This entire chapter has been notified as part of an Intensification Planning Instrument, using the Intensification Streamlined Planning Process (ISPP) in accordance with Section 80E of the RMA.

Ngā Hau

Wind

WIND Wind

Introduction

The purpose of the Wind Chapter is to manage new developments, additions and alterations so as to maintain or enhance comfortable and safe wind conditions for pedestrians and public space users. The management of building design for wind effects provides environmental benefits for people and communities.

Wellington's windy climate necessitates management of new development in order to manage the ground level wind effects in urban areas. New development, particularly buildings that are much larger than their surroundings, can cause downdrafts and channelling, which accelerates winds at ground level. This can negatively affect pedestrian-level comfort and even become hazardous. The taller a building is, the greater its exposure to higher wind speeds, which increases its impact on the ground level winds around it and requires greater wind mitigation measures through building design.

Adverse wind conditions can be often mitigated through the design of buildings. Architectural devices and structures added to a building may also assist in reducing high speed winds and provide protection for pedestrians.

Proposals which include additions or alterations to an existing building or construction of a new building must have regard to the Wind Chapter Best Practice Guidance Document (Appendix 14) in order to achieve optimum building design for wind that minimises the impact of the development on the public realm and achieves wind mitigation that is contained within the site.

The provisions within this chapter apply to public spaces in a number of zones across the City including the City Centre Zone, and different Centres Zones, the High and Medium Density Residential Zones, Waterfront Zone, Port Zone, Stadium Zone, Hospital Zone and the Tertiary Education Zone. For the Tertiary Education Zone and Hospital Zone, the wind provisions are limited to managing the wind effects of developments on adjacent legal roads, as well as publicly accessible walkways within both Zones. The provisions do not apply to private spaces such as adjacent properties or backyards.

Within these zones, Council encourages the consideration of wind effects and aerodynamics early in the design phase for all additions and alterations to existing buildings and any construction of a new building. The provisions seek to manage the individual and cumulative effects of new building works, additions and alterations on pedestrian amenity, comfort, safety and the progressive deterioration of the wind environment.

Quantitative wind studies (wind tunnel testing) or qualitative (descriptive) wind assessments are required when triggered by developments of different scales to may be required to understand the effects of a development on wind conditions. The type of assessment and information requirements are detailed in the relevant rule. For the City Centre Zone, Metropolitan Centre Zone Height Control Area 1, Special Purpose Port Zone, Multi-User Ferry Precinct and Inner Harbour Port Precinct, Special Purpose Stadium Zone and Special Purpose Waterfront Zone, a quantitative wind study will usually be required to show compliance with the wind standards. Council may accept a qualitative wind assessment when a development is likely to have little, if any, impact on wind conditions – refer Wind Chapter Best Practice Guidance Document (Appendix 14) for likely wind effects of buildings.

For the Local Centre Zone, Neighbourhood Centre Zone, Metropolitan Centre Zone - excluding Height Control Area 1, Special Purpose Hospital Zone, and Special Purpose Tertiary Education Zone, a qualitative wind assessment is usually all that is required to show compliance with the wind standards. However, if a development is assessed to have a large negative impact on wind conditions, then a quantitative wind study may be required to enable the wind effects of the development to be fully understood.

It is up to the discretion of the Council to decide whether a quantitative wind study or a qualitative wind assessment is required. The requirements for quantitative wind studies and qualitative wind assessments are set out in Appendix 8.

Objectives				
WIND-01	Purpose			
	The adverse impact of wind from new developments, additions and alterations on public spaces is managed to:			
	1. Provide comfortable conditions for pedestrians whilst acknowledging that not all effects can be mitigated;			
	 Ensure that new developments, additions and alterations do not generate unsafe wind conditions in public spaces and, where possible, ameliorate existing unsafe wind conditions;-and 			
	2. Prevent the gradual degradation of Wellington's pedestrian wind environment over time; and			
	 Ensure a comfortable wind environment in Wellington's the public spaces listed in Appendix 9 – City Centre Zone and Special Purpose Waterfront Zone – Minimum Sunlight Access and Wind Comfort Control – Public Space Requirements, while acknowledging that not all wind effects can be mitigated. 			
Policies				
WIND-P1	Early consideration of wind in design			
	Encourage consideration of wind effects during the early stages of building design to achieve:			
	 Optimum design for wind that minimises the impact of the development on the public realm; and Wind mitigation that is contained within the site. 			
WIND-P2 Managing effects				
	 Require that larger-scale buildings, including additions and alterations, are designed to: 1. Manage adverse wind effects that they create; 2. Improve the wind environment as far as practical<u>ble</u> where existing wind conditions are dangerous; and 3. Limit any deterioration of the wind environment that eaffects: a. <u>The Ss</u>afety and amenity of pedestrians; and b. Existing wind mitigation measures. 			
WIND-P3	Comfort and safety in <u>listed</u> public spaces			
	Require building design and wind mitigation measures to maintain and where possible enhance pedestrian safety and <u>the</u> comfort of <u>the wind environment for users of the</u> public spaces listed in <u>Appendix 9 – City Centre Zone and Special Purpose Waterfront Zone – Minimum Sunlight</u> <u>Access and Wind Comfort Control – Public Space Requirements</u> .			
WIND-P4	Comfort and safety in public spaces created through new development			

	Encourage new public spaces created through new development to have wind conditions that are appropriate for the expected public use of the space.		
WIND-P5	Developments in the Hospital Zone and Tertiary Education Zone that are adjacent to legal roads or publicly accessible walkways		
	 Require that developments in the Hospital Zone and Tertiary Education Zone that are adjace to legal roads or publicly accessible walkways be designed to: Manage adverse wind effects they create; Improve the wind environment as far as practicable where existing wind conditions at dangerous; Limit any deterioration of the wind environment that are adjacent to legal roads or publicly accessible walkways that affects: The safety of pedestrians; and Existing wind mitigation measures. 		
Building and	Structure Activities		
WIND-R1	Construction, alteration and additions to buildings and structures		
City Centre Zone Metropolitan	1. Activity status: Permitted Where:		
Centre Zone - Height Contro Area 1 and 2 Port Zone: Inner Harbour Port Precinct	 above ground level; or b. <u>Rooftop a</u>Additions: <u>i. The height of the rooftop additions</u> are less than or equal to 8m in height when measured from the highest point of the building or structure; or <u>c.ii.</u> Are setback at least 5m from the building facades adjacent to public spaces and 		
Port Zone: Multi-User Ferry Precinct Waterfront Zone	 d. <u>Aare</u> less than 33% of the existing building volume.; or e. Compliance with the following standards is achieved: i. WIND-S1; ii. WIND-S2; and iii. WIND-S3. 		
Stadium Zone			
Local Centre Zone Neighbourhoo Centre Zone Metropolitan Centre Zone - excluding Metropolitan Centre Zone Height Contro Area 1 and 2 High Density Residential	 a. New or altered buildings or structures are less than or equal to 12m 15m in height above ground level; or b. <u>Rooftop a</u>Additions: The height of the rooftop additions are less than or equal to 4m; or in height when measured from the highest point of the building or structure; or c. Rooftop additions all. Are setback at least 3m from the building facades adjacent to public spaces and 		

Madium					
Medium Density					
Residential Zone					
Hospital Zone	3. Activity status: Permitted				
Tertiary Education	a. Where all of the building or structure is more than 20 metres from a legal road or publicly accessible walkway; or				
Zone	b. Where any part of the building or structure is within 20 metres of development is				
	adjacent to a legal road or publicly accessible walkway public street:				
	ai. New or altered buildings or structures are less than or equal to 12m <u>15m</u> in height above ground level; or b-ii. Boofton additions:				
	 b. <u>ii. Rooftop a</u>Additions: a. <u>i</u> <u>The height of the rooftop additions</u> are less than or equal to 4m; <u>or</u> in height when measured from the highest point of the 				
	 building or structure; or c.ii. Rooftop additions Aare setback at least 3m from the building 				
	facades adjacent to public spaces ; and a. d. are less than 33% of the existing building volume. ; or				
	e. Compliance with the following standards is achieved:				
	i . WIND-S1<u>; and</u> ii. WIND-S2.				
City Centre	4. Activity status: Restricted Discretionary				
Zone					
Waterfront	<u>Where:</u> a. <u>Compliance with WIND-R1.1.a is not achieved, and new or altered buildings</u>				
Zone	or structures exceed 20m above ground level but are less than 25m above				
	ground level; or b. <u>Compliance with WIND-R.1.1.b is not achieved.</u>				
	Matters of discretion are:				
	1. The extent and effect of non-compliance with WIND-S1, WIND-S2 and				
	WIND-S3 as specified in the associated assessment criteria for the infringed standard.				
	2. The matters in WIND-P1, WIND-P2, WIND-P3 and WIND-P4;				
	 The extent of compliance with qualitative wind assessment requirements included in Appendix 8; and 				
	4. The level of consistency with the Wind Chapter Best Practice Guidance				
	Document (Appendix 14).				
	Section 88 Information Requirements				
	Applications under this rule must provide either a qualitative wind assessment or a				
	<u>quantitative</u> wind study that:				
	1. Details the extent of compliance with WIND-S1, WIND-S2 and WIND-S3;				
	 Is based on the expert opinion of a suitably qualified and experienced person; 				
	3. Considers the effects of the proposed building upon all public spaces;				
	 Complies with the reporting requirements in Appendix 8 WIND-A2 and be consistent with the 'rules of thumb' for estimating wind effects in the Wind 				
	Chapter Best Practice Guidance Document (Appendix 14); and				
	 Be consistent with the proposed design in the resource consent application and any associated urban design analysis and landscaping proposals. 				
<u>City Centre</u> Zone	5. <u>Activity status</u> : Restricted Discretionary				

<u>Waterfront</u> Zone	Where a. Compliance with WIND-R1.1.a is not achieved, and new or altered buildings or structures exceed 25m above ground level.
	Matters of discretion are:
	 <u>The extent and effect of non-compliance with WIND-S1, WIND-S2 and WIND-S3 as specified in the associated assessment criteria for the infringed standard;</u> <u>The matters in WIND-P1, WIND-P2, WIND-P3 and WIND-P4;</u> <u>The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and</u> <u>The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14).</u>
	Section 88 Information Requirements
	Applications under this rule must provide a quantitative wind study that:
	 Details the extent of compliance with WIND-S1, WIND-S2, and WIND-S3; Where WIND-S1, WIND-S2, and WIND-S3 are not complied with, show how the proposed building most closely complies with these standards when compared to any other practical alternative building design (i.e. it is the optimum aerodynamic design for the site); Is based on the expert opinion of a suitably qualified and experienced person; Complies with the reporting requirements set out in Appendix 8 WIND-A1; Is consistent with the Wind Chapter Best Practice Guidance Document (Appendix 14); Considers the effects of the proposed building against the existing situation, except where the site is currently vacant. If the site is vacant, the proposed building must be compared against any building which existed on the site within the previous 5 years; and Be consistent with the proposed design in the resource consent application and any associated urban design analysis and landscaping proposals.
Port Zone: Inner Harbour Port Precinct	6. <u>Activity status: Restricted Discretionary</u> <u>Where</u>
<u>Port Zone:</u> <u>Multi-User</u> Ferry Precinct	 a. Compliance with WIND-R1.1a is not achieved, and new or altered buildings or structures exceed 20m above ground level but are less than 25m above ground level; or b. Compliance with WIND-R1.1.b is not achieved.
<u>Metropolitan</u> <u>Centre Zone</u> <u>Stadium Zone</u>	Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 and as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3 and WIND-P4; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide either a qualitative wind assessment or a quantitative wind study that:

	 Details the extent of compliance with WIND-S1 and WIND-S2; Is based on the expert opinion of a suitably qualified and experienced person; Considers the effects of the proposed building upon all public spaces; Complies with the reporting requirements in Appendix 8 WIND-A2 and be consistent with the 'rules of thumb' for estimating wind effects in the Wind Chapter Best Practice Guidance Document (Appendix 14); and Be consistent with the proposed design in the resource consent application and any associated urban design analysis and landscaping proposals.
<u>Port Zone:</u> Inner Harbour Port Precinct	7. <u>Activity status</u> : Restricted Discretionary <u>Where</u>
- Port Zone: Multi-User Ferry Precinct	a. <u>Compliance with WIND-R1.1.a is not achieved, and new or altered buildings</u> or structures exceed 25m above ground level.
<u>Metropolitan</u> <u>Centre Zone</u>	Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard;
<u>Stadium Zone</u>	 2. The matters in WIND-P1, WIND-P2, WIND-P3 and WIND-P4; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14).
	Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that:
	 Details the extent of compliance with WIND-S1 and WIND-S2; Where WIND-S1 and WIND-S2 are not complied with, show how the proposed building most closely complies with these standards when compared to any other practical alternative building design (i.e. it is the optimum aerodynamic design for the site);
	 Is based on the expert opinion of a suitably qualified and experienced person; Complies with the reporting requirements set out in Appendix 8 WIND-A1; Is consistent with the Wind Chapter Best Practice Guidance Document (Appendix 14); Considers the effects of the proposed building upon all public spaces;
	 Compares the effects of the proposed building against the existing situation, except where the site is currently vacant. If the site is vacant, the proposed building must be compared against any building which existed on the site within the previous 5 years; and Be consistent with the proposed design in the resource consent application and any associated urban design analysis and landscaping proposals.
Local Centre Zone	8. <u>Activity status</u> : Restricted Discretionary
<u>Neighbourhood</u> <u>Centre Zone</u>	 <u>Where:</u> a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings</u> or structures exceed 15m above ground level but are less than 25m above ground level; or b. <u>Compliance with WIND-R1.2.b is not achieved; or</u>

High Density	c. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new		
Residential	or altered buildings or structures exceed 15m above ground level but are		
Zone	less than 25m above ground level; or		
20110	d. Compliance WIND-R1.3.a and WIND-R1.3.b.ii is not achieved.		
Medium	d. <u>Compliance Whetert.s.a and Whetert.s.b.in is not achieved.</u>		
	Matters of discretion are:		
Density	Matters of discretion are:		
Residential			
<u>Zone</u>	 The extent and effect of non-compliance with WIND-S1 and WIND-S2 as 		
	specified in the associated assessment criteria for the infringed standard.		
Tertiary	2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5;		
Education	3. The extent of compliance with qualitative wind assessment requirements		
Zone	included in Appendix 8; and		
20110	4. The level of consistency with the Wind Chapter Best Practice Guidance		
Heepitel Zene			
Hospital Zone	Document (Appendix 14).		
	Section 88 Information Requirements		
	Applications under this rule must provide either a qualitative wind assessment or a		
	guantitative wind study that:		
	1. Details the extent of compliance with WIND-S1 and WIND-S2;		
	2. Is based on the expert opinion of a suitably qualified and experienced		
	person; 2 Considers the effects of the proposed building upon all public encodes:		
	3. <u>Considers the effects of the proposed building upon all public spaces;</u>		
	4. Complies with the reporting requirements in Appendix 8 WIND-A2 and be		
	consistent with the 'rules of thumb' for estimating wind effects in the Wind		
	Chapter Best Practice Guidance Document (Appendix 14); and		
	5. Be consistent with the proposed design in the resource consent application		
	and any associated urban design analysis and landscaping proposals.		
Local Centre	9. Activity status: Restricted Discretionary		
Local Centre Zone	9. <u>Activity status: Restricted Discretionary</u>		
Zone	9. Activity status: Restricted Discretionary Where		
Zone Neighbourhood	Where		
Zone	Where a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings</u>		
Zone Neighbourhood Centre Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or		
Zone Neighbourhood Centre Zone High Density	 <u>Where</u> a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings</u> or structures exceed 25m above ground level; or b. <u>Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new</u> 		
Zone Neighbourhood Centre Zone High Density Residential	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or		
Zone Neighbourhood Centre Zone High Density	 <u>Where</u> a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or</u> b. <u>Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level.</u> 		
Zone Neighbourhood Centre Zone High Density Residential Zone	 <u>Where</u> a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings</u> or structures exceed 25m above ground level; or b. <u>Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new</u> 		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are:		
Zone Neighbourhood Centre Zone High Density Residential Zone	 <u>Where</u> a. <u>Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or</u> b. <u>Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level.</u> 		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are:		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard;		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5;		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and		
ZoneNeighbourhoodCentre ZoneHigh DensityResidentialZoneMediumDensityResidentialZoneItertiaryEducation	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14).		
ZoneNeighbourhoodCentre ZoneHigh DensityResidentialZoneMediumDensityResidentialZoneItertiaryEducation	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance		
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Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14).		
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Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that:		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-S5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that: 1. Details the extent of compliance with WIND-S1 and WIND-S2;		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b. i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that: 1. Details the extent of compliance with WIND-S1 and WIND-S2; 2. Where WIND-S1 and WIND-S2 are not complied with, show how the		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that: 1. Details the extent of compliance with WIND-S1 and WIND-S2; 2. Where WIND-S1 and WIND-S2 are not complied with, show how the proposed building most closely complies with these standards when		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that: 1. Details the extent of compliance with WIND-S1 and WIND-S2; 2. Where WIND-S1 and WIND-S2 are not complied with, show how the proposed building most closely complies with these standards when compared to any other practical alternative building design (i.e. it is the		
Zone Neighbourhood Centre Zone High Density Residential Zone Medium Density Residential Zone Tertiary Education Zone	Where a. Compliance with WIND-R1.2.a is not achieved, and new or altered buildings or structures exceed 25m above ground level; or b. Compliance with WIND-R1.3.a and WIND-R1.3.b.i is not achieved, and new or altered buildings or structures exceed 25m above ground level. Matters of discretion are: 1. The extent and effect of non-compliance with WIND-S1 and WIND-S2 as specified in the associated assessment criteria for the infringed standard; 2. The matters in WIND-P1, WIND-P2, WIND-P3, WIND-P4 and WIND-P5; 3. The extent of compliance with quantitative wind assessment requirements included in Appendix 8; and 4. The level of consistency with the Wind Chapter Best Practice Guidance Document (Appendix 14). Section 88 Information Requirements Applications under this rule must provide a quantitative wind study that: 1. Details the extent of compliance with WIND-S1 and WIND-S2; 2. Where WIND-S1 and WIND-S2 are not complied with, show how the proposed building most closely complies with these standards when		

	 Is based on the expert opinion of a suitably qualified and experienced person; Complies with the reporting requirements set out in Appendix 8 WIND-A1; Is consistent with the Wind Chapter Best Practice Guidance Document (Appendix 14); Considers the effects of the proposed building upon all public spaces; Compares the effects of the proposed building against the existing situation, except where the site is currently vacant. If the site is vacant, the proposed building must be compared against any building which existed on the site within the previous 5 years; and Be consistent with the proposed design in the resource consent application and any associated urban design analysis and landscaping proposals. 	
City Centre	4. Activity status: Restricted Discretionary	
Zone	Where:	
- Metropolitan		
Centre Zone	a. Compliance with WIND-R1.1 or WIND-R1.2 or WIND-R1.3 cannot be achieved	
Local Centre	Matters of discretion are:	
Zone	1. The matters in WIND-P1, WIND-P2, WIND-P3 and WIND-P4;	
- Neighbourhood	 The extent and effect of non-compliance with any relevant standard as specified in the associated assessment criteria for the infringed standard; 	
Centre Zone	3. The extent of compliance with the quantitative wind study and qualitative wind	
-	assessment requirements included in Appendix 8; and	
Port Zone:	4. The level of consistency with the Wind Chapter Best Practice Guidance	
Inner Harbour Port Precinct	Document (Appendix 14).	
	Section 88 information requirements for applications:	
Port Zone:	-	
Multi-User	2. For the City Centre Zone, Stadium Zone, Port Zone, Multi-User Ferry Precinct, Inner	
Ferry Precinct	Harbour Port Precinct, Waterfront Zone and Metropolitan Centre Zone – Height Control	
- Waterfront	Area 1 and 2, applications under this rule must provide, in addition to the standard information requirements:	
Zone	1. A wind report, which is based on the results of a quantitative wind study, must be	
-	submitted to show compliance with WIND-S1, WIND-S2, and WIND-S3; and	
Stadium Zone -	 The wind report must address the wind report information requirements set out in Appendix 8 WIND-A1 and: 	
Hospital Zone	a. Be based on the results of testing that complies with the requirements given	
- Tertiary	in Appendix 8 WIND-A1; b. Show the effects of the proposed building upon all public spaces;	
Education	c. Compare the effects of the proposed building against the existing situation,	
Zone	except where the site is currently vacant. If the site is vacant, the proposed	
	building must be compared against any building which existed on the site	
	within the previous 5 years; d. Where WIND-S1, WIND-S2, or where applicable WIND-S3, is not complied	
	with, show how the proposed building most closely complies with these standards when compared to any other practical alternative building design	
	(i.e. it is the optimum aerodynamic design for the site);	
	e. Comply with the reporting requirements in Appendix 8 WIND-A1 and be	
	consistent with the Wind Chapter Best Practice Guidance	
	Document (Appendix 14); and f. Be consistent with the proposed design in the resource consent application	
	and any associated urban design analysis and landscaping proposals.	
	3. For the Local Centre Zone, Neighbourhood Centre Zone, Metropolitan Centre Zone -	
	excluding Metropolitan Centre Zone Height Control Area 1 and 2, Hospital Zone, and Tertiary Education Zone, applications under this rule must provide, in addition to the	
	standard information requirements:	

 compliance with WIND-S1 and WIND-S2; and 2. The qualitative wind assessment must: a. Be based on the expert opinion of a suitably qualified person; and b. Consider the effects of the proposed building upon al c. Detail the extent of compliance with WIND-S1 and W d. Comply with the reporting requirements in Appendix 4 consistent with the 'rules of thumb' for estimating win Chapter Best Practice Guidance Document (Appenditien e. Be consistent with the proposed design in the resource of the proposed design in the proposed design in the resource of the proposed design in the resource of the proposed design in the proposed design		 2. The qualitative wind assessment must: a. Be based on the expert opinion of a suitably qualified and experienced person; and b. Consider the effects of the proposed building upon all public spaces; and
WIND-R2 Construction, alteration and additions to buildings and structures no provided for in this chapter		Construction, alteration and additions to buildings and structures <u>not otherwise</u> provided for in this chapter
	All zones <u>not</u> otherwise listed in WIND- <u>R1</u>	1. Activity status: Permitted

Effects Standards

WIND-S1	Safety		
WIND-S1 City Centre Zone Metropolitan Centre Zone Local Centre Zone	 Safety 1. The proposed building, additions or alterations must not result in an annual maximum gust speed in excess of 20 m/s in any public space. 	Assessment criteria where the standard is infringed: 1. The extent to which pedestrians can easily avoid dangerous gust speeds created by the proposed development, including effects on building entrances, pedestrian	
Neighbourhood Centre Zone Port Zone: Inner Harbour		 crossings, or major walking routes; 2. The extent to which pedestrian use in areas where dangerous wind speeds occur is low and wind conditions elsewhere are improved by the proposed development; 	
Port Precinct Port Zone: Multi-User Ferry Precinct Waterfront Zone		 The extent to which dangerous wind speeds at one location results from wind being redirected or shifted from another location, with no significant change in the overall wind conditions; The extent to which an existing dangerous gust speed is reduced, improving the overall wind conditions; The extent to which it is shown that 	
Stadium Zone Hospital Zone Tertiary Education Zone <u>High Density</u> <u>Residential</u> <u>Zone</u>		 the proposed design is the optimum aerodynamic solution, including whether changes in bulk or location of the proposed development are documented and do not significantly improve the situation; and 6. The extent to which the proposed development design is consistent with the Wind Chapter Best Practice Guidance Document (Appendix 14). 	

<u>Medium</u>				
<u>Density</u> Residential				
Zone				
WIND-S2	Deterioration of the wind environment			
City Centre	1. Wind conditions overall must not deteriorate	Assessment criteria where the standard is		
Zone	in public spaces that are affected by the	infringed:		
Metropolitan Centre Zone	development when undesirable wind conditions are assessed by the number of hours a mean wind speed of 2.5 m/s is equalled or exceeded each year; and	 The extent to which pedestrians can easily avoid dangerous gust speeds created by the proposed 		
Local Centre Zone	 Wind conditions at any specific locations may deteriorate by up to 500 hours per year, provided the wind conditions 	development, including effects on building entrances, pedestrian crossings, or major walking routes;		
Neighbourhood Centre Zone	averaged over all the public spaces do not deteriorate.	 The extent to which pedestrian use in areas where dangerous wind speeds occur is low and wind conditions 		
Port Zone: Inner Harbour Port Precinct		elsewhere are improved by the proposed development;3. The extent to which dangerous wind speeds at one location results from		
Port Zone: Multi-User Ferry Precinct		wind being redirected or shifted from another location, with no significant change in the overall wind conditions;		
Waterfront Zone	c ir	 The extent to which existing wind conditions are maintained or improved; The extent to which it is shown that 		
Stadium Zone		the proposed design is the optimum aerodynamic solution, including		
Hospital Zone		whether changes in bulk or location of the proposed development are		
Tertiary Education Zone	documented and d improve the situation 6. The extent to which development design the Wind Chapter M	documented and do not significantly improve the situation; and 6. The extent to which the proposed development design is consistent with		
<u>High Density</u> <u>Residential</u> <u>Zone</u>		the Wind Chapter Best Practice Guidance Document (Appendix 14).		
<u>Medium</u> <u>Density</u> <u>Residential</u> <u>Zone</u>				
WIND-S3	Comfort			
WIND-S3 applies to pPublic spaces listed in Appendix 9 City Centre	 A proposed development must not cause uncomfortable wind conditions in <u>listed</u> public spaces; and A development must not cause existing uncomfortable wind conditions to deteriorate. 	 Assessment criteria where the standard is infringed: 1. The extent to which pedestrians can easily avoid areas where winds deteriorate and use other areas where 		
Zone and Special Purpose Waterfront Zone – Minimum		 the winds do not deteriorate; 2. The extent to which pedestrian use and expectations for the area where winds deteriorate are low and wind conditions elsewhere improve. 		

Sunlight	3.	The extent to which a deterioration in
Access and		winds at one location results from
Wind Comfort		wind being redirected or shifted from
Control –		one area to another, with no
Public Space		significant change in the overall wind
Requirements.		conditions;
	4.	The extent to which existing wind
		conditions have been maintained or improved;
	5.	The extent to which very low existing
		winds speeds have been increased
		towards the comfort threshold;
	6.	The extent to which it is shown that
		the proposed design is the optimum
		aerodynamic solution, e.g. changes in
		bulk or location of the proposed
		development are documented and do
		not significantly improve the situation.
		A "significant" improvement would be a difference of more than 175 hours
		-
	7	per year; and
	1.	The extent to which the proposed development design is consistent with
		advice and recommendations in the
		Wind Chapter Best Practice Guidance
		Document.