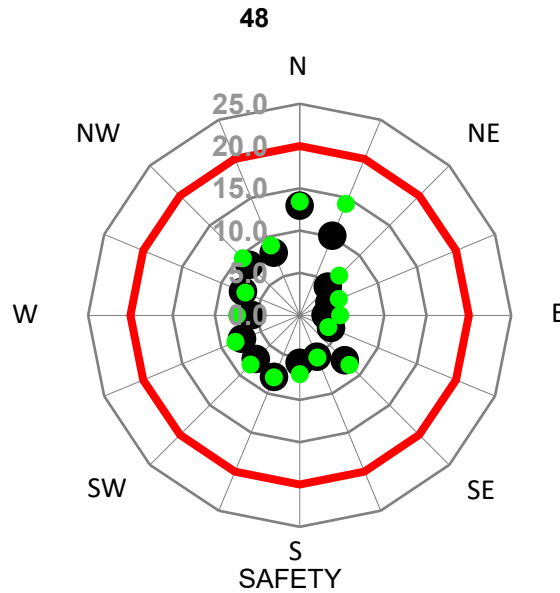
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	37.6%	21.0%	9.5%	4.1	Pass	15.0	Pass
● Existing Configuration	36.3%	20.4%	12.6%	4.0	Pass	19.2	Pass
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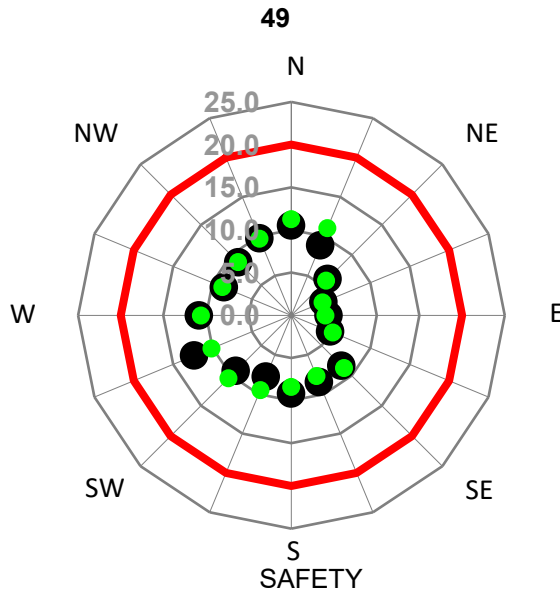
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	16.9%	7.1%	2.5%	2.8	Pass	12.9	Pass
● Existing Configuration	21.2%	9.6%	3.9%	3.1	Pass	14.2	Pass
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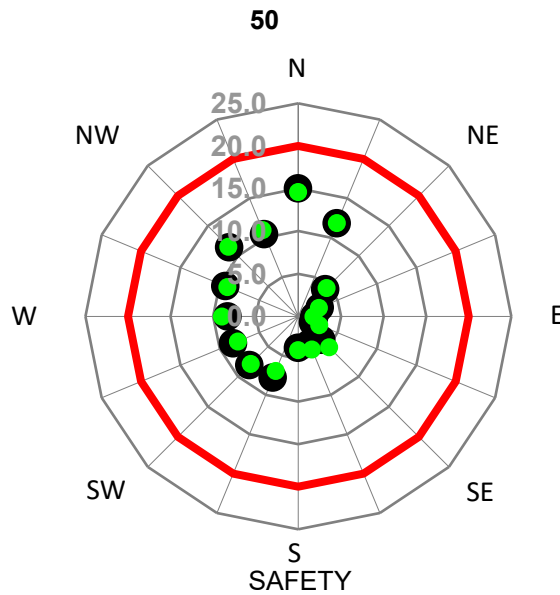
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	24.6%	8.5%	2.1%	3.2	Pass	12.3	Pass
● Existing Configuration	24.9%	8.9%	2.5%	3.3	Pass	11.3	Pass
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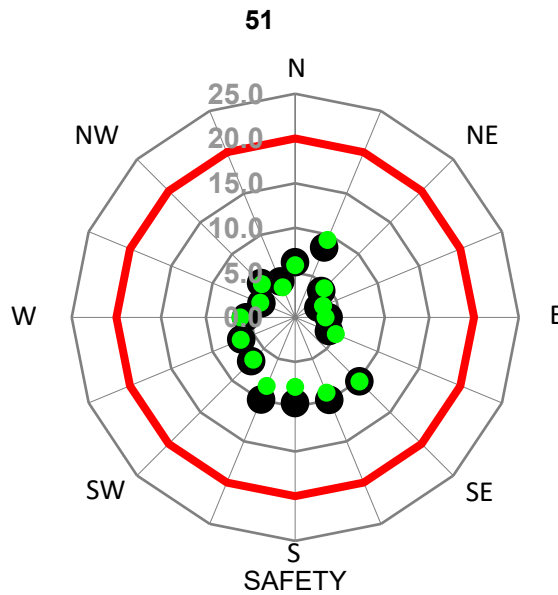
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	22.3%	12.3%	5.3%	3.2	Pass	15.0	Pass
● Existing Configuration	21.7%	11.9%	5.0%	3.1	Pass	14.6	Pass
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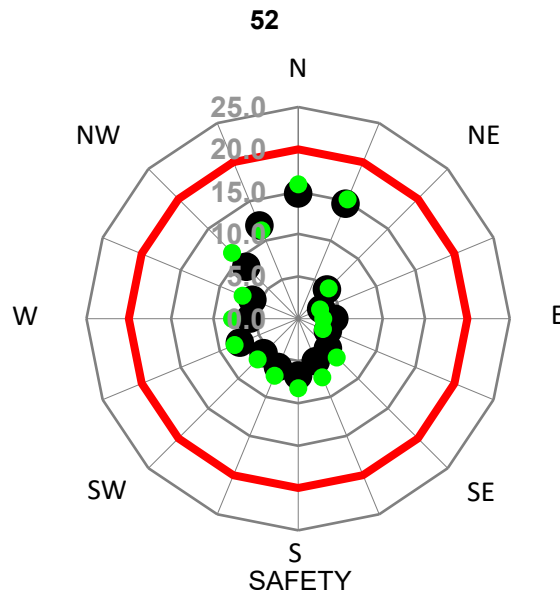
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	11.2%	3.4%	0.8%	2.4	Pass	10.2	Pass
● Existing Configuration	7.7%	1.8%	0.5%	2.2	Pass	10.2	Pass
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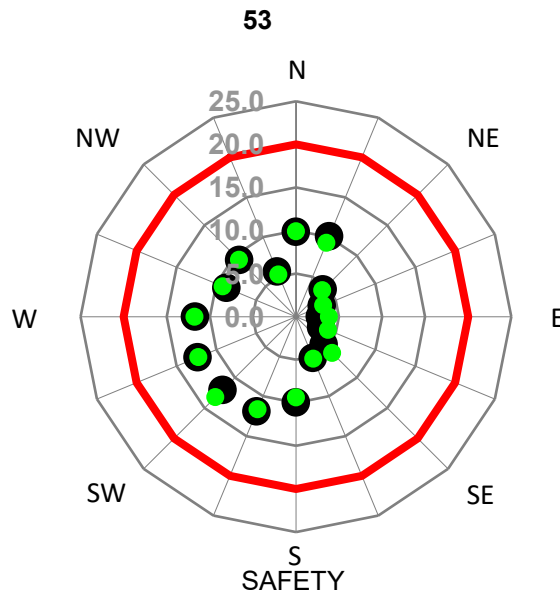
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	20.2%	11.3%	5.4%	3.0	Pass	14.8	Pass
● Existing Configuration	26.1%	13.8%	6.9%	3.4	Pass	15.9	Pass
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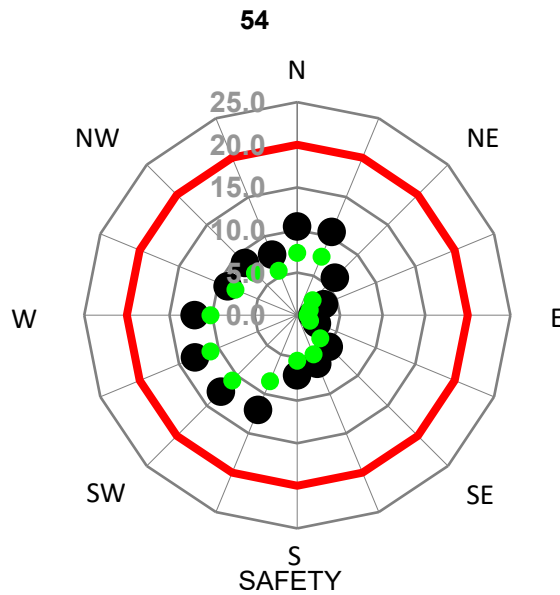
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	24.7%	10.0%	3.1%	3.3	Pass	12.3	Pass
● Existing Configuration	24.8%	10.0%	3.3%	3.2	Pass	13.2	Pass
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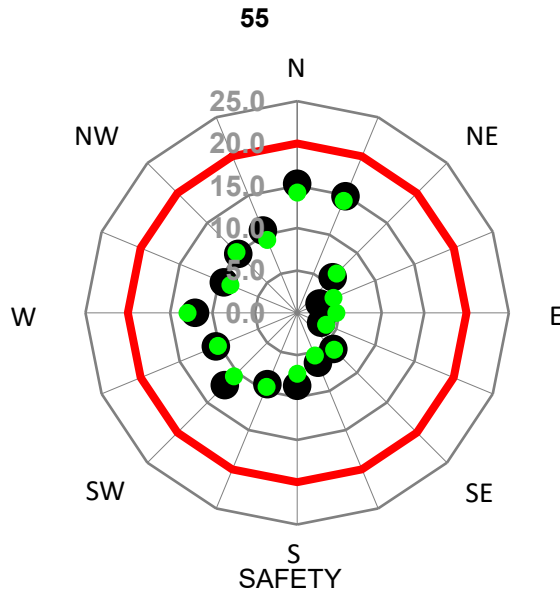
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.6%	9.8%	3.5%	3.2	Pass	13.0	Pass
● Existing Configuration	10.9%	3.5%	1.0%	2.4	Pass	11.0	Pass
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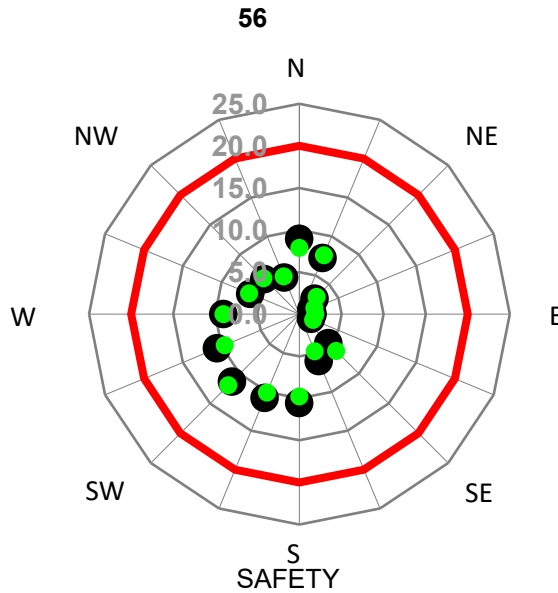
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	31.8%	16.7%	7.3%	3.7	Pass	15.2	Pass
● Existing Configuration	28.1%	14.4%	6.1%	3.5	Pass	14.3	Pass
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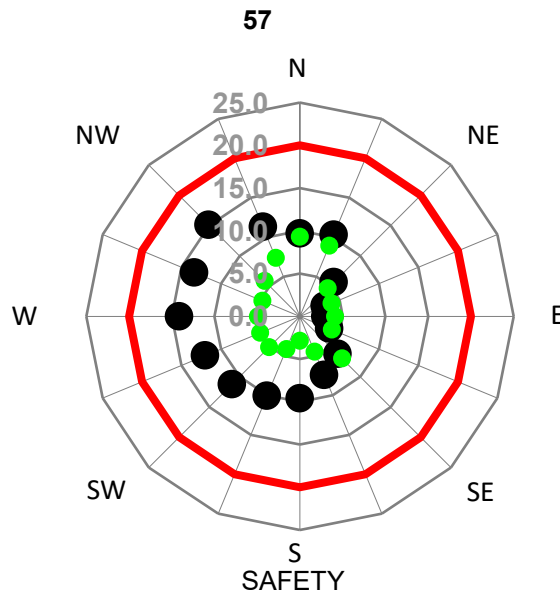
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	19.0%	6.5%	1.6%	2.9	Pass	11.3	Pass
● Existing Configuration	15.9%	4.8%	1.2%	2.8	Pass	11.9	Pass
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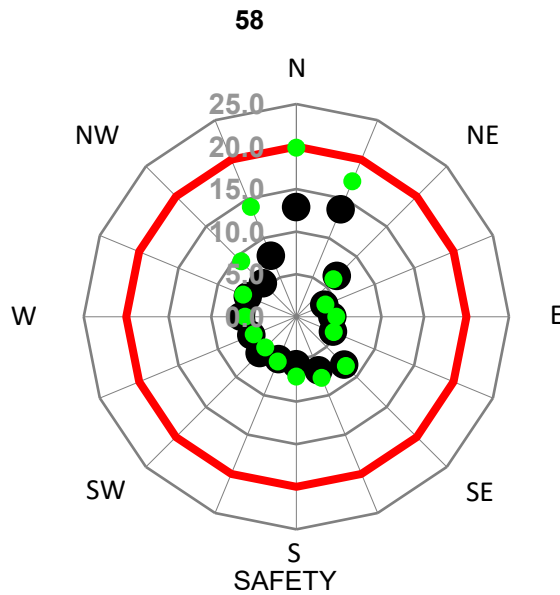
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	28.5%	12.3%	4.7%	3.4	Pass	15.1	Pass
● Existing Configuration	6.8%	1.7%	0.2%	2.1	Pass	9.3	Pass
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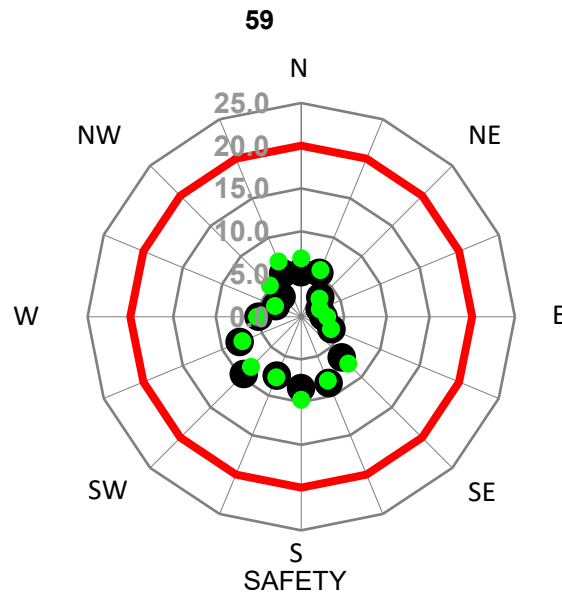
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	15.9%	7.1%	3.0%	2.7	Pass	13.6	Pass
● Existing Configuration	27.9%	17.5%	12.0%	3.7	Pass	19.9	Pass
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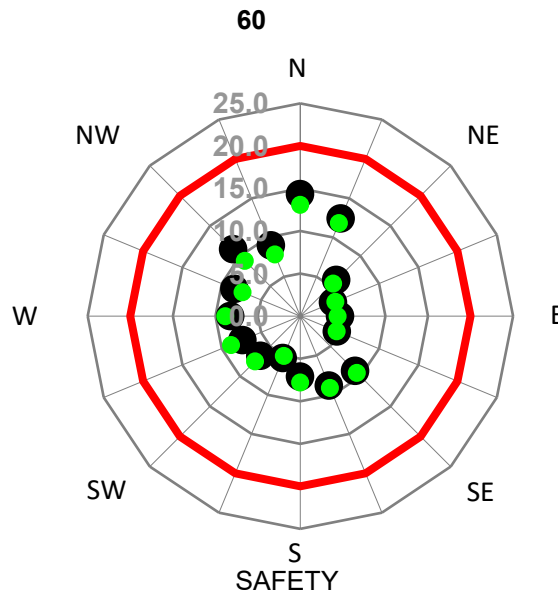
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	7.7%	1.6%	0.3%	2.2	Pass	9.5	Pass
● Existing Configuration	10.4%	2.4%	0.3%	2.5	Pass	9.7	Pass
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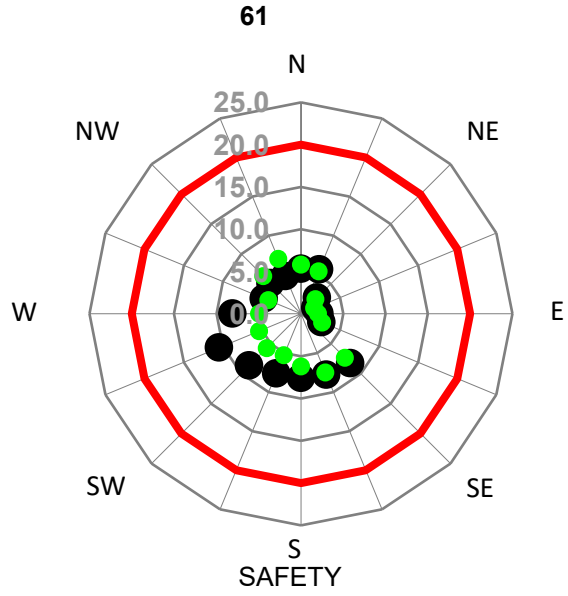
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	22.6%	11.3%	4.7%	3.2	Pass	14.4	Pass
● Existing Configuration	22.5%	9.3%	3.3%	3.1	Pass	13.1	Pass
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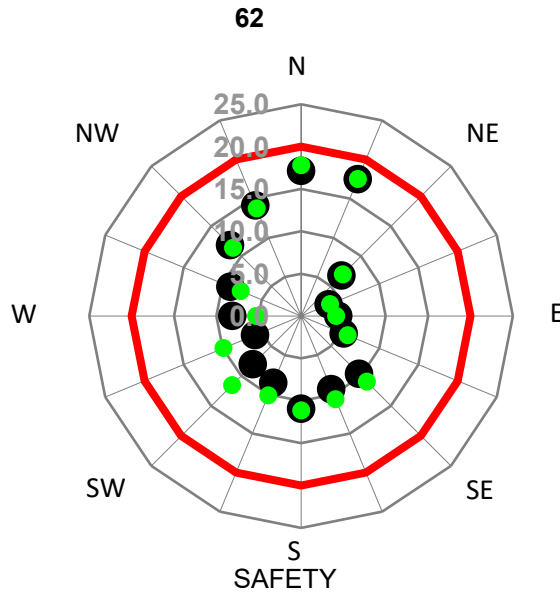
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	8.4%	2.1%	0.4%	2.3	Pass	10.5	Pass
● Existing Configuration	2.8%	0.4%	0.0%	1.9	Pass	7.5	Pass
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Test Location



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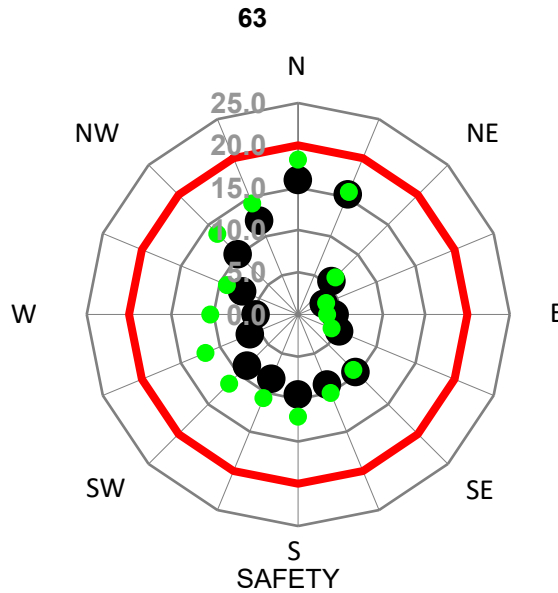
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	37.1%	21.4%	12.7%	4.1	Pass	17.5	Pass
● Existing Configuration	42.2%	25.1%	15.2%	4.4	Pass	17.8	Pass
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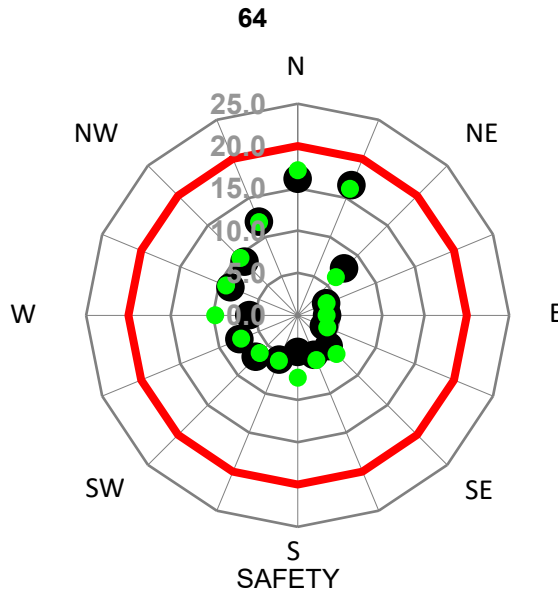
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	30.3%	16.8%	9.5%	3.7	Pass	15.9	Pass
● Existing Configuration	46.1%	27.5%	16.2%	4.6	Pass	18.3	Pass
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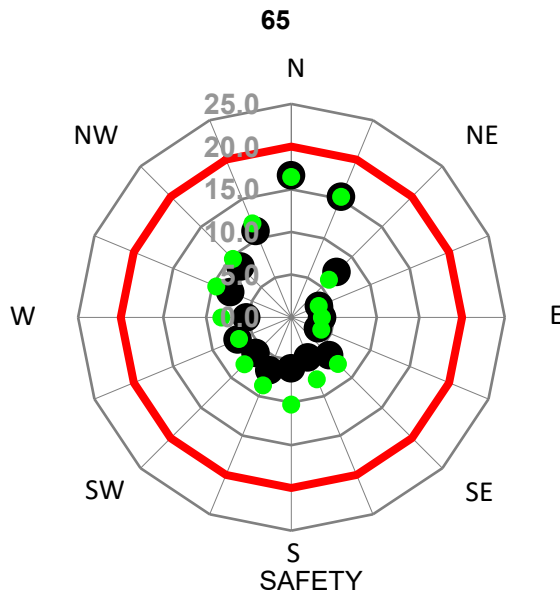
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.9%	15.1%	9.5%	3.4	Pass	16.6	Pass
● Existing Configuration	27.5%	16.1%	9.9%	3.6	Pass	17.1	Pass
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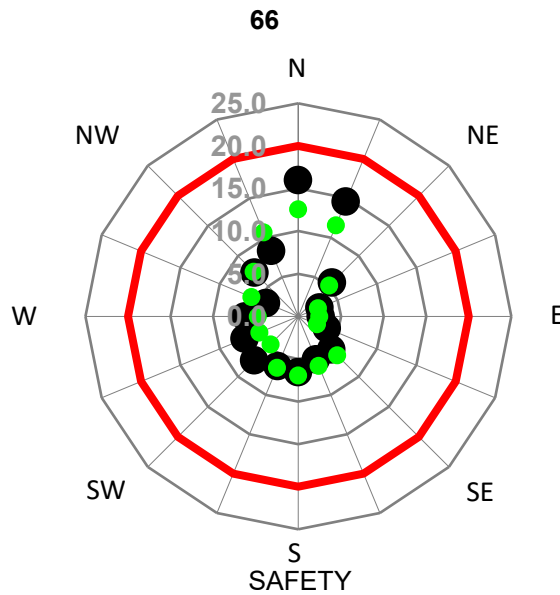
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	23.9%	15.0%	9.8%	3.3	Pass	16.6	Pass
● Existing Configuration	34.1%	19.0%	11.3%	3.9	Pass	16.5	Pass
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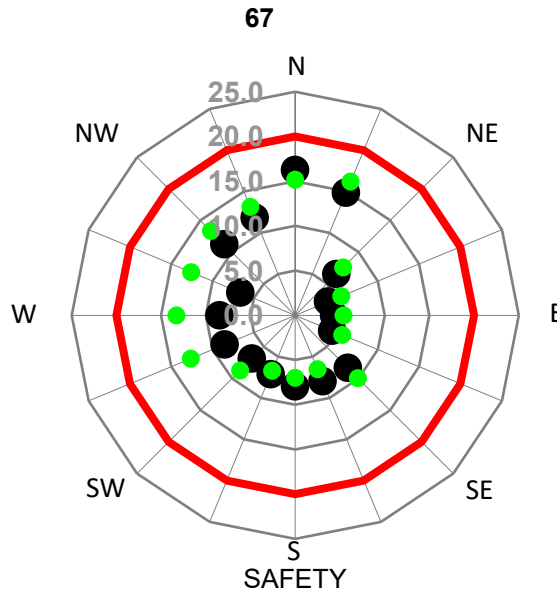
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	22.4%	13.5%	8.8%	3.2	Pass	16.0	Pass
● Existing Configuration	17.4%	8.6%	3.4%	2.8	Pass	12.6	Pass
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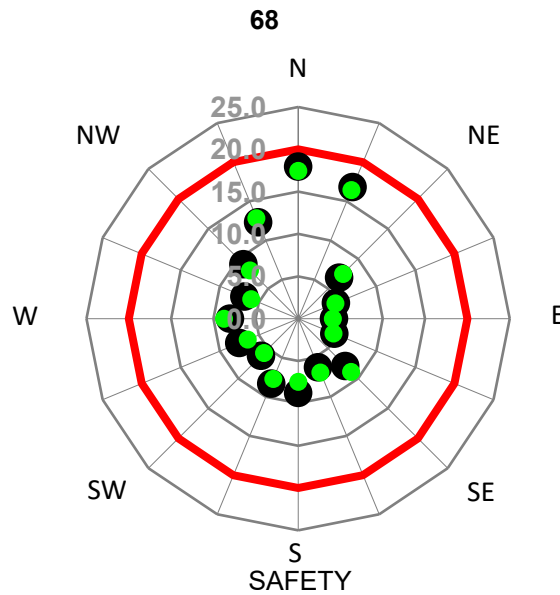
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	30.1%	16.8%	10.5%	3.6	Pass	16.2	Pass
● Existing Configuration	31.9%	18.1%	9.2%	3.8	Pass	16.2	Pass
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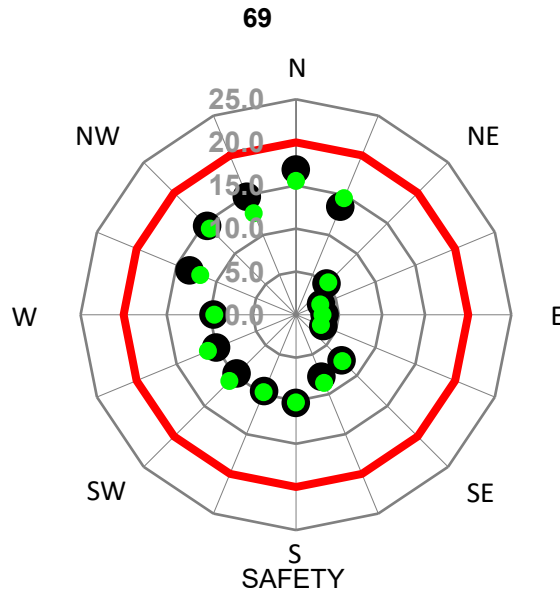
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	31.6%	17.9%	11.6%	3.8	Pass	17.9	Pass
● Existing Configuration	28.9%	17.0%	11.3%	3.6	Pass	17.5	Pass
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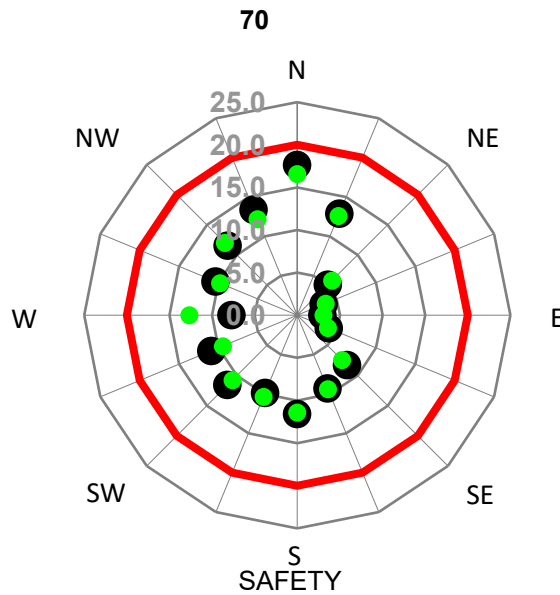
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	36.6%	20.1%	10.6%	4.0	Pass	16.8	Pass
● Existing Configuration	37.4%	20.6%	10.9%	4.0	Pass	15.5	Pass
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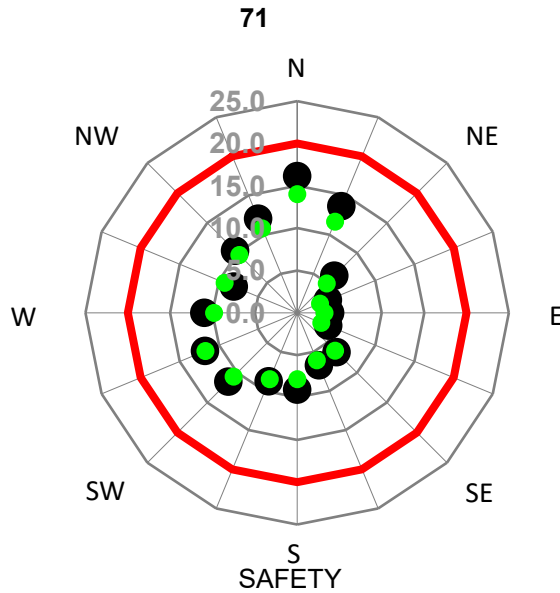
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	41.6%	24.2%	14.0%	4.4	Pass	17.6	Pass
● Existing Configuration	41.5%	23.6%	12.9%	4.3	Pass	16.6	Pass
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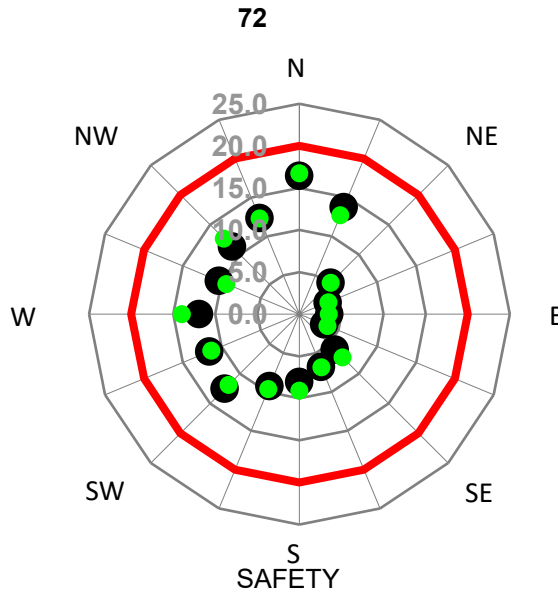
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	34.1%	18.6%	9.5%	3.9 m/s	Pass	16.1 m/s	Pass
● Existing Configuration	27.7%	13.8%	5.4%	3.5 m/s	Pass	14.0 m/s	Pass
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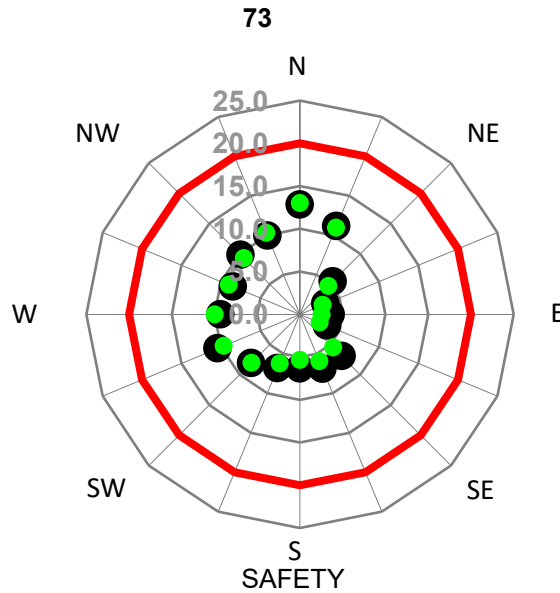
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	35.4%	20.0%	11.4%	4.0	Pass	16.4	Pass
● Existing Configuration	37.7%	21.2%	11.9%	4.1	Pass	16.7	Pass
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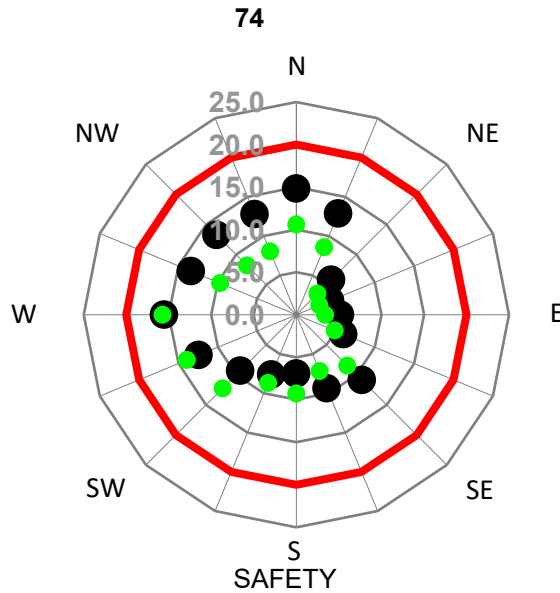
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	21.6%	9.3%	3.2%	3.1	Pass	12.8	Pass
● Existing Configuration	20.8%	9.5%	3.4%	3.1	Pass	13.0	Pass
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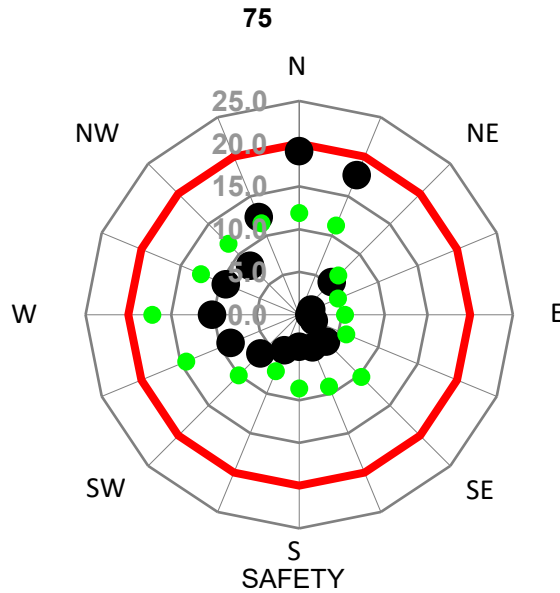
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	33.9%	19.0%	9.4%	3.9	Pass	15.5	Pass
● Existing Configuration	28.3%	11.7%	4.4%	3.4	Pass	15.7	Pass
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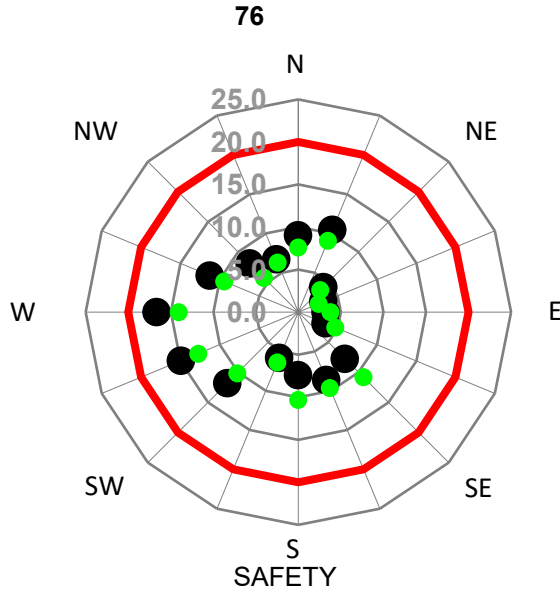
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	27.9%	17.4%	11.3%	3.7	Pass	19.1	Pass
● Existing Configuration	33.0%	15.9%	7.4%	3.7	Pass	17.2	Pass
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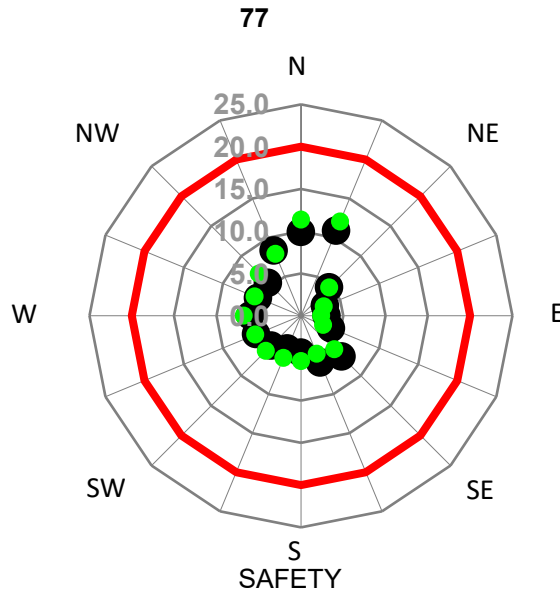
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	22.9%	10.8%	5.4%	3.2	Pass	16.7	Pass
● Existing Configuration	21.8%	8.9%	3.3%	3.1	Pass	14.1	Pass
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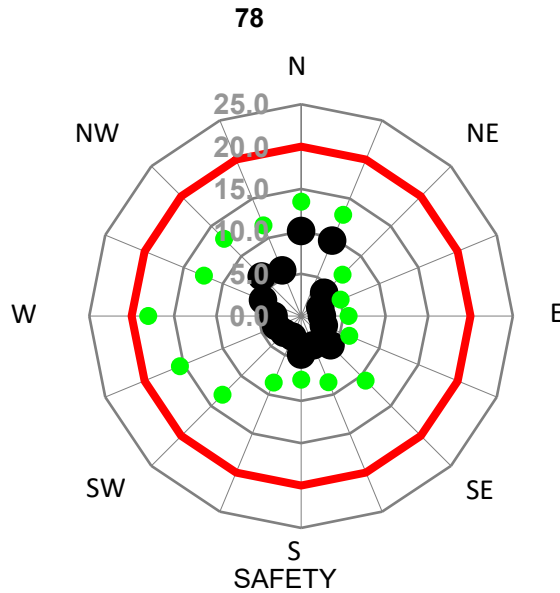
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	9.4%	2.8%	0.6%	2.3	Pass	10.9	Pass
● Existing Configuration	12.9%	4.7%	1.5%	2.5	Pass	12.1	Pass
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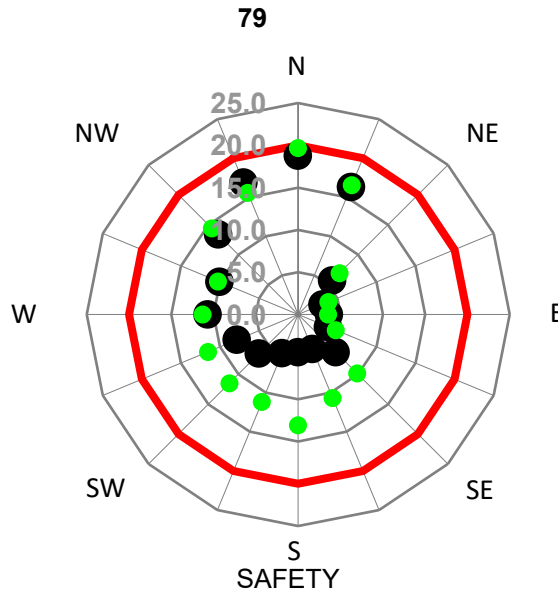
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	8.0%	2.4%	0.4%	2.0	Pass	10.0	Pass
● Existing Configuration	35.7%	19.8%	10.1%	4.0	Pass	18.0	Pass
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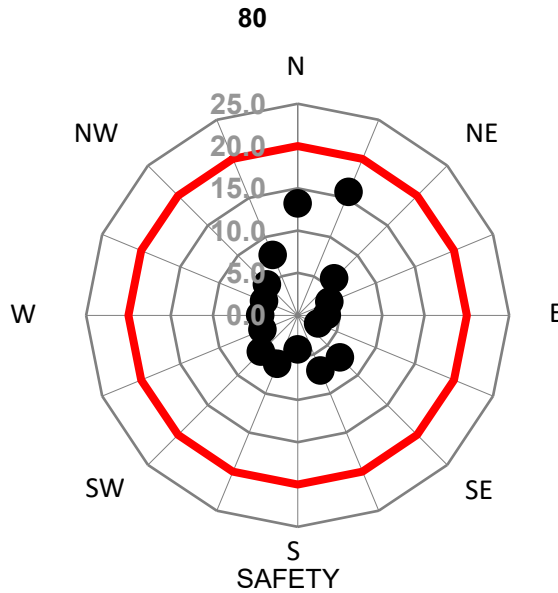
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	29.4%	18.7%	12.4%	3.8	Pass	18.8	Pass
● Existing Configuration	49.9%	31.2%	19.2%	4.9	Pass	19.7	Pass
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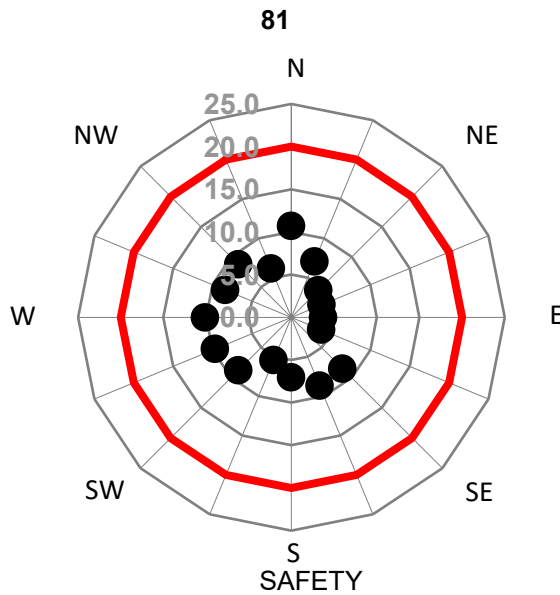
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	15.9%	7.9%	3.6%	2.6	Pass	15.7	Pass
● Existing Configuration							
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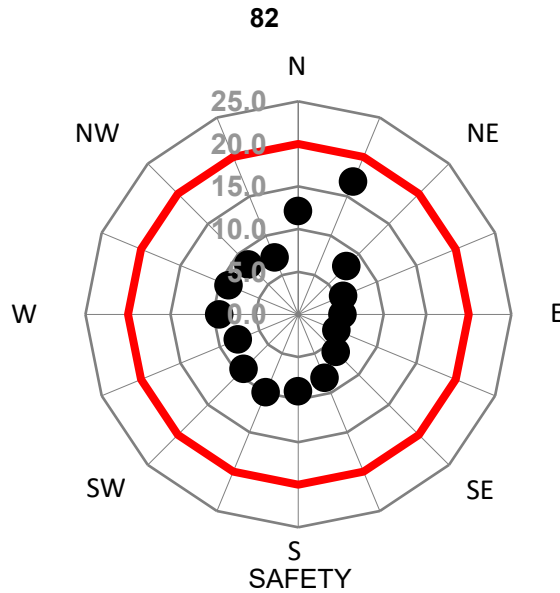
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	17.7%	5.6%	1.1%	2.9	Pass	10.7	Pass
● Existing Configuration							
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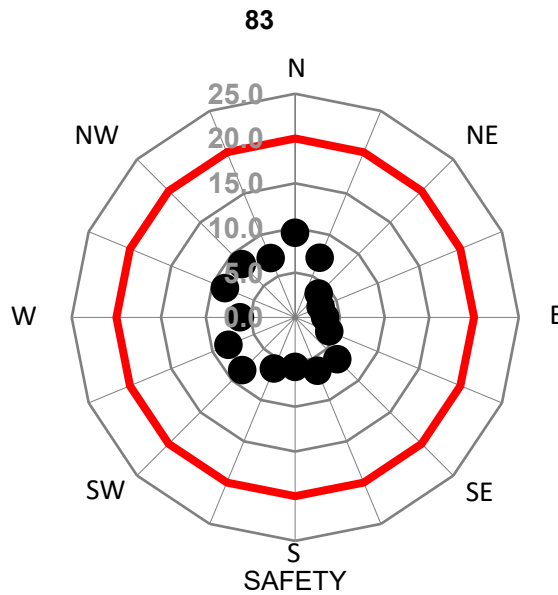
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	25.2%	9.4%	3.5%	3.3	Pass	16.9	Pass
● Existing Configuration							
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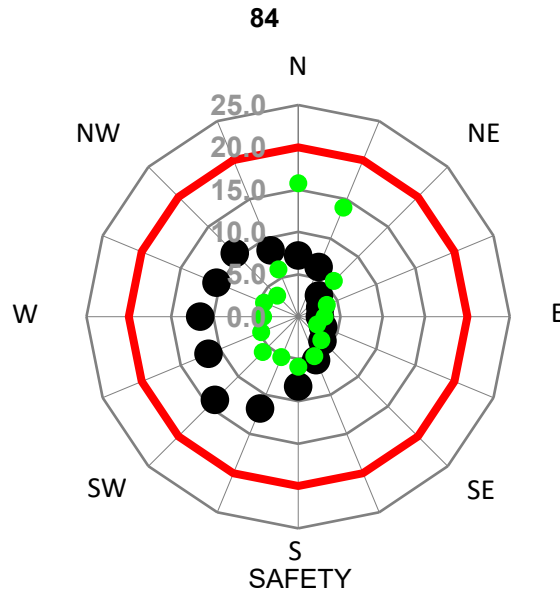
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	10.3%	2.5%	0.4%	2.5	Pass	9.5	Pass
● Existing Configuration							
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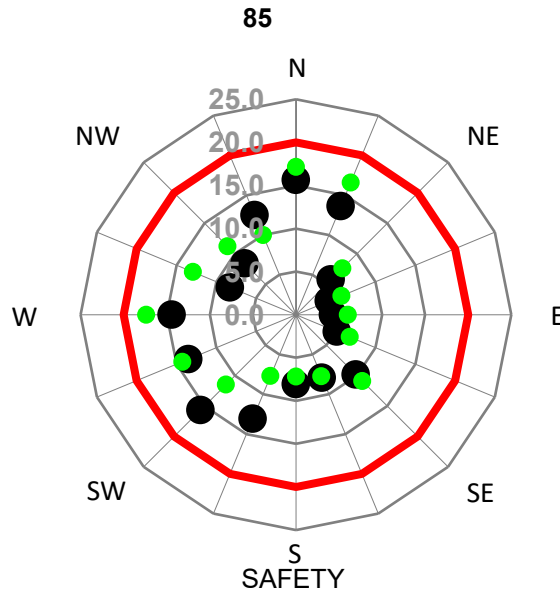
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	18.5%	7.5%	3.0%	2.9	Pass	13.9	Pass
● Existing Configuration	17.0%	10.8%	5.7%	2.7	Pass	15.8	Pass
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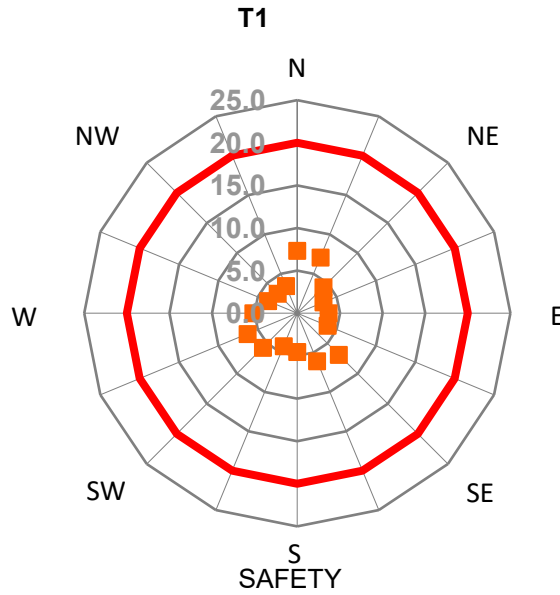
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	37.6%	21.5%	11.0%	4.1	Pass	15.6	Pass
●	38.2%	23.4%	13.9%	4.3	Pass	17.4	Pass
■ Proposed Configuration + wind mitigation strategies							
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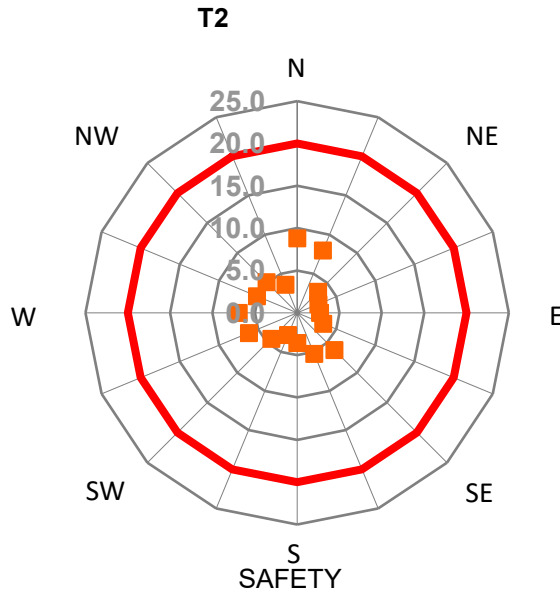
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	3.1%	0.3%	0.0%	1.9	Pass	7.3	Pass
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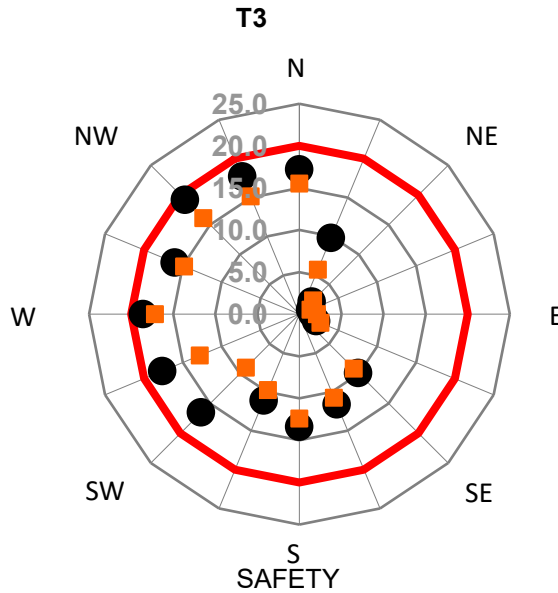
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	5.5%	0.9%	0.1%	2.0	Pass	8.8	Pass
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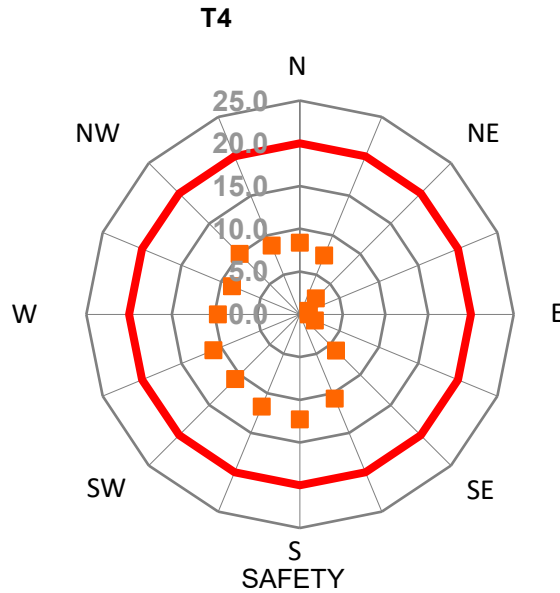
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	52.7%	34.8%	21.1%	5.1	Fail	19.2	Pass
●							
■ Proposed Configuration + wind mitigation strategies	42.8%	25.5%	12.6%	4.4	Pass	17.2	Pass
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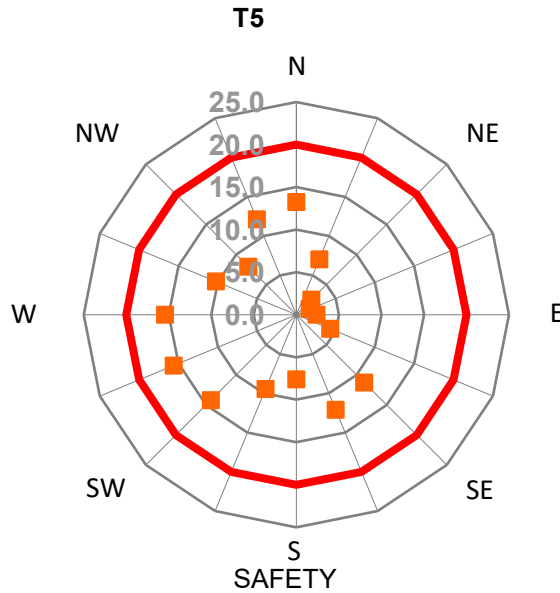
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year) m/s	Result (compared against Target wind speed of 5m/s) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %					
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	24.9%	10.5%	3.4%	3.3	Pass	12.3	Pass
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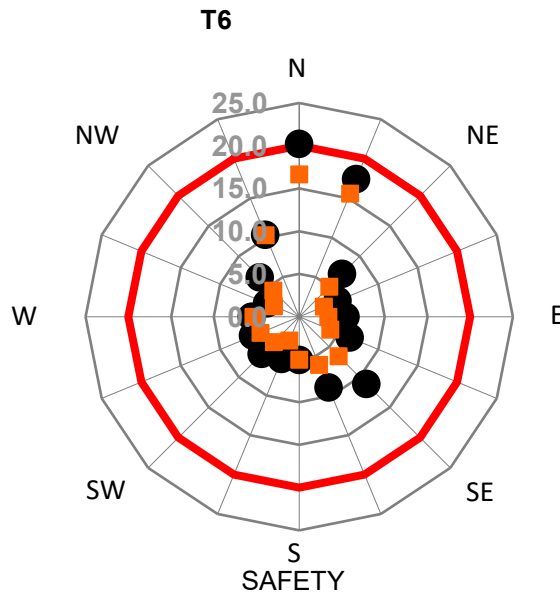
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year) m/s	Result (compared against Target wind speed of 5m/s) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %					
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	34.1%	18.1%	8.7%	3.9	Pass	15.6	Pass
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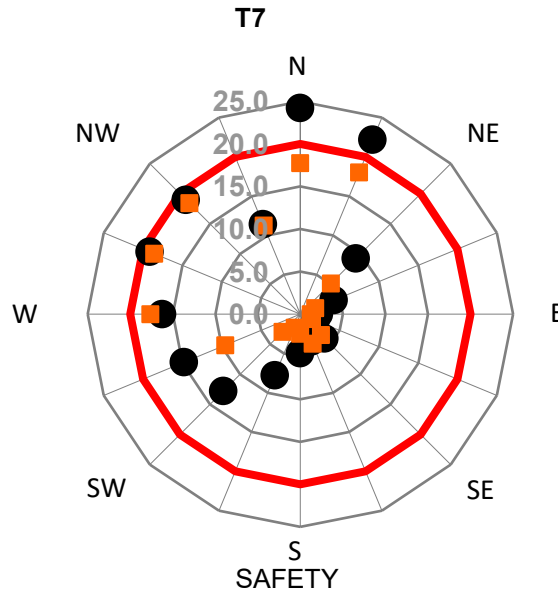
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	26.8%	17.2%	11.8%	3.6	NA - Safety criterion failed	20.2	Fail
●							
■ Proposed Configuration + wind mitigation strategies	19.3%	12.8%	7.5%	2.9	Pass	16.6	Pass
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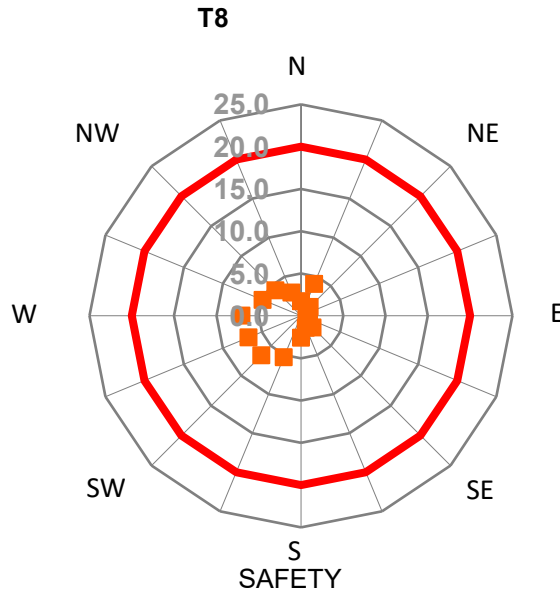
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	45.4%	32.9%	23.1%	5.4	NA - Safety criterion failed	24.2	Fail
●							
■ Proposed Configuration + wind mitigation strategies	32.6%	21.9%	14.1%	4.2	Pass	18.6	Pass
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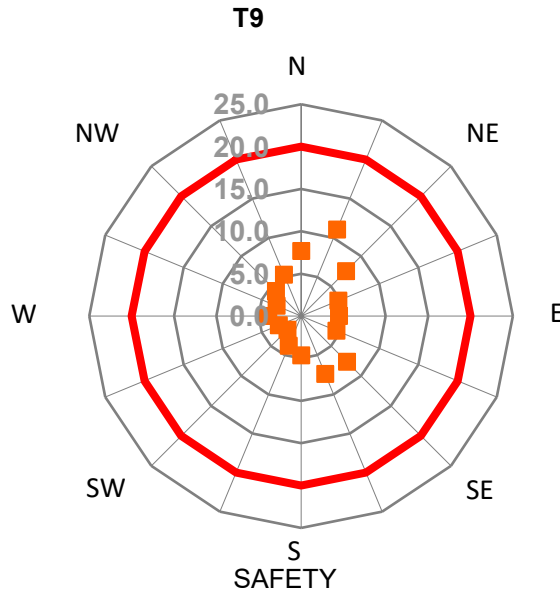
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	1.4%	0.2%	0.0%	1.3	Pass	7.0	Pass
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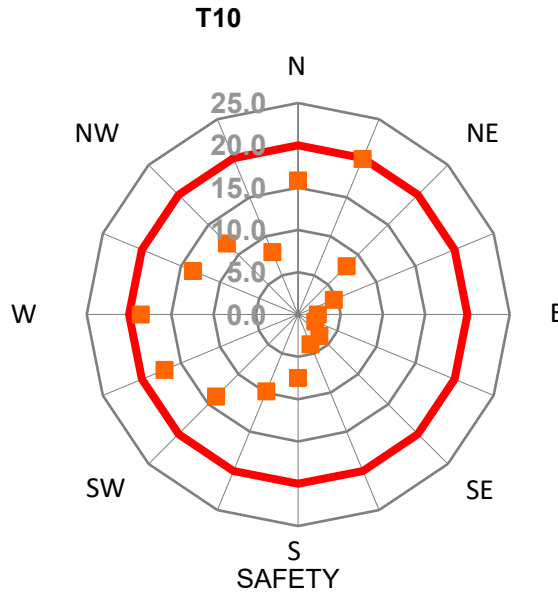
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	5.0%	1.4%	0.4%	1.9	Pass	11.0	Pass
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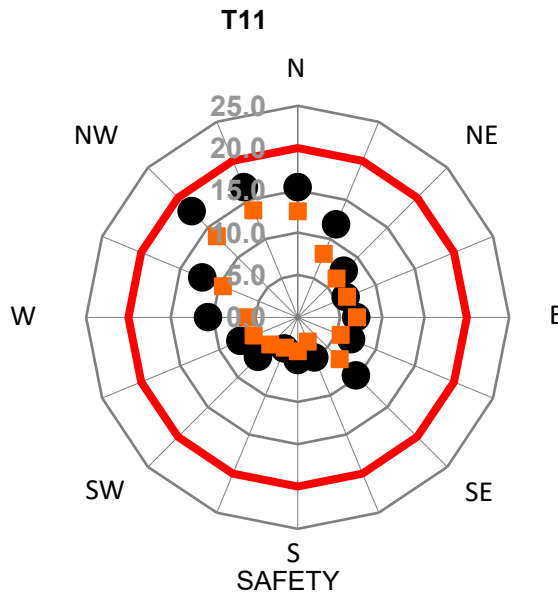
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	37.4%	23.3%	13.5%	4.3	Pass	19.9	Pass
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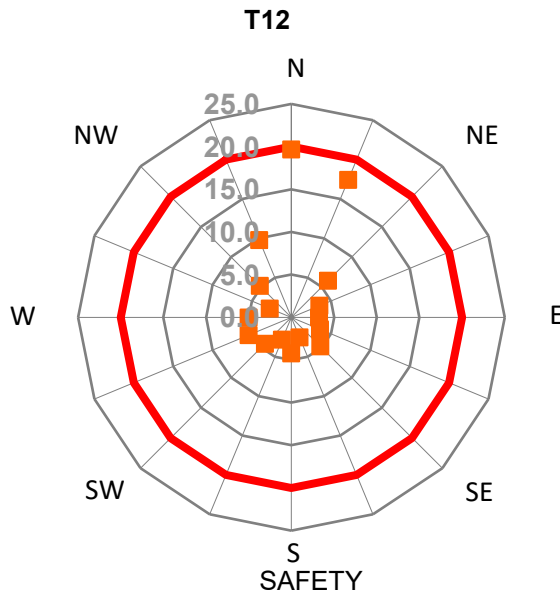
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	26.4%	16.0%	8.1%	3.6	Pass	17.7	Pass
●							
■ Proposed Configuration + wind mitigation strategies	17.1%	8.0%	3.7%	2.7	Pass	13.7	Pass
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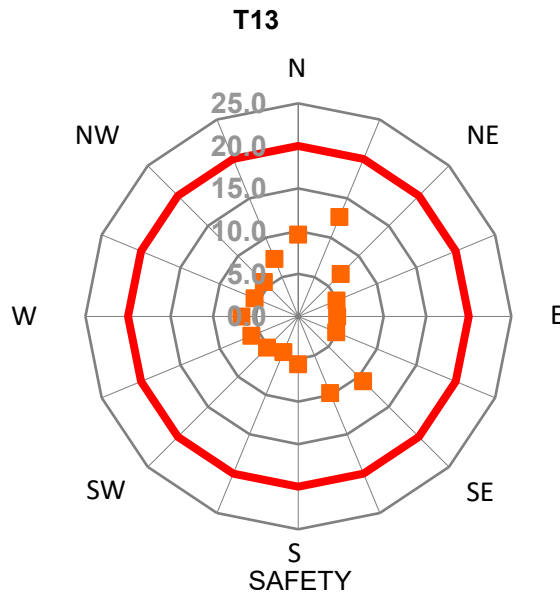


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Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)	m/s				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	22.8%	15.5%	10.8%	3.3	Pass	19.7	Pass
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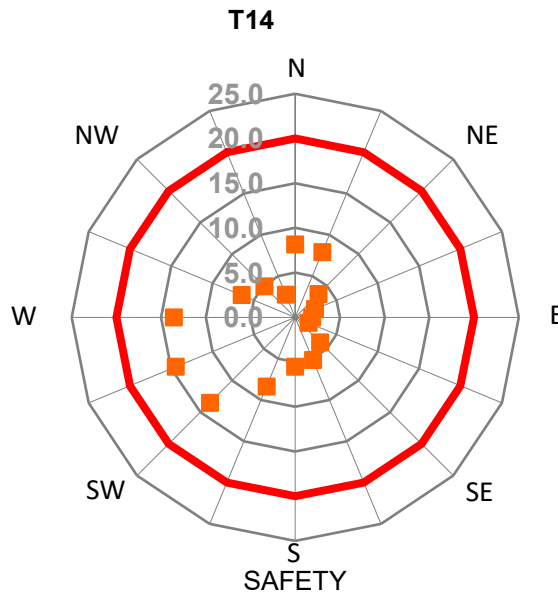
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	11.4%	4.0%	1.2%	2.5	Pass	12.6	Pass
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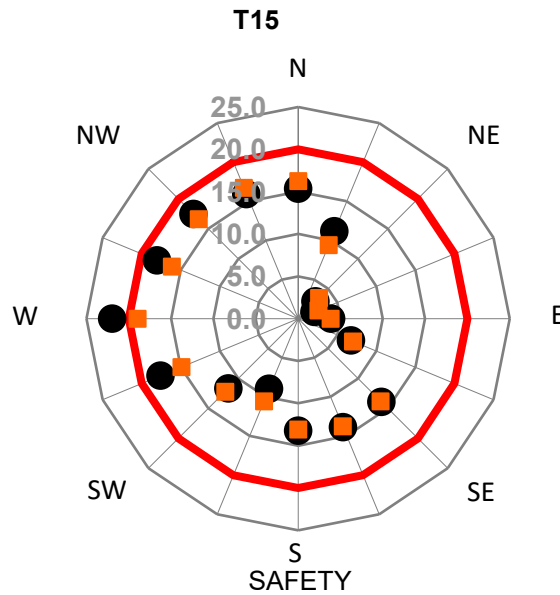
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year) m/s	Result (compared against Target wind speed of 5m/s) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %					
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	15.4%	6.9%	3.3%	2.7	Pass	14.5	Pass
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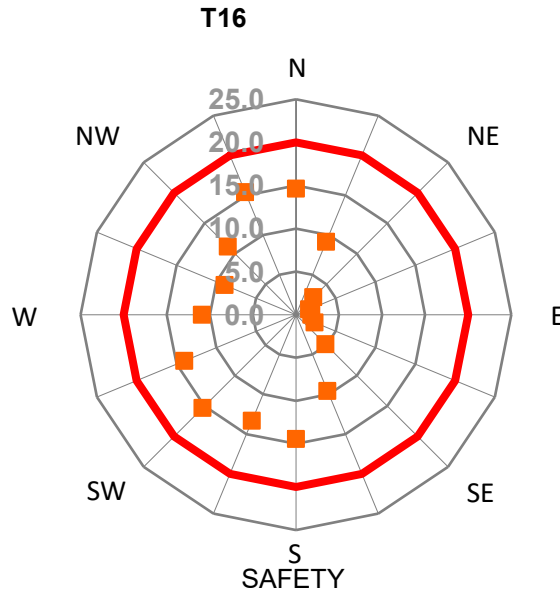
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	51.6%	34.1%	19.6%	5.0	NA - Safety criterion failed	21.9	Fail
■ Proposed Configuration + wind mitigation strategies	51.6%	33.6%	19.4%	5.0	Pass	19.0	Pass
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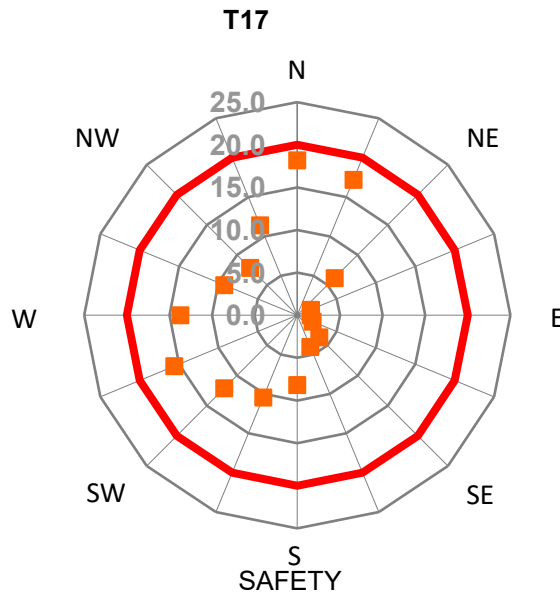
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
●							
●							
■ Proposed Configuration + wind mitigation strategies	42.5%	25.5%	12.5%	4.4	Pass	15.4	Pass
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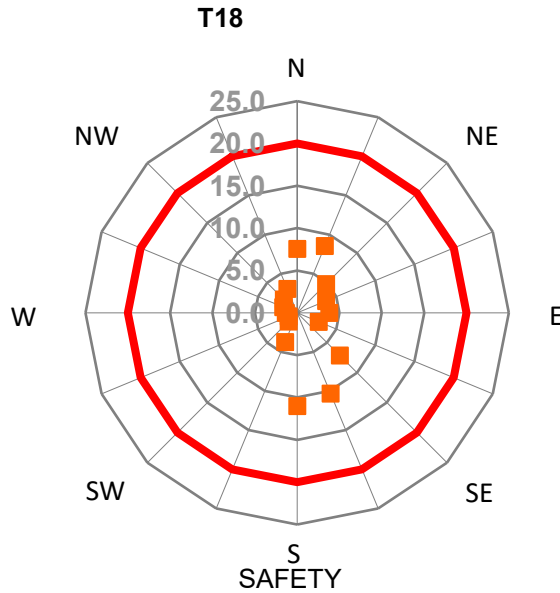
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
●							
●							
■ Proposed Configuration + wind mitigation strategies	37.7%	22.5%	13.4%	4.2	Pass	18.2	Pass
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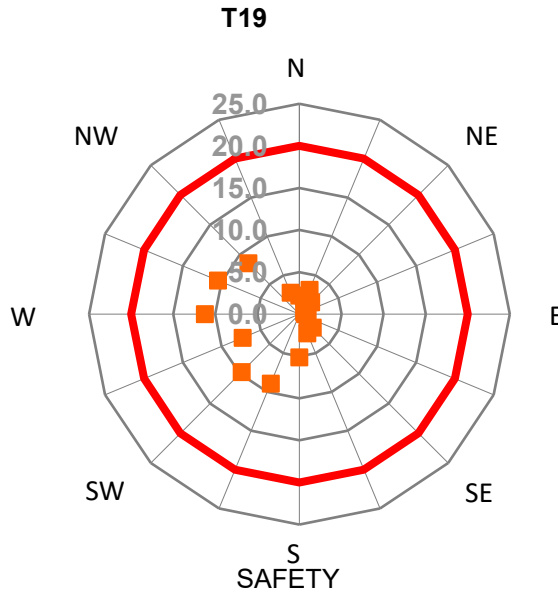
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
●							
●							
■ Proposed Configuration + wind mitigation strategies	11.6%	4.1%	1.0%	2.3	Pass	11.0	Pass
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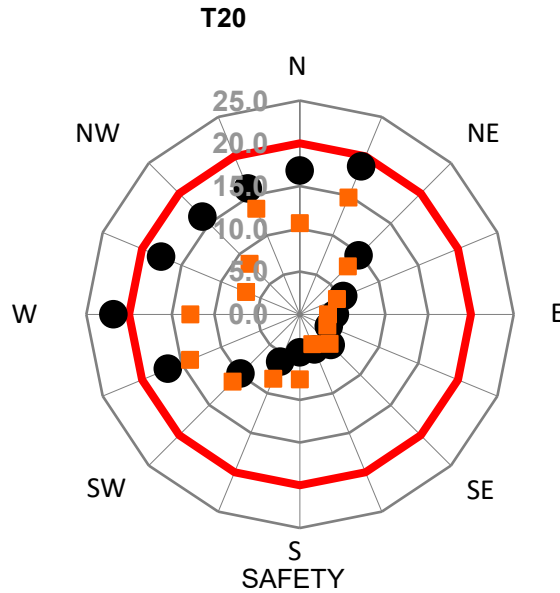
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
●							
●							
■ Proposed Configuration + wind mitigation strategies	8.0%	3.0%	1.0%	2.0	Pass	11.2	Pass
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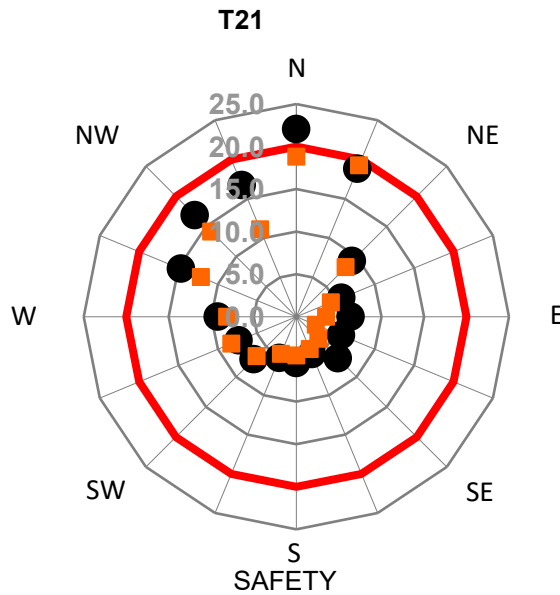
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	38.4%	26.3%	16.9%	4.7	NA - Safety criterion failed	21.8	Fail
● Proposed Configuration + wind mitigation strategies	25.3%	11.1%	4.8%	3.3	Pass	14.8	Pass
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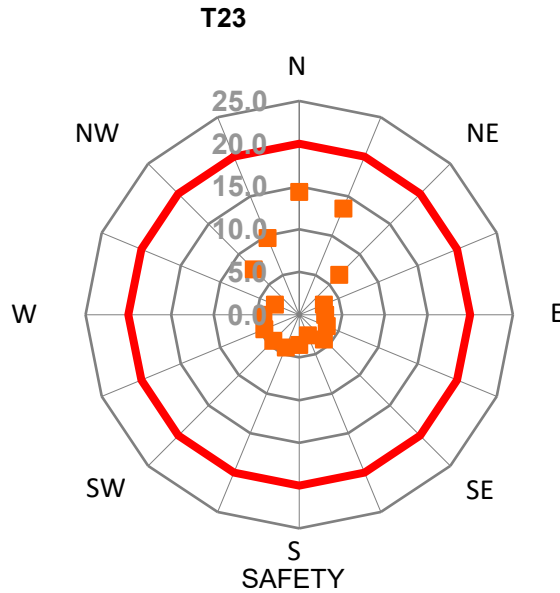
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %				
● Proposed Configuration	33.8%	22.4%	16.1%	4.3	NA - Safety criterion failed	22.0	Fail
● Proposed Configuration + wind mitigation strategies	27.7%	17.7%	11.7%	3.7	Pass	19.3	Pass
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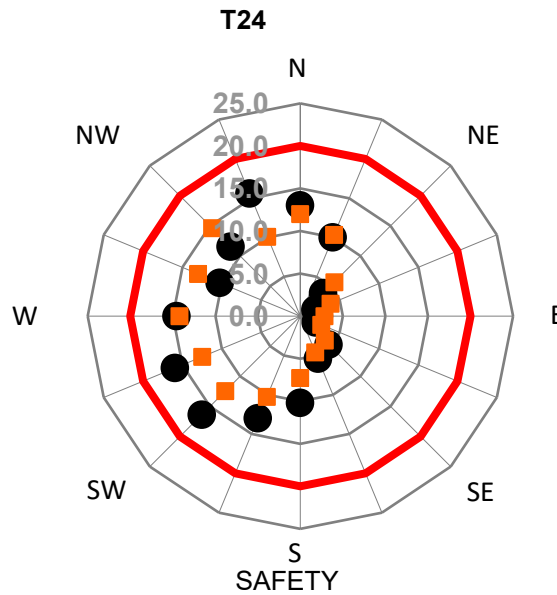
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	16.6%	9.8%	4.4%	2.6	Pass	14.4	Pass
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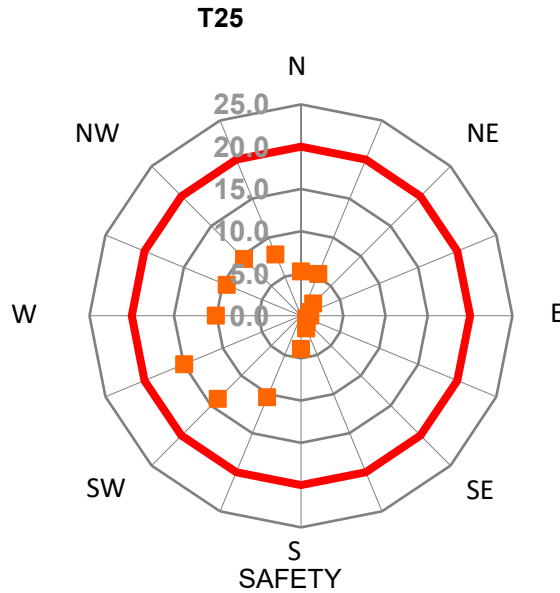
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration	38.4%	21.2%	10.5%	4.1	Pass	16.4	Pass
●							
■ Proposed Configuration + wind mitigation strategies	28.6%	13.6%	5.9%	3.5	Pass	14.6	Pass
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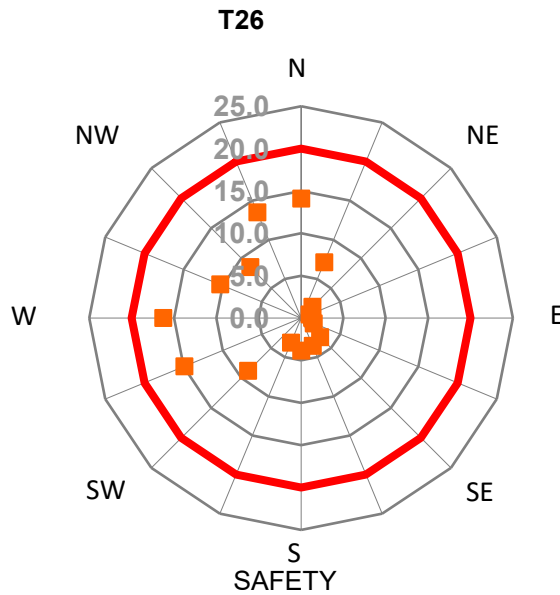
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	13.4%	6.8%	3.1%	2.4	Pass	14.9	Pass
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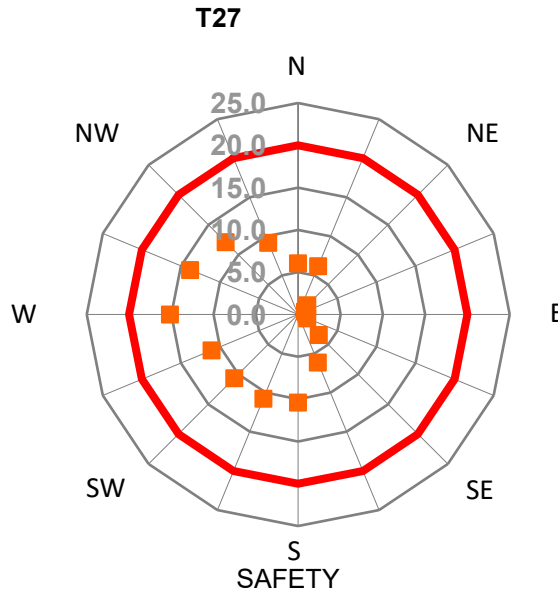
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
%	%	%	m/s	Pass/Fail	m/s	Pass/Fail	
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	26.9%	15.7%	7.8%	3.6	Pass	16.3	Pass
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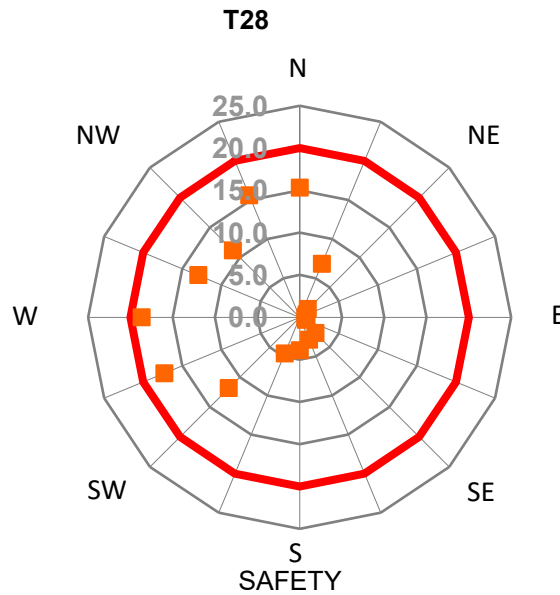
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year) m/s	Result (compared against Target wind speed of 5m/s) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %					
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	21.6%	9.9%	4.1%	3.1	Pass	15.1	Pass
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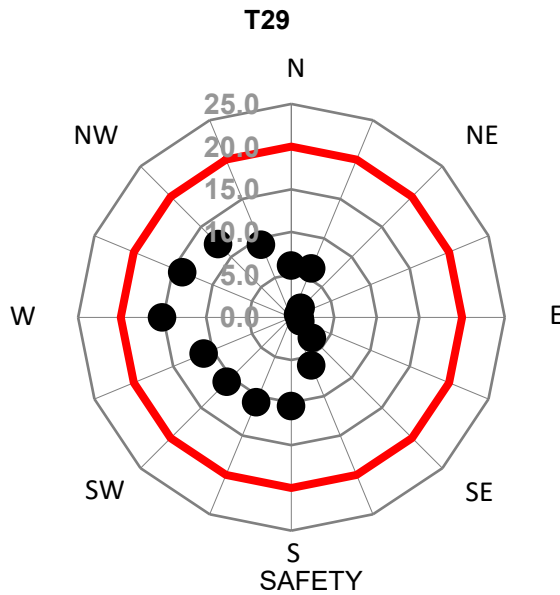
Local peak 3 second gust wind speed (m/s)

Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year) m/s	Result (compared against Target wind speed of 5m/s) Pass/Fail	Peak wind speed (of all wind directions) m/s	Result (compared against Safety wind speed of 20m/s) Pass/Fail
Sitting (3m/s) %	Standing (4m/s) %	Walking (5m/s) %					
● Proposed Configuration							
●							
■ Proposed Configuration + wind mitigation strategies	32.2%	20.9%	11.6%	4.1	Pass	18.7	Pass
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Safety Wind Speed = 20m/s

Configuration	Wind Comfort Criteria				Safety Criterion		
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	21.6%	9.9%	4.1%	3.1	Pass	15.1	Pass
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