

ENVIRONMENTAL WIND SPEED MEASUREMENTS ON A WIND TUNNEL MODEL OF THE 110 WILSON STREET, MOONEE VALLEY DEVELOPMENT

by
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SUMMARY

Wind tunnel tests have been conducted on a 1/400 scale model of the proposed 110 Wilson Street, Moonee Valley Development with the scale model constructed from digital information provided by DKO received on 7th November 2025 and 18th December 2025. The model was inserted into a proximity model that included topography and existing and under construction buildings (including the new MVRC Grandstand, the Moonee Valley Park Masterplan, and the Eveline development) out to a minimum radius of 400m.

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 Moonee Valley Scheme Clause 58.04-4 (Standard D17) wind comfort and safety 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 the assessment of the wind impacts of the proposed development. The study did not include the effects of any street trees.

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The findings of these studies are as follows:

- For the Proposed Configuration, there were some locations along the Wilson Street footpath to the northeast of the development where wind conditions were shown to be above the walking comfort criterion. However, these conditions were shown to be similar to those of the Existing Configuration (i.e. were not caused by the presence of the proposed development).
- For the Proposed Configurations, some locations on the Wilson Street footpath directly northwest of the development were shown to be above the walking comfort criterion or unsafe. These were treated with the mitigation strategies described below.
- For the remaining locations in the surrounding and inner grounds of the development, the wind conditions for the Proposed Configuration have been shown to pass the walking comfort criterion at a minimum.
- To address above walking comfort and unsafe wind conditions, wind mitigation strategies have been developed and tested for effectiveness during the wind tunnel study. The wind mitigation strategies are as follows:
 - o Addition of a canopy on Wilson East, on Level 1, along the north façade with a 6m return to the east façade. This canopy must be solid and project 3m from the outermost façade.

Additionally, the retention of the 2m porous (50-80% solid) fence along the south of Wilson Street footpath, results in standing comfort wind conditions at Test Locations 12, 13, and 14. This mitigation feature needs to be erected/maintained prior to the completion of Track Central.

The wind conditions for the Proposed Configuration with those wind mitigation strategies have been shown to result in safe and walking comfort wind conditions at a minimum.

- Additional wind mitigation strategies have been developed to achieve the target wind criteria based upon the urban planning strategy. The wind mitigation strategies are as follows:

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- Addition of 1.6m high solid screen in the middle of the garden between Track Central and Wilson East.
- Addition of 1.6m high solid screen in the middle of the garden between Track Central and Track East.

The wind conditions for the Proposed Configuration with those wind mitigation strategies have been shown to result in standing comfort wind conditions at a minimum.

- The wind conditions for the Proposed Configuration at the building entrances have been shown to satisfy the recommended standing comfort criterion at a minimum.
- For the upper level terraces, the wind conditions for the Proposed Configuration have been shown to pass the walking comfort criterion at a minimum, with the majority of terraces also passing the standing criterion.
- The Level 19 rooftop terrace of Track Central necessitated the introduction of corner walls at the southeast and southwest corners to mitigate the unsafe wind conditions.

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**ENVIRONMENTAL WIND SPEED MEASUREMENTS
110 WILSON STREET, MOONEE VALLEY DEVELOPMENT**

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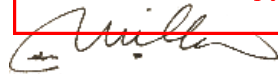
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1. INTRODUCTION

The Proposed development at 110 Wilson Street, Moonee Valley will be located on the northeast corner of the Moonee Valley Race Course as shown in Figure 1. The development will comprise of the following buildings:

- Track Central (height: approx. 65m)
- Track East (height: approx. 82m)
- Wilson East (height: approx. 57m)

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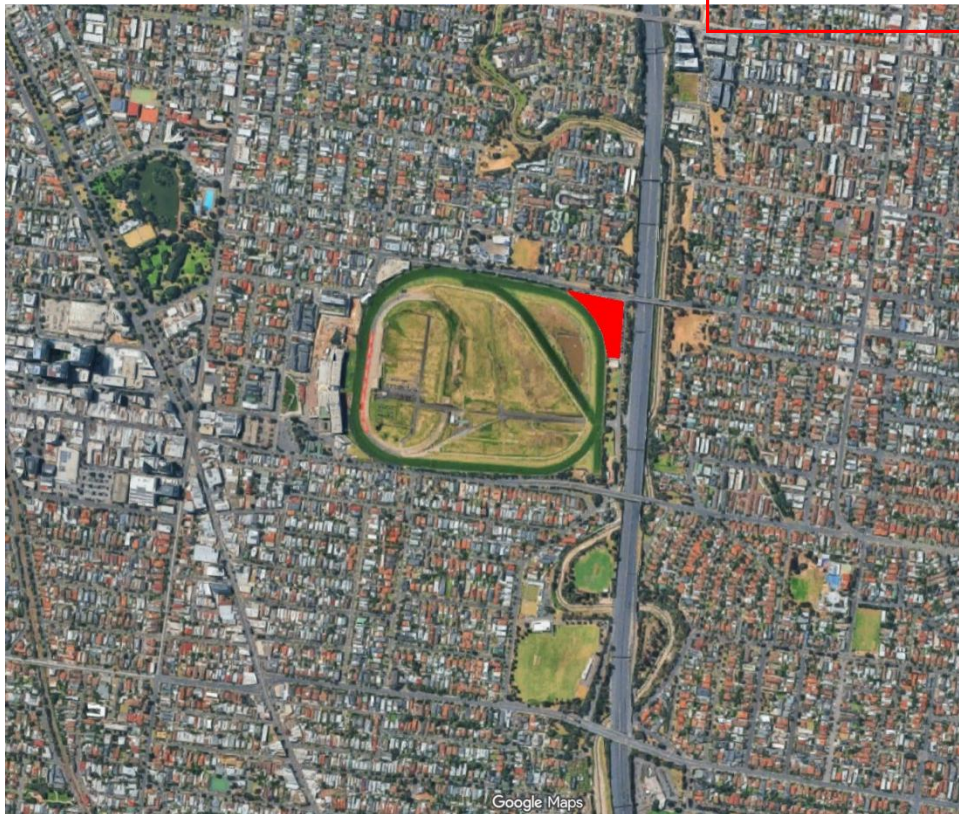


Figure 1: Location of the proposed 110 Wilson Street, Moonee Valley Development (highlighted in red).

A wind tunnel model study was commissioned by Hamton to investigate the environmental wind effects of the proposed Development and, if necessary, to develop wind amelioration features to achieve conditions satisfying the recommended environmental wind criteria. The wind tunnel study was undertaken in the MEL Consultants 400kW Boundary Layer Wind Tunnel for the current design in November 2025 and February 2026.

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2. 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, some forms of criteria are required. The City of Moonee Valley Scheme Clause 58.04-4 (Standard D17) defines the wind comfort and safety criteria. The definition of the criteria is as follows:

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

Comfortable wind conditions means a mean wind 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**
 - Sitting criterion: generally acceptable for stationary, long exposure activities such as dining at outdoor restaurants or theatres.
- 4 metres/second for **standing areas**
 - Standing criterion: generally acceptable for stationary short exposure activities such as window shopping, standing or sitting in plazas.
- 5 metres/second for **walking areas**
 - Walking criterion: generally acceptable for walking in urban and suburban 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)

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

any one wind direction. For completeness, this report will provide data for each Test Location as a function of wind direction in Appendix A.

Clause 58.04-4 (Standard D17) does not provide any methodology or worked example as how to obtain the 'from all wind directions combined'. Therefore, to obtain the probability for all wind directions combined we will apply the methodology described in Melbourne (1978) to determine the probability for all wind directions. The guidelines 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 City. 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

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2.1 Suggested Pedestrian Comfort Criteria.

The following wind criteria are suggested for the surrounding streetscapes:

- | | |
|-----------------------------------|--------------------|
| • Pedestrian transit areas | Walking Criterion |
| • Main Building/Tenancy entrances | Standing Criterion |
| • Upper Level Terraces | Walking Criterion |

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 or above the walking criterion, then the proposed Development should not have any adverse wind effects in these areas.

The wind conditions on outdoor areas have been recommended to satisfy the walking criterion as these spaces could be considered elective when external conditions would be perceived as acceptable for the desired activity.

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3. MODEL AND EXPERIMENTAL TECHNIQUES

A 1/400 scale model of the updated proposed 110 Wilson Street, Moonee Valley Development was constructed from architectural drawings and markups by DKO received on 7th November 2025 and 18th December 2025.

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 for which the velocity and turbulence profile is provided in Figure 2.

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. The Test Locations for the 110 Wilson Street, Moonee Valley Development are shown in Figures 6a to 6g.

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.

The following velocity ratios were measured in the wind tunnel:

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

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

as well as the peak velocity squared ratio

$$\left| \frac{\hat{V}_{local}}{\bar{V}_{300m}} \right|^2$$

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

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

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 model configurations examined by this study are as follows.

Existing Configuration

- existing development site (single storey buildings)
- inclusion of the new Moonee Valley Racing Club (MVRC) Grandstand
- inclusion of the Moonee Valley Park Masterplan
- inclusion of the Eveline development

Proposed Configuration

- 110 Wilson Street, Moonee Valley development, including boundary and resident control fencing
- inclusion of the new MVRC Grandstand
- inclusion of the Moonee Valley Park Masterplan
- inclusion of the Eveline development

Proposed Configuration with Wind Mitigation Strategies

- 110 Wilson Street, Moonee Valley development, including boundary and resident control fencing
- inclusion of the new MVRC Grandstand
- inclusion of the Moonee Valley Park Masterplan
- inclusion of the Eveline development
- additional canopy, fencing, and local screening (as detailed in Section 4 of this report)
- Retention of the 2m porous (50-80% solid) fence along the south of Wilson Street footpath. This mitigation feature needs to be erected and/or maintained prior to the completion of Track Central.

The specifications of the fencing included in the Proposed Configuration are based on markups by DKO received on 7th November 2025 and are detailed in Figure 6b.

This study did not include or rely on existing street trees for wind mitigation.

Photographs of the model as tested in the wind tunnel are shown in Figures 3 to 5.

4. DISCUSSION OF RESULTS

The assessment of the wind safety and comfort criteria are presented in Tables 1 to 7. The Tables detail the yearly exceedances for wind comfort and peak wind speed for wind safety, and the results compared to the recommended wind safety and comfort criteria. A test location will satisfy the sitting, standing and walking criteria if the percentage for which a given mean wind speed is exceeded is below 20% while a test location will fail the safety criterion if the annual maximum 3 second gust wind speed from any of the 16 wind directions is greater than 20m/s.

4.1 Summary Diagrams

To assist with the assessment of the wind conditions, summaries of the highest wind criteria achieved based on Clause 58.04-4 (Standard D17) at the Test Locations have been presented using a colour code system in the following figures:

Existing Configuration

- Figure 7a Surrounding Ground
- Figure 7b Inner Ground

Proposed Configuration

- Figure 8a Surrounding Ground
- Figure 8b Inner Ground
- Figure 8c Wilson East Terraces
- Figure 8d Track East Terraces
- Figure 8e Track Central Level 3 & 4 Terraces
- Figure 8f Track Central Level 10, 15, & 19 Terraces

Proposed Configuration with Wind Mitigation Strategies

- Figure 9a Ground Level
- Figure 9b Track Central rooftop terrace

The figures present the pedestrian safety and comfort criteria satisfied using a colour code system, where different colours have been used to represent the wind criteria satisfied at each Test Location. For completeness the data are also provided in Appendix A as a

function of wind direction based on the gust criteria developed for Melbourne and compared with the pedestrian criteria for gust wind speeds. It is noted that at each Test Location the directional specific wind conditions may be higher than those of the tabulated results for certain incident wind directions.

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4.2 Wilson Street & North of the Development

The wind conditions for the Proposed Configuration along Wilson Street and the north of the development (Test Locations 1, 3-28, 31, 35, 37, and 39) have been shown to have varying wind conditions. Along the Wilson Street footpath to the northwest and northeast of the development wind conditions have been shown to be above the walking comfort criterion (Test Locations 12, 23-26, 28) or unsafe (Test Locations 13 and 14). Walking comfort wind conditions were observed on the remaining locations (Test Locations 1, 3, 4-11, 15-22, 27, 31, 35, 37, and 39). To address the wind conditions at Test Locations 12-14 and 23, the following wind mitigation features have been developed during the wind tunnel test:

- Addition of 3m wide canopy along the north side of Wilson East, with 6m return along the east side, resulting in walking comfort wind conditions at Test Location 23.

This mitigation feature is detailed in a diagram in Figure 9a.

Additionally, the retention of the 2m porous (50-80% solid) fence along the south of Wilson Street footpath, results in standing comfort wind conditions at Test Locations 12, 13, and 14. This mitigation feature needs to be erected/maintained prior to the completion of Track Central.

The wind conditions at Test Locations 24-26 and 28 have been shown to be of similar wind criterion compared to that of the Existing Configuration, and thus demonstrated that the above walking comfort wind conditions were not caused by the presence of the proposed development at these locations.

The criteria achieved at each Test Locations have been presented in Table 1 as well as the data for the Existing Configuration.

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Table 1: Pedestrian Wind Comfort and Safety – Wilson Street & North of the Development

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)		
		Sitting	Standing	Walking				Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
		(3m/s)	(4m/s)	(5m/s)					
1	Proposed Configuration	36.4%	20.6%	10.8%	4.0	Walking	Pass	17.1	Pass
	Existing Configuration	416%	24.4%	13.4%	4.4	Walking	Pass	17.8	Pass
3	Proposed Configuration	24.2%	13.3%	6.8%	3.3	Walking	Pass	16.2	Pass
	Existing Configuration	33.2%	17.8%	9.8%	3.8	Walking	Pass	17.1	Pass
4	Proposed Configuration	42.2%	24.9%	12.2%	4.4	Walking	Pass	16.0	Pass
	Existing Configuration	39.7%	22.4%	112%	4.2	Walking	Pass	15.8	Pass
5	Proposed Configuration	45.6%	27.6%	14.0%	4.6	Walking	Pass	15.7	Pass
	Existing Configuration	57.6%	39.9%	26.6%	5.6	Walking	Fail	20.0	Pass
6	Proposed Configuration	418%	23.8%	10.6%	4.2	Walking	Pass	14.7	Pass
	Existing Configuration	53.7%	35.2%	22.0%	5.2	Walking	Fail	19.8	Pass
7	Proposed Configuration	44.9%	26.9%	13.2%	4.5	Walking	Pass	15.5	Pass
	Existing Configuration	52.4%	34.3%	20.9%	5.1	Walking	Fail	18.4	Pass
8	Proposed Configuration	50.8%	33.8%	19.8%	5.0	Walking	Pass	16.1	Pass
	Existing Configuration	37.9%	19.1%	7.9%	3.9	Walking	Pass	13.9	Pass
9	Proposed Configuration	32.6%	15.0%	5.3%	3.6	Walking	Pass	13.5	Pass
	Existing Configuration	26.3%	10.6%	3.3%	3.3	Walking	Pass	13.5	Pass
10	Proposed Configuration	49.3%	318%	17.8%	4.8	Walking	Pass	16.2	Pass
	Existing Configuration	49.2%	318%	17.5%	4.8	Walking	Pass	15.8	Pass
11	Proposed Configuration	37.2%	18.8%	7.3%	3.9	Walking	Pass	13.4	Pass
	Existing Configuration	22.7%	10.0%	4.1%	3.2	Walking	Pass	14.8	Pass
12	Proposed Configuration	56.0%	39.9%	26.6%	5.6	Walking	Fail	19.4	Pass
	Existing Configuration	48.4%	30.6%	16.6%	4.7	Walking	Pass	15.5	Pass
	Proposed Configuration + mitigation strategies	22.8%	10.4%	4.2%	3.2	Walking	Pass	13.2	Pass
13	Proposed Configuration	514%	35.4%	243%	5.1	Walking	NA - Safety criterion failed	214	Fail
	Existing Configuration	49.1%	31.3%	16.9%	4.8	Walking	Pass	17.2	Pass
	Proposed Configuration + mitigation strategies	32.7%	16.6%	7.2%	3.7	Walking	Pass	14.4	Pass
14	Proposed Configuration	49.0%	32.0%	18.6%	4.9	Walking	NA - Safety criterion failed	211	Fail
	Existing Configuration	50.1%	32.8%	18.8%	4.9	Walking	Pass	16.4	Pass
	Proposed Configuration + mitigation strategies	310%	16.5%	7.6%	3.7	Walking	Pass	14.9	Pass
15	Proposed Configuration	318%	14.0%	5.1%	3.6	Walking	Pass	14.4	Pass
	Existing Configuration	43.5%	26.5%	16.3%	4.6	Walking	Pass	18.1	Pass
16	Proposed Configuration	48.9%	316%	17.4%	4.8	Walking	Pass	16.6	Pass
	Existing Configuration	52.4%	34.3%	211%	5.1	Walking	Fail	18.1	Pass
17	Proposed Configuration	22.4%	7.6%	2.0%	3.1	Walking	Pass	11.3	Pass
	Existing Configuration	516%	33.7%	20.4%	5.0	Walking	Fail	17.5	Pass
18	Proposed Configuration	46.9%	30.2%	18.5%	4.9	Walking	Pass	19.1	Pass
	Existing Configuration	52.7%	34.4%	210%	5.1	Walking	Fail	18.1	Pass
19	Proposed Configuration	39.5%	22.2%	112%	4.2	Walking	Pass	17.0	Pass
	Existing Configuration	52.3%	33.3%	20.8%	5.1	Walking	Fail	19.4	Pass
20	Proposed Configuration	17.9%	8.2%	3.9%	2.9	Walking	Pass	15.9	Pass
	Existing Configuration	210%	8.6%	3.9%	3.1	Walking	Pass	14.9	Pass

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Table 1 [cont'd]: Pedestrian Wind Comfort and Safety – Wilson Street & North of the Development

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) %					
21	Proposed Configuration	17.8%	6.3%	2.2%	2.9	Walking	Pass	12.7	Pass
	Existing Configuration	20.9%	8.5%	3.1%	3.0	Walking	Pass	14.3	Pass
22	Proposed Configuration	41.1%	23.3%	11.0%	4.2	Walking	Pass	16.4	Pass
	Existing Configuration	51.4%	32.2%	19.5%	5.0	Walking	Pass	20.0	Pass
23	Proposed Configuration	50.9%	35.2%	23.1%	5.3	Walking	Fail	16.9	Pass
	Existing Configuration	39.9%	21.9%	10.3%	4.1	Walking	Pass	15.2	Pass
	Proposed Configuration + mitigation strategies	46.6%	31.7%	19.5%	5.0	Walking	Pass	16.5	Pass
24	Proposed Configuration	53.2%	35.8%	23.0%	5.3	Walking	Fail	16.3	Pass
	Existing Configuration	60.7%	45.0%	32.6%	6.1	Walking	Fail	19.5	Pass
25	Proposed Configuration	49.1%	31.9%	20.9%	5.1	Walking	Fail	19.8	Pass
	Existing Configuration	55.2%	36.4%	23.4%	5.4	Walking	Fail	18.8	Pass
26	Proposed Configuration	60.4%	42.9%	29.7%	5.9	Walking	Fail	18.6	Pass
	Existing Configuration	55.8%	38.4%	25.1%	5.4	Walking	Fail	18.6	Pass
27	Proposed Configuration	23.2%	9.1%	3.2%	3.2	Walking	Pass	12.4	Pass
	Existing Configuration	24.6%	13.4%	5.9%	3.4	Walking	Pass	13.8	Pass
28	Proposed Configuration	52.4%	35.2%	21.0%	5.1	Walking	Fail	18.4	Pass
	Existing Configuration	52.1%	34.7%	20.8%	5.1	Walking	Fail	17.7	Pass
31	Proposed Configuration	49.7%	33.0%	19.1%	4.9	Walking	Pass	16.5	Pass
	Existing Configuration	50.1%	33.4%	19.9%	5.0	Walking	Pass	16.5	Pass
35	Proposed Configuration	41.9%	24.0%	10.9%	4.3	Walking	Pass	15.2	Pass
	Existing Configuration	43.0%	25.1%	11.7%	4.3	Walking	Pass	15.5	Pass
37	Proposed Configuration	20.0%	7.2%	2.0%	3.0	Walking	Pass	11.7	Pass
	Existing Configuration	22.3%	7.9%	2.2%	3.1	Walking	Pass	12.3	Pass
39	Proposed Configuration	26.3%	11.5%	4.3%	3.4	Walking	Pass	12.9	Pass
	Existing Configuration	33.7%	17.9%	8.8%	3.8	Walking	Pass	16.4	Pass

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4.3 Moonee Ponds Creek Trail & East of the Development

The wind conditions for the Proposed Configuration along the Moonee Ponds Creek Trail and the east of the development (Test Locations 41, 43, 44, 54, and 55) have been shown to pass the walking comfort criterion at a minimum. The criteria achieved at each Test Locations have been presented in Table 2 as well as the data for the Existing Configuration.

Table 2: Pedestrian Wind Comfort and Safety – Moonee Ponds Creek Trail & East of the Development

Configuration		Wind Criteria							
		Comfort						Safety	
		Yearly exceedence of given wind speed			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) %					
41	Proposed Configuration	25.4%	12.8%	5.3%	3.3	Walking	Pass	14.3	Pass
	Existing Configuration	32.0%	14.5%	5.0%	3.7	Walking	Pass	12.4	Pass
43	Proposed Configuration	48.6%	29.7%	13.3%	4.8	Walking	Pass	17.8	Pass
	Existing Configuration	43.4%	25.2%	13.8%	4.4	Walking	Pass	17.3	Pass
44	Proposed Configuration	34.1%	20.5%	13.4%	4.1	Walking	Pass	13.4	Pass
	Existing Configuration	38.5%	22.3%	14.4%	4.2	Walking	Pass	13.5	Pass
54	Proposed Configuration	50.3%	31.2%	13.6%	4.9	Walking	Pass	13.0	Pass
	Existing Configuration	42.2%	24.3%	13.1%	4.3	Walking	Pass	13.7	Pass
55	Proposed Configuration	45.5%	27.7%	15.2%	4.6	Walking	Pass	19.1	Pass
	Existing Configuration	46.1%	28.1%	15.5%	4.6	Walking	Pass	17.1	Pass

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4.4 Moonee Valley Race Course & Grandstand Carpark

The wind conditions for the Proposed Configuration at the Moonee Valley Race Course and the Grandstand carpark (Test Locations 46, 48-53, 59, and 60) have been shown to satisfy the walking comfort criterion or better.

The criteria achieved at each Test Locations have been presented in Table 3 as well as the data for the Existing Configuration.

Table 3: Pedestrian Wind Comfort and Safety – Moonee Valley Race Course & Grandstand Carpark

Configuration		Wind Criteria							
		Comfort						Safety	
		Yearly exceedence of given wind speed			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) %					
46	Proposed Configuration	37.3%	22.8%	14.4%	4.3	Walking	Pass	19.3	Pass
	Existing Configuration	50.3%	313%	19.6%	5.0	Walking	Pass	18.7	Pass
48	Proposed Configuration	317%	16.2%	6.8%	3.7	Walking	Pass	13.7	Pass
	Existing Configuration	37.8%	212%	10.9%	4.1	Walking	Pass	15.4	Pass
49	Proposed Configuration	38.8%	22.5%	14.2%	4.2	Walking	Pass	19.5	Pass
	Existing Configuration	48.7%	29.8%	17.7%	4.8	Walking	Pass	18.9	Pass
50	Proposed Configuration	33.7%	17.7%	8.0%	3.8	Walking	Pass	15.4	Pass
	Existing Configuration	35.3%	19.1%	8.9%	3.9	Walking	Pass	16.4	Pass
51	Proposed Configuration	35.9%	19.2%	9.0%	3.9	Walking	Pass	15.4	Pass
	Existing Configuration	48.9%	30.0%	18.0%	4.8	Walking	Pass	18.8	Pass
53	Proposed Configuration	28.6%	12.7%	5.4%	3.4	Walking	Pass	14.7	Pass
	Existing Configuration	28.8%	118%	4.2%	3.5	Walking	Pass	12.0	Pass
59	Proposed Configuration	45.7%	27.2%	15.5%	4.6	Walking	Pass	17.5	Pass
	Existing Configuration	50.3%	313%	19.6%	5.0	Walking	Pass	18.7	Pass
60	Proposed Configuration	38.2%	218%	113%	4.1	Walking	Pass	15.9	Pass
	Existing Configuration	50.3%	313%	19.6%	5.0	Walking	Pass	18.7	Pass

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4.5 Communal Gardens

The desired target comfort conditions within the Communal Gardens based upon the urban planning strategy are shown in the Figure below.



Desired wind comfort conditions within the Communal Gardens.

The wind tunnel results have shown that the wind conditions within the Communal Gardens achieve a minimum of the walking comfort criterion, and, with wind mitigation strategies would achieve conditions aligned with the desired activation of many areas of these gardens. The wind mitigation strategies and the resulting wind conditions will be discussed in the following Sections 4.6 and 4.7.

4.6 Track Central

The wind conditions for the Proposed Configuration in the immediate surround of Track Central (Test Locations 79-83, 84a, and 85-89) have been shown to pass the walking comfort criterion as a minimum, with many locations also passing the standing or sitting comfort criteria. The wind conditions at the building entrances (Test Location 80 and 84a) have been shown to satisfy the recommended standing comfort criterion. To achieve the target comfort conditions within the Communal Gardens based upon the urban planning strategy, 1.6m high local screening was added on the centre of the garden between Track Central and Wilson East (see details on Figure 9a). This wind mitigation strategy improved the wind conditions at Test Location 83 to satisfy the sitting comfort criterion.

The criteria achieved at these Test Locations have been presented in Table 5 as well as the data for the Existing Configuration, where applicable.

Table 4: Pedestrian Wind Comfort and Safety – Track Central

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	m/s	Pass/Fail
79	Proposed Configuration	31.9%	17.7%	9.2%	3.8	Standing	Pass	16.6	Pass
	Existing Configuration	10.9%	5.0%	2.0%	2.3	Standing	Pass	13.6	Pass
80	Proposed Configuration	6.3%	0.9%	0.1%	2.2	Standing	Pass	8.1	Pass
	Existing Configuration	18.0%	7.0%	2.6%	2.9	Standing	Pass	12.9	Pass
81	Proposed Configuration	13.4%	4.1%	0.8%	2.6	Walking	Pass	10.4	Pass
	Existing Configuration	18.0%	7.0%	2.6%	2.9	Walking	Pass	12.9	Pass
82	Proposed Configuration	25.4%	9.1%	2.6%	3.3	Walking	Pass	12.9	Pass
	Existing Configuration	16.6%	6.0%	1.6%	2.8	Walking	Pass	11.5	Pass
83	Proposed Configuration	30.2%	13.3%	5.2%	3.5	Standing	Pass	13.7	Pass
	Existing Configuration	31.5%	14.7%	5.7%	3.6	Standing	Pass	14.7	Pass
	Proposed Configuration + mitigation strategies	7.2%	1.1%	0.2%	2.3	Standing	Pass	8.8	Pass
84a	Proposed Configuration	4.7%	0.7%	0.1%	1.9	Sitting	Pass	8.4	Pass
	Existing Configuration	31.5%	14.7%	5.7%	3.6	Sitting	Fail	14.7	Pass
85	Proposed Configuration	49.2%	30.3%	18.0%	4.8	Walking	Pass	17.0	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
86	Proposed Configuration	41.2%	23.9%	14.7%	4.4	Walking	Pass	16.3	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
87	Proposed Configuration	16.8%	7.1%	3.0%	2.8	Walking	Pass	13.5	Pass
	Existing Configuration	42.1%	24.7%	13.2%	4.4	Walking	Pass	17.8	Pass
88	Proposed Configuration	45.1%	26.8%	15.6%	4.5	Walking	Pass	17.0	Pass
	Existing Configuration	49.6%	31.2%	18.2%	4.8	Walking	Pass	17.3	Pass
89	Proposed Configuration	12.7%	5.5%	2.1%	2.5	Walking	Pass	14.0	Pass
	Existing Configuration	12.7%	5.5%	2.1%	2.5	Walking	Pass	17.8	Pass

4.7 Wilson East & Track East

The wind conditions for the Proposed Configuration in the immediate surround of Wilson East and Track East (Test Locations 90-100, 107-110), have been shown to pass the walking comfort criterion, with many Test Locations passing the standing or sitting comfort criteria. The wind conditions at the building entrances (Test Locations 93 and 109) have been shown to satisfy the recommended standing comfort criterion. To achieve the target comfort conditions within the Communal Gardens based upon the urban planning strategy, 1.6m high local screening was added on the centre of the garden between Track Central and Track East (see details on Figure 9a). This wind mitigation strategy improved the wind conditions at Test Locations 90 and 110 to satisfy the sitting and standing comfort criteria respectively.

The criteria achieved at these Test Locations have been presented in Table 6 as well as the data for the Existing Configuration, where applicable.

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Table 5: Pedestrian Wind Comfort and Safety – Wilson East & Track East

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	Standing	Walking					
		(3m/s)	(4m/s)	(5m/s)					
		%	%	%	m/s		Pass/Fail	m/s	Pass/Fail
90	Proposed Configuration	40.0%	22.7%	12.7%	4.2	Sitting	Fail	13.3	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Proposed Configuration + mitigation strategies	14.6%	6.0%	2.4%	2.7	Sitting	Pass	13.2	Pass
91	Proposed Configuration	35.4%	17.5%	7.3%	3.8	Walking	Pass	15.3	Pass
	Existing Configuration	44.0%	25.9%	13.1%	4.4	Walking	Pass	16.9	Pass
92	Proposed Configuration	43.0%	25.3%	13.7%	4.4	Walking	Pass	16.7	Pass
	Existing Configuration	214%	8.9%	3.0%	3.1	Walking	Pass	12.6	Pass
93	Proposed Configuration	27.8%	13.7%	6.1%	3.5	Standing	Pass	13.6	Pass
	Existing Configuration	214%	8.9%	3.0%	3.1	Standing	Pass	12.6	Pass
94	Proposed Configuration	30.6%	19.4%	11.1%	3.9	Standing	Pass	17.5	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
95	Proposed Configuration	23.6%	13.0%	6.2%	3.3	Standing	Pass	15.2	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
96	Proposed Configuration	40.5%	22.7%	10.3%	4.2	Walking	Pass	15.1	Pass
	Existing Configuration	44.4%	24.9%	12.9%	4.4	Walking	Pass	19.7	Pass
97	Proposed Configuration	29.5%	13.7%	12.4%	3.9	Walking	Pass	19.7	Pass
	Existing Configuration	34.3%	19.3%	9.3%	3.9	Walking	Pass	15.3	Pass
98	Proposed Configuration	50.5%	31.5%	19.9%	5.0	Walking	Pass	18.3	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
99	Proposed Configuration	27.8%	14.6%	6.1%	3.6	Standing	Pass	14.2	Pass
	Existing Configuration	33.6%	17.2%	8.4%	3.8	Standing	Pass	15.6	Pass
107	Proposed Configuration	2.2%	0.2%	0.0%	1.9	Walking	Pass	7.6	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
108	Proposed Configuration	34.4%	16.4%	6.1%	3.8	Standing	Pass	13.5	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
109	Proposed Configuration	119%	3.0%	0.6%	2.6	Sitting	Pass	10.0	Pass
	Existing Configuration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
110	Proposed Configuration	37.1%	21.7%	11.6%	4.1	Standing	Fail	16.1	Pass
	Existing Configuration	33.1%	15.0%	5.9%	3.7	Standing	Pass	13.2	Pass
	Proposed Configuration + mitigation strategies	22.2%	8.7%	2.8%	3.1	Standing	Pass	11.6	Pass

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4.8 Wilson East & Track East Terraces

The wind conditions for the Proposed Configuration on Wilson East and Track East terraces (Test Locations E1-E18) have been shown to pass the standing comfort criterion, with most terraces satisfying the sitting comfort criterion.

The criteria achieved at these Test Locations have been presented in Table 6.

Table 6: Pedestrian Wind Comfort and Safety – Wilson East & Track East 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	m/s	Pass/Fail
E1	Proposed Configuration	9.0%	2.3%	0.5%	2.2	Walking	Pass	10.0	Pass
E2	Proposed Configuration	20.7%	11.1%	6.6%	3.0	Walking	Pass	19.9	Pass
E3	Proposed Configuration	0.2%	0.0%	0.0%	1.1	Walking	Pass	5.0	Pass
E4	Proposed Configuration	11.1%	5.0%	1.7%	2.2	Walking	Pass	11.6	Pass
E5	Proposed Configuration	8.9%	2.3%	0.5%	2.2	Walking	Pass	10.6	Pass
E6	Proposed Configuration	13.5%	4.6%	1.2%	2.6	Walking	Pass	12.4	Pass
E7	Proposed Configuration	8.3%	2.8%	1.1%	2.2	Walking	Pass	12.5	Pass
E8	Proposed Configuration	0.8%	0.1%	0.0%	1.6	Walking	Pass	6.8	Pass
E9	Proposed Configuration	0.3%	0.0%	0.0%	1.3	Walking	Pass	6.0	Pass
E10	Proposed Configuration	3.4%	0.3%	0.0%	1.9	Walking	Pass	7.5	Pass
E11	Proposed Configuration	23.4%	15.4%	9.8%	3.3	Walking	Pass	17.8	Pass
E12	Proposed Configuration	20.6%	13.9%	9.4%	3.1	Walking	Pass	19.7	Pass
E13	Proposed Configuration	0.7%	0.1%	0.0%	1.3	Walking	Pass	6.3	Pass
E14	Proposed Configuration	0.1%	0.0%	0.0%	1.1	Walking	Pass	4.8	Pass
E15	Proposed Configuration	23.2%	14.7%	8.3%	3.3	Walking	Pass	17.2	Pass
E16	Proposed Configuration	23.6%	16.1%	11.2%	3.4	Walking	Pass	19.9	Pass
E17	Proposed Configuration	1.0%	0.0%	0.0%	1.3	Walking	Pass	6.6	Pass
E18	Proposed Configuration	1.1%	0.3%	0.1%	0.0	Walking	Pass	9.3	Pass

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4.9 Track Central Terraces

The wind conditions for the Proposed Configuration on the terraces of Track Central (Test Locations C1-C16 and C20-C25) have been shown to pass the walking comfort criterion as a minimum, with the exception of Test Location C13 on the southwest corner of the rooftop terrace which have been shown to be unsafe due to wind acceleration around the building corner. The design team had advised that this rooftop terrace would be separated with corner walls for different tenancies. With this information, the corner walls were added and investigated for their wind mitigation effect (see Figure 9b). It has been shown that the wind conditions at Test Location C13 improved and pass the sitting comfort and safety criteria with the addition of the corner walls. For completeness, Test Locations C17 and C18 were also tested with these walls and have been shown to pass the walking and standing comfort criteria respectively.

The criteria achieved at these Test Locations have been presented in Table 7.

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Table 7: Pedestrian Wind Comfort and Safety – Track Central 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) %					
C1	Proposed Configuration	27.6%	18.6%	13.0%	3.8	Walking	Pass	19.9	Pass
C2	Proposed Configuration	14.5%	7.9%	3.2%	2.4	Walking	Pass	13.5	Pass
C3	Proposed Configuration	43.8%	26.9%	15.1%	4.5	Walking	Pass	19.1	Pass
C5	Proposed Configuration	28.3%	15.6%	7.4%	3.6	Walking	Pass	16.1	Pass
C6	Proposed Configuration	22.0%	11.1%	4.7%	3.2	Walking	Pass	14.1	Pass
C8	Proposed Configuration	11.7%	4.6%	12%	2.3	Walking	Pass	11.0	Pass
C10	Proposed Configuration	29.8%	15.2%	7.3%	3.6	Walking	Pass	17.8	Pass
C11	Proposed Configuration	17.3%	9.3%	4.9%	2.8	Walking	Pass	16.2	Pass
C12	Proposed Configuration	24.7%	15.3%	8.0%	3.5	Walking	Pass	16.7	Pass
C13	Proposed Configuration	37.6%	24.8%	17.3%	4.5	Walking	NA - Safety criterion failed	215	Fail
	Proposed Configuration + mitigation strategies	10.6%	5.1%	2.4%	2.3	Walking	Pass	14.5	Pass
C14	Proposed Configuration	7.7%	10%	0.1%	2.3	Walking	Pass	8.4	Pass
C15	Proposed Configuration	27.3%	16.0%	8.0%	3.6	Walking	Pass	15.8	Pass
C16	Proposed Configuration	24.5%	13.1%	6.2%	3.3	Walking	Pass	13.6	Pass
C17	Proposed Configuration + mitigation strategies	37.5%	25.4%	17.4%	4.6	Walking	Pass	19.6	Pass
C18	Proposed Configuration + mitigation strategies	25.4%	12.8%	6.0%	3.4	Walking	Pass	18.4	Pass
C20	Proposed Configuration	14.0%	6.2%	2.0%	2.4	Walking	Pass	11.9	Pass
C21	Proposed Configuration	15.4%	5.5%	2.0%	2.7	Walking	Pass	13.4	Pass
C22	Proposed Configuration	3.7%	12%	0.4%	1.8	Walking	Pass	10.2	Pass
C23	Proposed Configuration	24.8%	16.4%	11.1%	3.5	Walking	Pass	18.7	Pass
C24	Proposed Configuration	3.7%	0.9%	0.2%	1.7	Walking	Pass	8.9	Pass
C25	Proposed Configuration	26.6%	13.3%	6.3%	3.4	Walking	Pass	18.5	Pass

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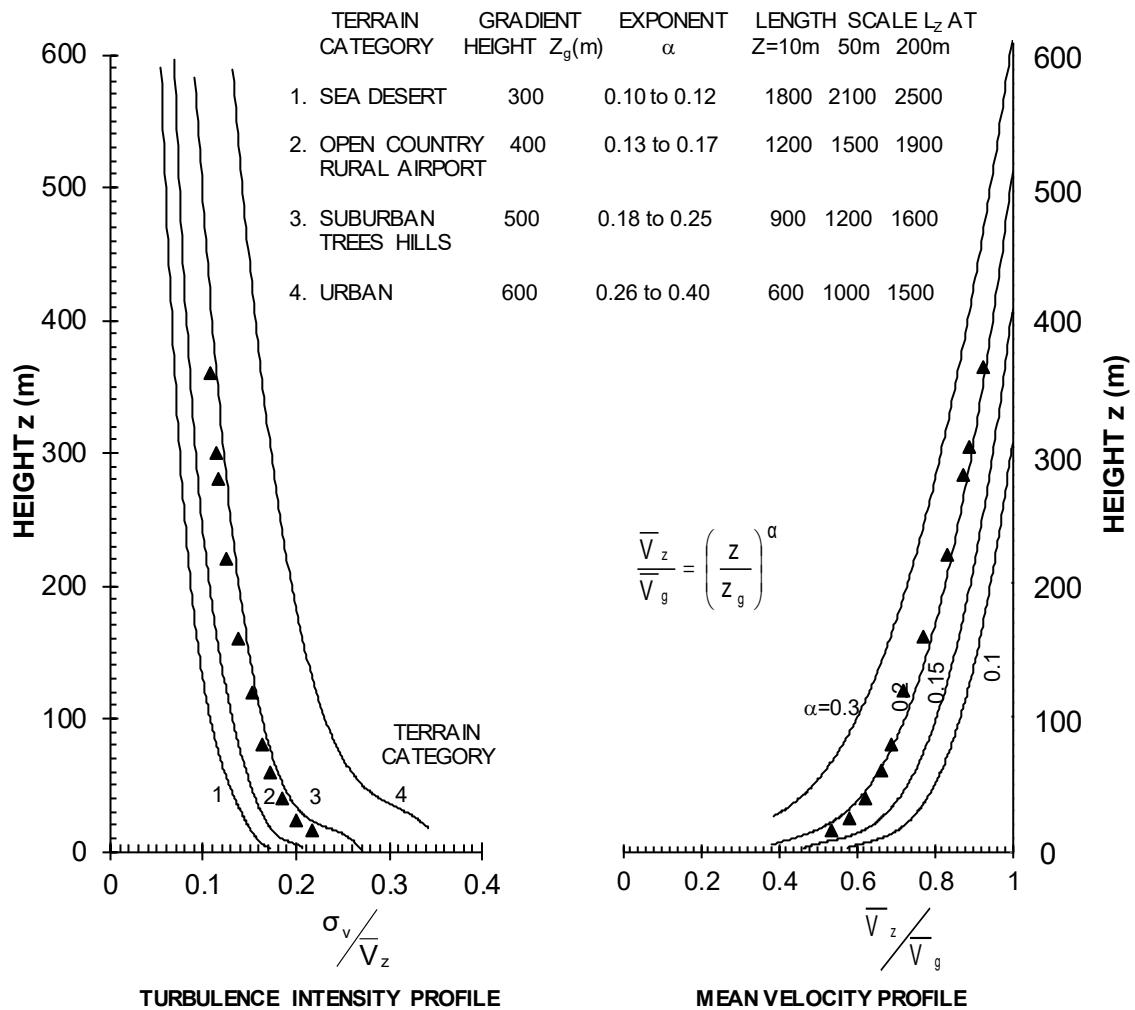


Figure 2 - 1/400 scale TC3 boundary layer turbulence intensity and mean velocity profiles and spectra in the MEL Consultants Boundary Layer Wind Tunnel 4.8m x 2.2m working section, scaled to full scale dimensions.

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Figure 3 – View from the northwest of the 1/400 scale model of the proposed 110 Wilson Street, Moonee Valley Development in the wind tunnel.

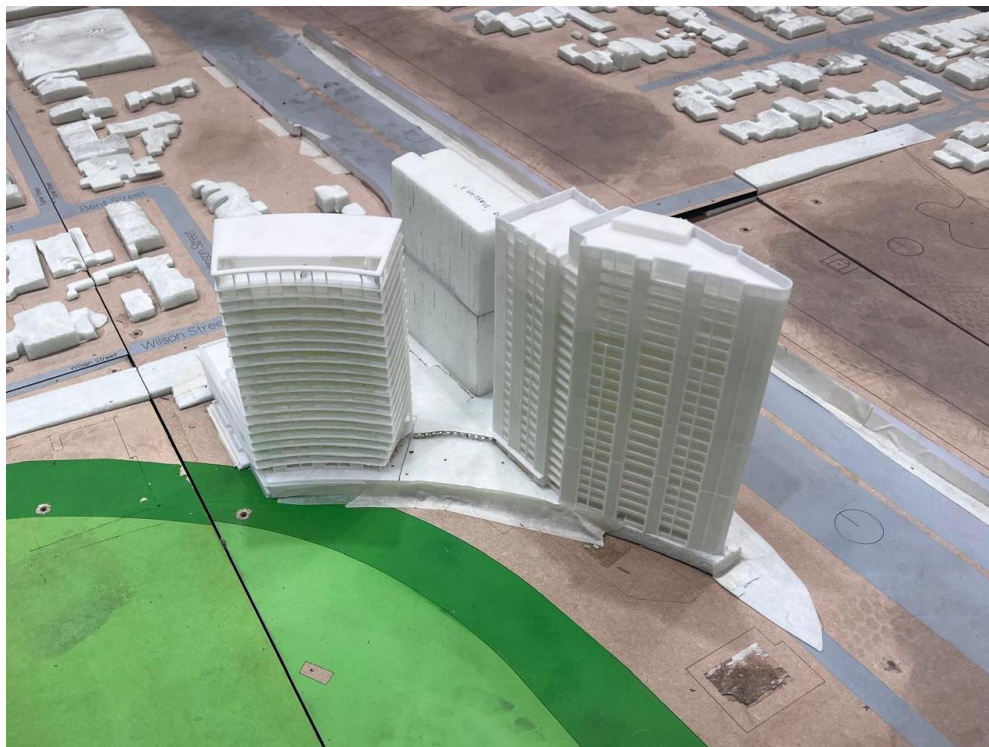


Figure 4 – View from the southwest of the 1/400 scale model of the proposed 110 Wilson Street, Moonee Valley Development in the wind tunnel.

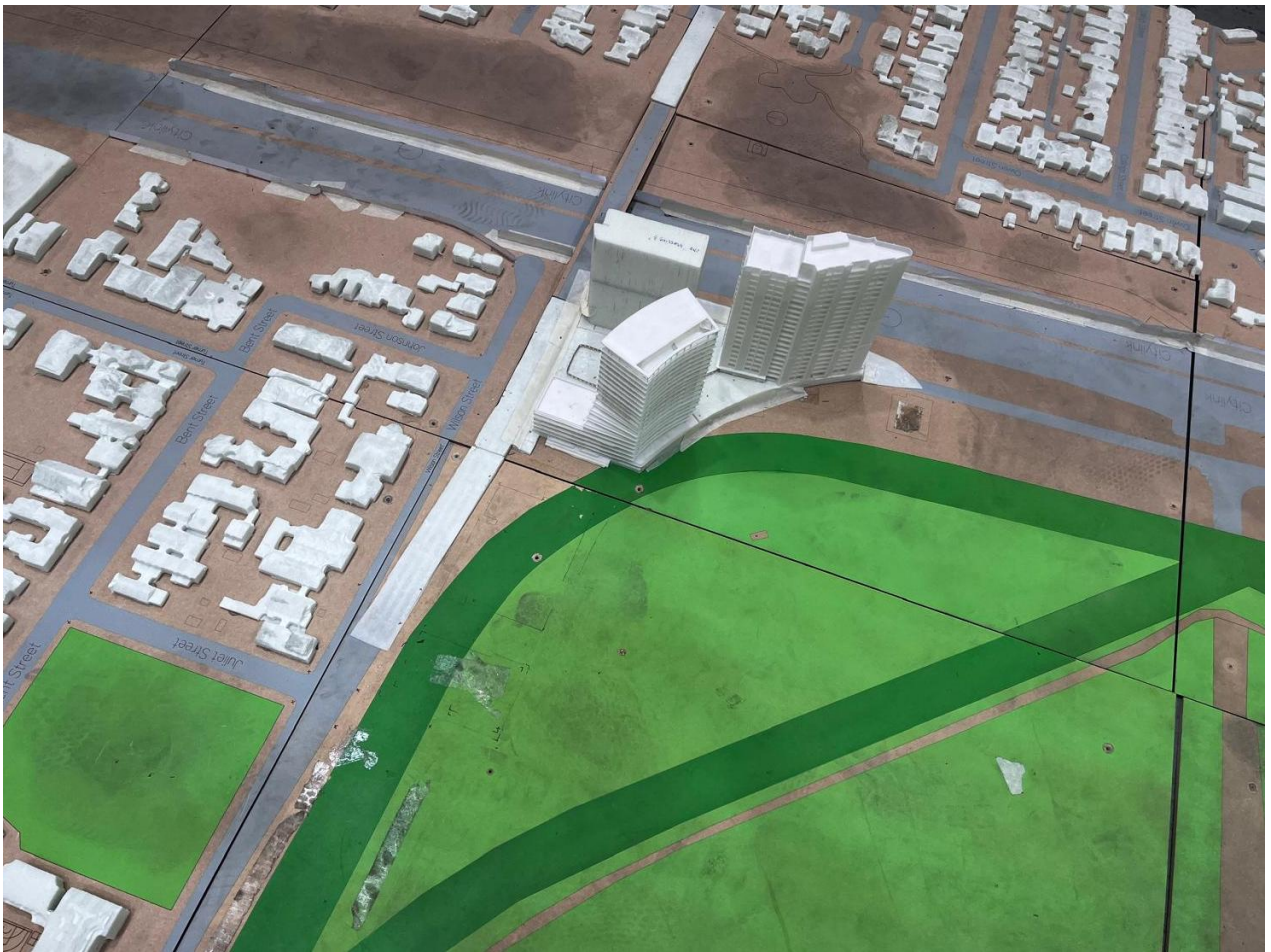


Figure 5 – View from the west of the 1/400 scale model of the proposed 110 Wilson Street, Moonee Valley Development within the surrounding proximity model in the wind tunnel.

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Figure 6a - Test Locations on the surrounding ground of the Proposed 110 Wilson Street, Moonee Valley Development.

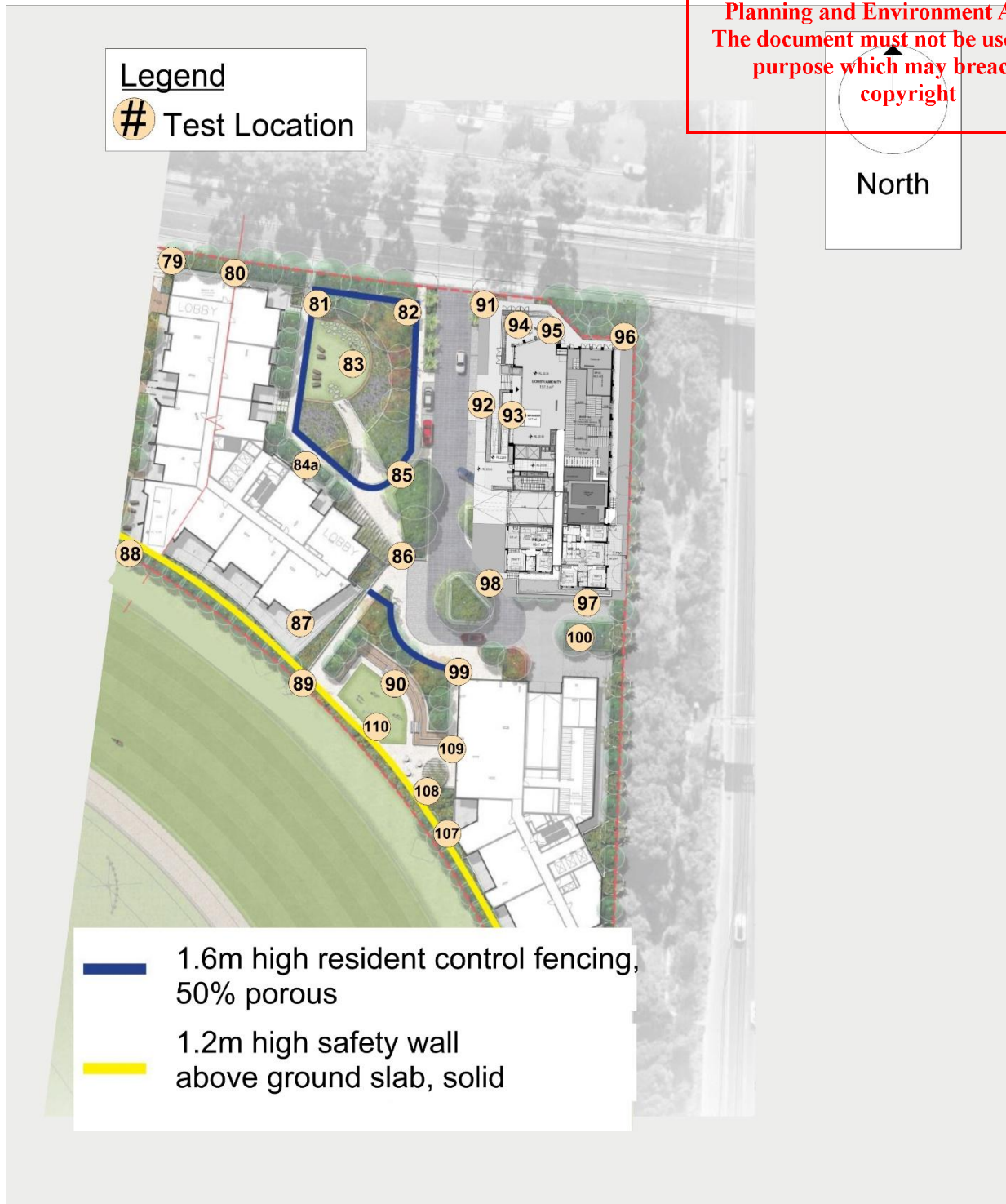
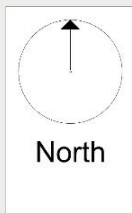


Figure 6b - Test Locations within the ground of the Proposed 110 Wilson Street, Moonee Valley Development.

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WILSON EAST

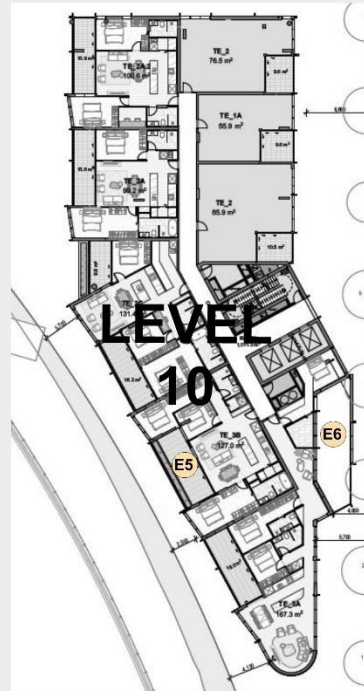


Legend
Test Location

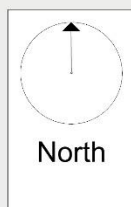
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Figure 6c - Test Locations on the terraces of Wilson East of the Proposed 110 Wilson Street, Moonee Valley Development.

TRACK EAST



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Legend
Test Location



Figure 6d - Test Locations on the terraces of Track East of the Proposed 110 Wilson Street, Moonee Valley Development.

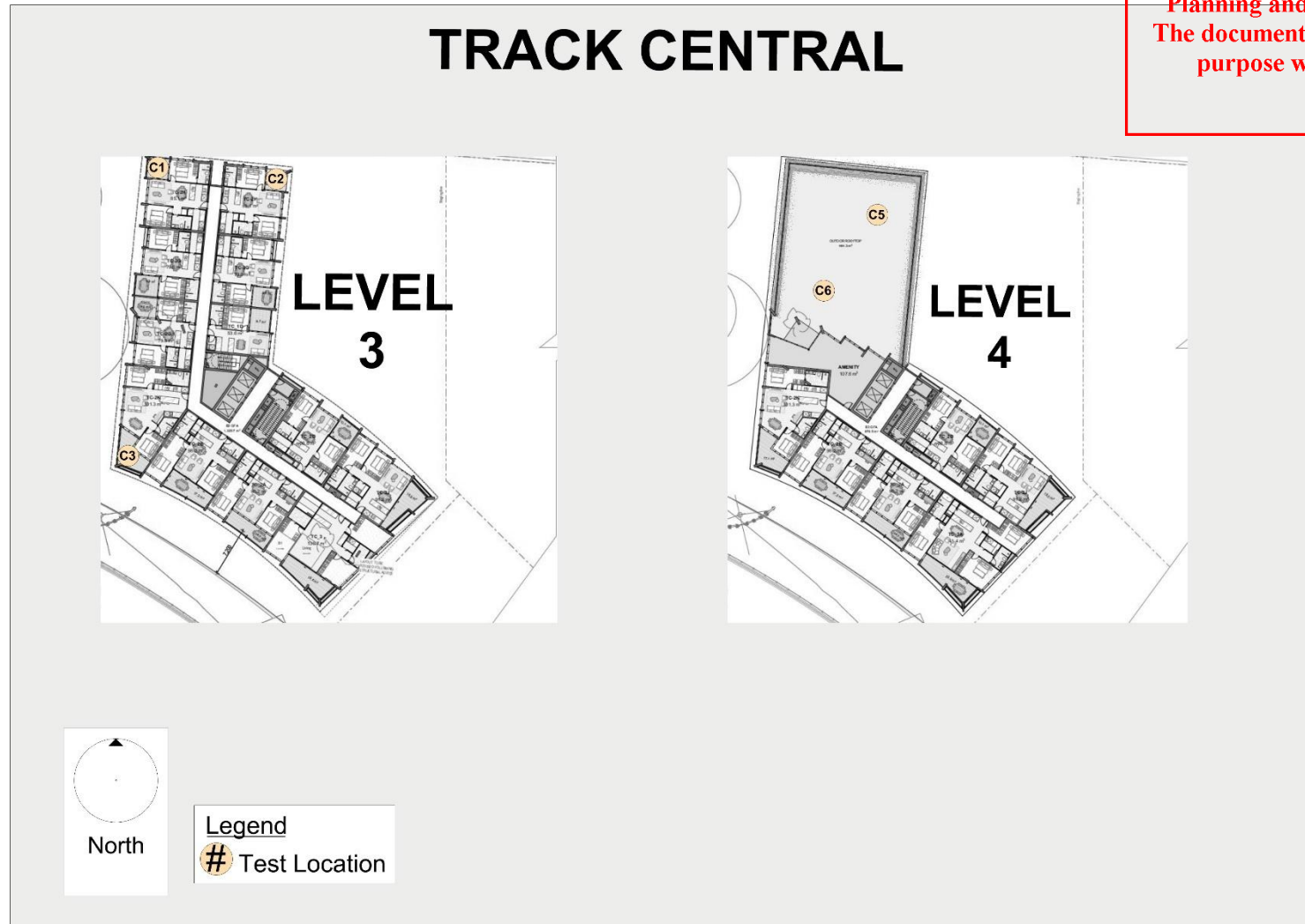


Figure 6e - Test Locations on the Level 3 & 4 terraces of Track Central of the Proposed 110 Wilson Street, Moonee Valley Development.

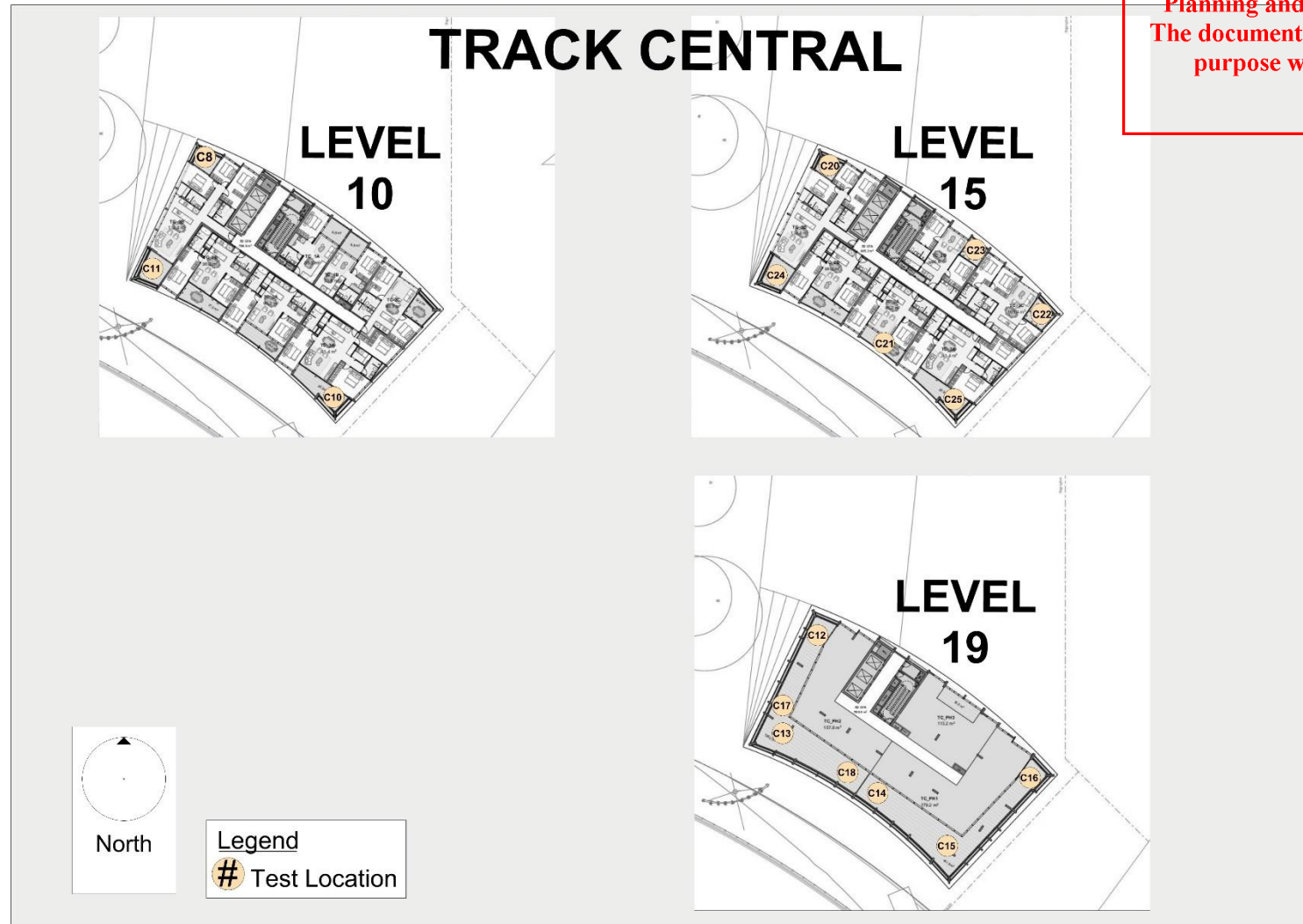


Figure 6f - Test Locations on the Level 10, 15, & 19 terraces of Track Central of the Proposed 110 Wilson Street, Moonee Valley Development.

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Figure 7a - Summary of wind criteria satisfied on the surrounding ground of the 110 Wilson Street, Moonee Valley Development for the Existing Configuration.

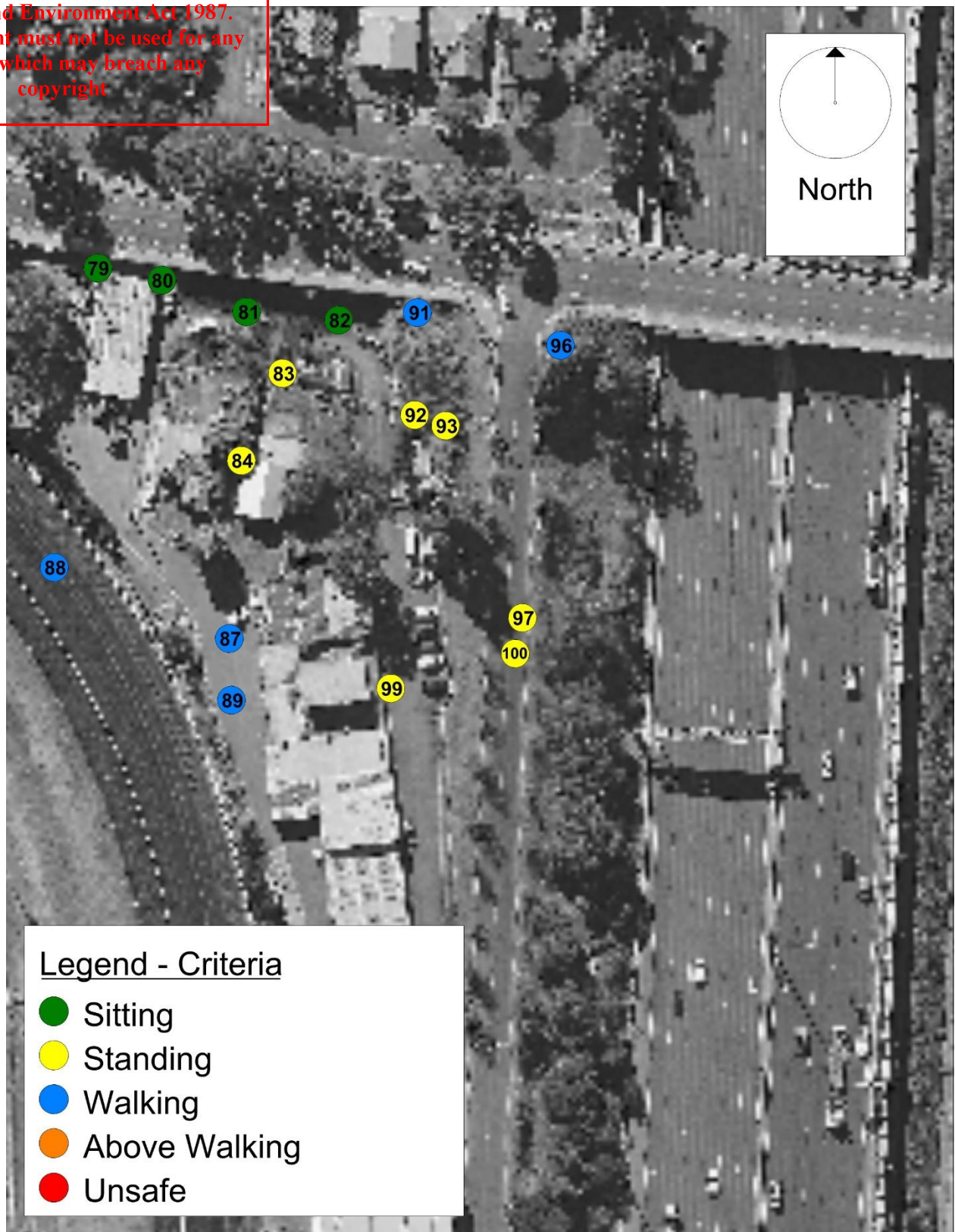


Figure 7b - Summary of wind criteria satisfied on the inner ground of the 110 Wilson Street, Moonee Valley Development for the Existing Configuration.

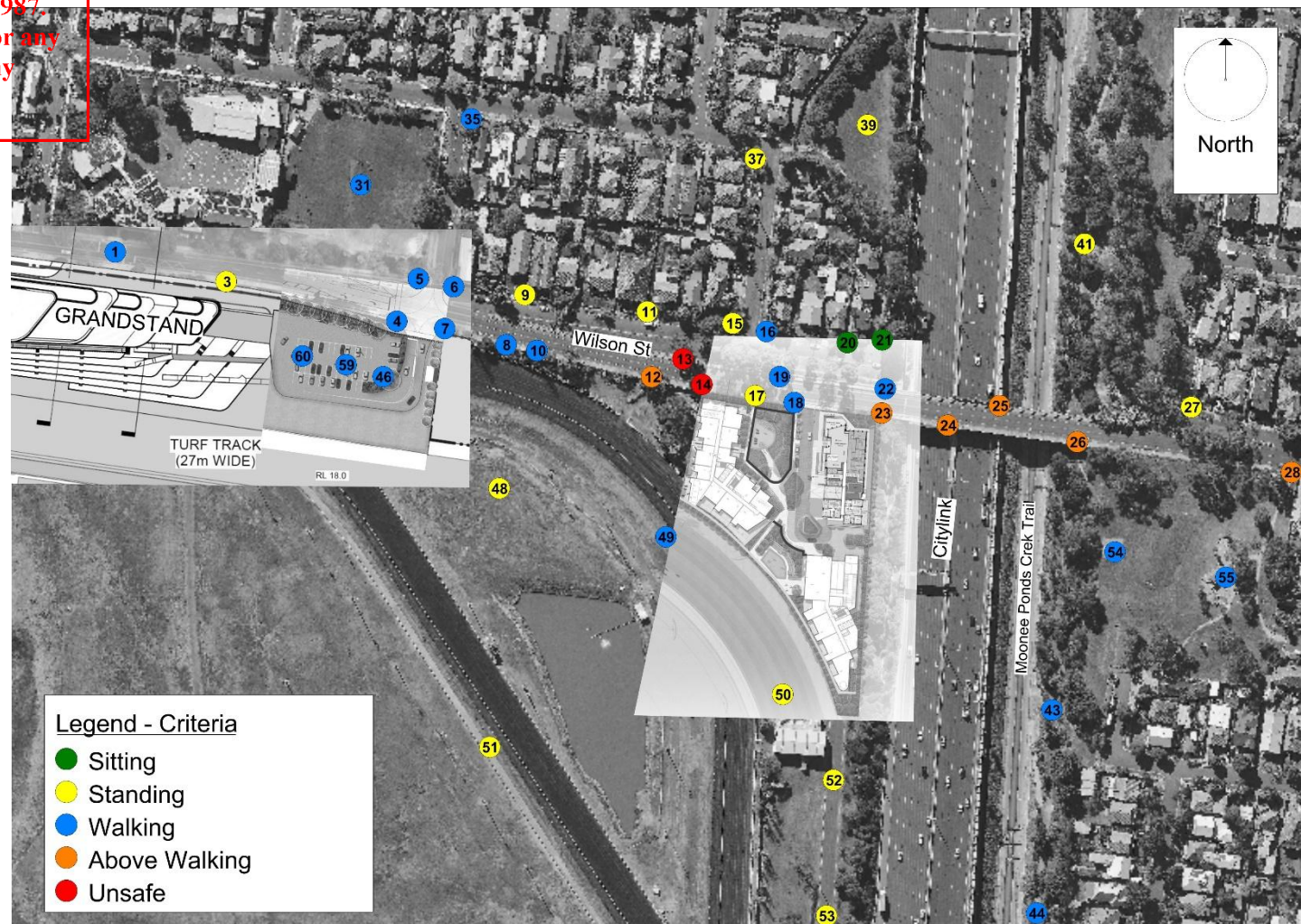


Figure 8a - Summary of wind criteria satisfied on the surrounding ground of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

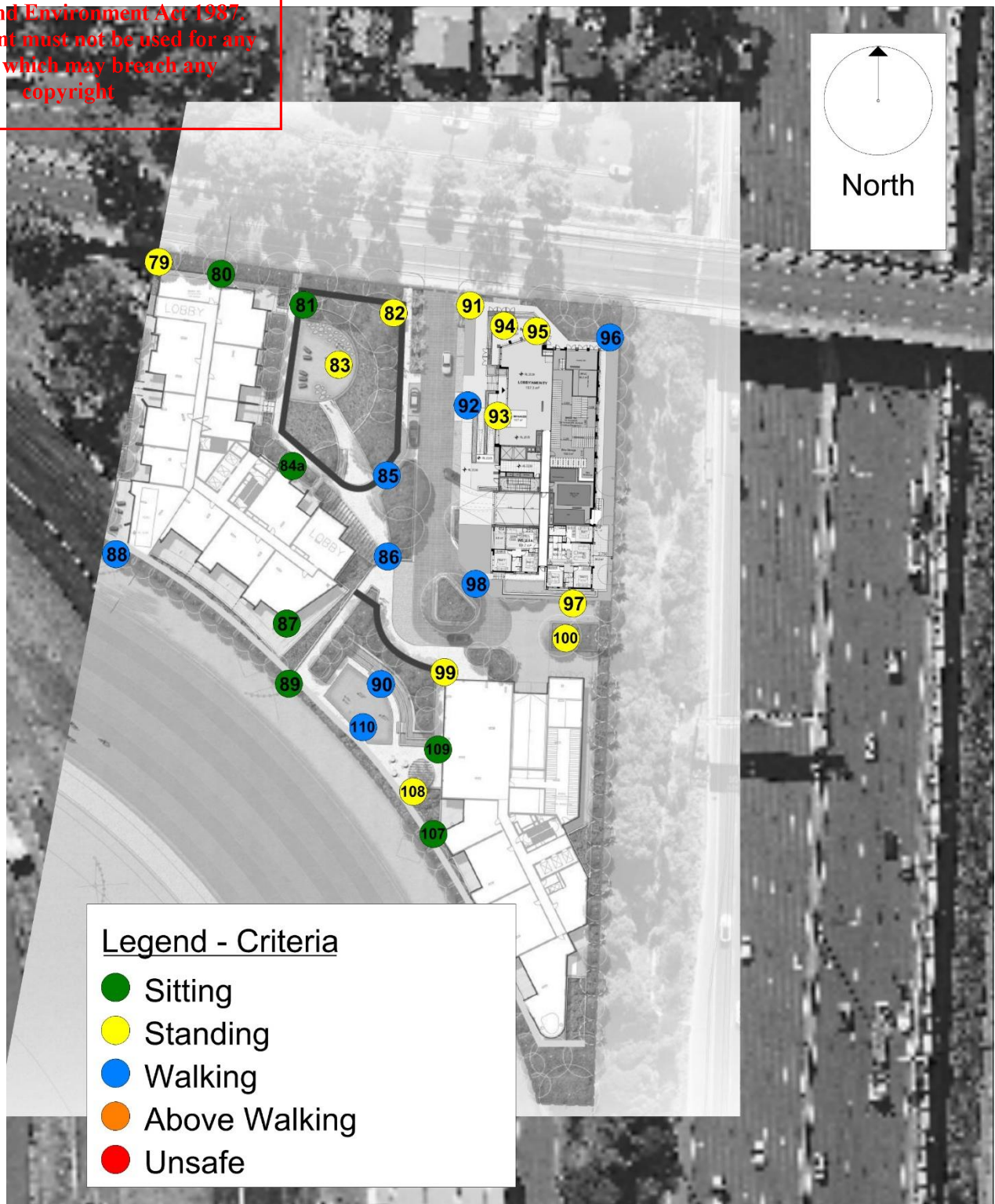


Figure 8b - Summary of wind criteria satisfied in the inner ground of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

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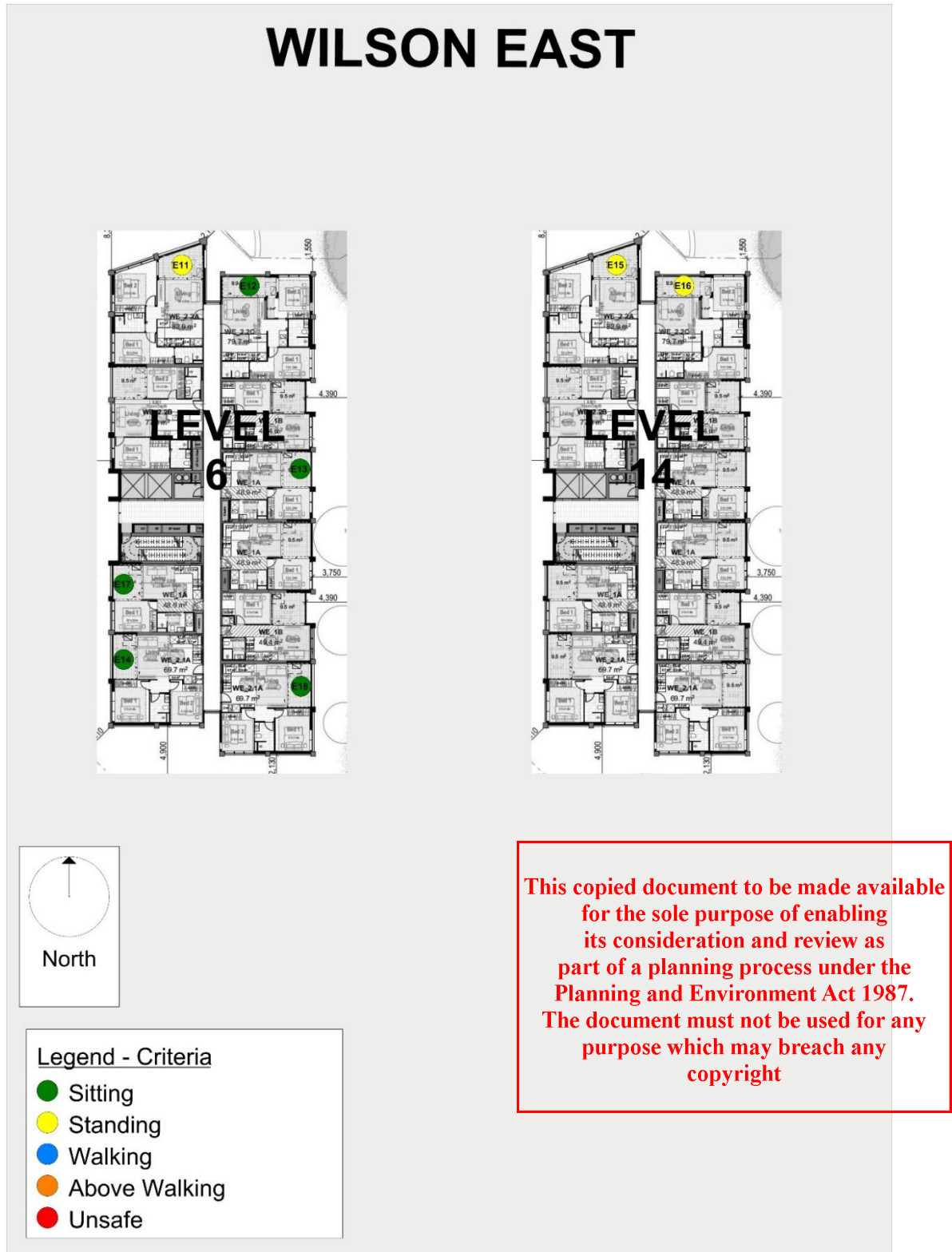


Figure 8c - Summary of wind criteria satisfied on the terraces of Wilson East of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

TRACK EAST

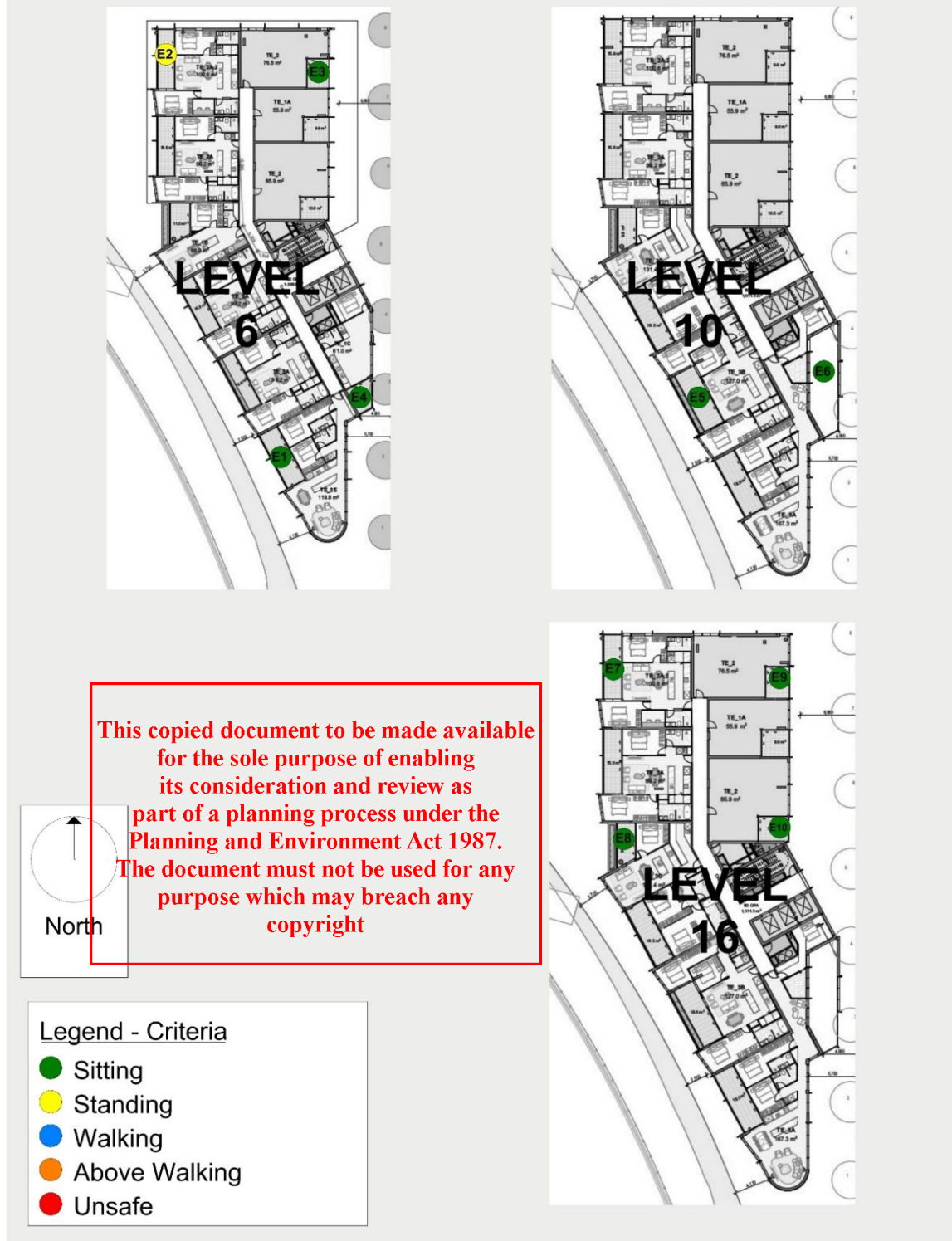


Figure 8d - Summary of wind criteria satisfied on terraces of Track East of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

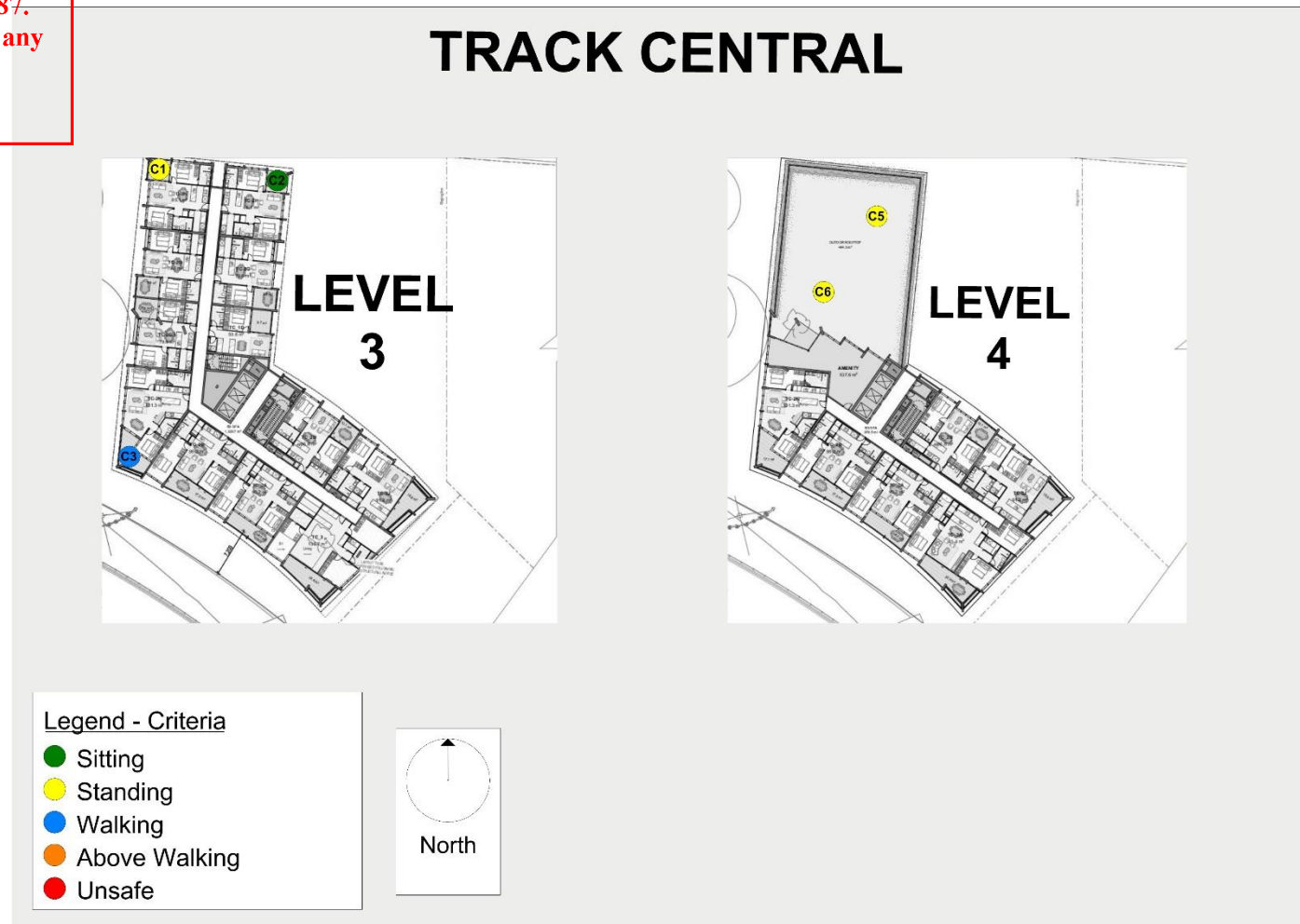


Figure 8e - Summary of wind criteria satisfied on Level 3 and 4 terraces of Track Central of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

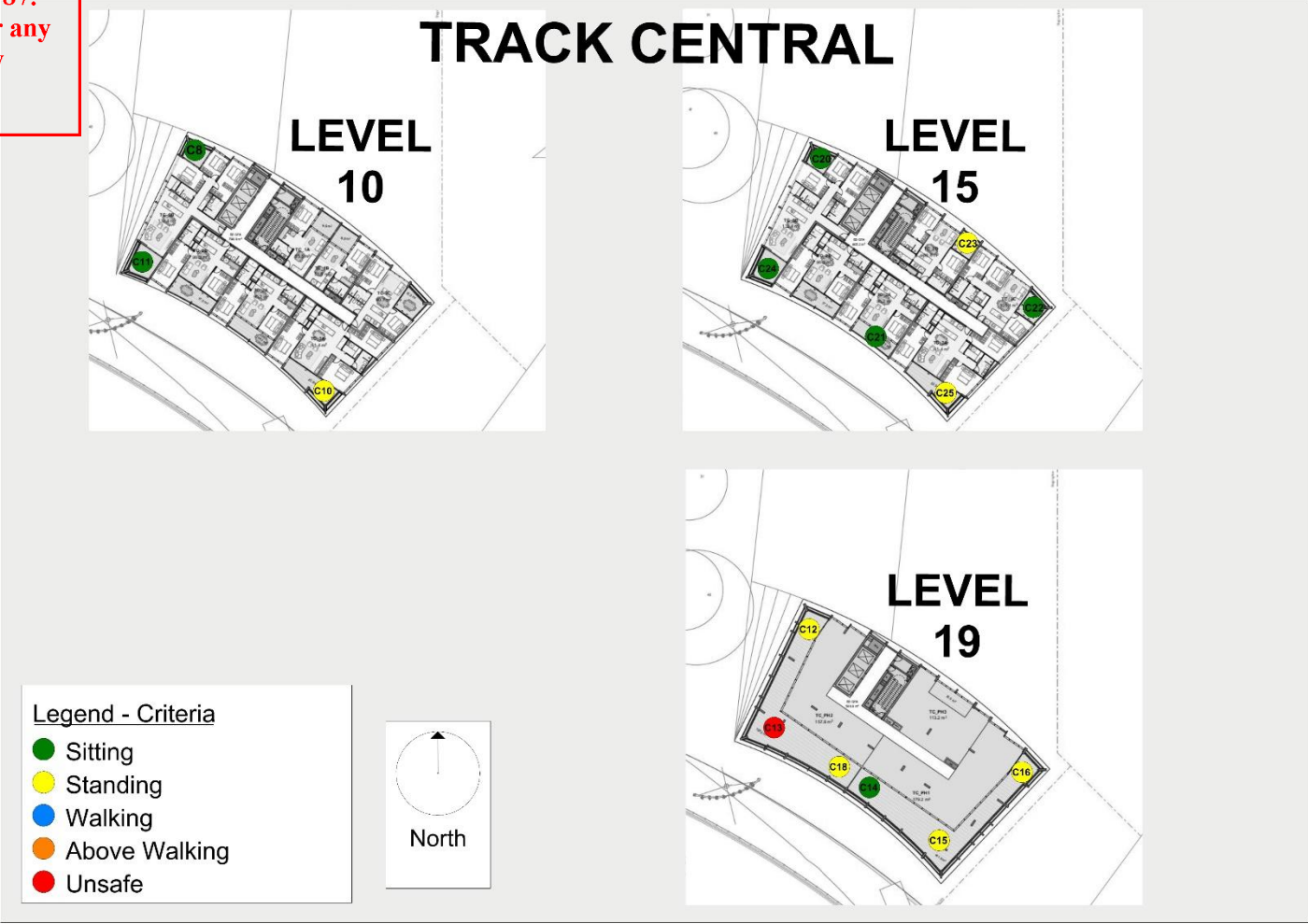


Figure 8f - Summary of wind criteria satisfied on Level 10, 15, and 19 terraces of Track Central of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration.

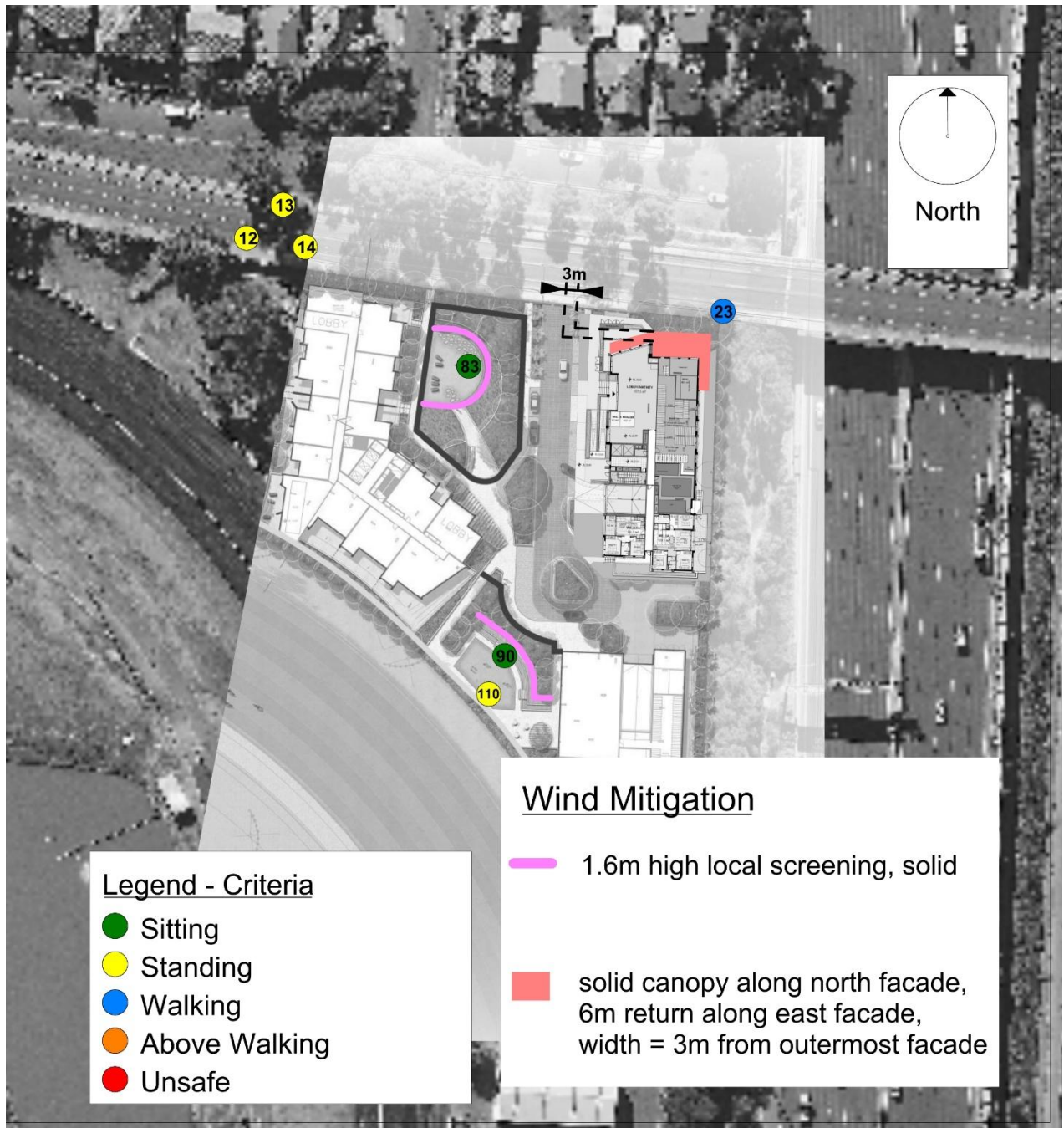


Figure 9a - Summary of wind criteria satisfied around the grounds of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration with wind mitigation strategies.

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TRACK CENTRAL

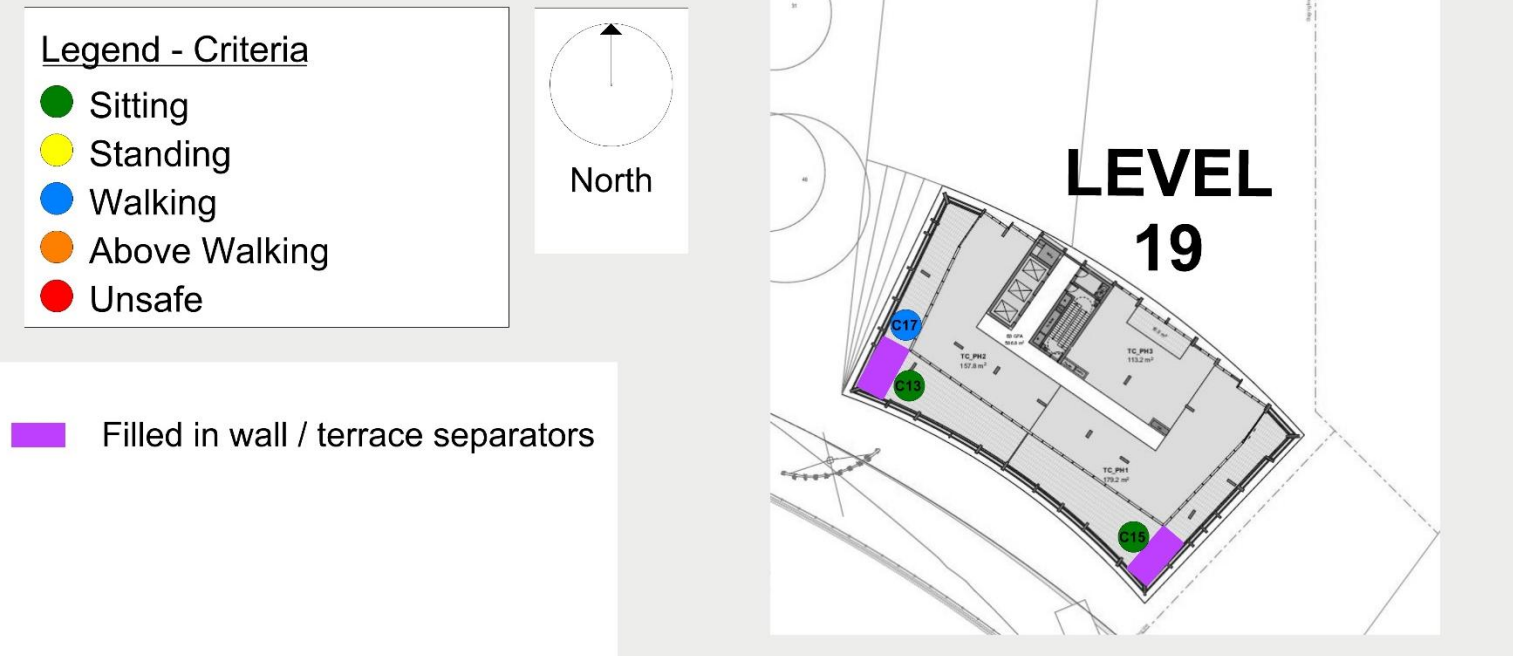


Figure 9b - Summary of wind criteria satisfied on the Level 19 terrace of Track Central of the 110 Wilson Street, Moonee Valley Development for the Proposed Configuration with wind mitigation strategies.

APPENDIX A – PEDESTRIAN SAFETY PLOTS

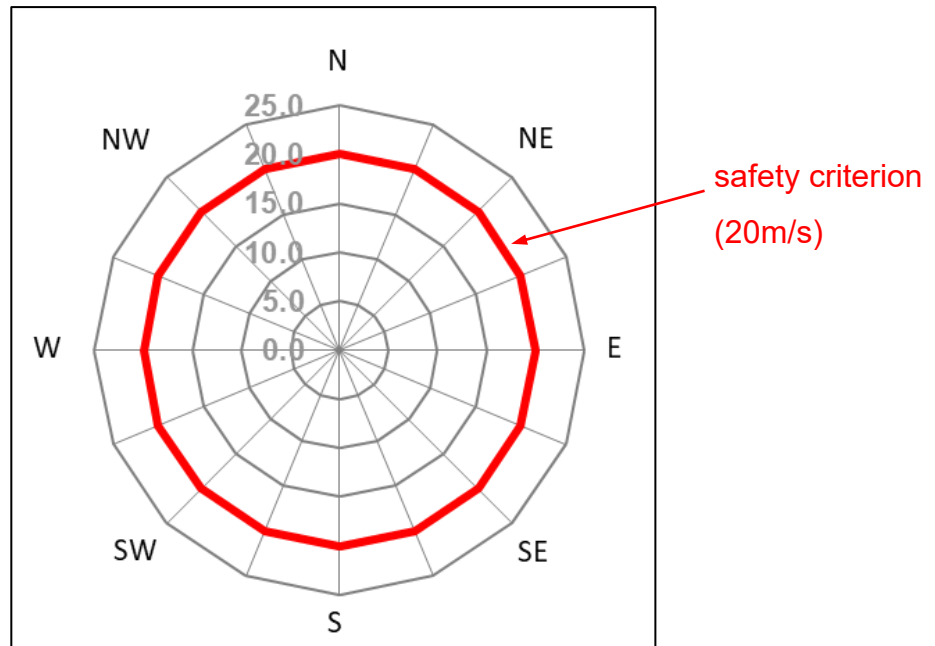
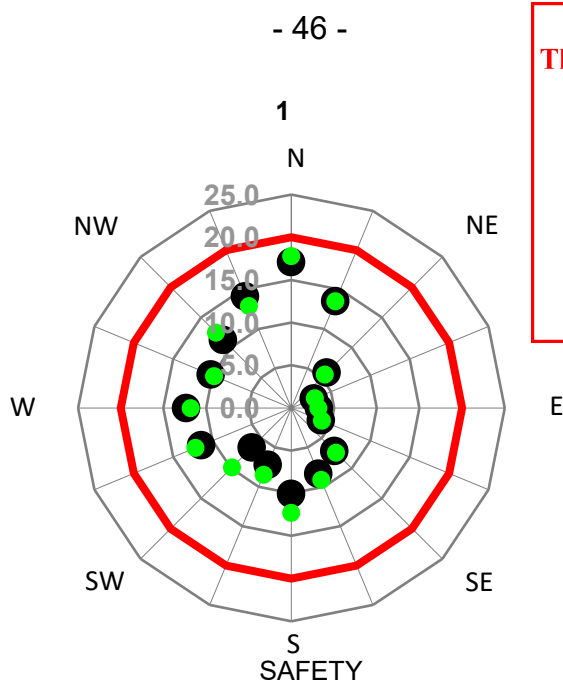


Figure A1 - Environmental wind safety criterion for Melbourne Region based on local 3 second peak gust wind speed

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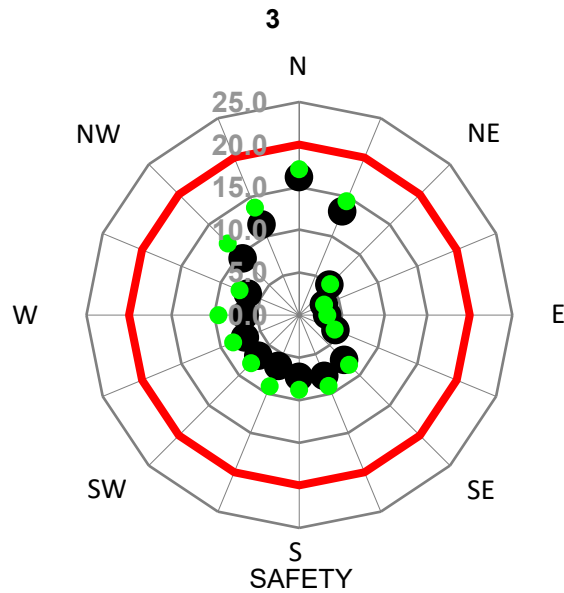
Local peak 3 second gust wind speed (m/s)

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	36.4%	20.6%	10.8%	4.0	Pass	17.1	Pass
● Existing Configuration	41.6%	24.4%	13.4%	4.4	Pass	17.8	Pass
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Local peak 3 second gust wind speed (m/s)

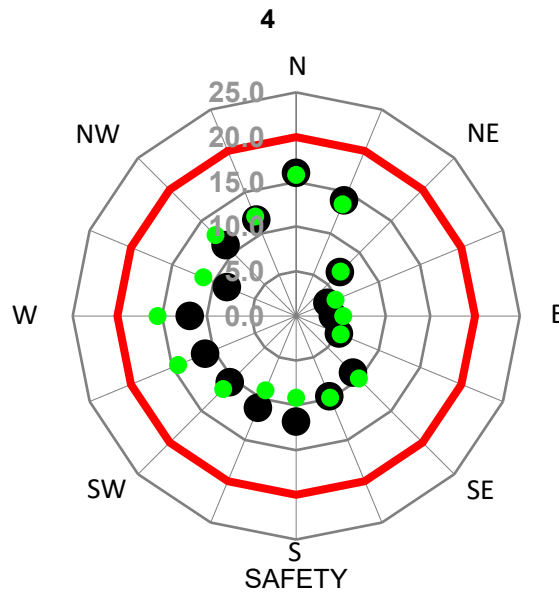
Safety Wind Speed = 20m/s

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	24.2%	13.3%	6.8%	3.3	Pass	16.2	Pass
● Existing Configuration	33.2%	17.8%	9.8%	3.8	Pass	17.1	Pass
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Local peak 3 second gust wind speed (m/s)

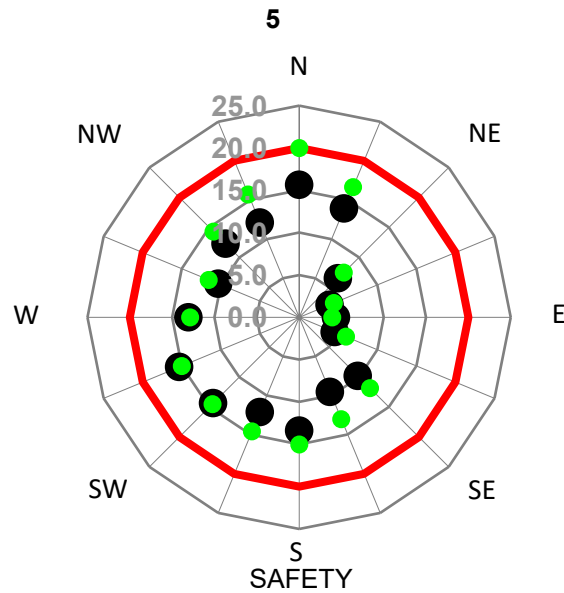
Safety Wind Speed = 20m/s

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	42.2%	24.9%	12.2%	4.4	Pass	16.0	Pass
● Existing Configuration	39.7%	22.4%	11.2%	4.2	Pass	15.8	Pass
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Local peak 3 second gust wind speed (m/s)

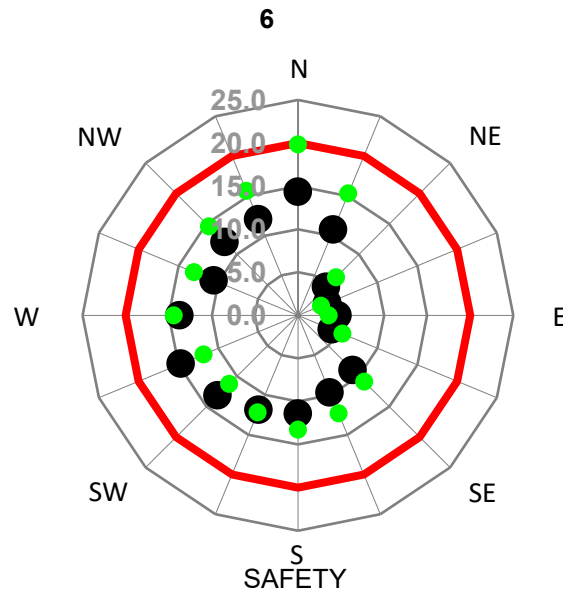
Safety Wind Speed = 20m/s

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	45.6%	27.6%	14.0%	4.6	Pass	15.7	Pass
● Existing Configuration	57.6%	39.9%	26.6%	5.6	Fail	20.0	Pass
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Local peak 3 second gust wind speed (m/s)

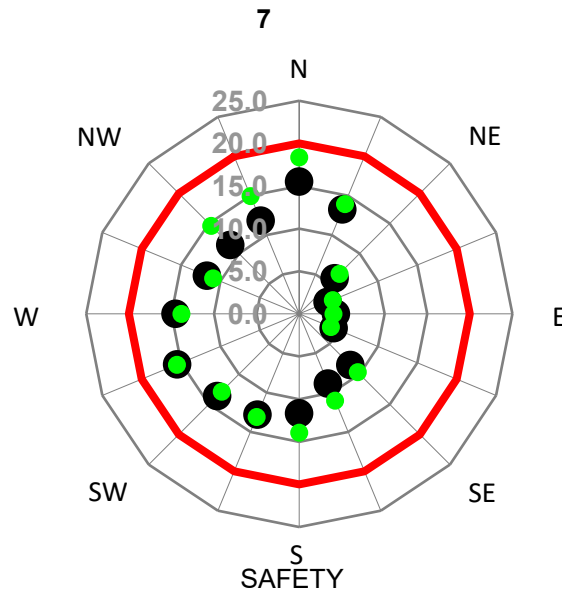
Safety Wind Speed = 20m/s

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	41.8%	23.8%	10.6%	4.2	Pass	14.7	Pass
● Existing Configuration	53.7%	35.2%	22.0%	5.2	Fail	19.8	Pass
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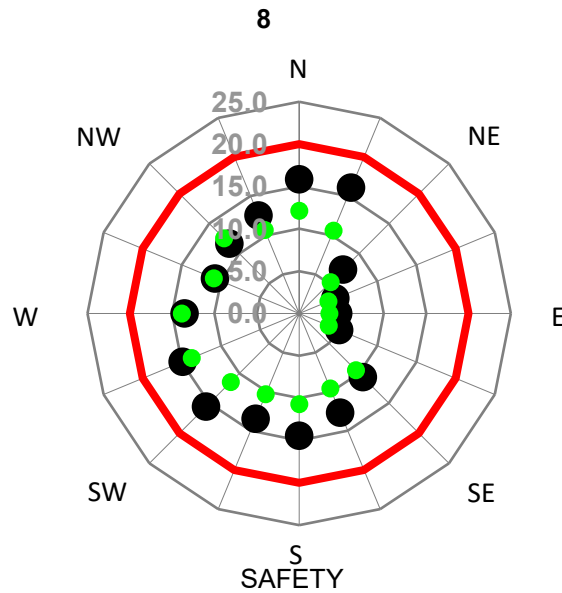


Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	44.9%	26.9%	13.2%	4.5	Pass	15.5	Pass
● Existing Configuration	52.4%	34.3%	20.9%	5.1	Fail	18.4	Pass
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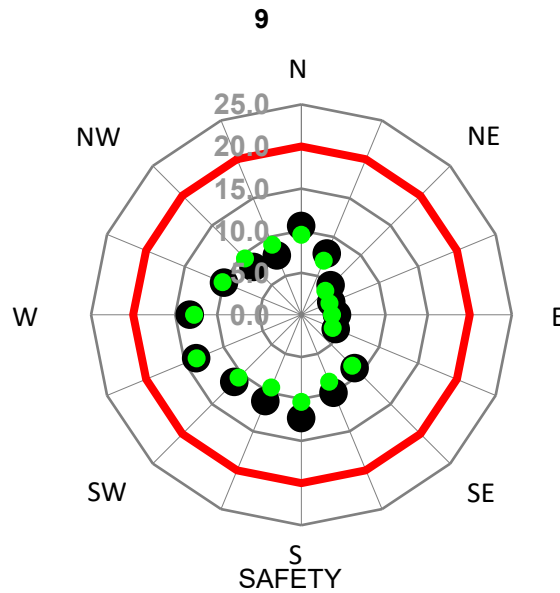


Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	50.8%	33.8%	19.8%	5.0	Pass	16.1	Pass
● Existing Configuration	37.9%	19.1%	7.9%	3.9	Pass	13.9	Pass
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Local peak 3 second gust wind speed (m/s)

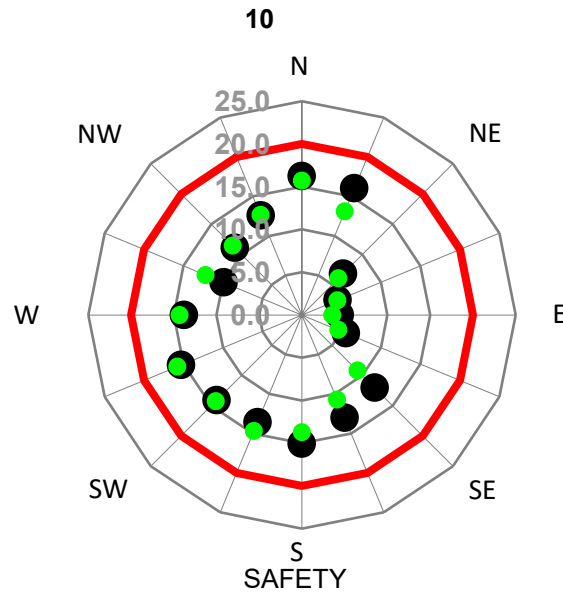
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	32.6%	15.0%	5.3%	3.6	Pass	13.5	Pass
● Existing Configuration	26.3%	10.6%	3.3%	3.3	Pass	13.5	Pass
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Local peak 3 second gust wind speed (m/s)

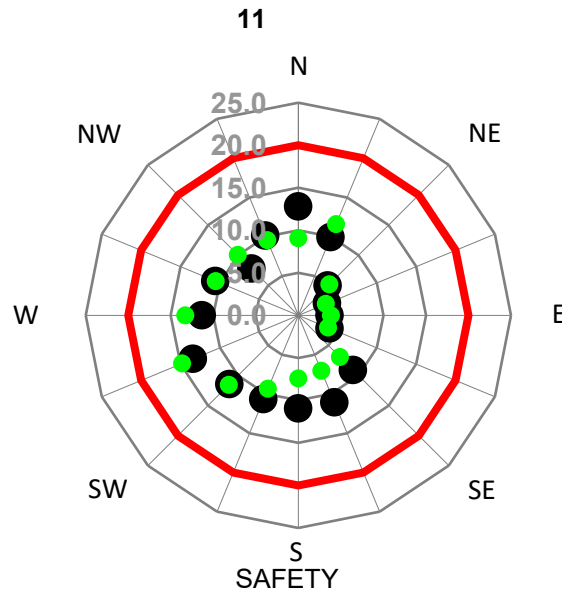
Safety Wind Speed = 20m/s

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	49.3%	31.8%	17.8%	4.8	Pass	16.2	Pass
● Existing Configuration	49.2%	31.8%	17.5%	4.8	Pass	15.8	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

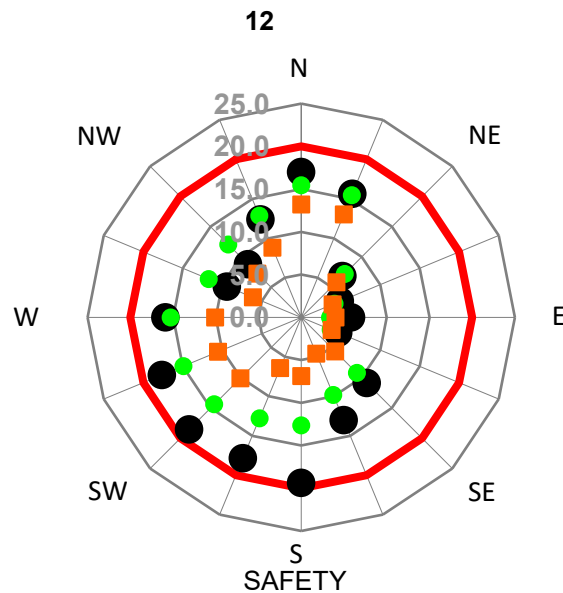
Safety Wind Speed = 20m/s

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	37.2%	18.8%	7.3%	3.9	Pass	13.4	Pass
● Existing Configuration	22.7%	10.0%	4.1%	3.2	Pass	14.8	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

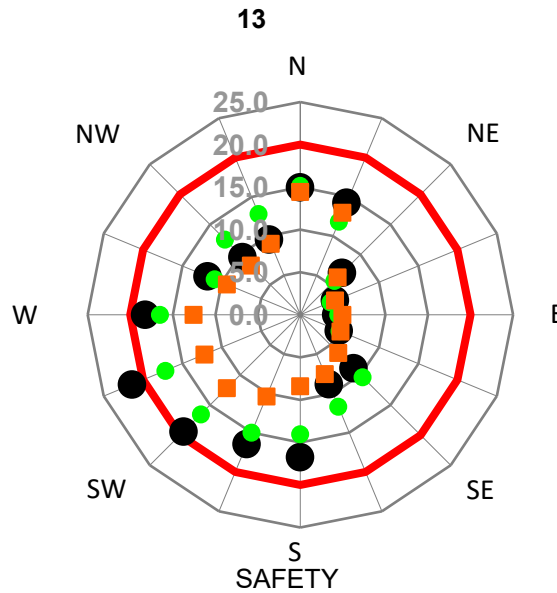
Safety Wind Speed = 20m/s

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	56.0%	39.9%	26.6%	5.6	Fail	19.4	Pass
● Existing Configuration	48.4%	30.6%	16.6%	4.7	Pass	15.5	Pass
■ Proposed Configuration + mitigation strategies	22.8%	10.4%	4.2%	3.2	Pass	13.2	Pass
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Local peak 3 second gust wind speed (m/s)

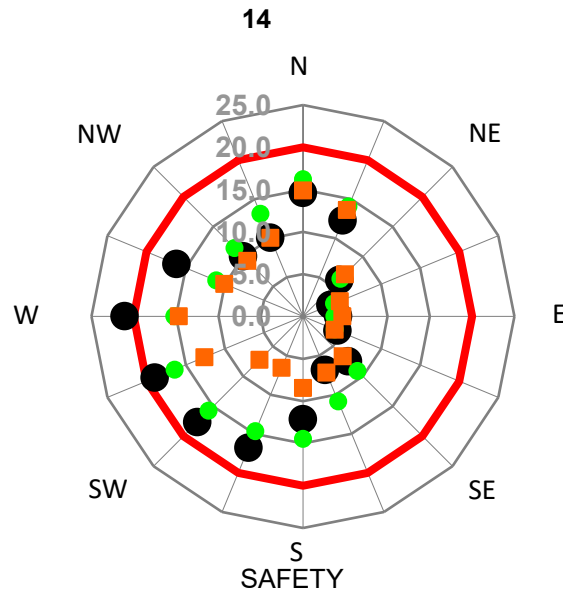
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	51.4%	35.1%	21.3%	5.1	NA - Safety criterion failed	21.4	Fail
● Existing Configuration	49.1%	31.3%	16.9%	4.8	Pass	17.2	Pass
■ Proposed Configuration + mitigation strategies	32.7%	16.6%	7.2%	3.7	Pass	14.4	Pass
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Local peak 3 second gust wind speed (m/s)

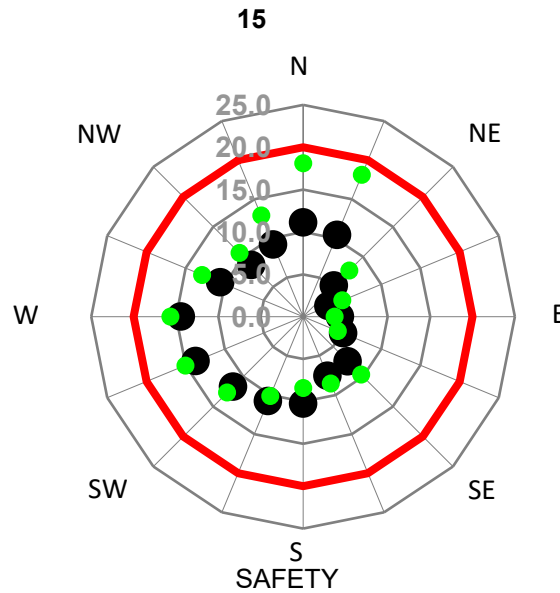
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	49.0%	32.0%	18.6%	4.9	NA - Safety criterion failed	21.1	Fail
● Existing Configuration	50.1%	32.8%	18.8%	4.9	Pass	16.4	Pass
■ Proposed Configuration + mitigation strategies	31.0%	16.5%	7.6%	3.7	Pass	14.9	Pass
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Local peak 3 second gust wind speed (m/s)

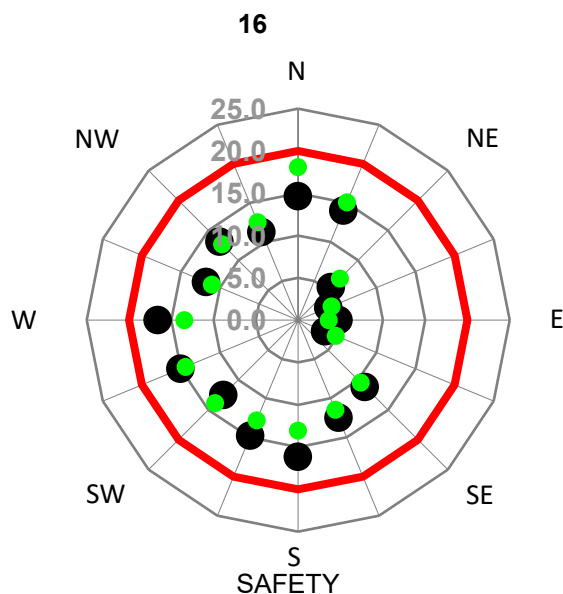
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	31.8%	14.0%	5.1%	3.6	Pass	14.4	Pass
● Existing Configuration	43.5%	26.5%	16.3%	4.6	Pass	18.1	Pass
■ Proposed Configuration + mitigation strategies							
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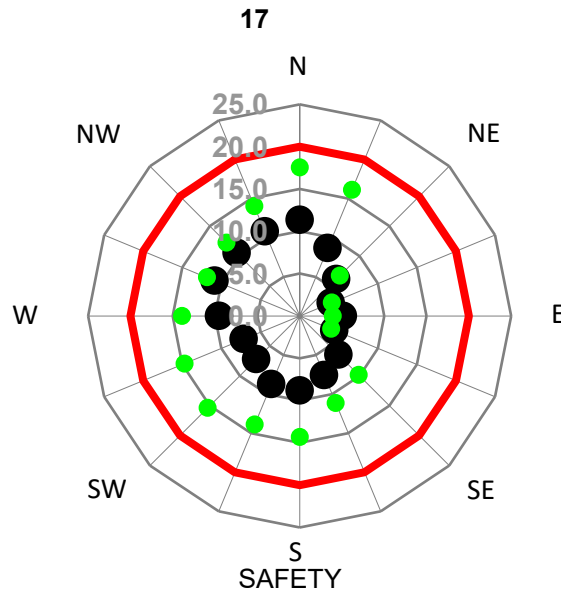


Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
● Proposed Configuration	48.9%	31.6%	17.4%	4.8	Pass	16.6	Pass
● Existing Configuration	52.4%	34.3%	21.1%	5.1	Fail	18.1	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

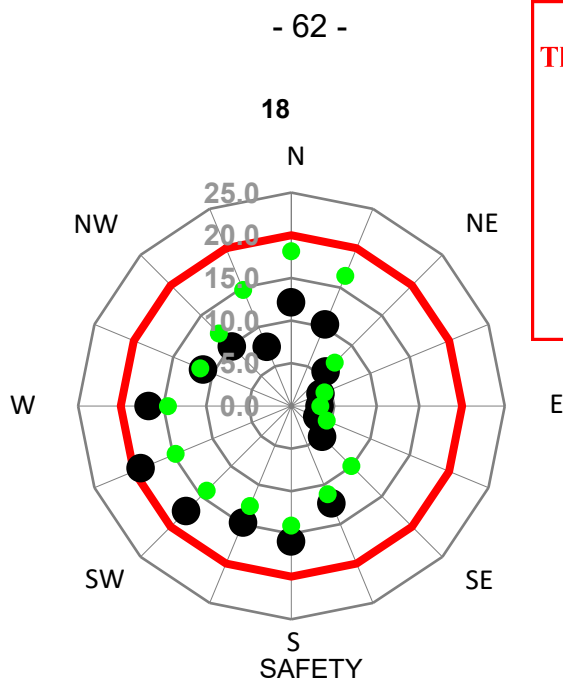
Safety Wind Speed = 20m/s

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	22.4%	7.6%	2.0%	3.1	Pass	11.3	Pass
● Existing Configuration	51.6%	33.7%	20.4%	5.0	Fail	17.5	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

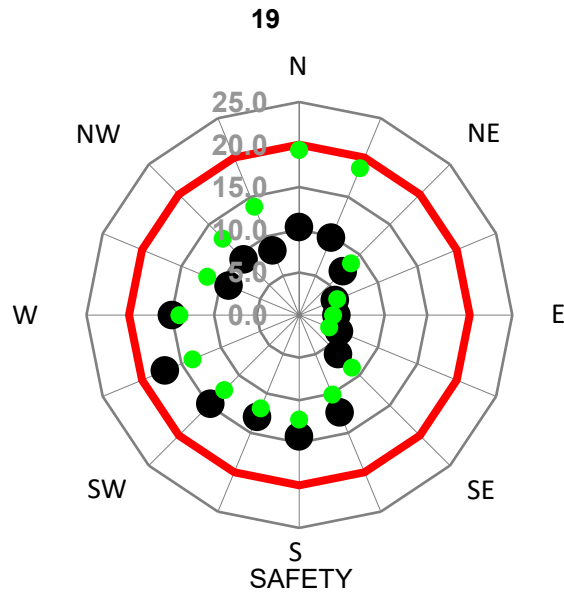
Safety Wind Speed = 20m/s

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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)				
● Proposed Configuration	46.9%	30.2%	18.5%	4.9	Pass	19.1	Pass
● Existing Configuration	52.7%	34.4%	21.0%	5.1	Fail	18.1	Pass
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Local peak 3 second gust wind speed (m/s)

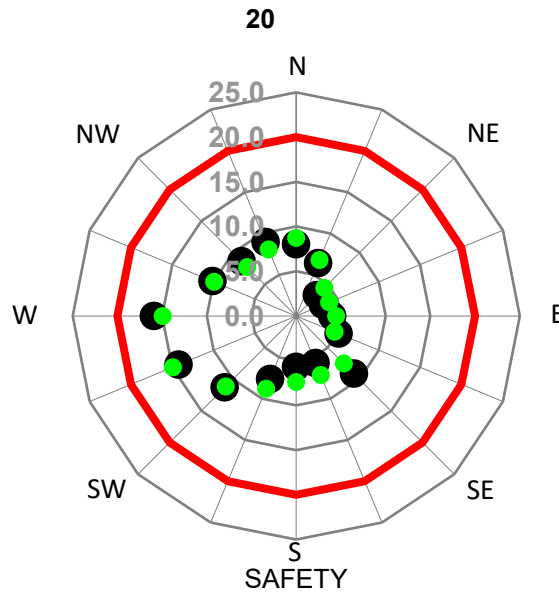
Safety Wind Speed = 20m/s

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	39.5%	22.2%	11.2%	4.2	Pass	17.0	Pass
● Existing Configuration	52.3%	33.3%	20.8%	5.1	Fail	19.4	Pass
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Test Location



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

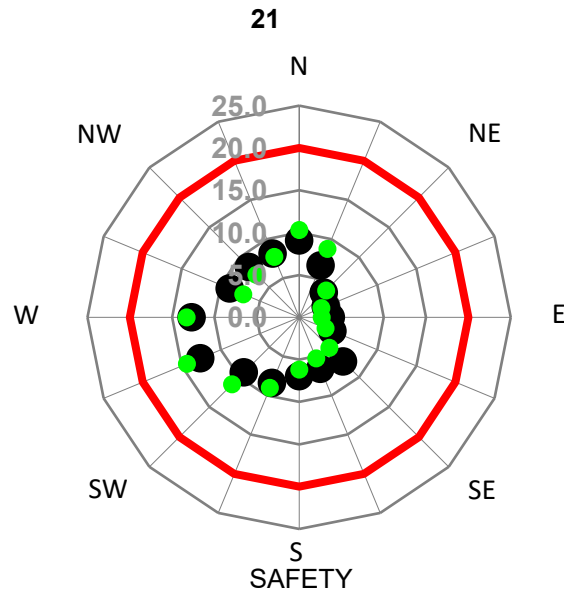
Safety Wind Speed = 20m/s

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	17.9%	8.2%	3.9%	2.9	Pass		15.9	Pass
● Existing Configuration	21.0%	8.6%	3.9%	3.1	Pass		14.9	Pass
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Test Location



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

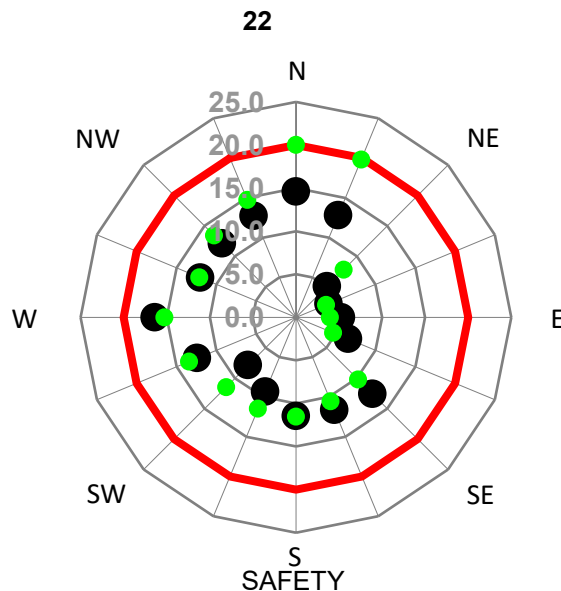
Safety Wind Speed = 20m/s

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	17.8%	6.3%	2.2%	2.9	Pass	12.7	Pass
● Existing Configuration	20.9%	8.5%	3.1%	3.0	Pass	14.3	Pass
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Test Location



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

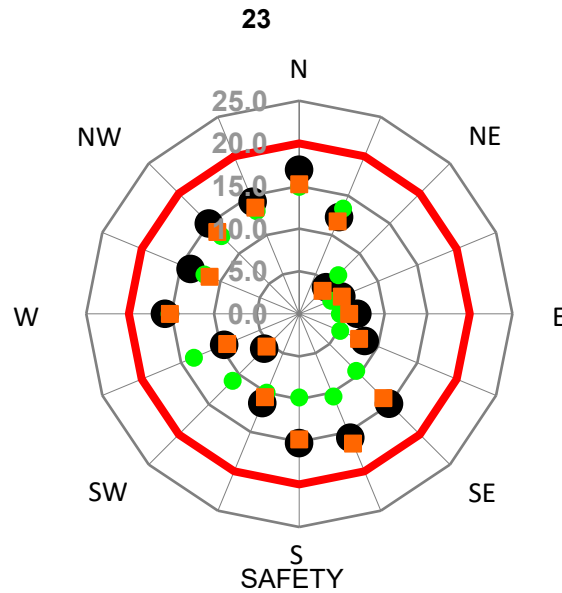
Safety Wind Speed = 20m/s

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	41.1%	23.3%	11.0%	4.2	Pass	16.4	Pass
● Existing Configuration	51.4%	32.2%	19.5%	5.0	Pass	20.0	Pass
■ Proposed Configuration + mitigation strategies							
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Test Location



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

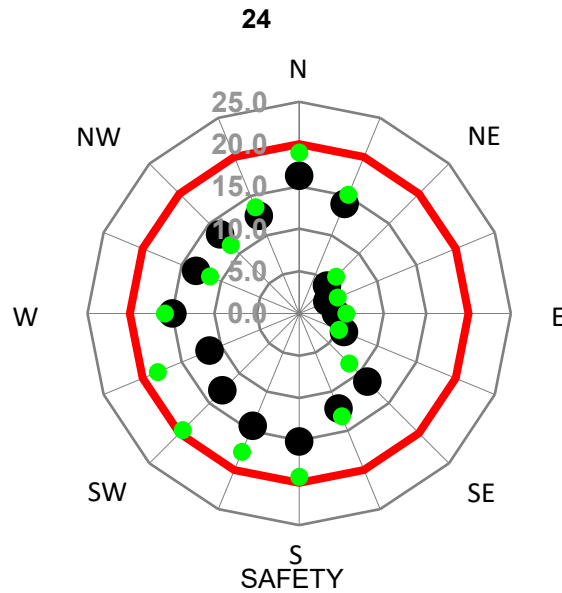
Safety Wind Speed = 20m/s

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	50.9%	35.2%	23.1%	5.3	Fail	16.9	Pass
● Existing Configuration	39.9%	21.9%	10.3%	4.1	Pass	15.2	Pass
■ Proposed Configuration + mitigation strategies	46.6%	31.7%	19.5%	5.0	Pass	16.5	Pass
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Test Location



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

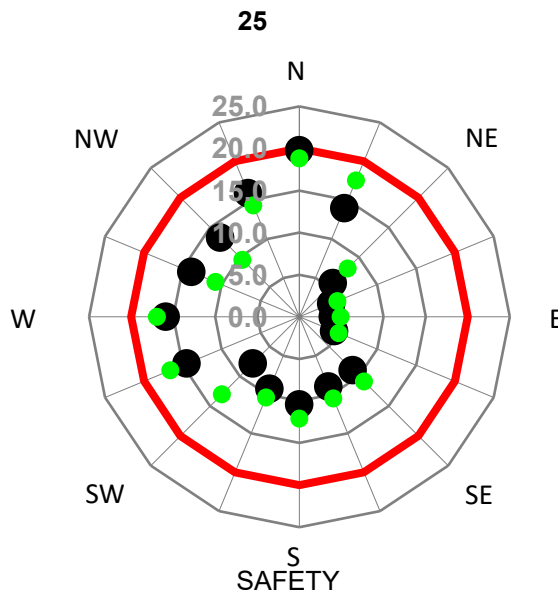
Safety Wind Speed = 20m/s

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	53.2%	35.8%	23.0%	5.3	Fail	16.3	Pass
● Existing Configuration	60.7%	45.0%	32.6%	6.1	Fail	19.5	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

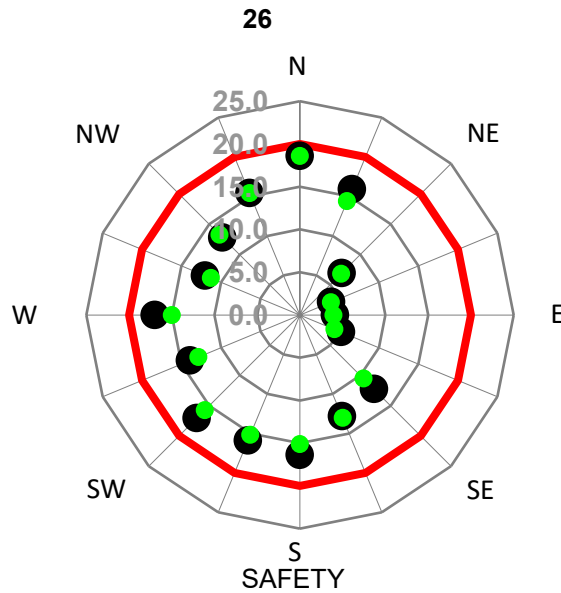
Safety Wind Speed = 20m/s

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	49.1%	31.9%	20.9%	5.1	Fail	19.8	Pass
● Existing Configuration	55.2%	36.4%	23.4%	5.4	Fail	18.8	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

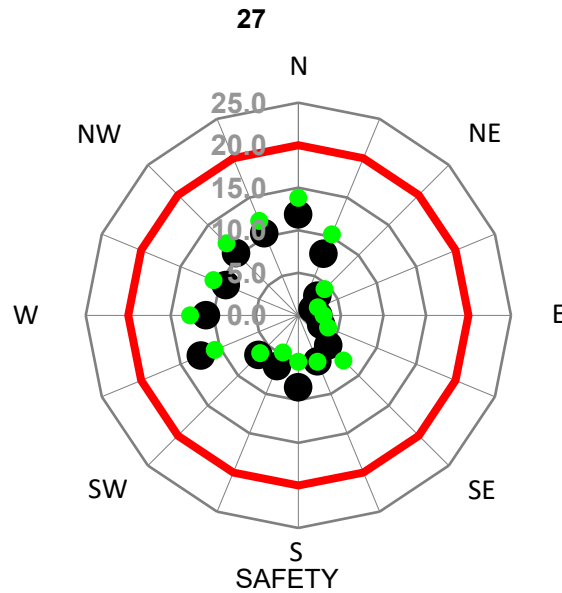
Safety Wind Speed = 20m/s

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	60.4%	42.9%	29.7%	5.9	Fail	18.6	Pass
● Existing Configuration	55.8%	38.4%	25.1%	5.4	Fail	18.6	Pass
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Local peak 3 second gust wind speed (m/s)

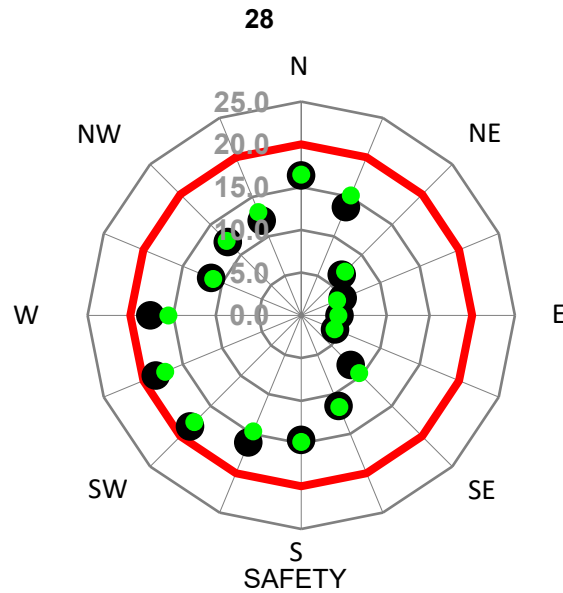
Safety Wind Speed = 20m/s

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	23.2%	9.1%	3.2%	3.2	Pass	12.4	Pass
● Existing Configuration	24.6%	13.4%	5.9%	3.4	Pass	13.8	Pass
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Local peak 3 second gust wind speed (m/s)

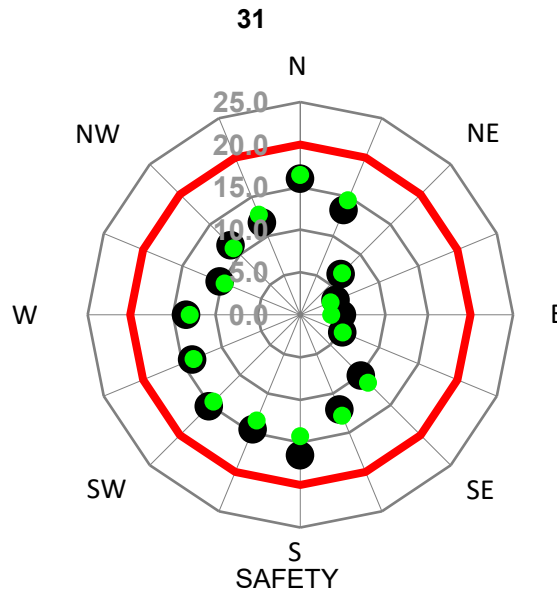
Safety Wind Speed = 20m/s

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	52.4%	35.2%	21.0%	5.1	Fail	18.4	Pass
● Existing Configuration	52.1%	34.7%	20.8%	5.1	Fail	17.7	Pass
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Local peak 3 second gust wind speed (m/s)

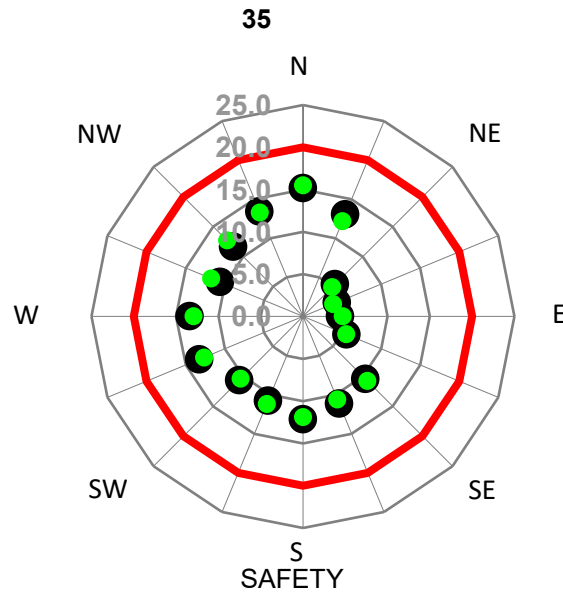
Safety Wind Speed = 20m/s

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	49.7%	33.0%	19.1%	4.9	Pass	16.5	Pass
● Existing Configuration	50.1%	33.4%	19.9%	5.0	Pass	16.5	Pass
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Local peak 3 second gust wind speed (m/s)

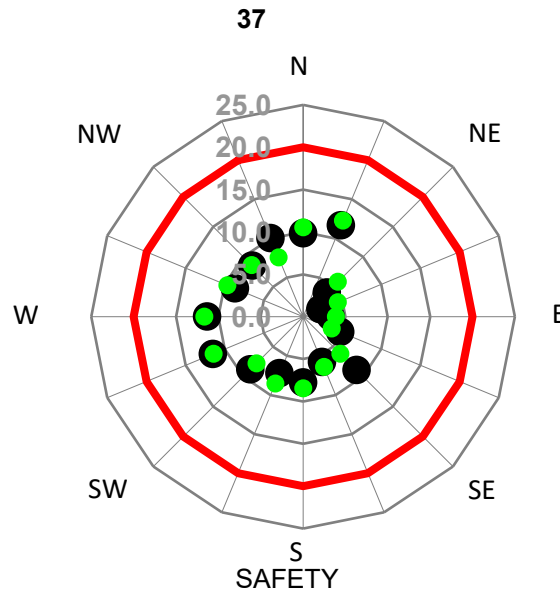
Safety Wind Speed = 20m/s

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	41.9%	24.0%	10.9%	4.3	Pass	15.2	Pass
● Existing Configuration	43.0%	25.1%	11.7%	4.3	Pass	15.5	Pass
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Local peak 3 second gust wind speed (m/s)

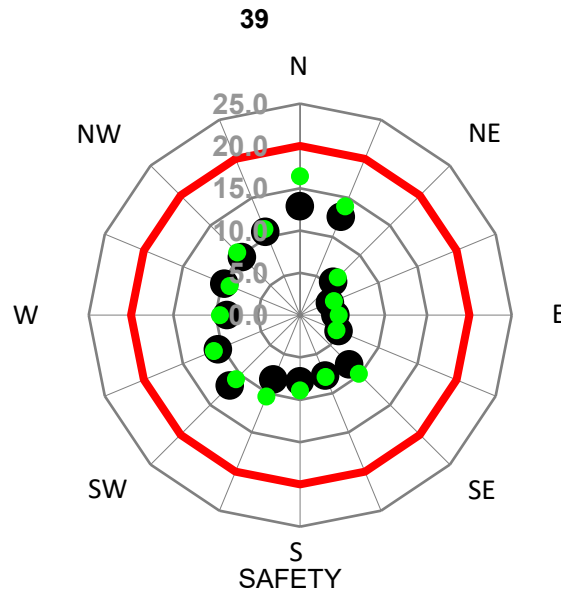
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	20.0%	7.2%	2.0%	3.0	Pass	11.7	Pass
● Existing Configuration	22.3%	7.9%	2.2%	3.1	Pass	12.3	Pass
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Local peak 3 second gust wind speed (m/s)

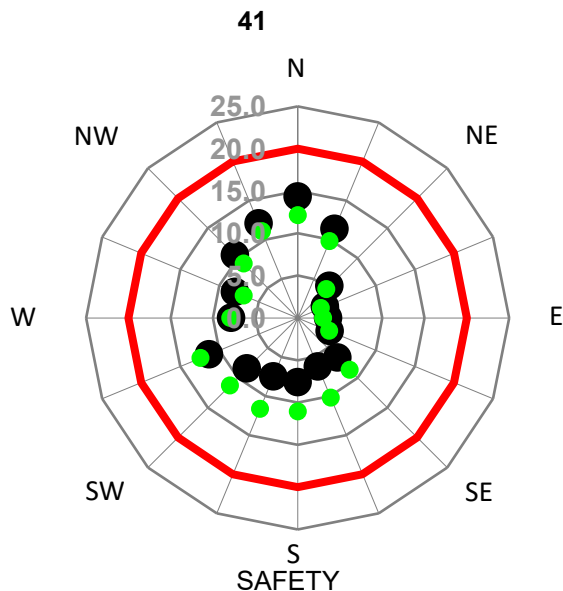
Safety Wind Speed = 20m/s

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	26.3%	11.5%	4.3%	3.4	Pass	12.9	Pass
● Existing Configuration	33.7%	17.9%	8.8%	3.8	Pass	16.4	Pass
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Local peak 3 second gust wind speed (m/s)

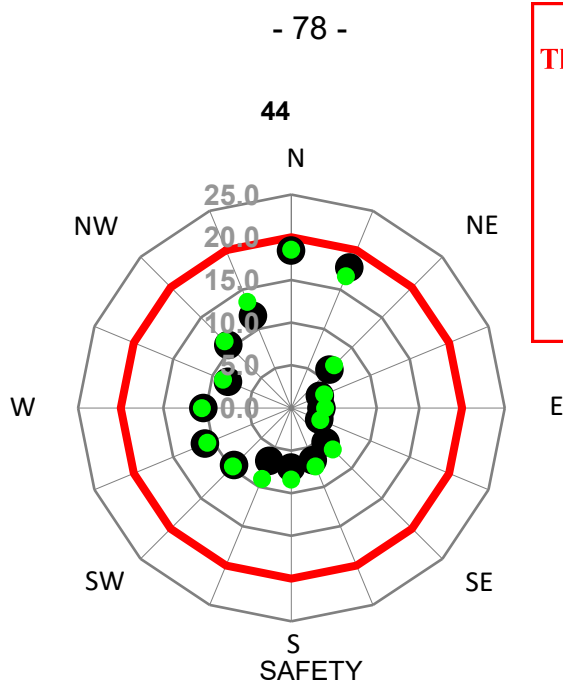
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	25.4%	12.8%	5.3%	3.3	Pass	14.3	Pass
● Existing Configuration	32.0%	14.5%	5.0%	3.7	Pass	12.4	Pass
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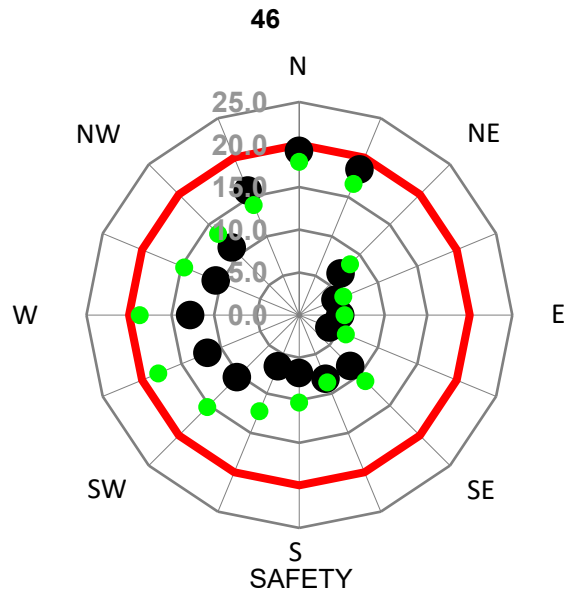
Local peak 3 second gust wind speed (m/s)

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 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%	20.5%	13.4%	4.1	Pass	18.4	Pass
● Existing Configuration	38.5%	22.3%	14.4%	4.2	Pass	18.5	Pass
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Test Location



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

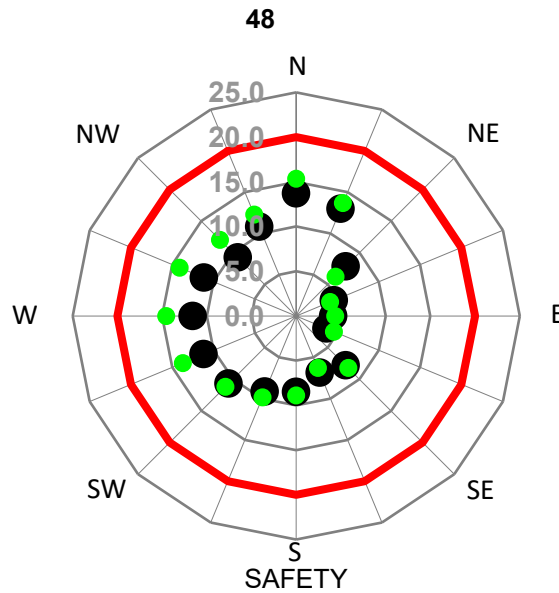
Safety Wind Speed = 20m/s

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%	22.8%	14.4%	4.3	Pass	19.3	Pass
● Existing Configuration	50.3%	31.3%	19.6%	5.0	Pass	18.7	Pass
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Local peak 3 second gust wind speed (m/s)

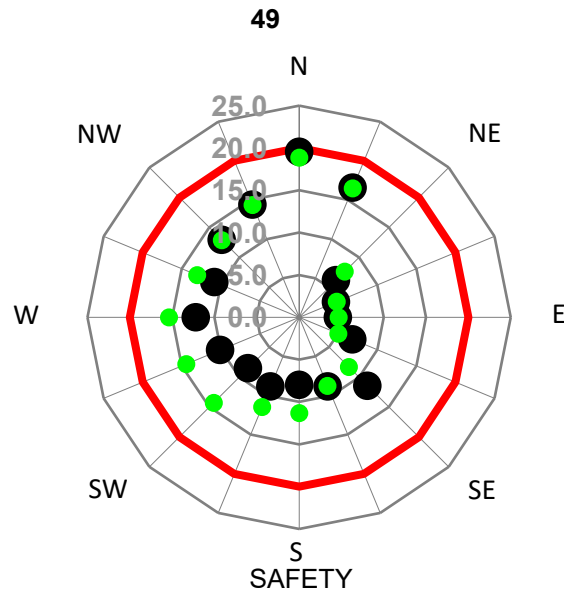
Safety Wind Speed = 20m/s

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	31.7%	16.2%	6.8%	3.7	Pass	13.7	Pass
● Existing Configuration	37.8%	21.2%	10.9%	4.1	Pass	15.4	Pass
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Local peak 3 second gust wind speed (m/s)

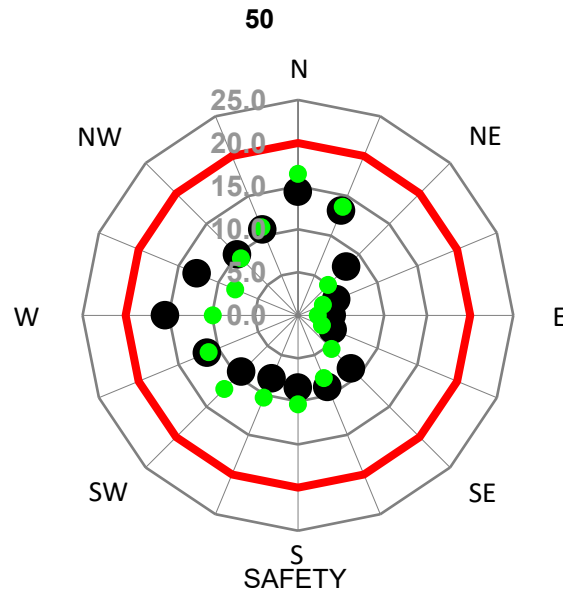
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	38.8%	22.5%	14.2%	4.2	Pass	19.5	Pass
● Existing Configuration	48.7%	29.8%	17.7%	4.8	Pass	18.9	Pass
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Local peak 3 second gust wind speed (m/s)

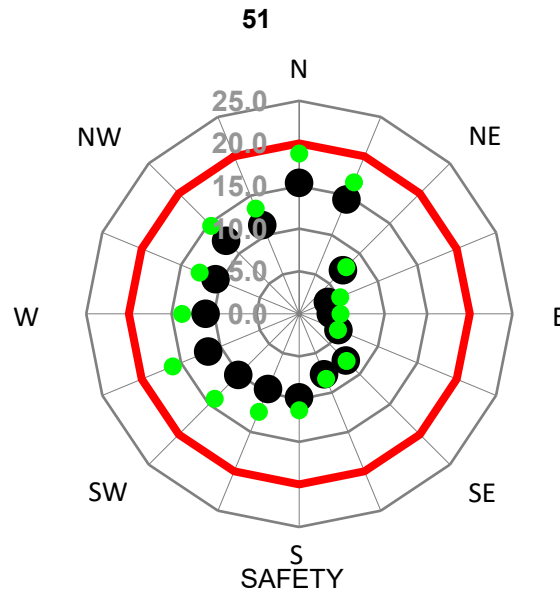
Safety Wind Speed = 20m/s

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	33.7%	17.7%	8.0%	3.8	Pass	15.4	Pass
● Existing Configuration	35.3%	19.1%	8.9%	3.9	Pass	16.4	Pass
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Local peak 3 second gust wind speed (m/s)

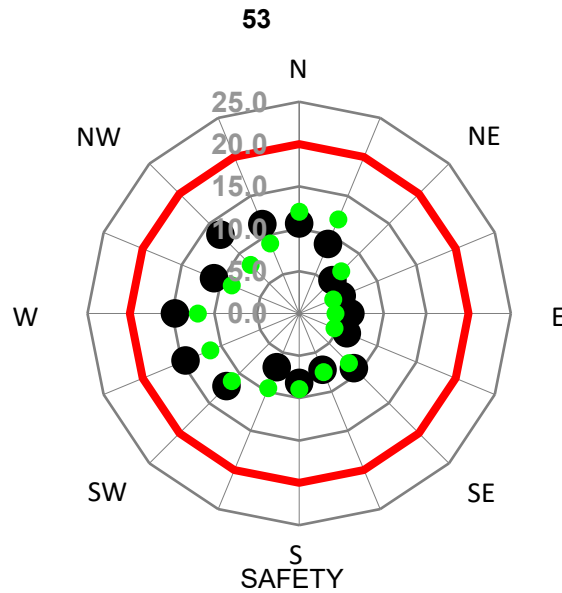
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	35.9%	19.2%	9.0%	3.9	Pass	15.4	Pass
● Existing Configuration	48.9%	30.0%	18.0%	4.8	Pass	18.8	Pass
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Test Location



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

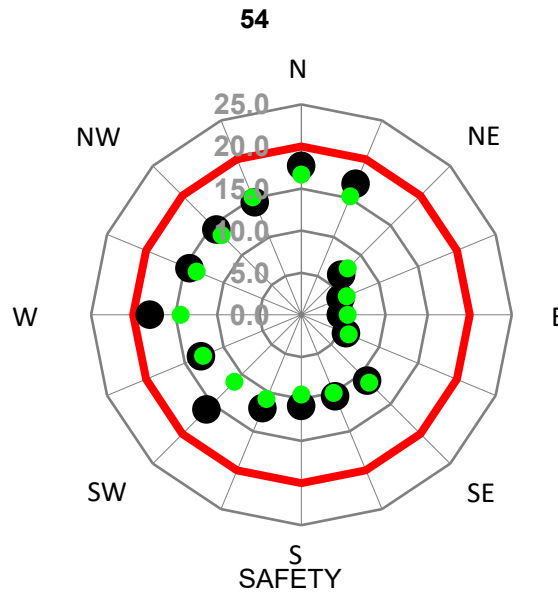
Safety Wind Speed = 20m/s

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	28.6%	12.7%	5.4%	3.4	Pass	14.7	Pass
● Existing Configuration	28.8%	11.8%	4.2%	3.5	Pass	12.0	Pass
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Test Location



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

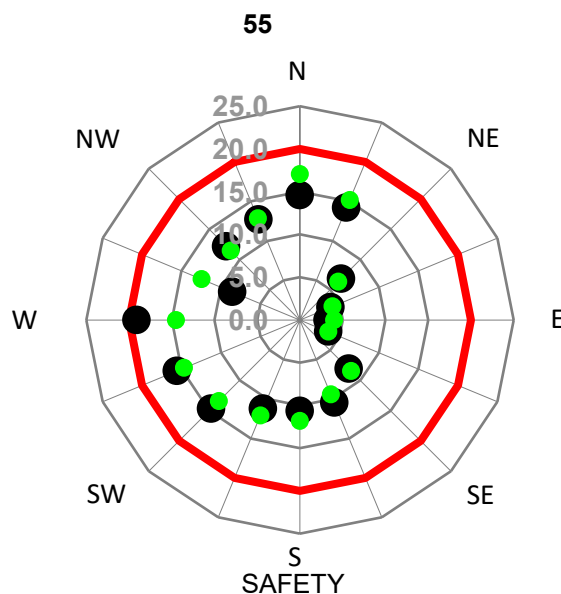
Safety Wind Speed = 20m/s

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	50.3%	31.2%	18.6%	4.9	Pass	18.0	Pass
● Existing Configuration	42.2%	24.3%	13.1%	4.3	Pass	16.7	Pass
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Test Location



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

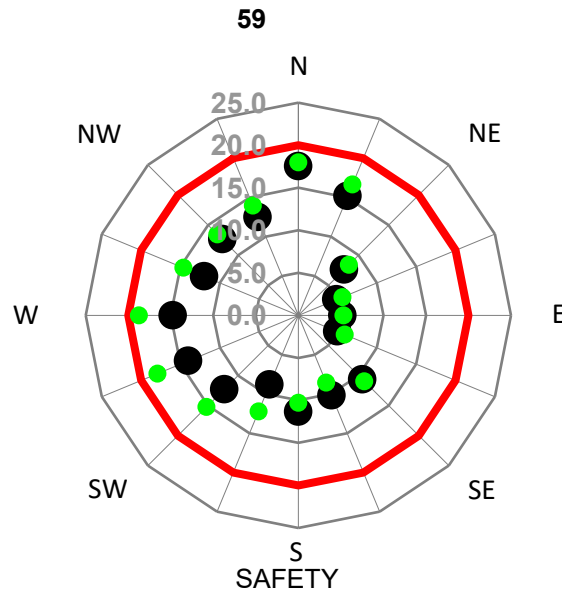
Safety Wind Speed = 20m/s

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	45.5%	27.7%	15.2%	4.6	Pass	19.1	Pass
● Existing Configuration	46.1%	28.1%	15.5%	4.6	Pass	17.1	Pass
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Test Location



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

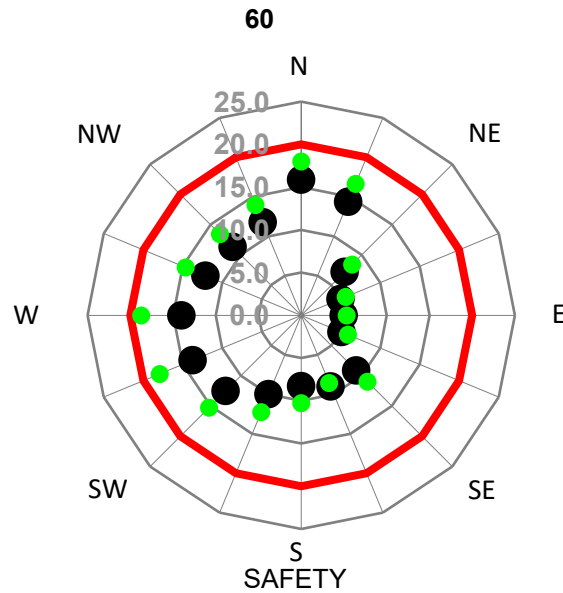
Safety Wind Speed = 20m/s

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	45.7%	27.2%	15.5%	4.6	Pass	17.5	Pass
● Existing Configuration	50.3%	31.3%	19.6%	5.0	Pass	18.7	Pass
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Test Location



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

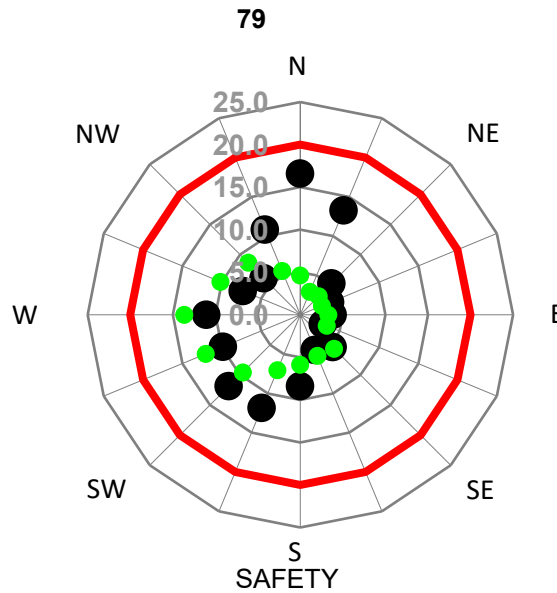
Safety Wind Speed = 20m/s

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	38.2%	21.8%	11.3%	4.1	Pass	15.9	Pass
● Existing Configuration	50.3%	31.3%	19.6%	5.0	Pass	18.7	Pass
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Test Location



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

Safety Wind Speed = 20m/s

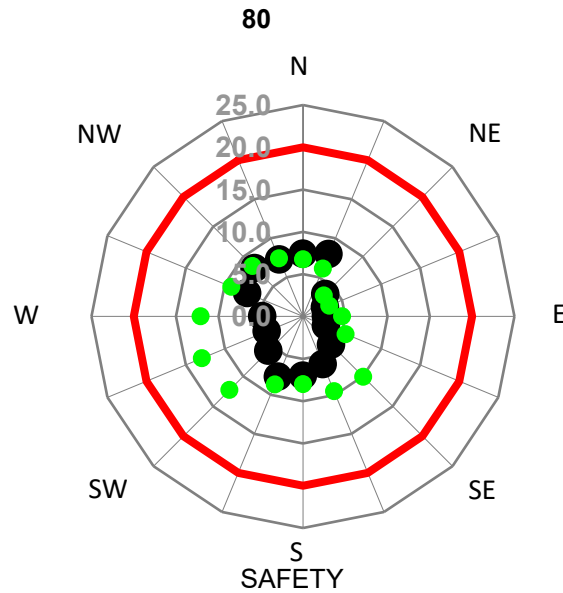
Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 4m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	31.9%	17.7%	9.2%	3.8	Pass	16.6	Pass
● Existing Configuration	10.9%	5.0%	2.0%	2.3	Pass	13.6	Pass
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Test Location



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

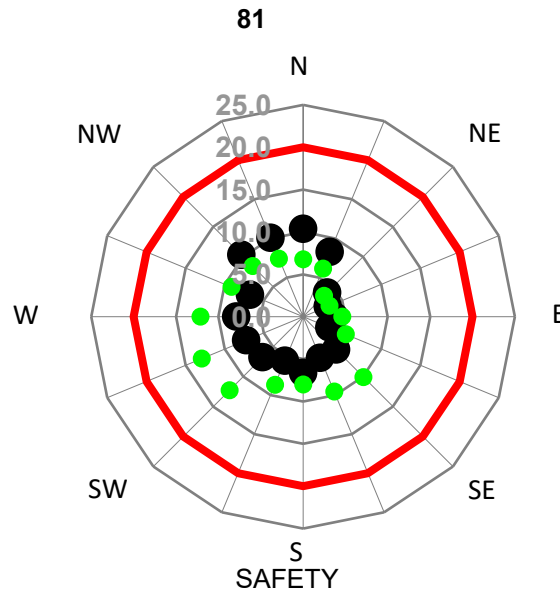
Safety Wind Speed = 20m/s

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	6.3%	0.9%	0.1%	2.2	Pass	8.1	Pass
● Existing Configuration	18.0%	7.0%	2.6%	2.9	Pass	12.9	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

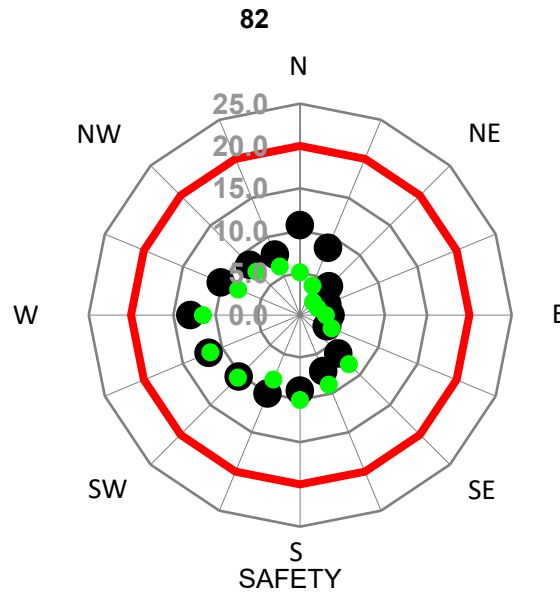
Safety Wind Speed = 20m/s

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	13.4%	4.1%	0.8%	2.6	Pass	10.4	Pass
● Existing Configuration	18.0%	7.0%	2.6%	2.9	Pass	12.9	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

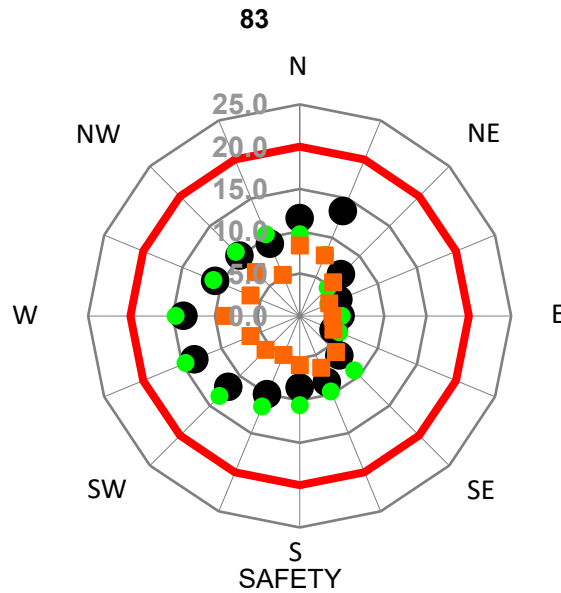
Safety Wind Speed = 20m/s

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	25.4%	9.1%	2.6%	3.3	Pass	12.9	Pass
● Existing Configuration	16.6%	6.0%	1.6%	2.8	Pass	11.5	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

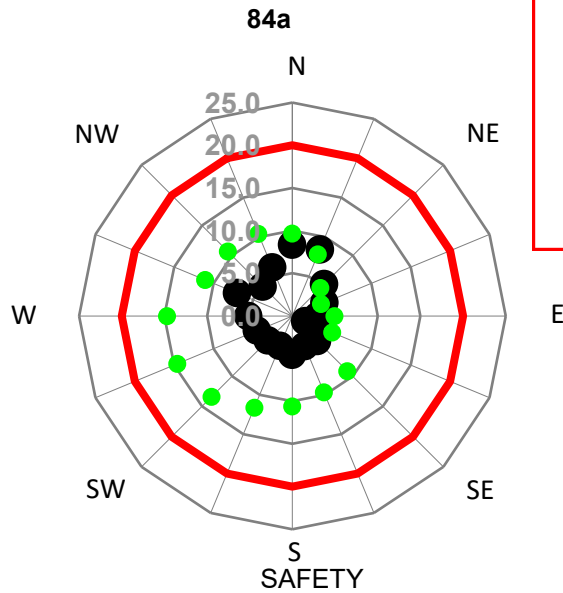
Safety Wind Speed = 20m/s

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 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	30.2%	13.3%	5.2%	3.5	Pass	13.7	Pass
● Existing Configuration	31.5%	14.7%	5.7%	3.6	Pass	14.7	Pass
■ Proposed Configuration + mitigation strategies	7.2%	1.1%	0.2%	2.3	Pass	8.8	Pass
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Local peak 3 second gust wind speed (m/s)

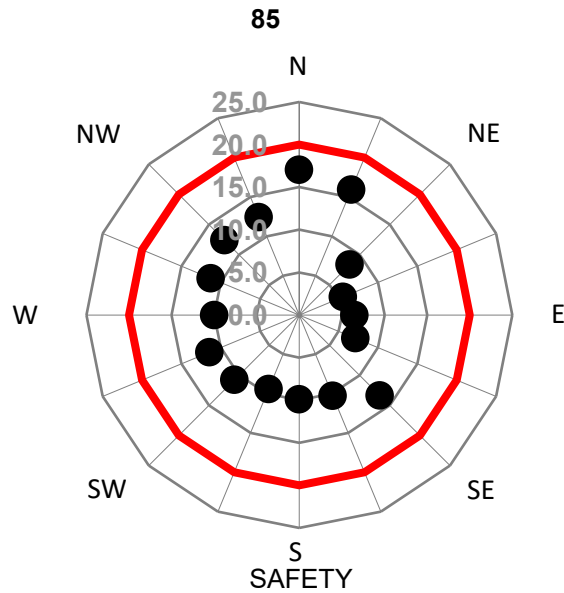
Safety Wind Speed = 20m/s

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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 3m/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	4.7%	0.7%	0.1%	1.9	Pass	8.4	Pass
● Existing Configuration	31.5%	14.7%	5.7%	3.6	Fail	14.7	Pass
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Test Location



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

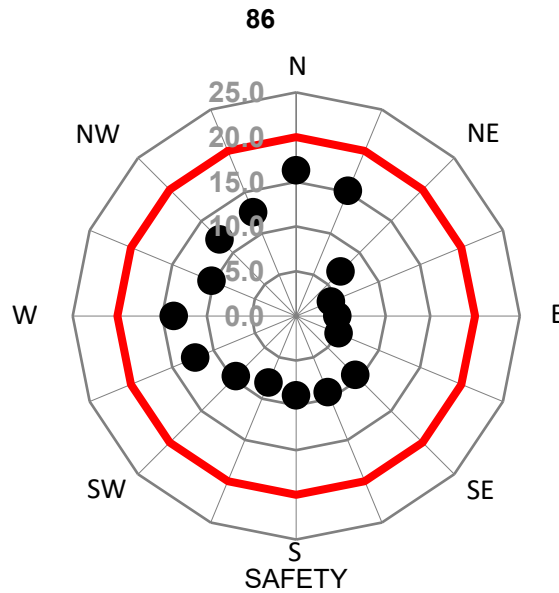
Safety Wind Speed = 20m/s

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	49.2%	30.3%	18.0%	4.8	Pass	17.0	Pass
● Existing Configuration							
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Test Location



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

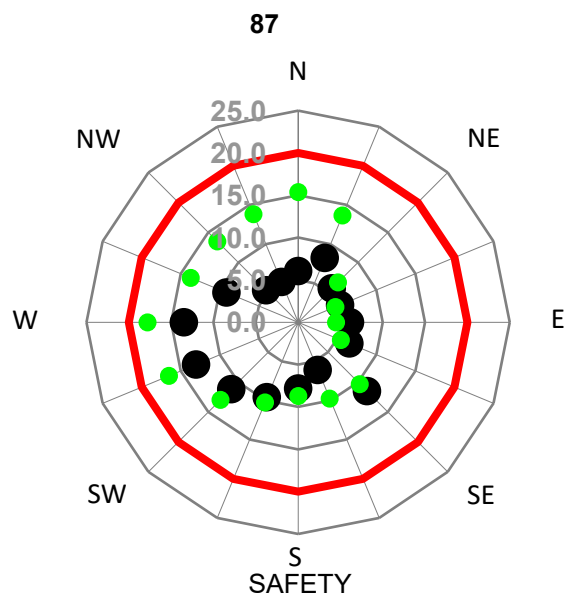
Safety Wind Speed = 20m/s

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	41.2%	23.9%	14.7%	4.4	Pass	16.3	Pass
● Existing Configuration							
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Test Location



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

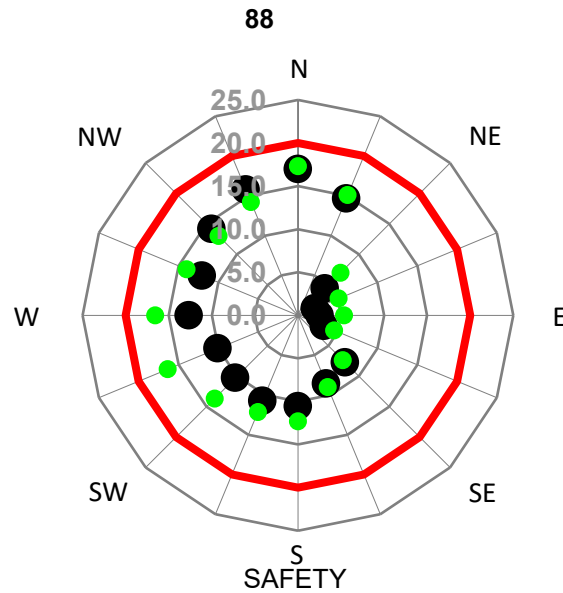
Safety Wind Speed = 20m/s

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	16.8%	7.1%	3.0%	2.8	Pass	13.5	Pass
● Existing Configuration	42.1%	24.7%	13.2%	4.4	Pass	17.8	Pass
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Local peak 3 second gust wind speed (m/s)

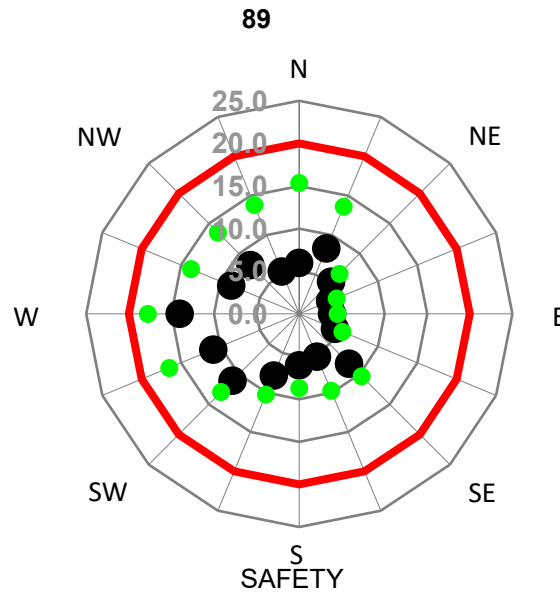
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	45.1%	26.8%	15.6%	4.5	Pass	17.0	Pass
● Existing Configuration	49.6%	31.2%	18.2%	4.8	Pass	17.3	Pass
■ Proposed Configuration + mitigation strategies							
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Test Location



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

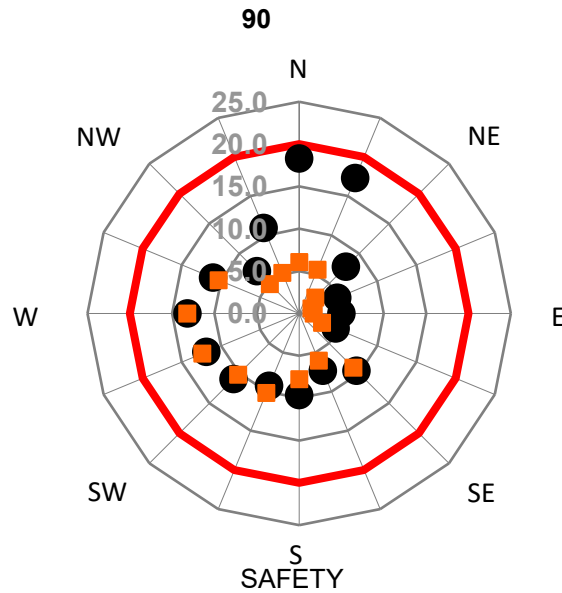
Safety Wind Speed = 20m/s

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	12.7%	5.5%	2.1%	2.5	Pass	14.0	Pass
● Existing Configuration	42.1%	24.7%	13.2%	4.4	Pass	17.8	Pass
■ Proposed Configuration + mitigation strategies							
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Test Location



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

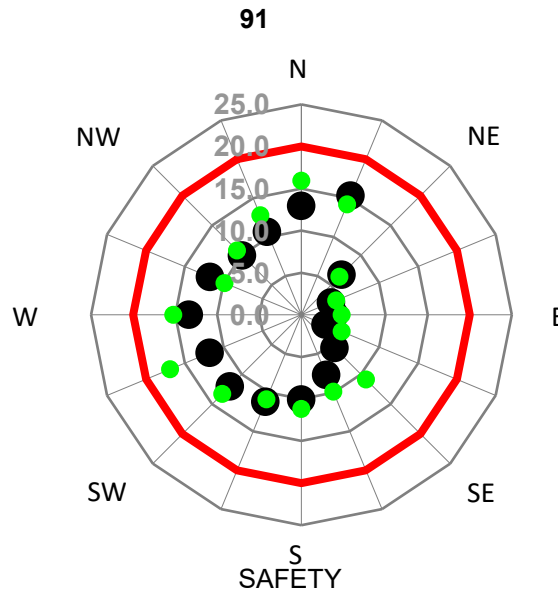
Safety Wind Speed = 20m/s

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 3m/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	40.0%	22.7%	12.7%	4.2	Fail	18.3	Pass
● Existing Configuration							
■ Proposed Configuration + mitigation strategies	14.6%	6.0%	2.4%	2.7	Pass	13.2	Pass
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Test Location



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

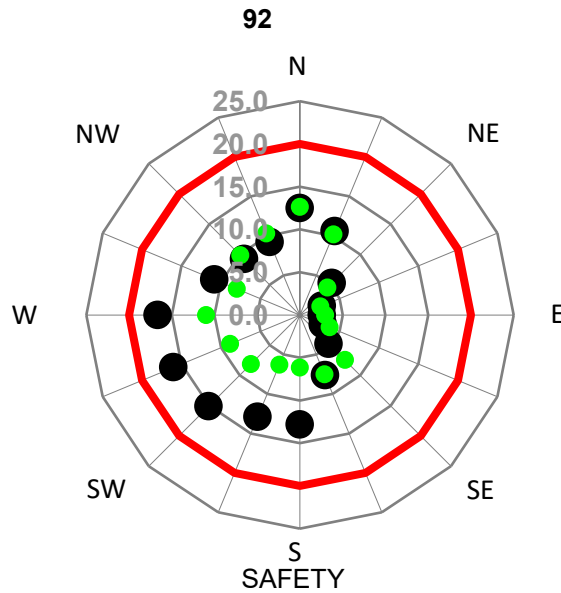
Safety Wind Speed = 20m/s

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	35.4%	17.5%	7.3%	3.8	Pass	15.3	Pass
● Existing Configuration	44.0%	25.9%	13.1%	4.4	Pass	16.9	Pass
■ Proposed Configuration + mitigation strategies							
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Local peak 3 second gust wind speed (m/s)

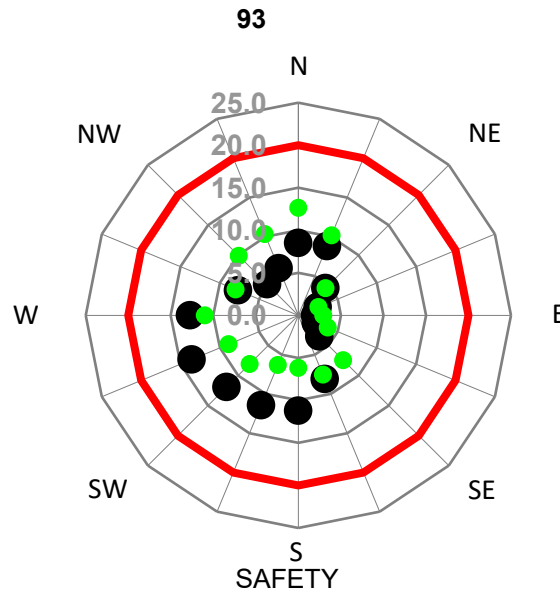
Safety Wind Speed = 20m/s

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	43.0%	25.3%	13.7%	4.4	Pass		16.7	Pass
● Existing Configuration	21.4%	8.9%	3.0%	3.1	Pass		12.6	Pass
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Test Location



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

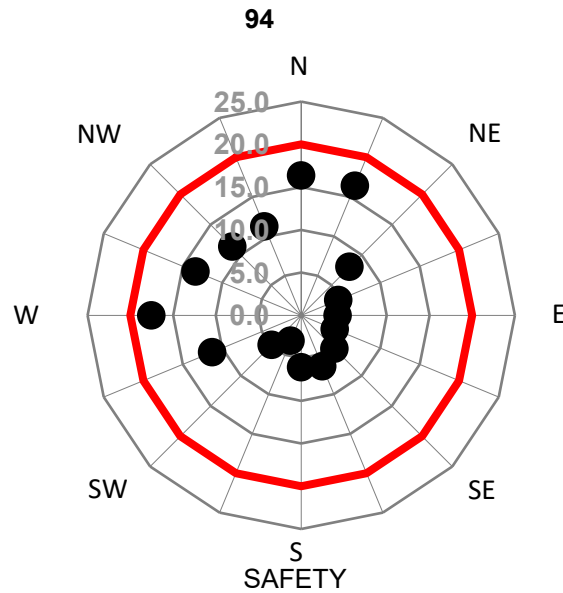
Safety Wind Speed = 20m/s

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	27.8%	13.7%	6.1%	3.5	Pass	13.6	Pass
● Existing Configuration	21.4%	8.9%	3.0%	3.1	Pass	12.6	Pass
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Local peak 3 second gust wind speed (m/s)

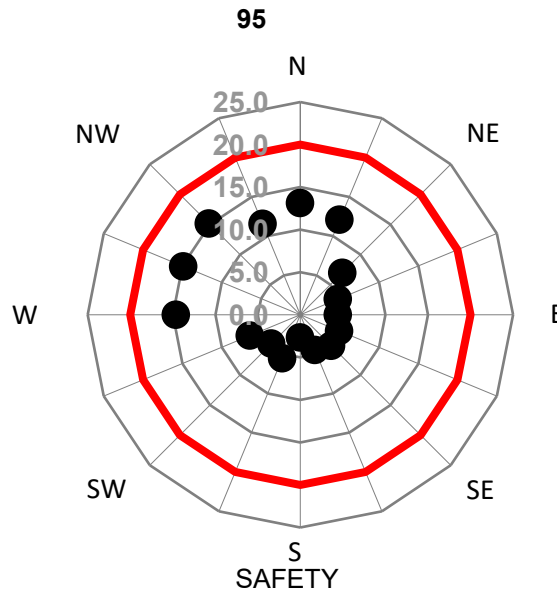
Safety Wind Speed = 20m/s

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 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	30.6%	19.4%	11.1%	3.9	Pass	17.5	Pass
● Existing Configuration							
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Test Location



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

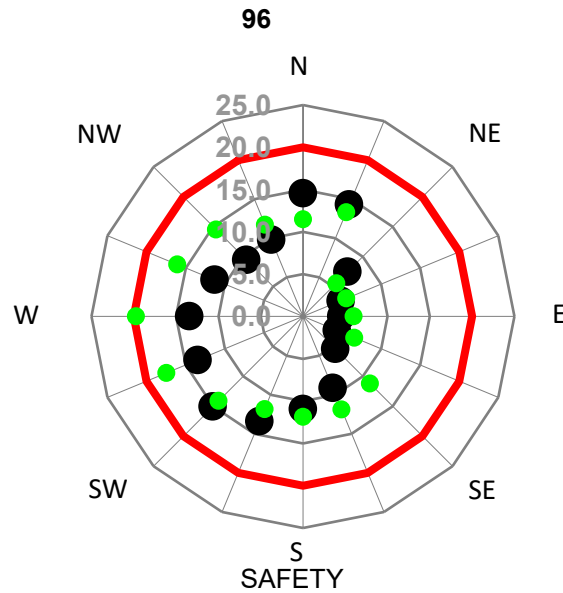
Safety Wind Speed = 20m/s

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	23.6%	13.0%	6.2%	3.3	Pass	15.2	Pass
● Existing Configuration							
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Test Location



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

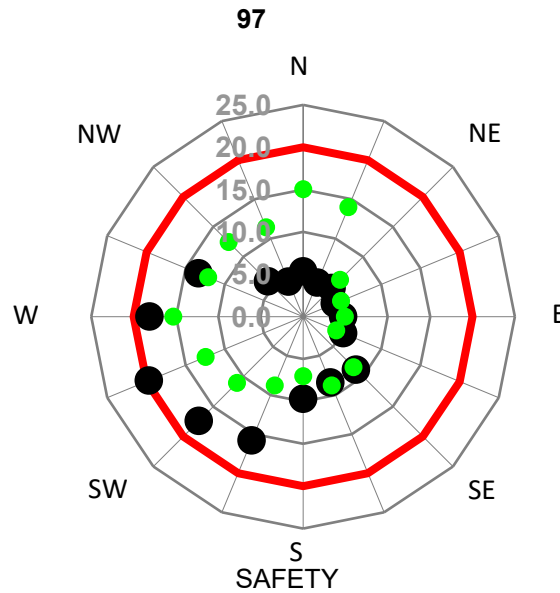
Safety Wind Speed = 20m/s

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	40.5%	22.7%	10.3%	4.2	Pass	15.1	Pass
● Existing Configuration	44.4%	24.9%	12.9%	4.4	Pass	19.7	Pass
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Test Location



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

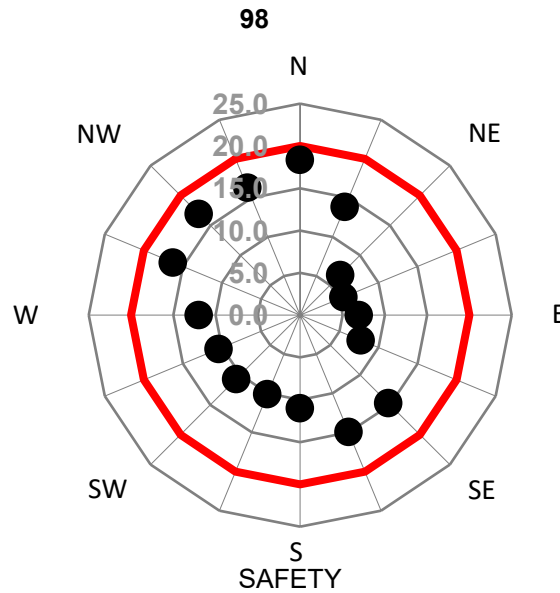
Safety Wind Speed = 20m/s

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	29.5%	18.7%	12.4%	3.9	Pass	19.7	Pass
● Existing Configuration	34.3%	19.3%	9.3%	3.9	Pass	15.3	Pass
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Test Location



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

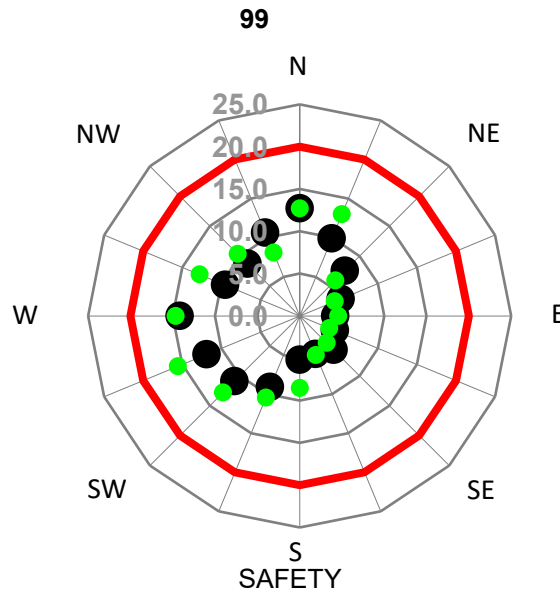
Safety Wind Speed = 20m/s

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	50.5%	31.5%	19.9%	5.0	Pass	18.3	Pass
● Existing Configuration							
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Test Location



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

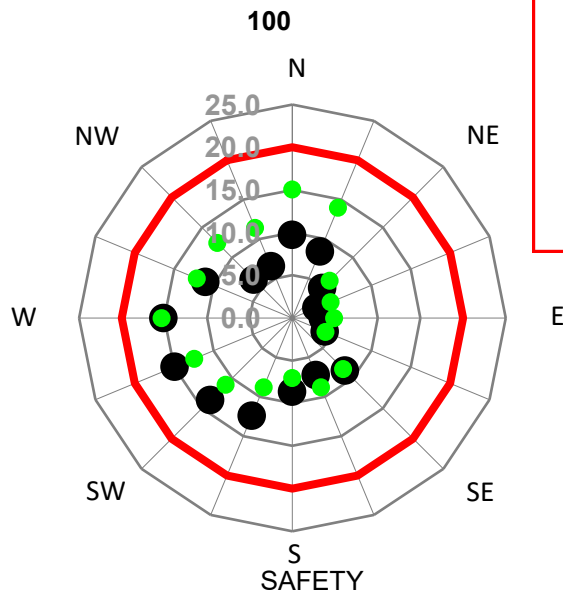
Safety Wind Speed = 20m/s

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	27.8%	14.6%	6.1%	3.6	Pass	14.2	Pass
● Existing Configuration	33.6%	17.2%	8.4%	3.8	Pass	15.6	Pass
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Test Location

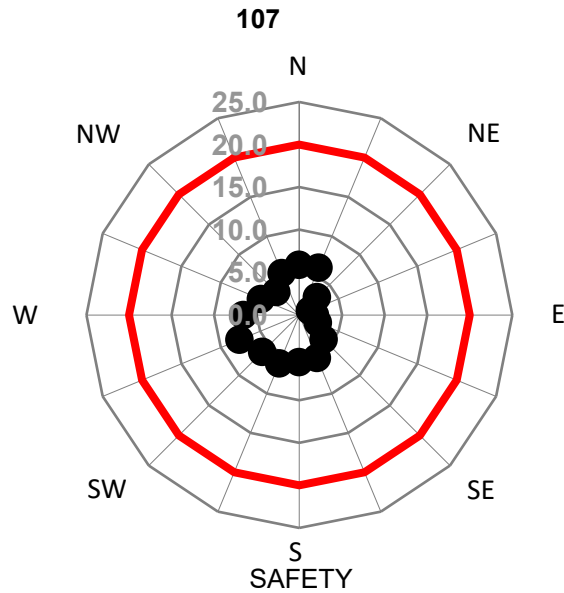


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Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	28.5%	13.6%	6.8%	3.5	Pass	15.1	Pass
● Existing Configuration	34.3%	19.3%	9.3%	3.9	Pass	15.3	Pass
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Test Location



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

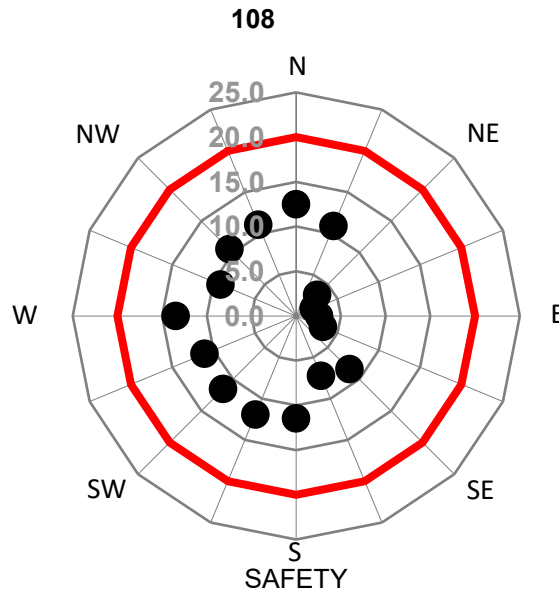
Safety Wind Speed = 20m/s

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%	0.2%	0.0%	1.9	Pass	7.6	Pass
● Existing Configuration							
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Test Location



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

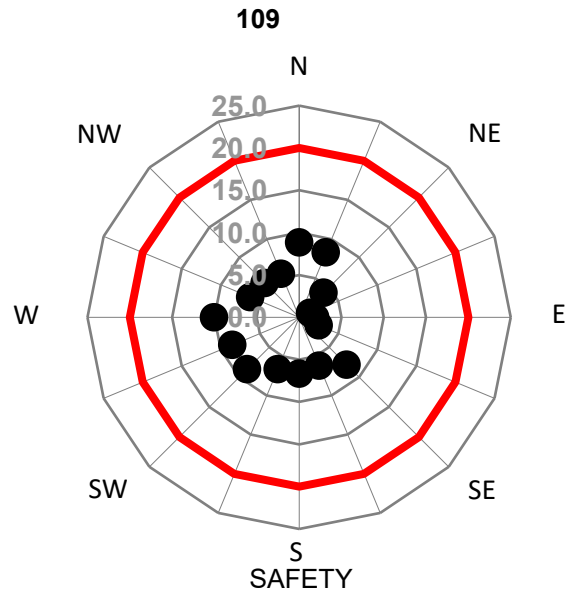
Safety Wind Speed = 20m/s

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	34.4%	16.4%	6.1%	3.8	Pass	13.5	Pass
● Existing Configuration							
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Local peak 3 second gust wind speed (m/s)

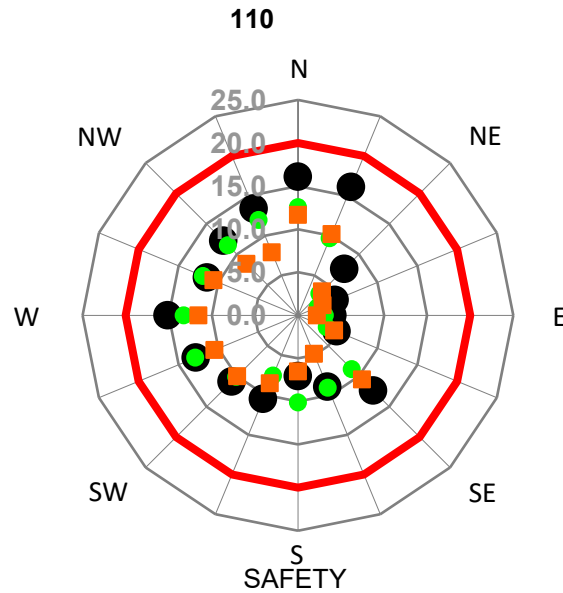
Safety Wind Speed = 20m/s

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 3m/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	11.9%	3.0%	0.6%	2.6	Pass	10.0	Pass
● Existing Configuration							
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Local peak 3 second gust wind speed (m/s)

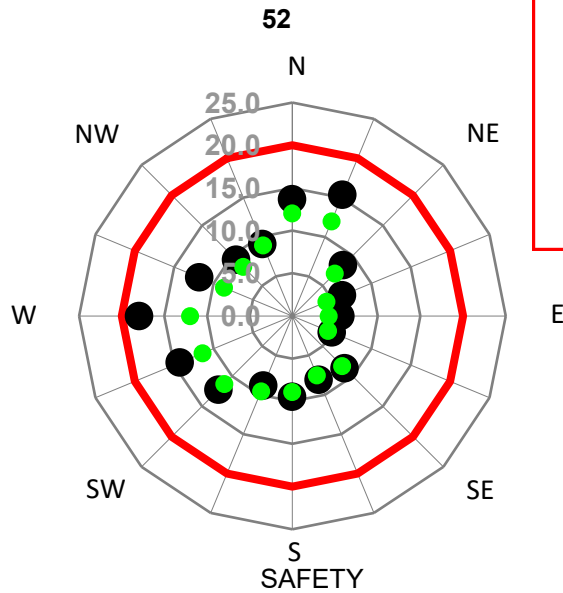
Safety Wind Speed = 20m/s

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 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	37.1%	21.7%	11.6%	4.1	Fail	16.1	Pass
● Existing Configuration	33.1%	15.0%	5.9%	3.7	Pass	13.2	Pass
■ Proposed Configuration + mitigation strategies	22.2%	8.7%	2.8%	3.1	Pass	11.6	Pass
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Test Location



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

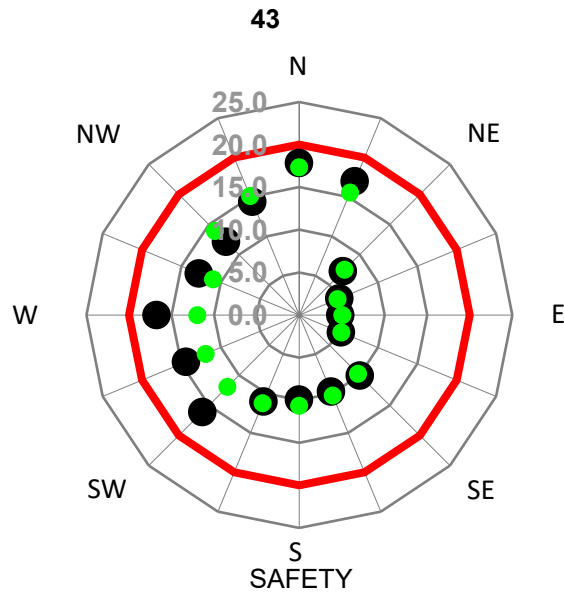
Safety Wind Speed = 20m/s

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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	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	37.0%	19.6%	9.3%	4.0	Pass	17.9	Pass
● Existing Configuration	28.8%	11.8%	4.2%	3.5	Pass	12.0	Pass
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Test Location



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

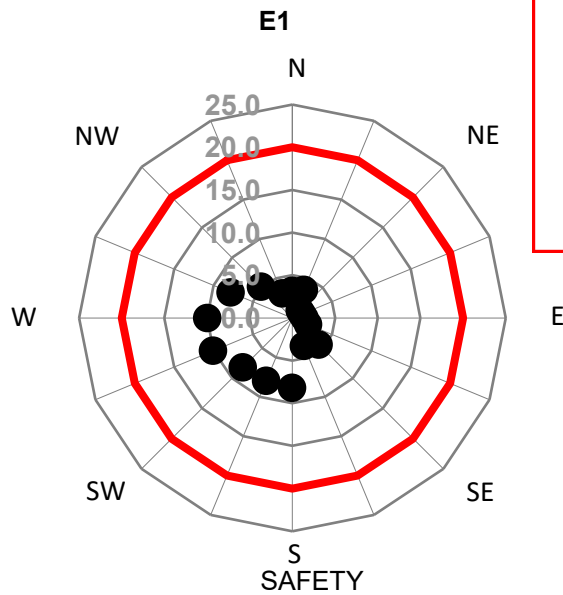
Safety Wind Speed = 20m/s

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	48.6%	29.7%	18.3%	4.8	Pass	17.8	Pass
● Existing Configuration	43.4%	25.2%	13.8%	4.4	Pass	17.3	Pass
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Test Location



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

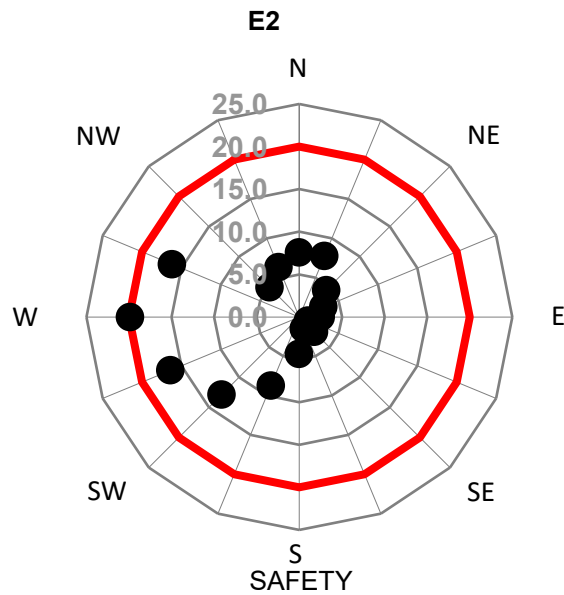
Safety Wind Speed = 20m/s

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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	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	9.0%	2.3%	0.5%	2.2	Pass	10.0	Pass
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Test Location



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

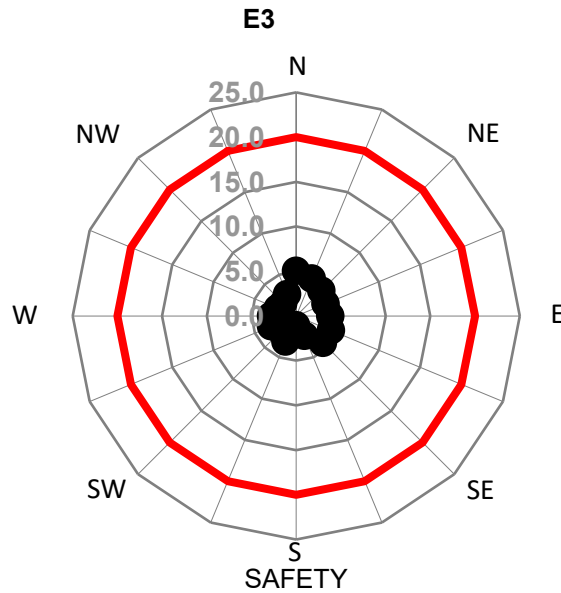
Safety Wind Speed = 20m/s

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	20.1%	11.1%	6.6%	3.0	Pass	19.9	Pass
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Local peak 3 second gust wind speed (m/s)

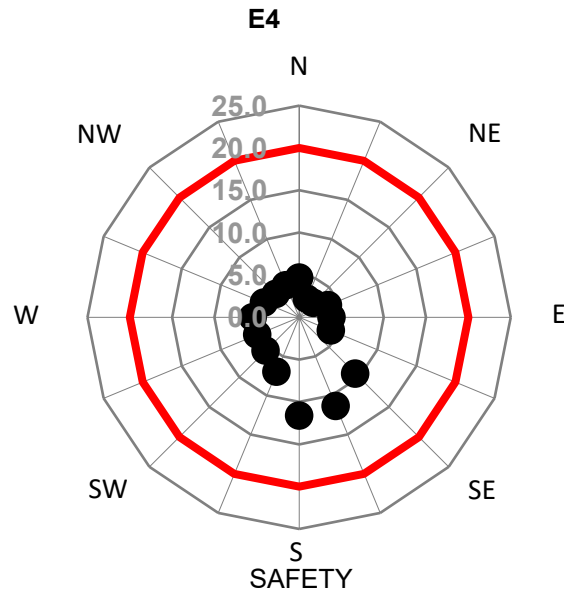
Safety Wind Speed = 20m/s

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)				
● Proposed Configuration	0.2%	0.0%	0.0%	1.1	Pass	5.0	Pass
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Test Location



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

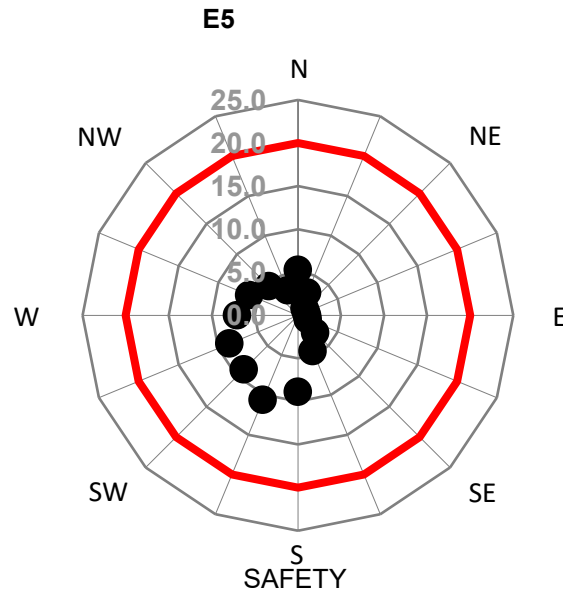
Safety Wind Speed = 20m/s

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	11.1%	5.0%	1.7%	2.2	Pass	11.6	Pass
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Local peak 3 second gust wind speed (m/s)

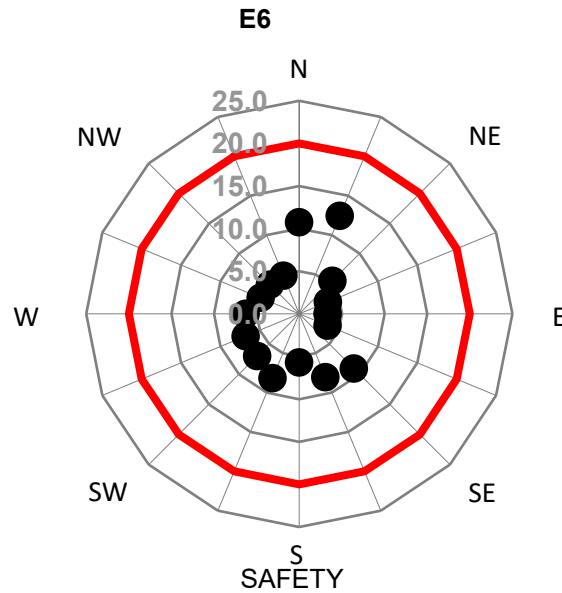
Safety Wind Speed = 20m/s

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	8.9%	2.3%	0.5%	2.2	Pass	10.6	Pass
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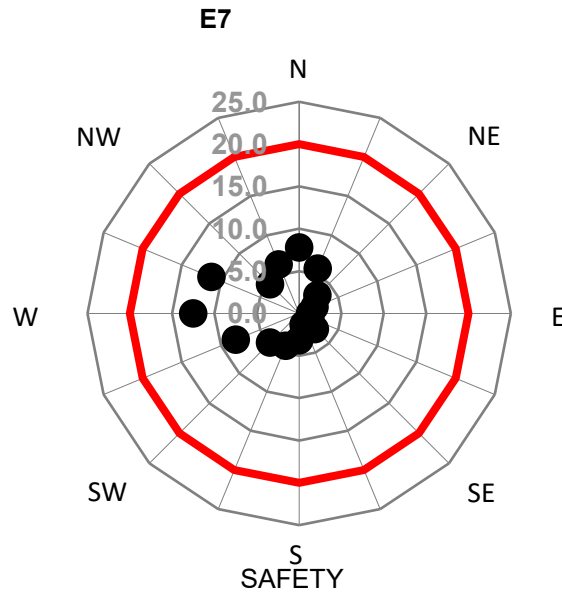


Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	13.5%	4.6%	1.2%	2.6	Pass	12.4	Pass
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Test Location



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

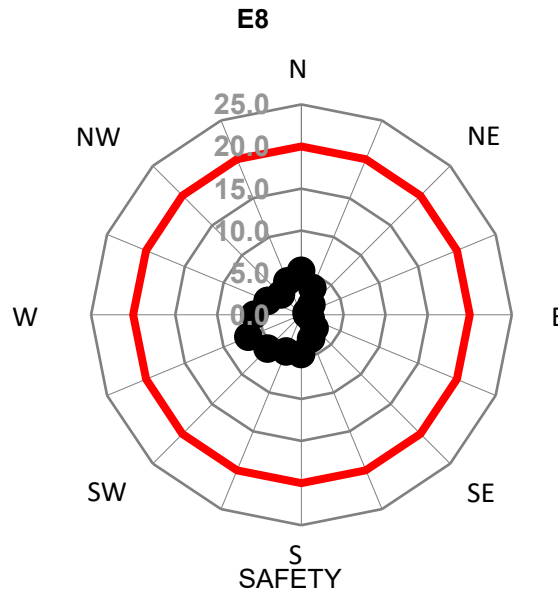
Safety Wind Speed = 20m/s

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	8.3%	2.8%	1.1%	2.2	Pass	12.5	Pass
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Test Location



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

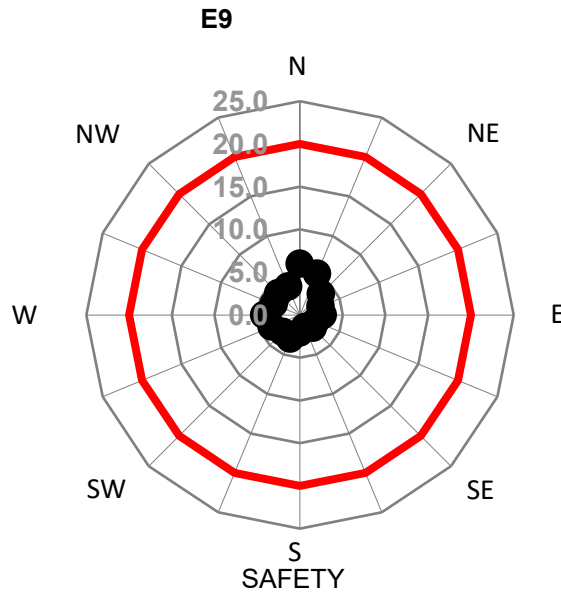
Safety Wind Speed = 20m/s

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	0.8%	0.1%	0.0%	1.6	Pass	6.8	Pass
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Test Location

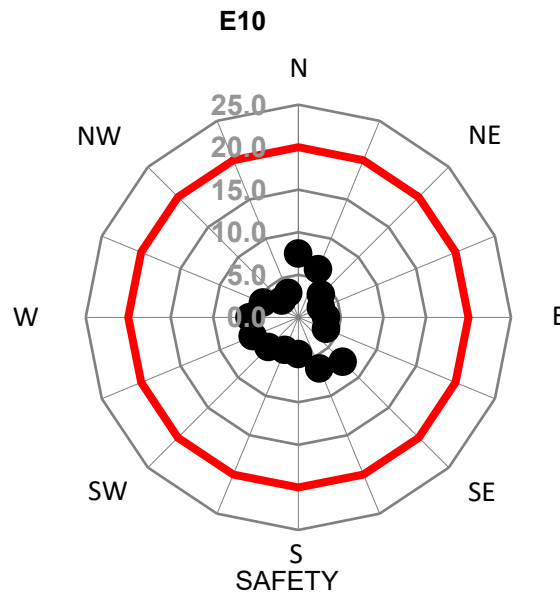


Configuration	Wind Comfort Criteria					Safety Criterion	
	Exceedence of given wind speed per year			Mean wind speed (exceeded 20% of year)	Result (compared against Target wind speed of 5m/s)	Peak wind speed (of all wind directions)	Result (compared against Safety wind speed of 20m/s)
	Sitting (3m/s)	Standing (4m/s)	Walking (5m/s)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	0.3%	0.0%	0.0%	1.3	Pass	6.0	Pass
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Test Location



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

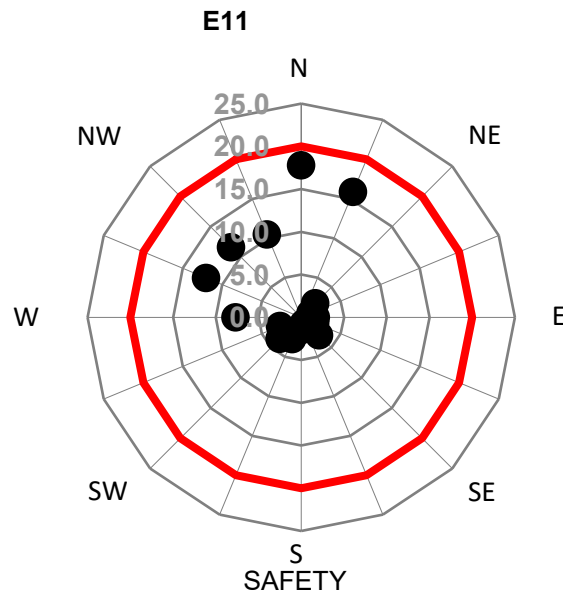
Safety Wind Speed = 20m/s

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	3.4%	0.3%	0.0%	1.9	Pass	7.5	Pass
●							
■							
◆							
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▲							

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Test Location



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

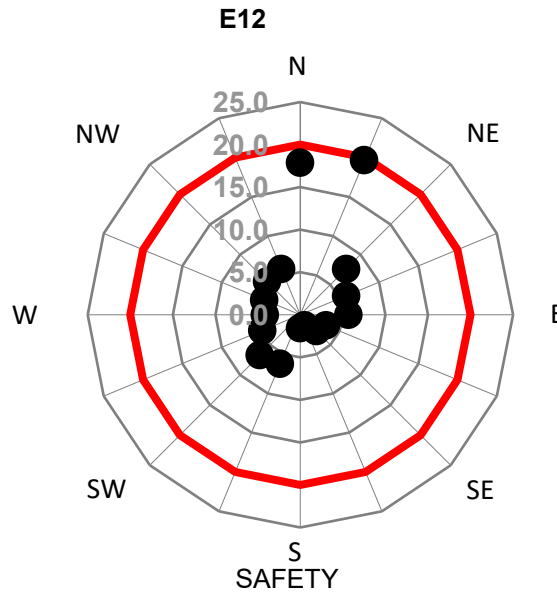
Safety Wind Speed = 20m/s

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	23.4%	15.4%	9.8%	3.3	Pass	17.8	Pass
●							
■							
◆							
▲							
■							
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▲							

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Test Location



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

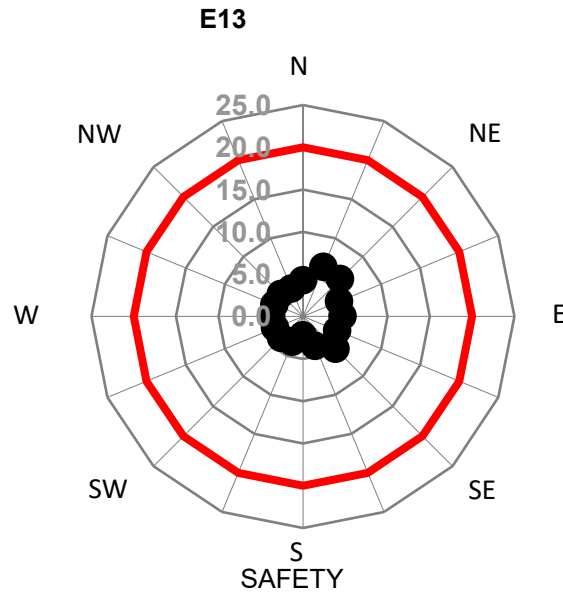
Safety Wind Speed = 20m/s

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	20.6%	13.9%	9.4%	3.1	Pass	19.7	Pass
●							
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▲							

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Test Location



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

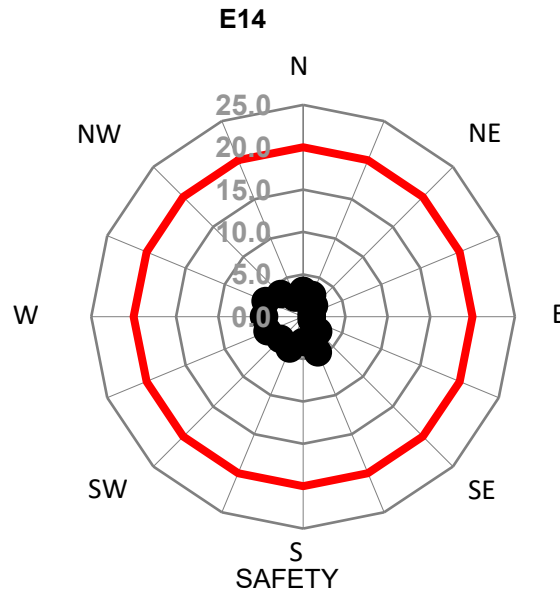
Safety Wind Speed = 20m/s

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	0.7%	0.1%	0.0%	1.3	Pass	6.3	Pass
●							
■							
◆							
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Local peak 3 second gust wind speed (m/s)

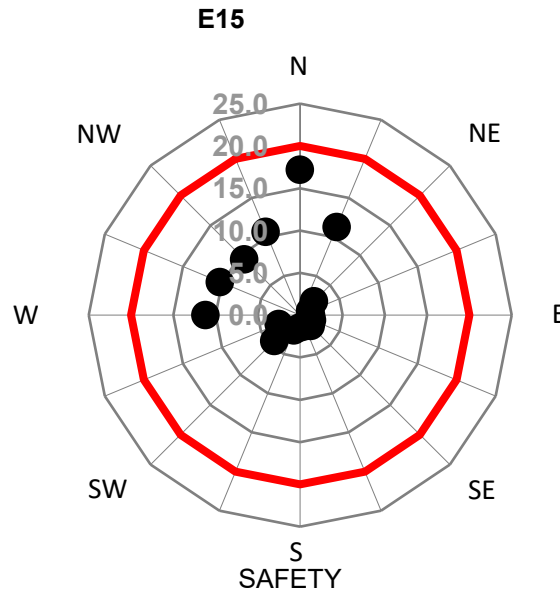
Safety Wind Speed = 20m/s

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	0.1%	0.0%	0.0%	1.1	Pass	4.8	Pass
●							
■							
◆							
▲							
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▲							

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Test Location



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

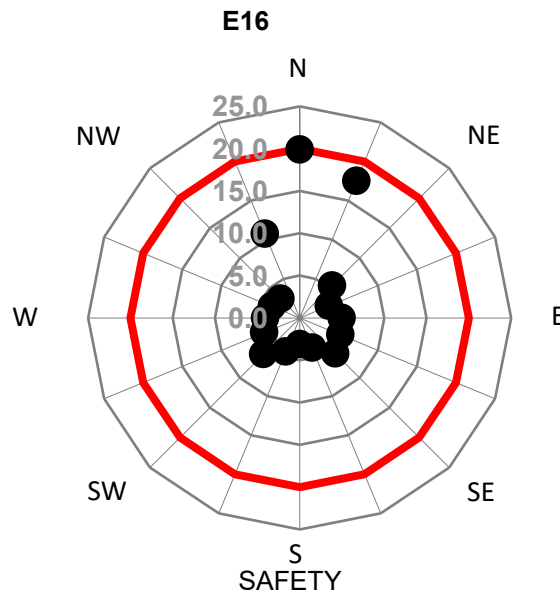
Safety Wind Speed = 20m/s

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%	14.7%	8.3%	3.3	Pass	17.2	Pass
●							
■							
◆							
▲							
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▲							

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Test Location



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

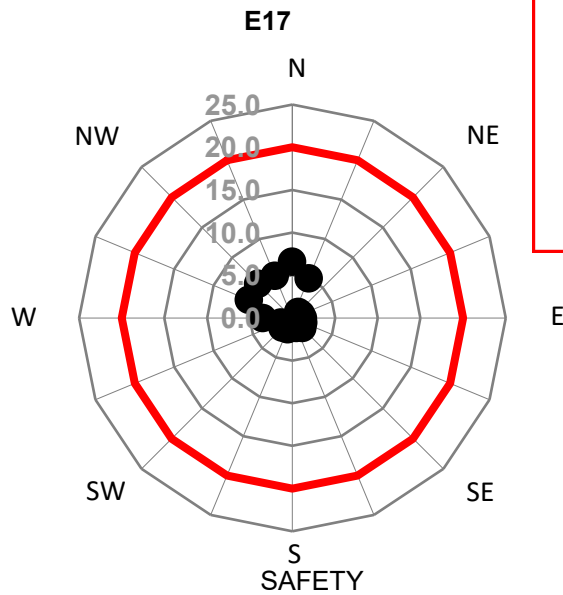
Safety Wind Speed = 20m/s

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%	16.1%	11.2%	3.4	Pass	19.9	Pass
●							
■							
◆							
▲							
▣							
◆							
▲							

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

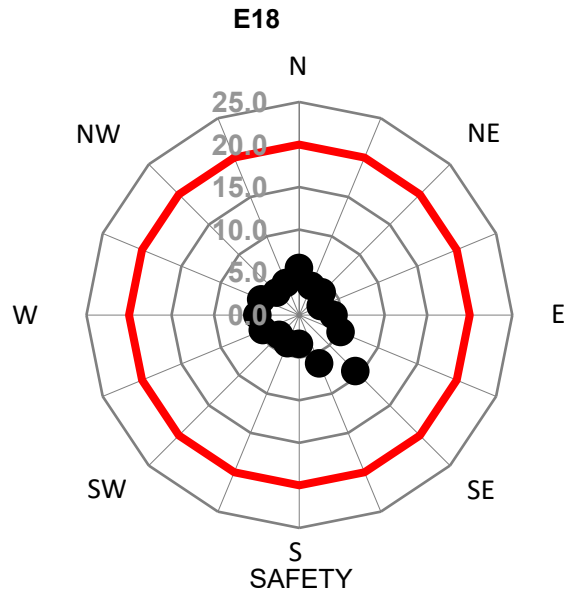
Safety Wind Speed = 20m/s

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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	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	1.0%	0.0%	0.0%	1.3	Pass	6.6	Pass
●							
■							
◆							
▲							
■							
◆							
▲							

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Test Location



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

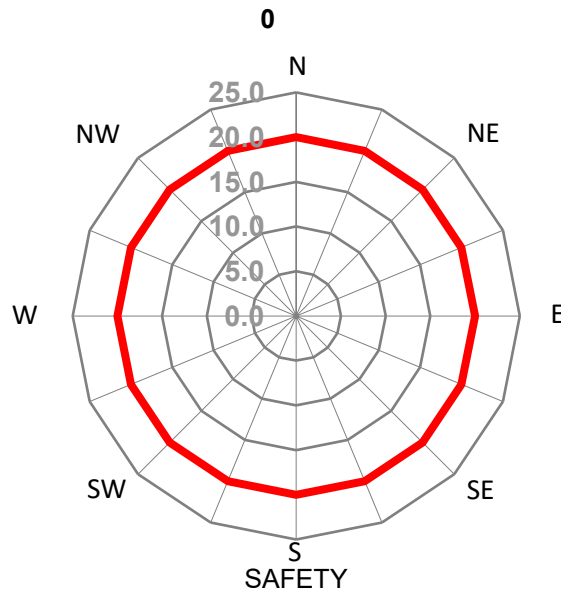
Safety Wind Speed = 20m/s

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	1.1%	0.3%	0.1%	0.0	Pass	9.3	Pass
●							
■							
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▲							
■							
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▲							

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

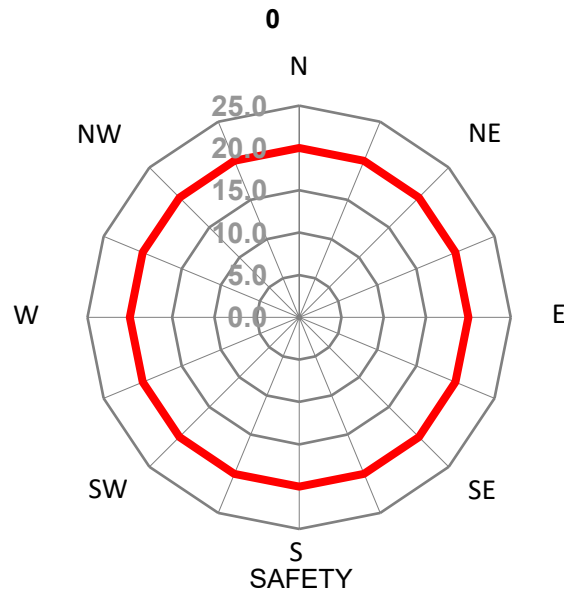
Safety Wind Speed = 20m/s

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							
●							
■							
◆							
▲							
■							
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▲							

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

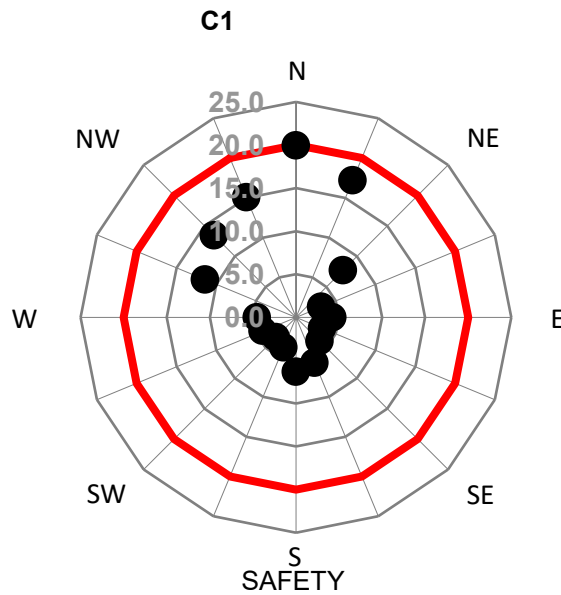
Safety Wind Speed = 20m/s

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	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
●							
■							
◆							
▲							
■							
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▲							

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

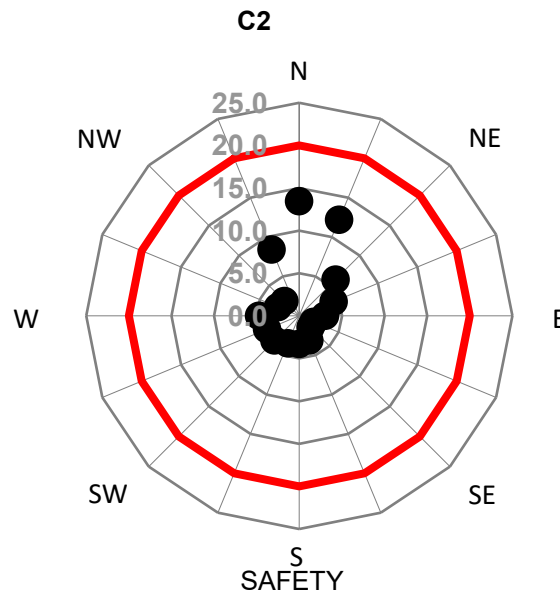
Safety Wind Speed = 20m/s

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	27.6%	18.6%	13.0%	3.8	Pass	19.9	Pass
●							
■							
◆							
▲							
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◆							
▲							

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

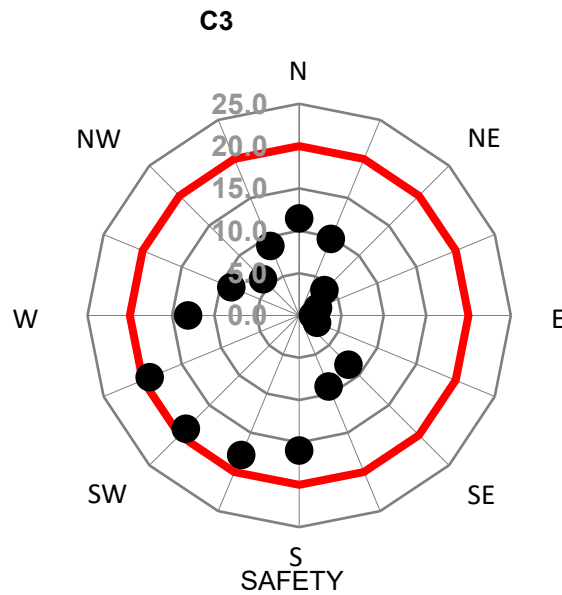
Safety Wind Speed = 20m/s

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	14.5%	7.9%	3.2%	2.4	Pass	13.5	Pass
●							
■							
◆							
▲							
■							
◆							

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Test Location



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

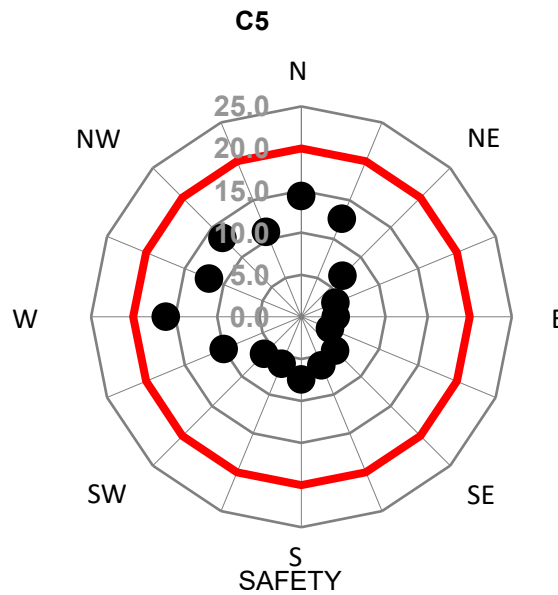
Safety Wind Speed = 20m/s

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	43.8%	26.9%	15.1%	4.5	Pass	19.1	Pass
●							
■							
◆							
▲							
■							
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▲							

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Test Location



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

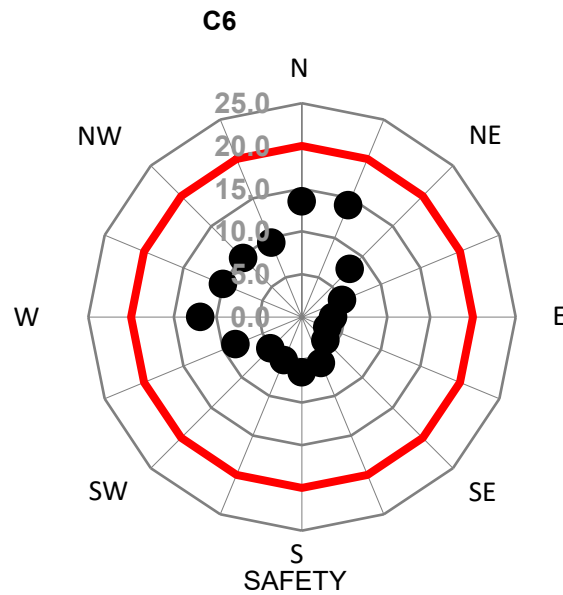
Safety Wind Speed = 20m/s

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	28.3%	15.6%	7.4%	3.6	Pass	16.1	Pass
●							
■							
◆							
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Local peak 3 second gust wind speed (m/s)

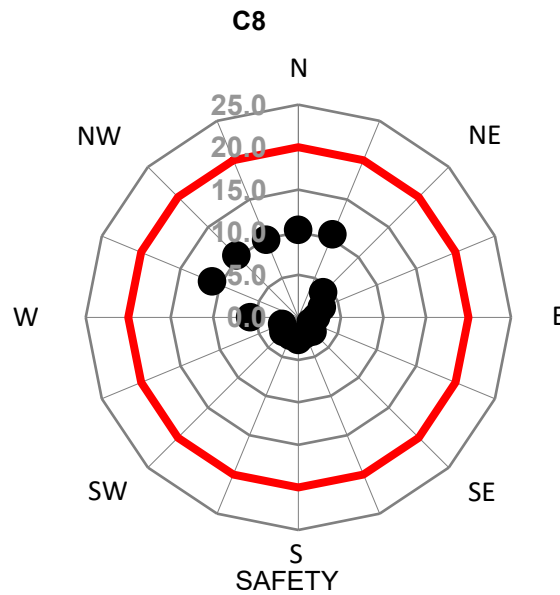
Safety Wind Speed = 20m/s

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	22.0%	11.1%	4.7%	3.2	Pass	14.1	Pass
●							
■							
◆							
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▲							

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Test Location



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

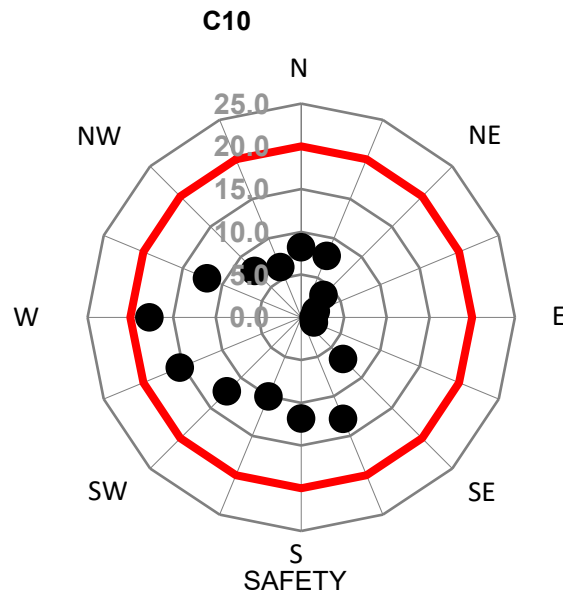
Safety Wind Speed = 20m/s

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	11.7%	4.6%	1.2%	2.3	Pass	11.0	Pass
●							
■							
◆							
▲							
■							
◆							
▲							

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

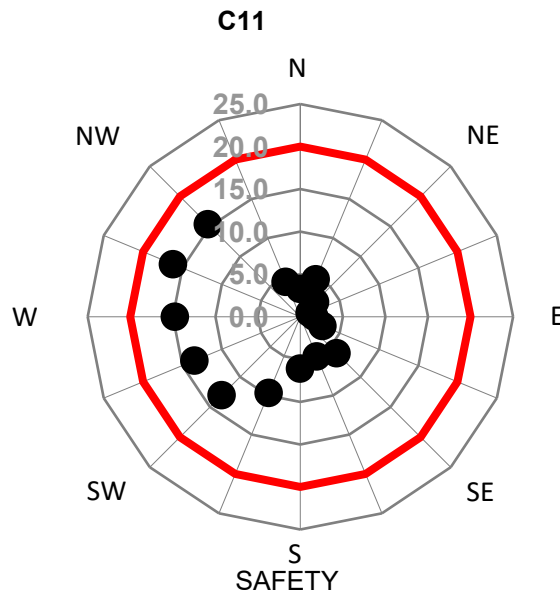
Safety Wind Speed = 20m/s

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	29.8%	15.2%	7.3%	3.6	Pass	17.8	Pass
●							
■							
◆							
▲							
■							
◆							
▲							

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

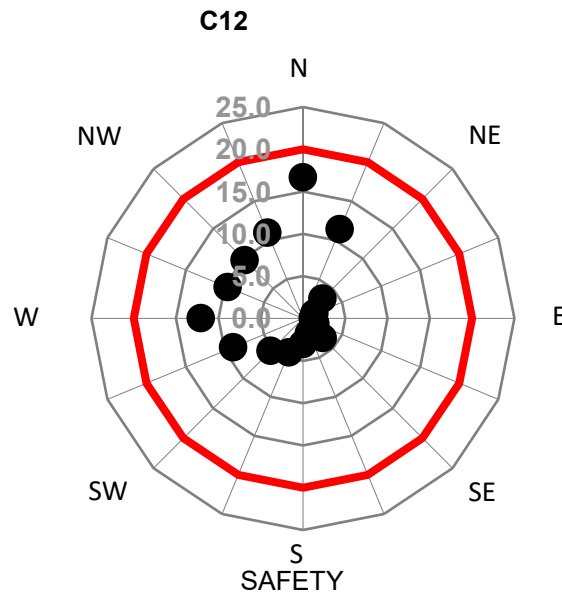
Safety Wind Speed = 20m/s

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	17.3%	9.3%	4.9%	2.8	Pass	16.2	Pass
●							
■							
◆							
▲							
■							
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Local peak 3 second gust wind speed (m/s)

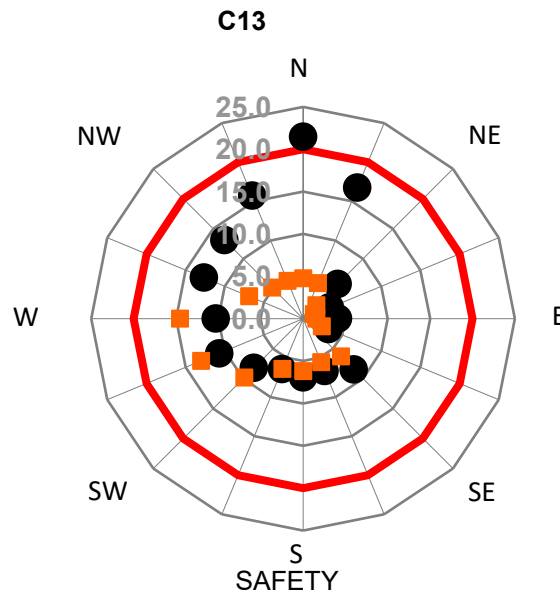
Safety Wind Speed = 20m/s

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	24.7%	15.3%	8.0%	3.5	Pass	16.7	Pass
●							
■ Proposed Configuration + mitigation strategies							
◆							
▲							
■							
◆							
▲							

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

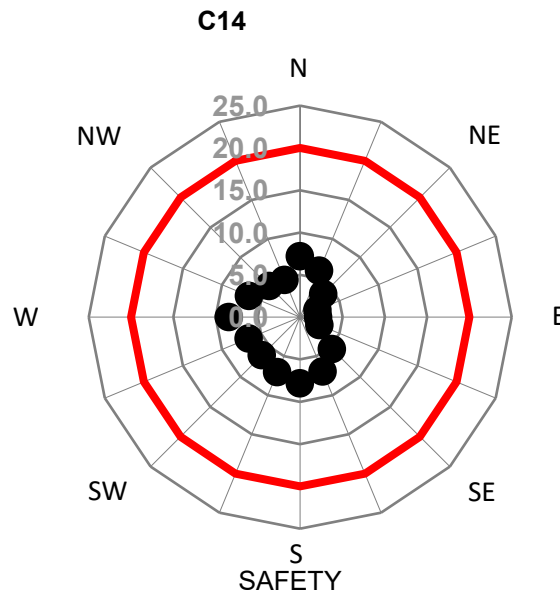
Safety Wind Speed = 20m/s

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	37.6%	24.8%	17.3%	4.5	NA - Safety criterion failed	21.5	Fail
●							
■ Proposed Configuration + mitigation strategies	10.6%	5.1%	2.4%	2.3	Pass	14.5	Pass
◆							
▲							
■							
◆							
▲							

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

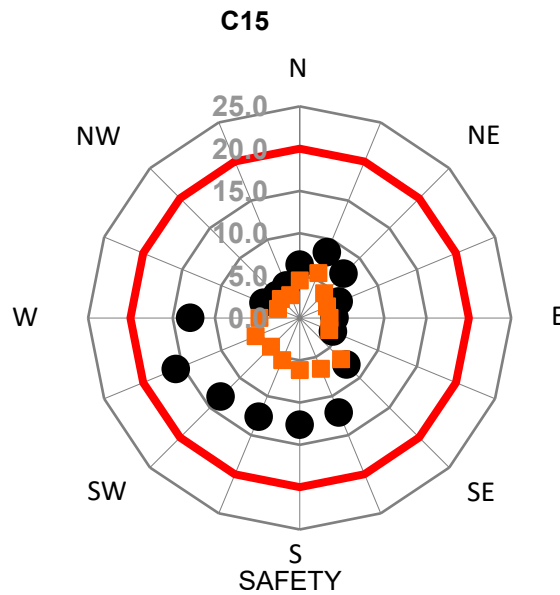
Safety Wind Speed = 20m/s

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)				
	%	%	%	m/s	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	7.7%	1.0%	0.1%	2.3	Pass	8.4	Pass
●							
■ Proposed Configuration + mitigation strategies							
◆							
▲							
■							
◆							
▲							

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Test Location



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

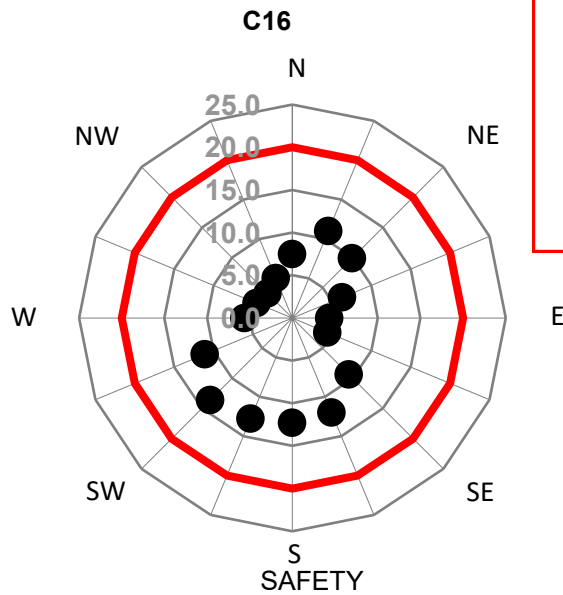
Safety Wind Speed = 20m/s

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	27.3%	16.0%	8.0%	3.6	Pass	15.8	Pass
■ Proposed Configuration + mitigation strategies	1.5%	0.2%	0.0%	1.7	Pass	6.9	Pass
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Test Location



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

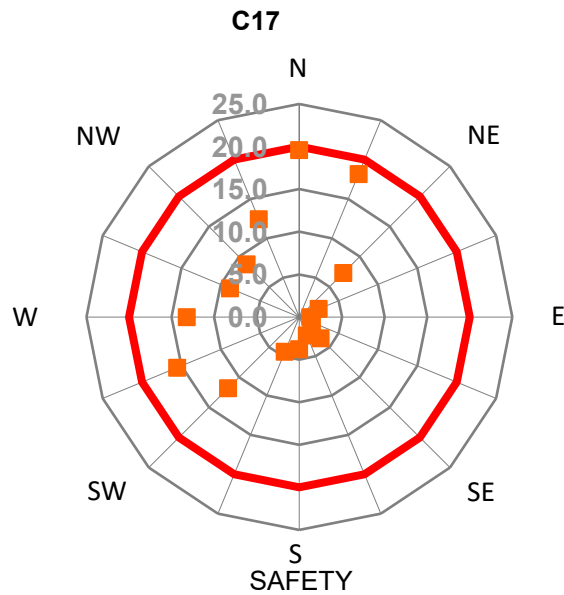
Safety Wind Speed = 20m/s

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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	Pass/Fail	m/s	Pass/Fail
● Proposed Configuration	24.5%	13.1%	6.2%	3.3	Pass	13.6	Pass
●							
■ Proposed Configuration + mitigation strategies							
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Test Location



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

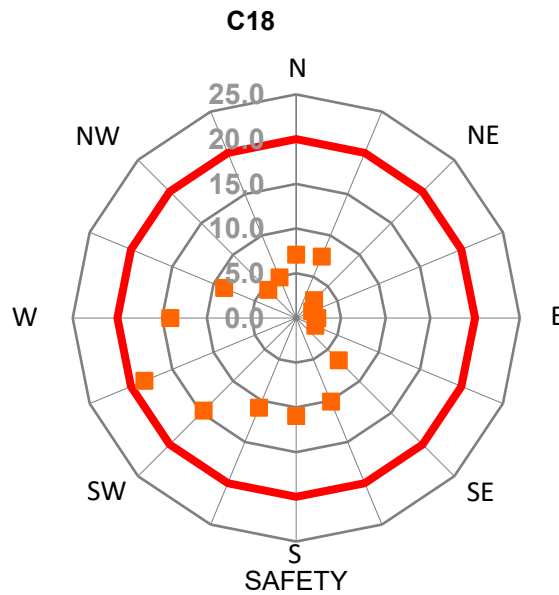
Safety Wind Speed = 20m/s

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 + mitigation strategies	37.5%	25.4%	17.4%	4.6	Pass	19.6	Pass
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Test Location



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

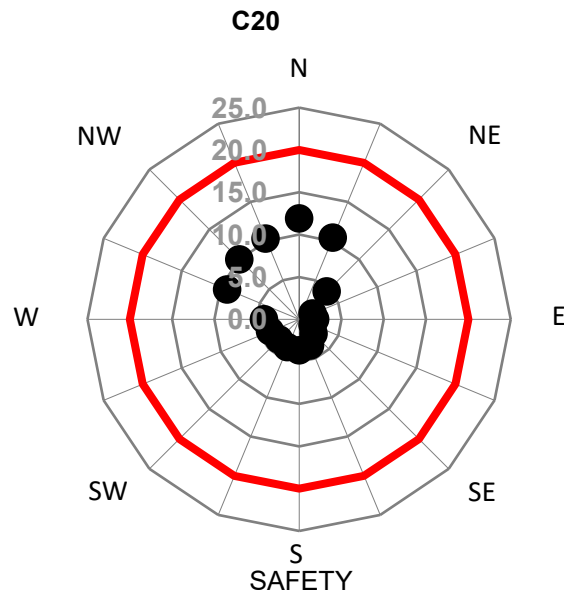
Safety Wind Speed = 20m/s

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 + mitigation strategies	25.4%	12.8%	6.0%	3.4	Pass	18.4	Pass
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Test Location



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

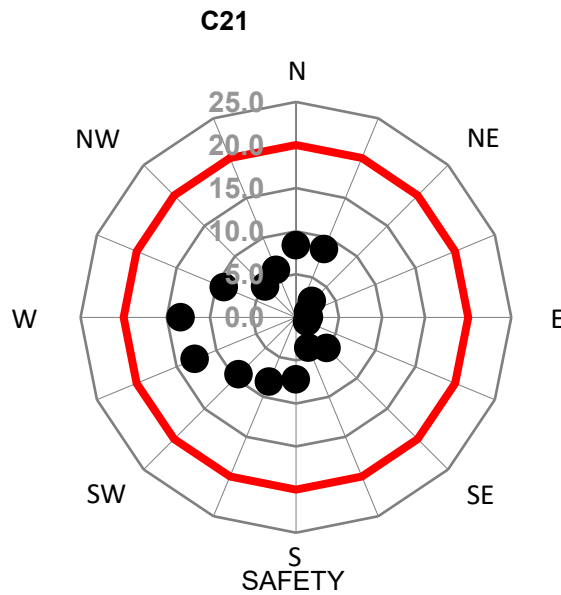
Safety Wind Speed = 20m/s

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	14.0%	6.2%	2.0%	2.4	Pass	11.9	Pass
●							
■ Proposed Configuration + mitigation strategies							
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Test Location



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

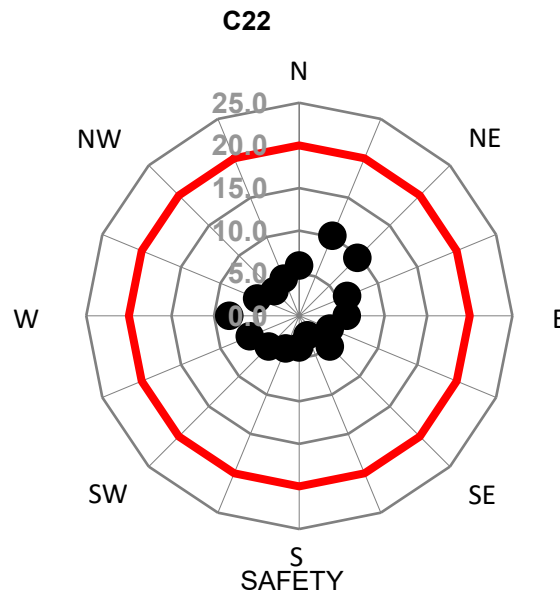
Safety Wind Speed = 20m/s

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	15.4%	5.5%	2.0%	2.7	Pass	13.4	Pass
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Test Location



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

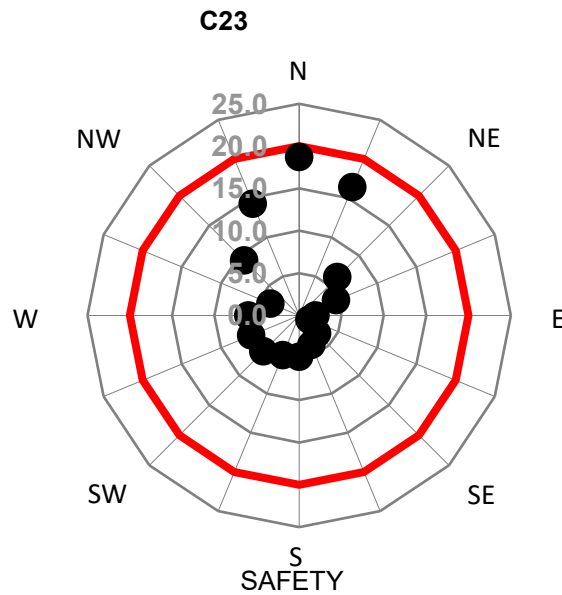
Safety Wind Speed = 20m/s

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	3.7%	1.2%	0.4%	1.8	Pass	10.2	Pass
●							
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Test Location



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

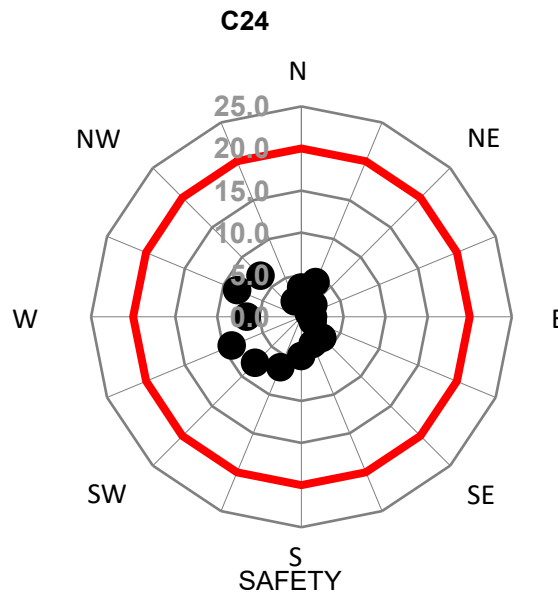
Safety Wind Speed = 20m/s

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	24.8%	16.4%	11.1%	3.5	Pass	18.7	Pass
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Test Location



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

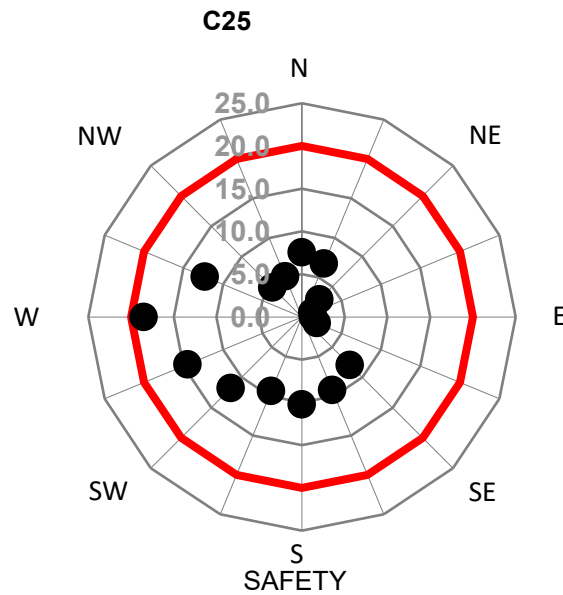
Safety Wind Speed = 20m/s

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	3.7%	0.9%	0.2%	1.7	Pass	8.9	Pass
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Test Location



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%	13.3%	6.3%	3.4	Pass	18.5	Pass
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