

Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises, and entertainment venues

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Policy and Regulation Branch

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This document is the ‘Noise Protocol’ as defined in regulation 4 of the Environment Protection Regulations 2021 (**Regulations**), to be read together with Part 5.3 of the Regulations. You should obtain professional advice if you are unsure of the application of, or your obligations under, the Regulations and the Noise Protocol. EPA Victoria has made reasonable efforts to ensure accuracy at the time of publication.

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EPA acknowledges Victoria’s First Nations peoples as the Traditional Owners of the land and water on which we live and work. We pay our respect to Aboriginal Elders, past and present.

As Victoria's environmental regulator, we pay respect to how Country has been protected and cared for by Aboriginal people over many tens of thousands of years. We acknowledge the unique spiritual and cultural significance of land, water and all that is in the environment to Traditional Owners, and recognise their continuing connection to, and aspirations for Country.

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# Glossary of terms

### **A-frequency weighting**

Frequency weighting representing the human response to sound and its variation with frequency, in the typical range of magnitude for environmental noise levels, as specified in Australian Standard AS/NZS IEC 61672.1:2019 Electroacoustics—Sound level meters, Part 1: Specifications.

### **Background level for the purpose of Part I (Commercial, industrial and trade premises)**

The arithmetic average of the hourly LA90 levels that represents the background sounds in a noise sensitive area, in the absence of noise from any commercial, industrial and trade premises which appears to be intrusive at the point where the background level is measured, when measured according to Part I, section A4.

### **Background level for the purpose of Part II (Entertainment venues and events)**

The noise level of the aggregate of sounds received at a specified measurement point in the absence of contributions of music noise, measured as LA90 or LOCT90 according to Part II, section A2.1.

### **Background relevant area**

A noise sensitive area within a rural area where background levels may be higher than usual. This includes areas where freeway or highway traffic is a significant audible background noise source. It also includes coastal areas, where representative background levels are elevated by the sound of surf.

### **Beaufort Wind Scale**

The Beaufort Wind Scale is an empirical measure that relates wind speed to observed conditions (refer to Appendix C of Australian Standard AS 1055:2018 Acoustics - Description and measurement of environmental noise).

### **Earth resources premises**

Earth resources premises include sites such as mines and quarries, and ancillary infrastructure (such as evaporation pond facilities, ventilation shafts, tailings dams or pumping stations) located within the site’s approved working area.

### **Extraneous noise**

Extraneous noise refers to any noise that is not part of the noise emissions from a commercial, industrial and trade premises, or music noise from an indoor entertainment venue, outdoor entertainment venue or outdoor entertainment event and is not relevant to the typical background noise. Extraneous noise includes noise from aircraft, local traffic, construction works, insects, bird chirping, people talking, rustling leaves, and the effect of wind on the microphone diaphragm.

### **Fast time weighting**

Time weighting characteristic of a sound level meter as specified in Australian/New Zealand Standard AS IEC 61672.1:2019 Electroacoustics—Sound level meters, Part 1: Specifications. **LA90**

A-frequency weighted sound pressure level, measured using the Fast time-weighting, that is exceeded for 90 per cent of the time interval considered.

**LAeq**

The equivalent continuous A-weighted sound pressure level. It is the value of the A-weighted sound pressure level of a continuous steady sound that has the same acoustic energy as a given time-varying A-weighted sound pressure level when determined over the same measurement time interval.

### **Linear, linear weighting**

The sound pressure level when no frequency weighting is applied. It is identical to the Z-frequency weighting, as specified in Australian Standard AS/NZS IEC 61672.1:2019 Electroacoustics — Sound level meters, Part 1: Specifications.

**LOCT10**

Linear sound pressure level for a specified octave band that is exceeded for 10 per cent of the time interval considered.

**LOCT90**

Linear sound pressure level for a specified octave band that is exceeded for 90 per cent of the time interval considered.

### **Octave band**

Division of the frequency range used for the purposes of acoustic design and noise assessment, allowing for a more targeted control of sound as it varies with frequency. Noise is measured in octave bands using frequency filters as specified in Australian standard AS IEC 61260.1:2019, Electroacoustics - Octave-band and Fractional-octave-band Filters*.*

### **One-third octave band**

A division of the frequency range that can be used when octave bands do not provide a sufficient resolution. Each octave band comprises three one-third octave bands. Noise is measured in one-third octave bands using frequency filters as specified in Australian standard AS IEC 61260.1:2019, Electroacoustics - Octave-band and Fractional-octave-band Filters*.*

### **Public sector body**

Public sector body has the same meaning as in the **Public Administration Act 2004***.*

### **Rural area method**

The method for setting noise limits in a rural area, as determined in accordance with Part 1, A2 of this document.

### **Sensitive room**

1. Unless (b) or (c) applies, for the purposes of assessing unreasonable noise from a commercial, industrial and trade premises, indoor or outdoor entertainment venue or outdoor entertainment event, a sensitive room is –
	1. any habitable room (as defined in section 167(3) of the *Environment Protection Act 2017*) within a noise sensitive area; or
	2. any learning room within a kindergarten, childcare centre, primary or secondary school.
2. For the purposes of assessing unreasonable noise from an indoor entertainment venue under regulation 113 of the Environment Protection Regulations 2021, when the agent of change principle set out in clause 53.06 of the VPPs applies, a sensitive room is any room of a dwelling or residential building other than a
	1. bathroom
	2. laundry
	3. toilet
	4. pantry
	5. walk-in wardrobe
	6. corridor
	7. stair
	8. lobby
	9. photographic darkroom
	10. clothes drying room

and other spaces of a specialised nature occupied neither frequently nor for extended periods.

(c) For the purposes of assessing unreasonable noise from outdoor entertainment venues located within the Docklands Noise Attenuation Area when the noise sensitive area is also within the Docklands Noise Attenuation Area, a sensitive room is –

* + 1. any room of a dwelling or residential building other than a:
			- bathroom
			- laundry
			- toilet
			- pantry
			- walk-in wardrobe
			- corridor
			- stair
			- lobby
			- photographic darkroom
			- clothes drying room and other spaces of a specialised nature occupied neither frequently nor for extended periods.
		2. any learning room within a kindergarten, childcare centre, primary or secondary school.

### **Traffic noise LAeq**

Equivalent continuous A- frequency weighted sound pressure level (LAeq) measured for road traffic noise, in free field conditions, in accordance with Australian Standard AS 2702-1984, *Acoustics – Methods for the Measurement of Road Traffic Noise*.

### **Urban area method**

The method for setting noise limits in a major urban area, as determined in accordance with Part I, A1 of this document.

**VPPs**

Victoria Planning Provisions approved under the **Planning and Environment Act 1987** as amended from time to time.

# Introduction

This *Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues* (Noise Protocol), is incorporated into the Environment Protection Regulations 2021 (the Regulations) without modification.

This publication provides a protocol for the purpose of determining noise limits for new and existing commercial, industrial and trade premises, an indoor entertainment venue, outdoor entertainment venue, and outdoor entertainment event, as defined by the Regulations. Under regulation 113, a person who conducts a prediction, measurement, assessment or analysis of noise within a noise sensitive area for the purposes of the Environment Protection Act 2021 (the Act) or the Regulations (other than Part 5.3, Division 5 of the Regulations), must conduct the prediction, measurement, assessment or analysis in accordance with the Noise Protocol. The Noise Protocol sets the methodology for assessing the effective noise level to determine unreasonable noise under regulations 118, 125 and 130. The measurement procedures of this Noise Protocol are also used to determine aggravated noise under regulations 121, 127 and 131.

# How to use this publication

This publication is divided into two parts.

Part I outlines the methodology for setting the noise limits for a commercial, industrial and trade premises in both urban and rural areas of Victoria. It further outlines the steps that must be followed to undertake an assessment (measurement or prediction) of the effective noise level within a noise sensitive area or at an alternative assessment location. A comparison between the effective noise level and the relevant noise limit or the relevant alternative assessment criterion will determine whether the noise that is emitted from a commercial, industrial and trade premises is determined to be unreasonable under regulation 118 of the Regulations.

Part II outlines the noise limits for indoor and outdoor entertainment venues and outdoor entertainment events. It further describes the steps that must be followed to undertake an assessment (measurement or prediction) of the effective noise level within a noise sensitive area or at an alternative assessment location. A comparison between the effective noise level and the relevant noise limit or the relevant alternative assessment criterion will determine whether the noise that is emitted from an indoor or outdoor entertainment venue or outdoor entertainment event is determined to be unreasonable under regulation 125 or under regulation 130 having regard to regulation 122 of the Regulations.

Unless explicitly stated otherwise, terms defined under the Act or Regulationshave the same meaning as the corresponding term used in this Noise Protocol.

# **Part I: Commercial, industrial and trade premises**

#  A: Determining noise limits for commercial, industrial and trade premises

# 1. Noise limits – urban area method

1. Noise limits must be set at an assessment location within a *noise sensitive area* as defined by the Regulations. The values of the noise limits must be whole numbers, rounded to the nearest decibel.
2. Determine the zoning level for each period using the method in clauses 7 to 15.
3. Assess the background level in accordance with clauses 39 to 51.
4. Determine whether the background level, relative to the zoning level, for each period as relevant is neutral, low or high:
	1. for the day period the background level is –
		1. neutral when it is at least 6 dB, and no more than 12 dB, below the zoning level;
		2. high when the background level plus 6 dB exceeds its respective zoning level; and
		3. low when the background level is 13 dB or more below the zoning level.
	2. for the evening and night periods the background level is –
		1. neutral when it is at least 3 dB and no more than 9 dB below the zoning level; ii. high when the background level plus 3 dB exceeds the zoning level; and iii. low when the background level is 10 dB or more below the zoning level.
5. If the background level is neutral, the noise limit for the respective period is the zoning level determined according to clauses 7 to 15.
6. Where the background level is not neutral, the noise limit for each period is based on whether the background relative to the zoning level is low or high (and having regard to the base noise limits in regulation 118(2)(a) and the night period noise limit in regulation 118(3)) – a. for the day period:
	* 1. if the background level relative to the zoning level is high, the noise limit for the day period is the background level plus 6 dB;
		2. if the background level relative to the zoning level is low, the noise limit for the day period must be calculated from the following formula – noise limit = ½ (zoning level + background level) + 4·5 dB.

b. for the evening period:

* + 1. if the background level relative to the zoning level is high, the noise limit for the evening period is the background level plus 3 dB;
		2. if the background level relative to the zoning level is low, the noise limit for the evening period must be calculated from the following formula – noise limit = ½ (zoning level + background level) + 3 dB
	1. for the night period:
		1. if the background level relative to the zoning level is high, the noise limit for the night period is the background level plus 3 dB, but not greater than 55 dB(A);
		2. if the background level relative to the zoning level is low, the noise limit for the night period must be calculated from the following formula – noise limit = ½ (zoning level + background level) + 3 dB.

### 1.1 Zoning level

1. To determine the zoning level, the relevant planning scheme or schemes for the area under consideration must be used. (Refer to Annex A).
2. Two concentric circles of diameter 140 metres and 400 metres must be drawn or reproduced to scale on the relevant map, centred on the measurement point in the noise sensitive area (but if an alternative assessment location is specified, the centre of the two circles must be located at an appropriate point in the noise sensitive area).
3. The zones and reservations specified by the planning scheme or schemes within each circle must be designated by the Authority as type 1, type 2 or type 3 according to the tables in Annex A to this Noise Protocol, as amended from time to time.
4. In designating a zone or reservation as a type, the Authority must have regard to the nature of uses permitted in that zone or reservation and must generally designate –
	1. residential, rural and open spaces as type 1; and
	2. commercial, business and light industry as type 2; and
	3. general industry and major roads as type 3.
5. If a zone or reservation is not listed in Annex A to this Noise Protocol, the Authority, having regard to the nature of the uses permitted in similar zones or reservations, will designate a type accordingly.
6. A type designated by the Authority under clause 11 must be published on the Authority’s website or the website of a public sector body specified on the Authority’s website and will apply to that zone or reservation for the purposes of the Noise Protocol going forward.
7. The total area of the 140 metre circle and the 400 metre circle must be measured from the relevant map specified in clause 8 above.
8. The area of all the type 2 and 3 zones and reservations must be measured for each of the two circles from the same map and the following applies –
	1. The influencing factor (IF) must be calculated from the following formula:

 area type 3 + ½(area type 2) 

 IF = ½   140m circle

  total area of circle 

 area type 3 + ½(area type 2) 

 + ½   400m circle

  total area of circle 

* 1. Alternatively, the fraction of each circle occupied by type 2 and 3 zones and reservations must be measured and the influencing factor (IF) calculated from the following equivalent formula:

IF = 0·25 (Sum of type 2 fractions for both circles) + 0·5 (Sum of type 3 fractions for both circles).

1. The zoning level for a day period, evening period or night period must be determined from figure 1 below and must be rounded to the nearest decibel.



**Figure 1: Zoning Level vs Influencing Factor**

# 2. Noise limits – Rural area method

### 2.1 Noise limits in rural areas for commercial, industrial and trade premises other than utilities and earth resources

1. Use clauses 17 to 28 to determine the noise limits for commercial, industrial and trade premises (other than utilities (clauses 29 to 32) and earth resources (clauses 33 to 36)) that impact on a noise sensitive area located in a rural area. The values of the noise limits must be whole numbers, rounded to the nearest decibel.
2. Determine the zone level and distance-adjusted level for each period using the method in clauses 19 and 20.
3. For each period, the noise limit is the greater of the distance-adjusted level and base noise limit in regulation 118(2)(b), unless a background level assessment has been conducted in accordance with clauses 21 to 23.

###  2.2 Zone levels and distance-adjusted levels

1. Determine the zone levels for each of the day, evening and night periods using Annex B to this Noise Protocol.
2. Adjust the zone levels determined under clause 19 by accounting for the distance between the zone where the noise generator is located and the location of the noise receiver in the noise sensitive area –
	1. if the noise generator and receiver are covered by the same contiguous zone, the distance adjustment is 0 dB;
	2. if the noise generator and receiver are not located in land use zones with the same zone code subtract 1 dB for every 100 metres of receiver distance;
	3. if the noise generator and receiver are located in land use zones that have the same zone code and there is an intervening zone that is not for a road or railway line, subtract 1 dB for every 100 metres of receiver distance;
	4. if there is a zone for a road or a railway line that divides a noise-emitting zone, ignore the road or railway zone (that is, the zone should be treated as one contiguous zone for the receiver-distance adjustment);
	5. if a distance adjustment is required, the maximum subtraction is 9 dB;
	6. the distance adjustment must be applied to the zone level for the day, evening and night periods.

###  2.3 Background level assessment

1. If the noise sensitive area is located within a background relevant area, an assessment of the background level must be made in accordance with clauses 39 to 55, unless clause 23 applies.
2. An assessment of the background level may be made where the assessment location in the noise sensitive area is further than 600 metres from the boundary of the land-use zone in which the relevant commercial, industrial and trade premises is located, to ensure the noise limit is not set below the background level.
3. Where the noise being assessed will meet the noise limit based on either the base noise limits or distance-adjusted levels and there is no other contributing noise source from a commercial, industrial and trade premises, an assessment of background level is not mandatory.

###  2.4 Noise limits based on background level assessment

(24) Unless clauses 25 to 28 applies, where a background level assessment has been conducted in accordance with clauses 21 and 22 –

1. for the day period, the noise limit is the greater of:
	1. the distance-adjusted level or base noise limit; or
	2. ii. the day background level plus 8 dB.
2. for the evening period, the noise limit is the greater of:
	1. the distance-adjusted level or base noise limit; or
	2. ii. the evening background level plus 5 dB.
3. for the night period, the noise limit
	1. is the greater of –
		* the distance-adjusted level or base noise limit; or
		* the night background level plus 5 dB.
	2. must not be greater than 55 dB(A).

###  2.5 Noise limits based on high traffic noise method for proposed developments

1. For proposed developments where the background-relevant area is affected by high traffic noise levels, and the noise sensitive area is not in an Industrial 1 Zone (IN1Z), Industrial 2 Zone (IN2Z), Industrial 3 Zone (IN3Z), Commercial 2 Zone (C2Z); or in a Special Use Zone (SUZ) with accommodation a prohibited use in that SUZ, measure the traffic noise LAeq in accordance with

Australian Standard AS2702-1984, *Acoustics – Methods for the measurements of road traffic noise.*

1. The reference values for day, evening and night periods in high traffic noise areas are defined in Table 1.

#### Table 1: Reference values for high traffic noise areas

|  |  |
| --- | --- |
| **Period**  | **Reference value**  |
| Day  | 55 dB(A)  |
| Evening  | 50 dB(A)  |
| Night  | 45 dB(A)  |

(27) For the day and evening periods, the noise limits for proposed developments in noise sensitive areas in high traffic noise areas are determined using Table 2.

#### Table 2: Determine noise limits for high traffic noise areas for day and evening periods

|  |  |
| --- | --- |
| **Comparison with reference value**  | **Figure to apply as noise limit**  |
| If the noise limit from clause 24, as relevant, is lower than the reference value in clause 26 then:  | The noise limit from clause 24, as relevant, is the noise limit that applies.  |
| If the noise limit from clause 24, as relevant, is equal to or greater than the reference value in clause 26 then:  | The reference value from clause 26 is the noise limit that applies.  |
| If the noise limit from clause 24, as relevant, is greater than the reference value in clause 26, and traffic noise LAeq determined in accordance with clause 25 equals or is greater than the reference value +10 dB:  | The lower of: [the noise limit from clause 24 as relevant] or [the traffic noise LAeq level minus 10 dB determined in accordance with clause 25] is the noise limit that applies.  |

 (28) For the night period, the noise limit is determined using Table 3.

#### Table 3: Determine noise limits for high traffic noise areas for night period

|  |  |
| --- | --- |
| **Comparison with reference value**  | **Figure to apply as noise limit**  |
| If the noise limit from clause 24, as relevant, is lower than the reference value in clause 26 then:  | The noise limit from clause 24, as relevant, is the noise limit that applies.  |
| If the noise limit from clause 24, as relevant, is equal to or greater than the reference value in clause 26 then:  | The reference value from clause 26 is the noise limit that applies.  |
| If the noise limit from clause 24, as relevant, is greater than the reference value in clause 26, and traffic noise LAeq determined in accordance with clause 25 equals or is greater than the reference value +10 dB then:  | The lower of: [the noise limit from clause 24, as relevant] or [the traffic noise LAeq level minus 10 dB determined in accordance with clause 25] or [55 dB(A)] is the noise limit that applies.  |

###  2.6 Noise limits in rural areas for utilities

1. To determine the noise limits for utilities that impact a noise sensitive area located in a rural area, determine the zone level and distance-adjusted level for each period using the method in clauses 19 and 20.
2. If a utility is located in a Transport Zone 2 (TRZ2) or Transport Zone 3 (TRZ3), such as a pole mounted transformer –
	1. compare the distance-adjusted levels from clause 20 to the zone levels in Annex B that would apply if the utility were in the same zone as the noise sensitive area (for example, General Residential Zone emitter to General Residential Zone receiver).
	2. adopt as the distance-adjusted level the lower of –
		1. the distance-adjusted level from clause 20, and
		2. the zone level that would apply when the emitter is in the same zone as the noise sensitive area.
	3. for each period, the noise limit is the greater of the distance-adjusted level (from clause 30(b)) and base noise limit, unless a background level assessment is conducted in accordance with clauses 21 to 23.
3. If the utility is located in a Farming Zone (FZ), Rural Activity Zone (RAZ) or Green Wedge Zone (GWZ) and the distance adjustment is 0 dB, and unless a background level assessment is conducted in accordance with clauses 21 to 23, then:
	1. the distance-adjusted level for each period is –
		1. Day: 45 dB(A) ii. Evening: 39 dB(A) iii. Night: 34 dB(A).
	2. The noise limit is the distance-adjusted level defined in clause 31, unless a background level assessment is conducted in accordance with clauses 21 to 23.
4. Where a background level assessment is conducted in accordance with clauses 21 to 23, the noise limit is determined in accordance with clause 24. The value of the noise limit must be a whole number, rounded to the nearest decibel.

###  2.7 Noise limits in rural areas for earth resources

1. Use this section of the Noise Protocol to determine the noise limits for earth resources premises where the noise sensitive area is in a rural area.
2. Where the noise sensitive area is located in a major urban area, the relevant noise limits for earth resources premises are determined in accordance with clauses 1 to 15.
3. Determine the earth resources levels as follows:
	1. where the noise sensitive area is in a Green Wedge A Zone (GWAZ), Rural Conservation Zone

(RCZ) or Rural Living Zone (RLZ), the earth resources levels are –

* + 1. Day: 45 dB(A) ii. Evening: 38 dB(A) iii. Night: 33 dB(A).
	1. where the noise sensitive area is in an Industrial 3 Zone (IN3Z) or Special Use Zone (SUZ) (only where accommodation, other than caretaker’s house, is prohibited in the SUZ), the earth resources levels are –
		1. Day: 51 dB(A) ii. Evening: 46 dB(A) iii. Night: 41 dB(A).
	2. where the noise sensitive area is in an Industrial 1 Zone (IN1Z), Industrial 2 Zone (IN2Z),

Commercial 2 Zone (C2Z), the earth resources levels are –

* + 1. Day: 56 dB(A) ii. Evening: 51 dB(A) iii. Night: 46 dB(A).
	1. in all other situations, the earth resources levels are –
		1. Day: 46 dB(A) ii. Evening: 41 dB(A) iii. Night: 36 dB(A).
1. No distance adjustment applies to these earth resources levels. Adopt the earth resources levels from clause 35 as the distance-adjusted levels. Conduct a background level assessment in accordance with clauses 21 to 23, if the noise sensitive area is located in a background relevant area, and determine the relevant noise limits in accordance with clause 24. The values of the noise limits must be whole numbers, rounded to the nearest decibel.

#  3. Noise limits – Emergency equipment

1. Where the noise source under consideration is equipment used solely in relation to emergencies, the relevant noise limit applying to the testing or maintenance of such equipment, as determined in clauses 1 to 15 or clauses 16 to 36 above, is increased by 10 dB for a day period and by 5 dB for all other periods.
2. For the purpose of clause 37, equipment used in relation to emergencies includes –
	1. a fire pump means a water pump permanently installed on a premises for extinguishing fires in emergencies;
	2. a standby boiler means a boiler which is used to supply hot water or steam in an emergency as an alternative to the normal boiler;
	3. a standby generator means a generator of electrical power used as an alternative to the mains supply in emergencies, or for a maximum period of 4 hours per month for maintenance purposes;
	4. a smoke spill fan means a fan that forms part of a building emergency smoke control system;
	5. a stair pressurisation system means a pressurisation system used in emergencies to protect stairwells from smoke ingress;
	6. a hospital specialist ventilation system means a mechanical ventilation system used in relation to an emergency to prevent the spread of airborne infection, or other biological or chemical agents.

# 4. Assess background level to set noise limits for the urban area method or the rural area method

###  4.1 Measurement of background level

1. The background level must, where possible, be measured outdoors at the assessment location in the noise sensitive area.
2. Where it is not possible for the measurement of the background level to be made in the noise sensitive area, then the measurement may be made at another point (background equivalent location) which is representative of the likely background level at the assessment location in the noise sensitive area.
3. The background level must be measured during dry conditions with wind conditions satisfying Beaufort Wind Scale 0, 1, 2 or 3.
4. The background level must include all noise sources except noise from any commercial, industrial and trade premises which appears to be intrusive at the point where the background level is measured.
5. When the microphone is located outdoors and 1 to 2 metres from an acoustically reflecting surface an adjustment of -2.5 dB must be made to the measured LA90.
6. No adjustment for noise character is applied to the measured background level.
7. The background level must be rounded to the nearest decibel.
8. To determine the background level, the LA90 must be measured continuously over each hour of the day, evening and night period that the commercial, industrial and trade premises under investigation normally operates.
9. Where the conditions of clause 46 cannot be met, the LA90 may be measured over less than the full period using the short background method in clause 48.
10. For the short background method, at least two measurements of the LA90 must be made, each of at least 10-minutes duration, in each period, so as to obtain a representative measure of the background level for the periods when the commercial, industrial and trade premises under investigation normally operates.

###  4.2 Determination of background level

1. Where the hourly LA90 levels (LA90,1 hour) have been measured, the background level is determined for each period as the arithmetic average of the LA90,1 hour for each hour of that period for which the commercial, industrial and trade premises under investigation normally operates.
2. For the purpose of clause 49, for the relevant period, the background level must be based on valid LA90,1 hour measurements for each and every hour that the premises under investigation normally operates.
3. Where the LA90 levels have been measured using the short background method in clause 48, the measurements in each period must be arithmetically averaged to obtain the background level during the relevant period.

# 5. Specific variations for mines, quarries and landfills

1. The noise limits (determined in accordance with clauses 1 to 15 or clauses 16 to 36, as relevant) apply to general mine, quarry or landfill operations, including overburden removal and depositing, any activity occurring below the natural surface at a mine or quarry, and the handling or disposal of waste material (including tailings at a mine or quarry and waste received at a landfill).
2. Variations to the noise limits may be applied to particular open-air activities at mines, quarries and landfills where there is significant open-air surface activity during site preparation, particular operational activities, or rehabilitation as specified in Table 4.
3. Atmospheric conditions that increase noise at sensitive areas (propagation conditions ‘favourable to the propagation of sound’) should be assumed for noise modelling and works programming, regardless of the actual conditions when the works occur.
4. The variations must not be applied when the noise limits can be achieved.

### **Table 4: Mine, quarry and landfill variations**

|  |  |  |
| --- | --- | --- |
| **Activity**  | **Application of variations**  | **Variations to noise limits**  |
| **Installation of constructed noise control works**   | The variation applies to the construction of structures that are specifically designed for a noise-control purpose, (such as walls or earth bunds) to meet the noise limits.  The variation applies to noise control works to protect different noise sensitive areas at a later stage in the project e.g. where extraction works take place in a different part of a large site.  The variation does not include mining or quarrying works carried out during the project that have a coincidental, secondary noise-control benefit e.g. general overburden stockpiling, or building construction or demolition.  | Noise from the activity may be exempted from noise limits during the day period.  |
| **Site clearing and preparation works**   | The variation applies to vegetation removal, topsoil removal, subsoil removal, road construction and civil works such as site drainage where the activity will happen before acoustic mounds can feasibly be constructed.  The variation does not apply to overburden removal.  | Noise from the activity may be exempted from noise limits during the day period.  |
| **Site rehabilitation**  | The variation applies to progressive and final site rehabilitation, occurring at the final surface level.  The variation does not apply to backfilling of a pit.  | During the day period, the noise limit may be increased by up to 10 decibels, to a maximum of 68 dB(A).  |
| **Necessary** **unshielded work**   | The variation applies to waste dump extensions (at a mine or quarry) or tailings dam construction that is necessary but cannot practicably be shielded by barriers, landforms or natural topography.  | During the day period, the noise limit may be increased by up to 10 decibels, to a maximum of 68 dB(A).  |

# B: Assessing noise from commercial, industrial and trade premises

# 1. Assessment location, alternative assessment location and alternative assessment criteria.

###  1.1 Assessment location

(56) Noise from commercial, industrial and trade premises must be assessed at a location in a noise sensitive area where the maximum effective noise level occurs or, for proposed premises, is predicted to occur.

###  1.2 Alternative assessment location

1. Notwithstanding clause 56, an alternative assessment location may be specified where:
	1. two or more premises contribute to the effective noise level and a measurement point is required that is not influenced by any noise source from any other commercial, industrial and trade premises;
	2. atmospheric conditions affect the effective noise level at the noise sensitive area and a measurement point is required closer to the commercial, industrial and trade premises under investigation that is not affected by atmospheric conditions;
	3. a measurement point in a noise sensitive area is not readily accessible and a more suitable measurement point is required; or
	4. extraneous noise affects the effective noise level at the noise sensitive area and a measurement point is required at a location that is not affected by extraneous noise.
2. An alternative assessment location may be either within or outside a noise sensitive area. It must be chosen so that the noise at the alternative assessment location is representative of the noise exposure within noise sensitive areas.
3. An alternative assessment location may be specified either within or outside a commercial, industrial and trade premises.

### 1.3 Alternative assessment criterion

1. Where an alternative assessment location is used, an alternative assessment criterion must be determined for that location, for each relevant operating time period.
2. The alternative assessment criterion must be set so that compliance with this noise level will result in the noise limit at the noise sensitive area not being exceeded, for the relevant operating time period.
3. The alternative assessment criterion must be calculated having regard to:
	1. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound.
	2. the character of the noise from commercial, industrial and trade premises that will be experienced in noise sensitive areas, and the value of the relevant duration or noise character adjustments as described in clauses 79 to 81 and clauses 82 to 88.
	3. the cumulative contribution from other commercial, industrial and trade premises affecting noise sensitive areas.
	4. the uncertainty of the calculation method used.

Note: The value of a specific alternative assessment criterion is determined from the relevant noise limit, the difference between the sound paths from the industry being assessed to the noise sensitive area, and the sound paths to the alternative assessment location. It may also be influenced by the character of the noise. However, to ensure that meeting an alternative assessment criterion is consistent with complying to the relevant noise limit that applies within the considered noise sensitive area, an alternative assessment criterion is not subject to the base noise limits set out in regulation 118(2) or to the maximum value of 55 dB(A) for the night period set out in regulation 118(3).

#  2. Effective noise levels

1. The effective noise level is determined, for noise from commercial, industrial and trade premises, as a 30-minute equivalent sound pressure level LAeq,30min adjusted, where relevant for: a. duration (Adur)
	1. noise character
		1. tonality (Atone) ii. impulse (Aimp) iii. intermittency (Aint)
	2. measurement position
		1. reflection (Arefl) ii. indoor (Aind)
2. The effective noise level is calculated using Equation 1:

###  **ENL = LAeq + Adur + Atone + Aimp + Aint + Arefl + Aind** (Equation 1)

1. For the purpose of determining the effective noise level the noise is measured using the Fast time weighting and the A-frequency weighting network.
2. The LAeq and relevant adjustments must be applied to one decimal place.
3. The effective noise level is rounded to the nearest decibel.

### **Existing premises**

1. For existing premises, the effective noise level is determined based on measurements within the noise sensitive area or at an alternative assessment location, in accordance with clauses 71 to 90.
2. Notwithstanding clause 68 the effective noise level for existing premises can be calculated in accordance with clause 70 to facilitate the assessment of noise.

### **Proposed premises or proposed extensions of existing premises**

(70) For proposed premises or proposed extensions of existing premises, the effective noise level must be calculated having regard to:

1. all existing noise sensitive areas or future noise sensitive areas relevant to approved developments;
2. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound;
3. the character of the noise that will be experienced in noise sensitive areas, and the value of the relevant duration and noise character adjustments to apply (clauses 79 to 81 and clauses 82 to 88);
4. the cumulative contribution from existing and approved premises affecting noise sensitive areas;
5. the uncertainty of the calculation method used.

#  3. Measurement of noise from commercial, industrial and trade premises

### 3.1 Measurement point

#### Outdoor measurement

1. The measurement point must be located within a noise sensitive area or at an alternative assessment location.
2. If the measurement point is in a noise sensitive area, it must be located outdoors unless the conditions for an indoor measurement apply in accordance with clause 74.
3. The measurement point within a noise sensitive area must be located at a point where the maximum effective noise level occurs.

#### Indoor measurement

1. The measurement point must be located indoors, in a sensitive room within a noise sensitive area,when:
	1. the noise (including vibration induced noise) is transmitted into the affected room through a solid wall, floor or ceiling from another part of the same building or an adjoining building; or
	2. an outdoor measurement that represents noise exposure within the noise sensitive area cannot be made (neither within the noise sensitive area, nor at an alternative assessment location), even when a microphone is placed through a window opening on a boom.
2. If an indoor measurement is made in a sensitive room, all its windows and doors must be closed.

### 3.2 Atmospheric conditions

1. Where the effective noise level at the noise sensitive area is likely to be affected by atmospheric conditions, an alternative assessment location located near to the commercial, industrial and trade premises must be used unless there is no appropriate alternative assessment location (refer clause 77).
2. If an alternative assessment location is not appropriate, the effective noise level is calculated as the arithmetic average of three measurements taken on different days within a 30-day period at the noise sensitive area.
3. The measurements in clause 77 must represent the worst-case scenario of exposure, giving regard to the operation conditions of the noise source and atmospheric conditions favourable to the propagation of sound.

### 3.3 Duration adjustment

1. If noise emissions from the commercial, industrial and trade premises investigated do not occur over the whole continuous 30-minute period, the duration adjustment applies.
2. The duration adjustment is determined from the ratio of the total time for which the source is operating over the measurement period (per cent on time) using Equation 2:

####  Adur = 10 log10 (total time source operating / measurement period) dB (Equation 2)

(81) When determining the duration adjustment for noise that is impulsive in nature, any impulse noise emission is deemed to be audible for 10 seconds after the occurrence of the emission.

### 3.4 Adjustments for noise character

#### Tonality adjustment

1. When the noise is tonal in character then an adjustment is made based on observations of the noise.
2. The following adjustments apply –
	1. when the tonal character of the noise is just detectable then Atone = +2 dB;
	2. when the tonal character of the noise is prominent then Atone = +5 dB.
3. When a tone is present, but observations do not provide certainty with regards to the value to apply for the tonal adjustment, the adjustment may be determined using the objective tonal method in accordance with Annex C.

#### Impulse adjustment

1. When the noise is impulsive in character the following adjustments apply:
	1. when the impulsive character of the noise is just detectable then Aimp = +2 dB.
	2. when the impulsive character of the noise is prominent then Aimp = +5 dB.
2. When determining the duration adjustment for noise that is impulsive in character, any impulse noise emission is deemed to be audible for 10 seconds after the occurrence of the emission.

#### Intermittency adjustment

1. An intermittency adjustment applies when the noise:
	1. increases in level rapidly, and by at least 5 dB, on at least two occasions during a 30-minute period; and
	2. maintains the higher level for at least a one-minute duration.
2. The intermittency adjustment is determined using Table 5.

#### Table 5: Intermittency adjustment for noise from commercial, industrial and trade premises

|  |  |  |
| --- | --- | --- |
| **Time Period**  | **Increase in level**  | **Adjustment**  |
| Day period  | > 10 dB  | + 3 dB  |
| Evening period or Night period  | 5-10 dB  | + 3 dB  |
| > 10 dB  | + 5 dB  |

### 3.5 Adjustments for measurement position

#### Reflection adjustment

(89) If the microphone position is located between 1, and 2 metres from an acoustically reflective surface, the reflection adjustment is applied by subtracting 2.5 dB from the measured noise level, so that Arefl = -2.5 dB.

#### Indoor adjustment

(90) If the measurement is conducted indoors, an indoor adjustment applies and is determined using Table 6.

Note: The intent of the indoor adjustment is to allow for the assessment of noise emissions from commercial, industry and trade premises, against the noise limits that are defined as outdoor noise levels, when an outdoor measurement would not allow for this assessment. The indoor adjustment is not meant to be used to determine or assess the effectiveness of the design response and construction of buildings affected by noise from commercial, industry and trade premises.

#### Table 6: Indoor adjustment for noise from commercial, industrial and trade premises

|  |  |  |
| --- | --- | --- |
|  | **Circumstances**  | **Adjustment**  |
| • •  | The noise reduction performance of the building envelope is known, in octave or one third octave bands, from design specifications, calculations or measurements, and; The frequency spectrum of the indoor noise has been measured.  | Site specific adjustment based on the noise reduction performance of the building envelope (taking into account the volume and acoustic properties of the room).  |
| •  | Where the noise reduction performance is unknown, the adjustment is based on the following assessment of the building envelope:  | - Meets or exceeds energy efficiency requirements set out in the Building Code of Australia 2006 (BCA 2006) including sealing requirements.  | +20 dB  |
| - Does not meet energy efficiency requirements or sealing requirements set out in the BCA 2006.  | +15 dB  |

# **Part II: Entertainment venues and events**

#  A. Noise limits for music noise from entertainment venues and events

# 1. Noise limits – Outdoor entertainment venues and outdoor entertainment events

1. The noise limit for music noise from outdoor entertainment venues and for music noise from outdoor entertainment events during standard operating hours, as defined in regulations 128 and 129 is –
	1. 65 dB(A) when the measurement point is located outdoors, within a noise sensitive area; and
	2. 55 dB(A) when the measurement point is located indoors, in a sensitive room within a noise sensitive area.
2. Clause 91 does not apply to music noise from an outdoor entertainment venue within the Docklands noise attenuation area, when assessed at a noise sensitive area within the Docklands noise attenuation area.

### 1.1 Docklands noise attenuation area

1. For the purposes of assessing music noise from an outdoor entertainment venue, when both the venue and the noise sensitive area are within the Docklands noise attenuation area (as referred to in Schedule 12 to the Design and Development Overlay to the Melbourne Planning Scheme) and the measurement point is located indoors, a minimum standard of 45 dB(A) is taken to be the relevant noise limit.
2. New or refurbished residential developments within the Docklands noise attenuation area (as referred to in Schedule 12 to the Design and Development Overlay to the Melbourne Planning Scheme) must include appropriate acoustic measures to attenuate music noise entering any sensitive room to achieve a minimum standard of 45 dB(A) inside the defined rooms with windows and external doors closed.

# 2. Noise limits – Indoor entertainment venues

1. The noise limits for music noise from indoor entertainment venues that apply within noise sensitive areas, are –
	1. for the day and evening period as defined in regulation 123, LA90 + 5 dB; and
	2. for the night period as defined in regulation 123, LOCT90 + 8 dB.
2. Notwithstanding clause 95, if the noise limit for music noise from an indoor entertainment venue for the day and evening or night periods is calculated to be less than the base noise limit in regulation 125, then the noise limit is the base noise limit.

### 2.1 Background levels for setting noise limits for music noise from indoor entertainment venues

1. For the purpose of setting noise limits for music noise from indoor entertainment venues, the background level is –
	1. the LA90 level, for the day and evening period, and
	2. the LOCT90 level, for the night period.
2. The measured LA90 or LOCT90 in clause 97 must reflect the background level at the time the effective noise level is assessed (either measured or predicted).
3. The background level must be measured within the noise sensitive area or at an alternative assessment location where the background level is representative of the background level occurring within the noise sensitive area.
4. Background level must be measured outdoors unless –
	* 1. clause 106(a) applies; or
		2. the noise sensitive residential use is the agent of change, when clause 53.06 of the VPPs applies.
5. Where the background level determined at the time of assessment of an indoor entertainment venue

has noise contributions from commercial, industrial and trade premises and the effective noise level of the commercial, industrial and trade premises exceeds the relevant noise limit in accordance with Part I, the background level must be re-measured after compliance with Part I noise limits is achieved.

1. For the purpose of determining the background level the background noise is measured for at least 15 minutes –
	* 1. for the day and evening period using the Fast time weighting and the A-frequency weighting network; or
		2. for the night period using the Fast time weighting, and the linear weighting network.

# 3. Agent of Change

1. Where the agent of change principle set out in clause 53.06 of the VPPs applies to a live music entertainment venue (as defined in the Regulations), and –
	1. the venue is an indoor entertainment venue, the noise limit at a pre-existing noise sensitive residential use is determined in accordance with clauses 95 and 96, and clauses 97 to 102.
	2. the venue is an outdoor entertainment venue, the noise limit is 45 dB(A) when assessed indoors at a pre-existing noise sensitive residential use.
2. For the purpose of clause 103 the measurement point may be located inside any room (specifically defined within clause 53.06-3 of the Victoria Planning Provisions) of a noise sensitive residential use with windows and doors closed.

# B. Assessing music noise from entertainment venues and events

# 1. Location of measurement point and alternative assessment location

### 1.1 Measurement point

1. The measurement point must be located within a noise sensitive area or at an alternative assessment location.
2. Where the measurement is to be made in a noise sensitive area, the measurement point must be located outdoors near a sensitive room unless –
	1. For indoor entertainment venues:
		1. the main transmission path of the music noise entering the sensitive room consists of a floor, ceiling or wall with no openings;
		2. an outdoor measurement does not represent the noise exposure within the sensitive room; or
		3. the noise sensitive residential use is the agent of change, in application of clause 53.06 of the VPPs.
	2. For outdoor entertainment venues:
		1. an outdoor measurement does not represent the noise exposure within the sensitive room, and a window is a major transmission path for music noise;
		2. the noise sensitive area is within the Docklands noise attenuation area; or
		3. the noise sensitive residential use is the agent of change, in application of clause 53.06 of the VPPs.
	3. For outdoor entertainment events, an outdoor measurement does not represent the noise exposure within the sensitive room, and a window is a major transmission path for music noise.

Note: Where either clause 106(a)(iii), clause 106(b)(ii) or clause 106(b)(iii) applies, and the noise reduction performance of the building envelope is known, an assessment of the indoor noise levels can be conducted using an outdoor measurement as outlined in clauses 129 and 130.

1. For the night period, the measurement point must be either directly outside or inside a habitable room normally used for the purpose of sleeping.

### 1.2 Alternative assessment location

1. Notwithstanding clause 105, an alternative assessment location may be specified where:
	1. two or more entertainment venues or events contribute to the effective noise level at a noise sensitive area; or
	2. a more suitable measurement point is required to facilitate the assessment of the noise.
2. For an indoor entertainment venue, an alternative assessment location may be specified where atmospheric conditions affect the propagation of sound to the noise sensitive area.
3. Where it is not possible to measure the noise at a measurement point that represents the greatest noise intrusion within the noise sensitive area, an alternative assessment location must be used.

(110A) An alternative assessment location may be either within or outside a noise sensitive area. It must be chosen so that the noise at the alternative assessment location is representative of the noise exposure within noise sensitive areas.

### 1.3 Alternative assessment criterion

1. Where an alternative assessment location is used, an alternative assessment criterion must be determined for that location, for each relevant operating period.
2. The alternative assessment criterion must be set so that compliance with this level will result in the noise limit at the noise sensitive area not being exceeded, for the relevant operating period.
3. Where two or more entertainment venues or events contribute to the effective noise level of music noise in a noise sensitive area, an alternative assessment criterion may be set so that the contributions from each of the entertainment venues or events, when combined together, will meet the noise limit at the noise sensitive area.
4. The alternative assessment criterion must be calculated having regard to –
	1. the sound paths to the noise sensitive area and the alternative assessment location, and other factors which may affect the propagation of sound;
	2. the frequency spectrum of the music noise and the frequency-dependent directivity of music noise sources;
	3. the cumulative contribution from other indoor entertainment venues affecting noise sensitive areas;
	4. the uncertainty of the calculation method.

# 2. Effective noise levels and measurement method for music noise from outdoor entertainment venues and music noise from outdoor entertainment events

(115) The effective noise level for music noise from outdoor entertainment venues and music noise from outdoor entertainment events is the LAeq measured in dB(A).

### **Outdoor entertainment venues or events during operation**

1. The measurement must include at least 15 cumulative minutes of music audible at the measurement point.
2. The measurement must exclude extraneous noise.
3. For the purpose of determining the effective noise level the noise is measured using the Fast time weighting and the A-frequency weighting network.
4. The measurement must be made at a time when the greatest intrusion of music noise into the noise sensitive area is likely to occur.
5. Where the measurement point is outdoors and is between 1 and 2 metres from an acoustically reflecting surface an adjustment of -2.5 dB must be made to the effective noise level.
6. Where an indoor measurement is required, in accordance with clause 106 –
	1. for the purposes of clause 106(b)(i) and 106(c) the measurement must be made within a sensitive room with the window fully open during the measurement.
	2. for the purposes of clause 106(b)(ii), the measurement must be made within a sensitive room with windows and external doors closed.
	3. for the purposes of clause 106(b)(iii), the measurement must be made within a sensitive room with windows and doors closed.

### **Proposed outdoor entertainment venues or events**

(122) For proposed entertainment venues or events or proposed extensions of existing entertainment venues or events, the effective noise level must be calculated to represent the loudest music noise level having regard to –

1. all existing noise sensitive areas or future noise sensitive areas relevant to approved developments;
2. the frequency spectrum of the music noise and the frequency-dependent directivity of music noise sources;
3. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound;
4. the cumulative contribution from existing and approved entertainment venues or events affecting noise sensitive areas;
5. the uncertainty of the calculation method used.

# 3. Effective noise levels and measurement method for music noise from indoor entertainment venues

1. For the day and evening period as defined in regulation 123, the effective noise level for music noise from indoor entertainment venues is the LAeq measured in dB(A).
2. For the night period –
	1. the effective noise level is determined as LOCT10 values of selected octave bands from the range of octave bands with centre frequencies 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1,000 Hz,

2,000 Hz and 4,000 Hz;

* 1. the octave bands selected must be those for which the music noise contributes significantly to the octave band sound pressure level.

Measurements must only be taken when the selected octave band level correlates with the music noise.

### **Indoor entertainment venues during operation**

1. For the purpose of determining the effective noise level, the measurement must be made at a time when the greatest intrusion of music noise into a noise sensitive area is likely to occur, and include at least 15 cumulative minutes of music audible at the measurement point. The music noise is measured

–

* 1. for the day and evening period using the Fast time weighting and the A-frequency weighting network;
	2. for the night period using the Fast time weighting, and the linear weighting network.
1. Where the measurement point is outdoors and is between 1 and 2 metres from an acoustically reflecting surface an adjustment of -2.5 dB must be made to the effective noise level.
2. Where an indoor measurement is required, in accordance with clause 106 –
	* 1. for the purposes of clause 106(a)(i) the measurement must be made within the sensitive room, with all windows that are not major sound transmission paths closed.
		2. for the purposes of clause 106(a)(ii), the measurement must be made within the sensitive room with
			1. any openable external window which is a major sound transmission path fully open during the measurement, and
			2. all windows that are not major sound transmission paths closed.

c. for the purposes of clause 106(a)(iii), the measurement must be made within the sensitive room with windows and doors closed.

### **Proposed indoor entertainment venues**

(128) For proposed indoor entertainment venues or proposed extensions of existing indoor entertainment venues, the effective noise level of music noise must be calculated having regard to –

1. all existing noise sensitive areas or future noise sensitive areas relevant to approved developments;
2. the frequency spectrum of the music noise;
3. the frequency-dependent sound insulation performance of the building within which the venue is located, as relevant;
4. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound; and
5. the cumulative contribution from existing and approved entertainment venues or events affecting noise sensitive areas.

# 4. Using an outdoor noise measurement to assess indoor noise levels

1. An outdoor measurement conducted directly outside a sensitive room can be used to assess the effective noise level indoors when –

a. assessing music noise from a live music entertainment venue and, in application of clause

53.06 of the VPPs, the agent of change is a noise sensitive residential use; or

b. assessing music noise from an outdoor entertainment venue in a noise sensitive area within the Docklands Noise Attenuation Area.

1. For the purpose of clause 129 the indoor effective noise level is determined by subtracting the noise reduction performance of the building envelope from the measured outdoor noise level, having regard to the frequency spectrum of the music noise and the specific acoustic conditions of the sensitive room within which the assessment is conducted.

# Annex A: Designation of zones for urban area method for commercial, industrial and trade premises

1. This Annex is for use with the urban area method for determining noise limits for commercial, industrial and trade premises. It supersedes EPA publication 316a.
2. The land use zones within 200 metres of a noise sensitive area located in a major urban area is used when determining the limits at that noise sensitive area for noise emitted by commercial, industrial and trade premises.
3. Clauses 9 to 12 of the Noise Protocol requires that land zones and reservations contained in the relevant planning schemes be designated according to the tables in this Annex as –
	* 1. Type 1 for residential, rural, open space or similar zones;
		2. Type 2 for commercial, business, office and industrial 3 [light industry] zones; or
		3. Type 3 for industrial 1 and 2 [general industry] and similar zones.
4. Subject to clauses 11 and 12, this document designates a type for each of the land use zones within Victoria’s planning schemes –
	* 1. Table A.1 designates types of zones and reservations in major urban areas common to all planning schemes.
		2. Table A.2 designates types of zones and reservations specific the relevant planning schemes of local government areas within metropolitan Melbourne and its urban growth boundary.
		3. Table A.3 lists the major urban areas outside the Melbourne urban growth boundary and the corresponding local government area.
		4. Table A.4 designates types for zones and reservations specific to the relevant planning schemes, for major urban areas outside metropolitan Melbourne and its urban growth boundary, which can be identified for each major urban area in Victoria from Table A.3.
5. The table of zones and reservations is for use only with the urban area method for determining noise limits for commercial, industrial and trade premises in accordance with the Regulations. It is not intended for use for any purpose under the *Planning and Environment Act 1987*.

**Table A.1: Designation of types for zones and reservations in major urban areas common to all planning schemes.**

| **Victoria Planning Provision**  | **Zone code**  | **Land Use Zone**  | **Designated type**  |
| --- | --- | --- | --- |
| 32.03  | LDRZ  | Low Density Residential Zone  | 1  |
| 32.04  | MUZ  | Mixed Use Zone  | 2  |
| 32.05  | TZ  | Township Zone  | 1  |
| 32.07  | RGZ  | Residential Growth Zone  | 1  |
| 32.08  | GRZ  | General Residential Zone  | 1  |
| 32.09  | NRZ  | Neighbourhood Residential Zone  | 1  |
| 33.01  | IN1Z  | Industrial 1 Zone  | 3  |
| 33.02  | IN2Z  | Industrial 2 Zone  | 3  |
| 33.03  | IN3Z  | Industrial 3 Zone  | 2  |
| 34.01  | B1Z, B2Z, B5Z, C1Z  | Commercial 1 Zone  | 2  |
| 34.02  | B3Z, B4Z, C2Z  | Commercial 2 Zone  | 3  |
| 34.03  | C3Z  | Commercial 3 Zone  | 3  |
| 35.03  | RLZ  | Rural Living Zone  | 1  |
| 35.04  | GWZ  | Green Wedge Zone  | 1  |
| 35.05  | GWAZ  | Green Wedge A Zone  | 1  |
| 35.06  | RCZ  | Rural Conservation Zone  | 1  |
| 35.07  | FZ  | Farming Zone  | 2  |
| 35.08  | RAZ   | Rural Activity Zone  | 2  |
| 36.01   |  | Public Use Zone  | See below  |
|   | PUZ1  | Service & Utility  | 2  |
|   | PUZ2  | Education  | 1  |
|   | PUZ3  | Health & Community  | 2  |
|   | PUZ5  | Cemetery/Crematorium  | 1  |
|   | PUZ6  | Local Government  | 2  |
|  | PUZ7  | Other Public Use  | 2  |
| 36.02  | PPRZ  | Public Park and Recreation Zone  | 1  |
| 36.03  | PCRZ  | Public Conservation and Resource Zone  | 1  |
| 36.04 | TRZ1 | Transport Zone 1 | 2 |
| 36.04   | TRZ2 | Transport Zone 2  | 3  |
|  | TRZ3 | Transport Zone 3  | 2  |
|  | TRZ4 | Transport Zone 4 | 2 |
| 37.02  | CDZ  | Comprehensive Development Zone unless a schedule applies in the specific planning scheme  | 2  |
| 37.03  | UFZ  | Urban Floodway Zone  | 1  |
| 37.04  | CCZ  | Capital City Zone  | 2  |
| 37.05  | DZ  | Docklands Zone  | 2  |
| 37.06  | PDZ  | Priority Development Zone  | 2  |
| 37.07  | UGZ  | Urban Growth Zone, unless a schedule applies in the specific planning scheme for an incorporated precinct structure plan | 1  |
| 37.08  | ACZ  | Activity Centre Zone, unless a schedule applies in the specific planning scheme  | 2  |
| 37.09  | PZ  | Port Zone  | 3  |

**Table A.2: Designation of types for zones and reservations specific to the relevant planning schemes of local government areas within metropolitan Melbourne and its urban growth boundary.**

| **Local Government Area**  | **Designated type**  |
| --- | --- |
| **Zone code**  | **Zone schedule description**  |  |
| **Banyule**  |  |
| SUZ1  | Private Sportsgrounds  | 1  |
| SUZ2  | Utility & Service Installations  | 2  |
| SUZ3  | Residential and Medical Services Precinct  | 1  |
| ACZ1  | Greensborough Activity Centre  | 2  |
| **Bayside**  |  |
| ACZ1  | Hampton East (Moorabin) Activity Centre  | 2  |
| **Boroondara**  |  |
| SUZ1  | Golf Courses  | 1  |
| SUZ2  | Private Education Centre  | 1  |
| CDZ1  | 800 Toorak Road Comprehensive Development Plan October 2015  | 2  |
| PDZ1  | Tooronga Village Site  | 2  |
| **Brimbank**  |  |
| SUZ1  | Racecourse and Showgrounds Areas, Private Sportsgrounds, Religious and Education Establishment  | 2  |
| SUZ2  | Private Utility Installations  | 2  |
| SUZ3  | Earth and Energy Resources Industry  | 3  |
| SUZ4  | Private Sports Grounds  | 1  |
| SUZ5  | Overnewton Anglican Community College Keilor Campus  | 1  |
| SUZ6  | Lowther Hall Anglican Grammar School Education Centre and Sporting Campus  | 1  |
| CDZ1  | Sydenham Regional Activity Centre  | 2  |
| CDZ2  | Watergardens Town Centre  | 2  |
| ACZ1  | Sunshine Town Centre  | 2  |
| **Cardinia**  |  |
| SUZ1  | Horticultural Preservation  | 2  |
| SUZ3  | Tynong Racecourse and Training Facility  | 2  |
| SUZ4  | Special Use Zone Growth Areas (Cardinia Road Employment Precinct)  | 2  |
| SUZ5  | Cardinia Motor Recreation and Education Park  | 3  |
| SUZ6  | Private Education Facility  | 1  |
| SUZ7  | South East Production, Export and Employment Node  | 2  |
| CDZ1  | Pakenham West Comprehensive Development Plan 1 September 2005  | 1  |
| CDZ2  | Former Pakenham Racecourse Comprehensive Development Plan (January 2010)  | 2  |
| CDZ3  | Racecourse Road Pakenham Comprehensive Development Plan  | 1  |
| UGZ1  | Cardina Road Precinct Structure Plan  | 1  |
| UGZ2  | Cardinia Road Employment Precinct Structure plan (September 2010)  | 2  |
| UGZ3  | Officer Precinct Structure Plan (September 2011) - Residential Area  | 1  |
| UGZ4  | Officer Precinct Structure Plan (September 2011) - Officer Town Centre  | 2  |
|  **Casey**  |
| SUZ1  | Earth and Energy Resources  | 3  |
| SUZ3  | Hillcrest Christian College  | 1  |
| SUZ4  | Thompsons Road Precinct Structure Plan - Electricity Easement  | 3  |
| SUZ5  | Conservation Areas for Melbourne's Growth Corridors  | 1  |
| SUZ6  | Cranbourne Racing Complex and Surrounds  | 2  |
| CDZ1  | Lyndhurst Neighbour Activity Centre Comprehensive Development Plan  | 2  |
| PDZ1  | Fountain Gate-Narre Warren CBD Incorporated Plan  | 2  |
| UGZ1  | Cranbourne West Precinct Structure Plan  | 2  |
| UGZ2  | Cranbourne East Precinct Structure Plan  | 1  |
| UGZ3  | Clyde North Precinct Structure Plan  | 1  |
| UGZ4  | Botanic Ridge Precinct Structure Plan  | 1  |
| UGZ5  | Cranbourne North Stage 2 Precinct Structure Plan  | 1  |
| UGZ6  | Thompsons Road Precinct Structure Plan  | 1  |
| UGZ7  | Clyde Creek Precinct Structure Plan  | 2  |
| UGZ8  | Casey Fields South Residential Precinct Structure Plan  | 1  |
| UGZ9  | Berwick Waterways Precinct Structure Plan  | 1  |
| UGZ10  | Casey Central Town Centre Precinct Structure Plan  | 2  |
| UGZ11  | Brompton Lodge Precinct Structure Plan  | 1  |
| UGZ12  | Cardinia Creek South Precinct Structure Plan  | 1  |
| UGZ14  | Minta Farm Precinct Structure Plan  | 2  |
| ACZ1  | Cranbourne Activity Centre  | 2  |
| ACZ2  | Fountain Gate-Narre Warren CBD Metropolitan Activity Centre  | 2  |
|  **Darebin**  |
| PDZ1  | Preston Market  | 2  |
| PDZ2  | Preston Central  | 2  |
|  **Frankston**  |
| SUZ1  | Golf Courses  | 1  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Frankston Safe Boat Harbour  | 2  |
| SUZ4  | Peninsula Private Hospital  | 2  |
| CDZ1  | Sandhurst Comprehensive Development Plan May 1996  | 1  |
| CDZ2  | Kananook Creek Comprehensive Development Plan May 1999  | 1  |
|  **Glen Eira**   |   |
| SUZ1  | Caulfield Racecourse  | 2  |
| CDZ1  | North Road, Ormond, Comprehensive Development Plan  | 2  |
| PDZ2  | Caulfield Mixed Use Zone  | 2  |
| **Greater Dandenong**  |  |
| SUZ1  | Sandown Park  | 2  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | 11-53 and part of 55-79 Waterview Close, Dandenong South  | 2  |
| SUZ4  | Keysborough Turkish and Islamic Cultural Centre & Mt Hira College (KTICC & Mt Hira College) 396 Greens Road Keysborough  | 1  |
| SUZ5  | Polish Catholic Centre 337-343 Green Road Keysborough & Dhamma Sarana (Buddhist Sri Lankan Association of Victoria) 329335 Greens Road Keysborough  | 1  |
| SUZ6  | Cornish College 65 Riverbend Road Bangholme  | 1  |
| CDZ1  | Dandenong Railway Precinct  | 2  |
| CDZ2  | Central Dandenong  | 2  |
| **Hobsons Bay**  |  |
| SUZ1  | Private Sportsgrounds & Community Establishments  | 1  |
| SUZ2  | Petroleum Refinery Area  | 3  |
| SUZ3  | Petroleum Complex Area  | 3  |
| SUZ4  | Altona Special Industrial Area  | 3  |
| SUZ5  | Marine Engineering Area  | 3  |
| SUZ6  | Brooklyn Terminal Substation  | 2  |
| CDZ1  | The Range Estate Williamstown – Stage 7  | 1  |
| CDZ2  | Altona North Comprehensive Development Plan  | 2  |
| **Hume**  |  |
| SUZ1  | Earth and Energy Resources Industry  | 3  |
| SUZ2  | Goonwarra Golf Course  | 1  |
| SUZ4  | Corinella Crescent Educational Establishment  | 1  |
| SUZ5  | Melbourne Greyhound Racing Association Complex  | 2  |
| SUZ6  | Former Greenvale Hospital  | 1  |
| SUZ7  | Aitken College Mickleham Road Greenvale  | 1  |
| SUZ8  | Craigieburn North Employment Area Precinct Structure Plan, June 2016 – Electricity Easement  | 3  |
| SUZ9  | Sunbury South – Electricity Easements  | 2  |
| SUZ10  | Craiglee and Ben Eadie Properties  | 1  |
| SUZ11  | Lindum Vale Precinct Structure Plan – Electricity Easement  | 2  |
| CDZ1  | Craigieburn Comprehensive Development Plan - G Adams Corporation - Silverton May 2001 Jacksons Hill Comprehensive Development Plan  | 1  |
| CDZ2  | Merrifield Employment Precinct  | 2  |
| CDZ3  | Greenvale's Lakes East  | 1  |
| CDZ4  | Merrifield Major Town Centre  | 2  |
| CDZ5  | Greenvale north Neighbourhood Activity Centre Comprehensive Development Plan  | 2  |
| UGZ1  | Craigieburn R2 Precinct Structure Plan  | 1  |
| UGZ2  | Greenvale North R1 Precinct Structure Plan  | 1  |
| UGZ3  | Greenvale West R3 Precinct Structure Plan  | 1  |
| UGZ4  | Merrifield West Precinct Structure Plan  | 1  |
| UGZ5  | Lockerbie Precinct Structure Plan  | 2  |
| UGZ6  | Greenvale Central Precinct Structure Plan  | 1  |
| UGZ7  | Woodlands Precinct Structure Plan  | 1  |
| UGZ8  | Craigieburn North Employment Area Precinct Structure Plan  | 2  |
| UGZ9  | Sunbury South Precinct Structure Plan  | 1  |
| UGZ10  | Lancefield Road Precinct Structure Plan  | 1  |
| UGZ11  | Lindum Vale Precinct Structure Plan  | 1  |
| **Kingston**  |
| SUZ1  | Golf Courses  | 1  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Private Community Facilities  | 1  |
| SUZ4  | Epsom Racecourse  | 2  |
| SUZ5  | Heatherton Christian College  | 1  |
| CDZ1  | Endeavour Cove Comprehensive Development Plan December 1999  | 2  |
| ACZ1  | Cheltenham Activity Centre  | 2  |
| ACZ2  | Mentone Activity Centre  | 2  |
| ACZ3  | Moorabbin Activity Centre   | 2   |
| **Knox**  |
| SUZ1  | Community, Recreation, Education and Religious Purposes  | 1  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Terminal Station  | 2  |
| CDZ1  | Waterford Valley Comprehensive Development Plan, Drawing No. 30015698/101 (A), prepared by Aspect Landscape Consultants Pty Ltd, August 1999  | 1  |
| CDZ2  | Burwood Highway and Scoresby Road Knoxfield  | 2  |
| **Manningham**  |  |
| SUZ1  | Private Education Centres, Golf Course and Sports Grounds  | 1  |
| SUZ2  | Terminal Station  | 2  |
| SUZ3  | Donvale Christian College  | 1  |
| ACZ1  | Doncaster Hill Principal Activity Centre   | 2   |
| **Maribyrnong**  |  |
| SUZ1  | Sportsgrounds and Religious Establishments  | 1  |
| SUZ2  | Utility Installations  | 2  |
| SUZ3  | 99 Moreland Street, 90 – 96 Maribyrnong Street and land bounded by Footscray Road, Moreland, Lyons and Maribyrnong Streets, Footscray  | 3  |
| CDZ1  | Waterford Green Residential Area  | 1  |
| CDZ2  | Waterford Green Estate Mixed Use Area  | 2  |
| CDZ3  | Footscray Land, Gordon Street  | 2  |
| ACZ1  | Footscray Metropolitan Activity Centre  | 2  |
| **Maroondah**   |   |
|  | *No specific zones*  |  |
| **Melbourne**  |  |
| SUZ1  | Flemington Racecourse  | 2  |
| SUZ2  | Royal Melbourne Showgrounds  | 2  |
| SUZ3  | Private Sports Grounds and Religious and Educational Institutions  | 1  |
| SUZ4  | Port of Melbourne  | 3  |
| SUZ5  | Waters of the Port of Melbourne  | 2  |
| CDZ2  | Carlton Brewery  | 2  |
| CDZ3  | Flemington Green Comprehensive Development Plan  | 2  |
| CDZ4  | 550 Epsom Road Comprehensive Development Plan  | 1  |
| **Melton**  |  |
| SUZ1  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Terminal Stations  | 3  |
| SUZ5  | Leakes Road Tourist Precinct  | 1  |
| SUZ6  | Remand Centre at Truganina  | 1  |
| SUZ7  | Melton Harness Racing Centre  | 2  |
| SUZ8  | Prison Precinct  | 1  |
| SUZ9  | Kororoit Precinct Structure Plan - Electricity Easement  | 2  |
| SUZ10  | Plumpton Precinct Structure Plan - Electricity Easement  | 2  |
| SUZ11  | Mt Atkinson & Tarneit Plains Precinct Structure Plan - Electricity Easement  | 3  |
| CDZ1  | Caroline Springs Town Centre Area  | 2  |
| UGZ1  | Taylors Hill West Precinct Structure Plan  | 1  |
| UGZ2  | Melton North Precinct Structure Plan  | 1  |
| UGZ3  | Toolern Precinct Structure Plan  | 1  |
| UGZ4  | Rockbank North Precinct Structure Plan  | 1  |
| UGZ5  | Diggers Rest Precinct Structure Plan  | 1  |
| UGZ6  | Toolern Park Precinct Structure Plan  | 1  |
| UGZ7  | Rockbank Precinct Structure Plan  | 2  |
| UGZ8  | Payne's Road Precinct Structure Plan  | 1  |
| UGZ9  | Mt Atkinson & Tarneit Plains Precinct Structure Plan  | 2  |
| UGZ11  | Plumpton Precinct Structure plan  | 1  |
| UGZ12  | Kororoit Precinct Structure Plan  | 1  |
| **Mitchell**  |  |
| SUZ1  | Earth and Energy Resources Industry  | 3  |
| CDZ1  | Hidden Valley Comprehensive Development Plan  | 1  |
| CDZ2  | Mandalay Comprehensive Development Plan  | 1  |
| UGZ2  | Lockerbie North Precinct Structure Plan  | 1  |
| UGZ5  | Beveridge Central Precinct Structure Plan  | 1  |
| **Monash**  |  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Metropolitan and Huntingdale Golf Courses  | 1  |
| SUZ4  | Oakleigh RSL Site  | 2  |
| SUZ5  | Australian Synchrotron  | 2  |
| SUZ6  | Monash Technology Precinct  | 2  |
| CDZ1  | Waverley Park Comprehensive Development Plan  | 1  |
| **Moonee Valley**  |  |
| SUZ2  | Moonee Valley Racecourse  | 2  |
| SUZ3  | Private Sports Ground  | 1  |
| CDZ1  | Flemington Green Comprehensive Development Plan  | 2  |
| ACZ1  | Moonee Ponds Activity Centre  | 2  |
| **Moreland**  |  |
| SUZ1  | Private Sports Grounds  | 1  |
| SUZ3  | Brunswick Terminal Station  | 3  |
| ACZ1  | Coburg Activity Centre  | 2  |
| **Mornington Peninsula**  |  |
| SUZ1  | Port Related Uses  | 3  |
| SUZ2  | Private Sportsgrounds, Religious, Health and Educational Establishments  | 1  |
| SUZ3  | Airfield Development  | 2  |
| SUZ4  | Recreational Development  | 1  |
| SUZ7  | Flinders Christian Community College  | 1  |
| SUZ8  | Ranelagh Estate Open Spaces  | 1  |
| SUZ9  | Yaringa Boat Harbour  | 2  |
| CDZ1  | Moonah Links Comprehensive Development Plan  | 1  |
| **Nillumbik**  |  |
| SUZ1  | Heritage Golf and Country Club  | 1  |
| SUZ2  | Environmental Living - Bend of Islands  | 1  |
| SUZ3  | Plenty Valley Christian College  | 1  |
| SUZ4  | Eltham College  | 1  |
| ACZ1  | Eltham Activity Centre  | 2  |
| ACZ2  | Diamond Creek Activity Centre  | 2   |
| **Port of Melbourne**  |  |
| SUZ1  | Port of Melbourne  | 3  |
| SUZ2  | Marine Engineering Area  | 3  |
| SUZ3  | Foreshore Area - The Strand and Nelson Place  | 2  |
| SUZ4  | Waters of the Port of Melbourne  | 2  |
| **Port Phillip**  |  |
| SUZ1  | St Kilda Sea Baths  | 1  |
| SUZ2  | Luna Park  | 2  |
| SUZ3  | The Triangle Site - St Kilda  | 2  |
| CDZ1  | Beacon Cove Port Melbourne  | 2  |
| CDZ2  | St Kilda Station Redevelopment  | 2  |
| **Stonnington**  |  |
| SUZ1  | Kooyong Lawn Tennis Club St Kevin's College Vision Australia Foundation  | 2  |
| ACZ1  | Chapel Street Activity Centre   | 2   |
| **Whitehorse**  |  |
| SUZ1  | Private Education Centres and Places of Worship  | 1  |
| SUZ2  | Private Sport and Recreational Facilities  | 1  |
| SUZ3  | 14 Federation Street Box Hill  | 2  |
| **Whittlesea**  |  |
| SUZ1  | Whittlesea Showgrounds  | 2  |
| SUZ2  | Epping Soccer Stadium  | 2  |
| SUZ3  | Janefield Technology Estate  | 2  |
| SUZ4  | Earth and Energy Resources Industry  | 3  |
| SUZ5  | Ivanhoe Grammar School (Mernda)  | 1  |
| SUZ6  | South Morang Terminal Station  | 3  |
| SUZ7  | Costa Exchange Mushroom Farm - 45 Cookes Road Doreen  | 2  |
| SUZ8  | Quarry Hills Precinct Structure Plan - Electricity Easement  | 3  |
| SUZ9  | Schedule 9 to the Special Use Zone  | 2  |
| SUZ10  | Wollert Precinct Structure Plan - Electricity Easement  | 3  |
| CDZ1  | Mernda Town Centre Comprehensive Development Plan  | 2  |
| CDZ2  | Cooper Street Employment Area Comprehensive Development Plan  | 3  |
| CDZ3  | Laurimar Town Centre  | 2  |
| CDZ4  | Aurora Comprehensive Development Plan  | 1  |
| CDZ5  | Mernda Villages Neighbourhood Centre  | 1  |
| CDZ6  | Lyndarum Neighbourhood Activity Centre  | 2  |
| UGZ1  | Lockerbie Precinct Structure Plan  | 2  |
| UGZ2  | Lockerbie North Precinct Structure Plan  | 1  |
| UGZ3  | Quarry Hills Precinct Structure Plan  | 1  |
| UGZ4  | English Street Precinct Structure Plan  | 1  |
| UGZ5  | Wollert Precinct Structure Plan  | 2  |
| UGZ6  | Donnybrook-Woodstock Precinct Structure Plan  | 1  |
| ACZ1  | Epping Centre Metropolitan Centre  | 2  |
| **Wyndham**  |
| SUZ1  | Wyndham Harbour  | 2  |
| SUZ2  | Werribee Racecourse  | 2  |
| SUZ3  | Prison  | 1  |
| SUZ4  | K Road Tourism and Recreational Precinct  | 1  |
| SUZ6  | Earth and Energy Resources  | 3  |
| SUZ7  | Truganina Precinct Structure Plan - Electricity Easement  | 3  |
| SUZ8  | Tarneit Electricity Transmission Easement - Residential Areas Tarneit North Precinct Structure Plan  | 1  |
| SUZ9  | Cherry Creek Youth Justice Redevelopment Project  | 1  |
| PDZ1  | Laverton Major Activity Centre and Employment Node Incorporated Plan  | 2  |
| UGZ1  | Truganina South Community Precinct Structure Plan  | 1  |
| UGZ2  | Truganina Employment Precinct Structure Plan (December 2009)  | 3  |
| UGZ3  | Manor Lakes Precinct Structure Plan  | 1  |
| UGZ4  | Alfred Road Precinct Structure Plan  | 1  |
| UGZ5  | Point Cook West Precinct Structure Plan  | 1  |
| UGZ6  | Black Forest Road South Precinct Structure Plan  | 1  |
| UGZ7  | Black Forest Road North Precinct Structure Plan  | 2  |
| UGZ8  | Ballan Road Precinct Structure Plan  | 1  |
| UGZ9  | Westbrook Precinct Structure Plan  | 2  |
| UGZ10  | Truganina Precinct Structure Plan  | 2  |
| UGZ11  | Riverdale Precinct Structure Plan  | 1  |
| UGZ13  | Tarneit North Precinct Structure Plan  | 1  |
| UGZ14  | East Werribee Employment Precinct  | 2  |
| UGZ15  | Lincoln Heath South Precinct Structure Plan  | 1  |
| ACZ1  | Werribee Principal Activity Centre  | 2  |
| **Yarra**  |
| SUZ1  | Latrobe Golf Course - Farm Road Alphington  | 1  |
| SUZ2  | St Heliers Street Abbotsford  | 1  |
| SUZ3  | Alphington Grammar School - Old Heidelberg Road Alphington  | 1  |
| SUZ4  | Former Convent of the Good Shepherd - St Heliers Street Abbotsford  | 2  |
| SUZ5  | Epworth Richmond Private Hospital  | 2  |
| SUZ6  | Collingwood Arts Precinct  | 2  |
| CDZ1  | Victoria Gardens Comprehensive Development  | 2  |
| CDZ2  | Cremorne, Balmain, Dover Streets Project Richmond  | 2  |
| CDZ3  | Richmond Maltings 2 Gough Street Cremorne  | 2  |
| PDZ1  | Victoria Street East Precinct  | 2  |
| **Yarra Ranges**  |
| SUZ1  | Earth and Energy Resources Zone  | 3  |
| SUZ2  | Major Tourist Facility  | 1  |
| SUZ3  | Airfield  | 2  |
| SUZ4  | Educational Facility  | 1  |
| SUZ5  | Chirnside Park Country Club  | 1  |
| SUZ6  | Extractive Resource Environmental Buffer  | 1  |
| SUZ7  | Billanook College  | 1  |
| SUZ8  | Little Yarra Steiner School  | 1  |
| SUZ9  | Eastern Golf Club  | 1  |
| SUZ10  | Lots 7 and 8 LP127612 Maroondah Highway Coldstream  | 2  |
| SUZ11  | Burnham Beeches Residential Hotel and Resort  | 1  |

**Table A.3: Local government areas for major urban areas outside Melbourne metropolitan/Melbourne urban growth boundary.**

|  |  |
| --- | --- |
| **Major Urban Area** (\*)  | **Local Government Area**  |
| Bacchus Marsh  | Moorabool  |
| Bairnsdale  | East Gippsland  |
| Ballarat  | Ballarat  |
| Benalla  | Benalla  |
| Bendigo  | Greater Bendigo  |
| Castlemaine  | Mount Alexander  |
| Colac  | Colac-Otway  |
| Drouin  | Baw Baw  |
| Drysdale - Clifton Springs  | Greater Geelong  |
| Echuca  | Campaspe  |
| Geelong  | Greater Geelong  |
| Gisborne  | Macedon Ranges  |
| Hamilton  | Southern Grampians  |
| Horsham  | Horsham  |
| Lara  | Greater Geelong  |
| Leopold  | Greater Geelong  |
| Maryborough  | Central Goldfields  |
| Mildura  | Mildura  |
| Moe - Newborough  | Latrobe  |
| Morwell  | Latrobe  |
| Ocean Grove - Barwon Heads  | Greater Geelong  |
| Portland  | Glenelg  |
| Sale  | Wellington  |
| Shepparton - Mooroopna  | Greater Shepparton  |
| Swan Hill  | Swan Hill  |
| Torquay - Jan Juc  | Surf Coast  |
| Traralgon  | Latrobe  |
| Wangaratta  | Wangaratta  |
| Warragul  | Baw Baw  |
| Warrnambool  | Warrnambool, Moyne  |
| Wodonga  | Wodonga  |
| Wonthaggi  | Bass Coast  |
| Yarrawonga  | Moira  |

(\*) The major urban areas are the areas of land within –

* 1. the urban growth boundary identified in a planning scheme, where the population is greater than 7000 people; or
	2. the urban centre boundary (as defined by the Australian Bureau of Statistics) of an urban centre with a population greater than 7000 people, including land within the whole of any Residential Zone, Industrial Zone, Commercial Zone or Urban Growth Zone that is crossed by the urban centre boundary.

**Table A.4: Designation of types for zones and reservations specific to the relevant planning schemes, for major urban areas outside metropolitan Melbourne and its urban growth boundary.**

| **Local Government Area** (Major Urban Area[s]) | **Designated type**  |
| --- | --- |
| **Zone code**  |  **Zone schedule description**  |
| **Ballarat** (Ballarat) |  |
| SUZ1  | Flora and Fauna Wildlife Park | 1 |
| SUZ2  | Emergency Services  | 2  |
| SUZ3  | Sovereign Hill Museums Association  | 2  |
| SUZ4  | Ballarat Showgrounds  | 2  |
| SUZ5  | Private Education Establishment  | 1  |
| SUZ6  | Ballarat Airfield  | 2  |
| SUZ7  | Racecourse  | 2  |
| SUZ8  | Mining and Related Activities  | 3  |
| SUZ9  | Eureka Historic Precinct  | 2  |
| SUZ10  | Recreation  | 1  |
| SUZ11  | Ballarat Golf Course | 1  |
| SUZ12  | St. John of God Hospital | 2 |
| SUZ13  | Thoroughbred Horse Training Facilities  | 1  |
| SUZ14  | Ballarat West Employment Zone (BWEZ)  | 2  |
| SUZ16  | Ballarat Railway Station Precinct Redevelopment – Stage One  | 2  |
| CDZ1  | Comprehensive Development Zone  | 1  |
| UGZ1  | Alfredton West Precinct Structure Plan (2011) | 1  |
| UGZ2 | Ballarat West Precinct Structure Plan | 1 |
| **Bass Coast** (Wonthaggi) |   |
|   | *No specific zones within this major urban area or within 200 m outside of the major urban area boundary*  |   |
| **Baw Baw** (Drouin, Warragul)  |  |
| SUZ5  | Warragul East Bulky Goods Precinct | 3 |
| UGZ1  | Warragul Precinct Structure Plan  | 1  |
| UGZ2  | Drouin Precinct Structure Plan  | 1  |
| **Benalla** (Benalla)  |  |  |
| SUZ1  | Defence Industries Benalla  | 3  |
| SUZ3  | CAL Community Farm  | 1  |
| **Campaspe** (Echuca) |  |
| SUZ2  | Private Schools | 1 |
| SUZ3  | Echuca Aerodrome | 2 |
| **Central Goldfields** (Maryborough) |  |
| SUZ1  | Goldfields Reservoir, Ballarat Road, Maryborough  | 1  |
| SUZ2  | Maryborough Golf Course  | 1  |
| **Colac Otway** (Colac) |  |
| SUZ3  | Dairy Food Production Plant - Connor and Murray Streets, Colac | 3 |
| SUZ4  | Colac Abattoir & Food Production Plant  | 3  |
|  **East Gippsland** (Bairnsdale) |
|  *No specific zones within this major urban area or within 200 m* outside *of the major urban area boundary*  |
|  **Glenelg** (Portland) |
| SUZ1  | Portland Special Education  | 1  |
| SUZ2  | Golf Courses  | 1  |
|  **Greater Bendigo** (Bendigo) |
| SUZ1  | Private Educational or Religious Institutions | 1 |
| SUZ2  | Private Hospital | 1 |
| SUZ3  | Television or Radio Station  | 1  |
| SUZ4  | Private Sport and Recreation Facilities  | 1  |
| SUZ5  | Racing Facilities  | 2  |
| SUZ6  | Tourism Facility  | 1  |
| SUZ7  | Bendigo Airport | 2 |
| SUZ9  | Bus Depot | 2 |
| SUZ10  | Girton Grammar School, Junior and Senior Campuses, Vine, Wattle and Mackenzie Streets, Bendigo  | 1  |
| SUZ11  | Holdsworth Road Open Space/Recreation Area  | 1  |
| SUZ12  | Electricity Terminal Station  | 2  |
| CDZ1  | Fortuna Comprehensive Development Plan  | 1  |
| **Greater Geelong** (Geelong, Drysdale - Clifton Springs, Lara, Leopold, Ocean Grove - Barwon Heads) |
| SUZ1  | Environmental Wetlands, Salt Production and Land-Based Aquaculture Activities  | 2  |
| SUZ3  | Private Golf Courses  | 1  |
| SUZ4  | Geelong Showgrounds and Racecourse, and Beckley Park  | 2  |
| SUZ5  | Eastern Park  | 1  |
| SUZ7  | Earth and Energy Resources Industry  | 3  |
| SUZ8  | Goandra Land, Thacker Street, Ocean Grove  | 1  |
| SUZ13  | Drysdale Regional Community and Cultural Hub  | 2  |
| SUZ14  | Private Teaching Hospital and Education Precinct  | 2  |
| SUZ15  | Private Education Centre  | 1  |
| SUZ16  | Privately Owned Utility Installations | 3 |
| CDZ1  | Thirteenth Beach Resort | 1  |
| CDZ2  | Rippleside Comprehensive Development Plan | 1  |
| UGZ1  | Armstrong Creek North East Industrial Precinct, Precinct Structure Plan (May 2010)  | 2  |
| UGZ2  | Armstrong Creek East Precinct Structure Plan (May 2010, Amended November 2011) and Armstrong Creek South Precinct Structure Plan (February 2016)  | 1  |
| UGZ3  | Armstrong Creek West Precinct Structure Plan September 2012  | 1  |
| UGZ4  | Armstrong Creek Horseshoe Bend Precinct Structure Plan, September 2014 | 1 |
| UGZ5  | Armstrong Creek Town Centre Precinct Structure Plan  | 2  |
| UGZ6  | Lara West Precinct Structure Plan (2013)  | 1  |
| **Greater Shepparton** (Shepparton - Mooroopna) |  |
| SUZ1  | Shepparton Showgrounds  | 2  |
| SUZ4  | Goulburn Valley Harness and Greyhound Racing Precinct  | 2  |
| SUZ7  | Emerald Bank Tourism Precinct | 2 |
| SUZ8  | Private Education Establishments | 1 |
| SUZ10  | Kialla Private School  | 1  |
| UGZ1  | Shepparton North East Precinct Structure Plan  | 1  |
| **Horsham** (Horsham) |  |
| SUZ1  | Horsham Golf Course | 1 |
| SUZ4  | Horsham Showgrounds  | 2  |
| SUZ8  | Horsham Artist in Residence  | 1  |
| **Latrobe** (Moe - Newborough, Traralgon, Morwell) |  |
| SUZ1  | Brown Coal  | 2 |
| SUZ2  | Traralgon car sales precinct  | 2  |
| SUZ3  | Gippsland Heritage Park  | 2  |
| SUZ4  | Victor Street Exchange  | 1  |
| SUZ7  | Latrobe Regional Airport  | 2  |
| SUZ8  | Health and Complementary Uses Precinct  | 2  |
| UGZ1  | Lake Narracan Precinct Structure Plan | 1 |
| **Macedon ranges** (Gisborne)  |  |
| SUZ4  | Private Hospital  | 2  |
| **Mildura** (Mildura) |  |  |
| SUZ1  | Private Education and Religious Establishments  | 1  |
| SUZ2  | Tourist Precincts  | 2  |
| SUZ3  | Mildura Marina  | 1  |
| SUZ4  | Mildura Hospital | 2  |
| SUZ5  | Essential Service Utilities | 2  |
| SUZ6  | Red Cliffs Caravan Park | 1 |
| SUZ8  | Mildura – Irymple Urban Transition Area  | 1  |
| SUZ9  | Mildura – Irymple Urban Transition Area  | 2  |
| CDZ1  | Mildura Golf Resort Redevelopment Masterplan, June 2012 | 1 |
| UGZ1  | Mildura South Precinct Structure Plan – Activity Centre  | 2  |
| **Moira** (Yarrawonga) |  |
|   | *No specific zones within this major urban area or within 200 m outside of the major urban area boundary*  |   |
|  **Moorabool** (Bacchus Marsh) |
| SUZ1  | Coal Mining  | 3  |
| SUZ2  | Earth and Energy Resources Industry  | 3  |
| SUZ3  | Golf Courses  | 1  |
| SUZ4  | Bacchus Marsh Grammar School  | 1  |
|  **Mount Alexander** (Castlemaine) |
|   | *No specific zones within this major urban area or within 200 m outside of the major urban area boundary*  |   |
| **Moyne** (Warrnambool)  |
|  *No specific zones within this major urban area or within 200 m* outside *of the major urban area boundary*  |
|  **Southern Grampians** (Hamilton) |
| SUZ1  | Private Educational Institutions  | 1  |
| SUZ2  | Private Golf Course | 1 |
| SUZ3  | Mount Baimbridge Road, Hamilton  | 2  |
| SUZ4  | Office and Communications Centre  | 2  |
| SUZ5  | RMIT Hamilton  | 1  |
| SUZ7  | Western Speedway Hamilton  | 2  |
|  **Surf Coast** (Torquay - Jan Juc) |
| SUZ1  | Alcoa Lease Land  | 3  |
| SUZ4  | Torquay Community Development Precinct | 2 |
| SUZ5  | Torquay Tourism Development Precincts  | 2  |
| SUZ7  | Golf Courses  | 1  |
| SUZ9  | Surf Coast Christian College Campus  | 1  |
| CDZ2  | The Sands Torquay Residential Lakes and Golf Course Comprehensive Development Plan  | 1  |
|  **Swan Hill** (Swan Hill) |
|   | *No specific zones within this major urban area or within 200 m outside of the major urban area boundary*  |   |
|  **Wangaratta** (Wangaratta) |
| SUZ1  | Showgrounds  | 2  |
| SUZ2  | Racecourse  | 2  |
| SUZ3  | Avian Park Sport and Recreation Hub  | 2  |
| SUZ4  | Golf Course  | 1  |
| SUZ5  | Galen College – The Farm  | 1  |
| SUZ6  | South Wangaratta Civic Precinct  | 2  |
| SUZ7  | Reith Road Equine Precinct  | 1  |
|  **Warrnambool** (Warrnambool) |
| SUZ1  | Warrnambool Racecourse  | 2  |
| SUZ2  | Warrnambool Showgrounds  | 2  |
| SUZ3  | Warrnambool West Industrial Precinct - Transition Area  | 2  |
| **Wellington** (Sale) |  |
| SUZ3  | Lake Guthridge Precinct  | 1  |
| SUZ6  | Sale Greyhound Racing Facility  | 2  |
| **Wodonga** (Wodonga) |  |
| SUZ1  | Gateway Island  | 1  |
| SUZ2  | Golf Courses and Associated Development  | 1  |
| UGZ1  | Urban Growth Zone  | 1  |

# Annex B: Zone levels for rural area method for commercial, industrial and trade premises

1. This annex is for use with the rural area method for determining noise limits for commercial, industrial and trade premises.
2. The zone level that informs the rural area method for determining noise limits for commercial, industrial and trade premises (clauses 16 to 36 of the Noise Protocol) is determined from Table B.1 based on the land use zone in the relevant planning scheme, where:
	1. the **generating zone** is the land use zone in which the premises being assessed is located; and
	2. the **receiving zone** is the land use zone in which the noise sensitive area is located.
3. In Table B.1, zones specific to the relevant planning scheme are categorised in six letter groups A to F based on the purpose of the zone and table of uses specified in the relevant schedule to the zone in the planning scheme. These specific zones are Special Use Zone (SUZ), Comprehensive

Development Zone (CDZ), Priority Development Zone (PDZ), and Urban Growth Zone (UGZ). The group designation for the specific zone within a planning scheme is given in Table B.2.

(138A) If a zone or reservation is not listed in Table B.2 to this Noise Protocol, the Authority, having regard to the nature of the uses permitted in similar zones or reservations (excluding land uses permitted under other planning approvals, for example, specific controls overlay, that would otherwise be prohibited in the zone), will designate a letter group accordingly.

(138B) A letter group designated by the Authority under clause 138A must be published on the Authority’s website or the website of a public sector body, and will apply to that zone or reservation for the purposes of the Noise Protocol going forward.

1. Where the Farming Zone is the generating zone and the noise-emitting agricultural activity is ‘intensive’, an adjustment of +3 dB is applied to the determined Zone Levels to reflect amenity expectations of locally intense farming activities.
2. For the purpose of clause 139, intensive farming activities are agricultural production activities under the planning scheme (Clause 73.01) with the following land use terms as included in agriculture (in clause 73.03):
	1. horticulture and timber production (in crop raising); and
	2. intensive animal production, pig farm, poultry farm and poultry hatchery (in animal production: animal husbandry).
3. The public-use zones (PUZ) are grouped as:
	1. Service & Utility (PUZ1), Health & Community (PUZ3), Local Government

(PUZ6) and Other Public Use (PUZ7); and

* 1. Education (PUZ 2), Cemetery/Crematorium (PUZ 5).

|  |
| --- |
| **Table B.1: Zone levels (dB(A)) for rural area method for commercial, industrial and trade premises** |
|  **Receiving zone ****Generating****Zone****** | **Green Wedge A GWAZ****Rural Conservation RCZ****Rural Living RLZ****Group E CDZ, PDZ, SUZ & UGZ (\*)** | **Low Density Residential LDRZ****Public Conservation and Resource PCRZ****Public Park and Recreation PPRZ****Public Use 2 & 5PUZ2 & PUZ5****Urban Floodway UFZ**  | **Farming FZ (\*\*)****Green Wedge GWZ****General Residential GRZ** **Neighbourhood Residential NRZ****Residential Growth RGZ****Rural Activity RAZ****Township TZ****Urban Growth Zone before an incorporated precinct structure plan UGZ****Group B CDZ, PDZ, SUZ & UGZ (\*)** | **Commercial 1 C1Z****Commercial 3 C3ZMixed Use MUZ****Activity Centre Zone ACZPublic Use 1, 3, 6 & 7 PUZ1, PUZ3, PUZ6 & PUZ7Transport TRZ1, TRZ2, TRZ3, TRZ4****Group A CDZ, PDZ, SUZ & UGZ(\*)** | **Industrial 3 IN3Z****Group C CDZ, PDZ, SUZ & UGZ (\*)** | **Commercial 2 C2Z****Group F CDZ, PDZ, SUZ & UGZ (\*)** | **Industrial 1 IN1Z****Industrial 2 IN2Z** **Port PZ****Group D CDZ, PDZ, SUZ, UGZ (\*)** |
| **Low Density Residential LDRZPublic Conservation and Resource PCRZPublic Park and Recreation PPRZGeneral Residential GRZ****Neighbourhood Residential NRZ****Residential Growth RGZ****Urban Floodway UFZGroup E CDZ, PDZ, SUZ & UGZ (\*)** | Day 45Evening 37Night 32 | Day 45Evening 39Night 34 | Day 45Evening 40Night 35 | Day 47Evening 42Night 37 | Day 48Evening 43Night 38 | Day 50Evening 45Night 40 | Day 53Evening 48Day 43 |
| **Farming FZ (\*\*)****Green Wedge GWZ,Green Wedge A GWAZPublic Use 2 & 5 PUZ2, PUZ5Rural Activity RAZRural Conservation RCZRural Living RLZ****Urban Growth Zone before an incorporated precinct structure plan (UGZ)Group B CDZ, PDZ, SUZ & UGZ (\*)** | Day 45Evening 38Night 33 | Day 45Evening 40Night 35 | Day 46Evening 41Night 36 | Day 48Evening 43Night 38 | Day 50Evening 45Night 40 | Day 52Evening 47Night 42 | Day 54Evening 49Night 44 |
| **Commercial 1 C1Z Mixed Use MUZ****Activity Centre Zone ACZPublic Use 1,3,6 & 7PUZ1, PUZ3, PUZ6, PUZ7Transport TRZ1, TRZ2, TRZ3, & TRZ4****Township TZ****Group A CDZ, PDZ, SUZ & UGZ (\*)** | Day 45Evening 40Night 35 | Day 47Evening 42Night 37 | Day 48Evening 43Night 38 | Day 50Evening 45Night 40 | Day 52Evening 47Night 42 | Day 53Evening 48Night 43 | Day 55Evening 50Night 45 |
| **Industrial 3 IN3ZGroup C CDZ, PDZ, SUZ & UGZ (\*)** | Day 46Evening 41Night 36 | Day 49Evening 44Night 39 | Day 50Evening 45Night 40 | Day 52Evening 47Night 42 | Day 53Evening 48Night 43 | Day 55Evening 50Night 45 | Day 56Evening 51Night 46 |
| **Commercial 2 C2Z** **Commercial 3 C3Z****Group F CDZ, PDZ, SUZ & UGZ (\*)** | Day 48Evening 43Day 38 | Day 50Evening 45Night 40 | Day 52Evening 47Night 42 | Day 54Evening 49Night 44 | Day 55Evening 50Night 45 | Day 56Evening 51Night 46 | Day 57Evening 52Night 47 |
| **Industrial 1 IN1Z****Industrial 2 IN2ZPort PZ****Group D CDZ, PDZ, SUZ & UGZ (\*)** | Day 50Evening 45Night 40 | Day 52Evening 47Night 42 | Day 53Evening 48Night 43 | Day 55Evening 50Night 45 | Day 56Evening 51Night 46 | Day 57Evening 52Night 47 | Day 58Evening 53Night 48 |
| (\*) For Comprehensive Development Zone (CDZ), Priority Development Zone (PDZ), Special Use Zone (SUZ) and Urban Growth Zone (UGZ) refer to Table B.2.(\*\*) Refer clauses 139 and 140 for specific provisions that may applying to Farming Zone |

**Table B.2: Designation of table B.1 groups for zones and reservations specific to the relevant planning schemes when setting noise limits using rural area method.**

|  |  |
| --- | --- |
| **Local Government Area Planning scheme**  | **Group**  |
| **Zone code**  | **Zone schedule description**  |  |
| **Alpine**  |  |
| SUZ1  | Dinner Plain – Village Area  | B  |
| SUZ2  | Dinner Plain Service and Recreation  | A  |
| SUZ3  | GPU Powernet Pty Ltd Terminal Stations  | C  |
| SUZ4  | Bogong Power Development Project  | C  |
| SUZ5  | Mount Beauty Aerodrome and Air Park  | A  |
| SUZ6 | Golf Courses | B |
| **Alpine Resorts**  |  |
| CDZ1  | Alpine Village  | B  |
| CDZ2  | Alpine Recreation  | B  |
| **Ararat**  |  |
| SUZ1  | Former Aradale Site  | A  |
| SUZ2  | Powercor Terminal Station  | C  |
| SUZ3  | Jallukar Hills Wine Village  | B  |
| **Ballarat**  |  |
| SUZ1  | Flora and Fauna Wildlife Park | B  |
| SUZ2  | Emergency Services  | A  |
| SUZ3  | Sovereign Hill Museums Association  | A  |
| SUZ4  | Ballarat Showgrounds  | A  |
| SUZ5  | Private Education Establishment  | B  |
| SUZ6  | Ballarat Airfield  | C  |
| SUZ7  | Racecourse  | A  |
| SUZ8  | Mining and Related Activities  | D  |
| SUZ9  | Eureka Historic Precinct  | A  |
| SUZ10  | Recreation  | E  |
| SUZ11  | Ballarat Golf Course | B  |
| SUZ12  | St. John Of God Hospital | A |
| SUZ13  | Thoroughbred Horse Training Facilities  | B  |
| SUZ14  | Ballarat West Employment Zone (BWEZ)  | C  |
| SUZ15  | Central Victoria Livestock Exchange  | C  |
| SUZ16  | Ballarat Railway Station Precinct Redevelopment – Stage One  | A  |
| CDZ1  | Comprehensive Development Zone  | B  |
| UGZ1  | Alfredton West Precinct Structure Plan (2011) | B  |
| UGZ2 | Ballarat West Precinct Structure Plan | B |
| **Bass Coast**  |  |
| SUZ1  | Phillip Island Motor Racing Track  | C  |
| SUZ2  | Earth and Energy Resources Industry  | C  |
| UGZ1 | Wonthaggi North East Precinct Structure Plan | A |
| SUZ3  | Wonthaggi Motor Racing Track  | C  |
| SUZ5  | Inverloch RACV Resort  | B  |
| SUZ6  | Silverwater Resort, San Remo  | B  |
| CDZ1  | Cape Paterson Ecovillage  | B  |
| **Baw Baw**  |  |
| SUZ1  | Walhalla Special Use Zone  | E  |
| SUZ2  | Tanjil Bren Special Use Zone  | E  |
| SUZ3  | Earth and Energy Resources Industry  | D  |
| SUZ5  | Warragul East Bulky Goods Precinct | D  |
| UGZ1  | Warragul Precinct Structure Plan  | B  |
| UGZ2  | Drouin Precinct Structure Plan  | B  |
|  **Benalla**  |  |
| SUZ1  | Defence Industries Benalla  | D  |
| SUZ2  | Winton Motor Raceway  | C  |
| SUZ3  | Cal Community Farm  | B  |
| SUZ4  | Glenrowan Terminal Station  | A  |
| **Brimbank** |
| SUZ1 | Racecourse and showgrounds areas, private sportsgrounds, religious and education establishment  | A |
| SUZ5 | Overnewton Anglican Community College, Keilor Campus | B |
| SUZ6 | Lowther Hall Anglican Grammar School education centre and sporting campus  | B |
| **Buloke**  |  |
|   | *No specific zones*  |   |
| **Campaspe**  |  |
| SUZ1  | Gunbower Wastewater Treatment Facility and Reuse Scheme  | B  |
| SUZ2  | Private Schools | B  |
| SUZ3  | Echuca Aerodrome | C  |
| UGZ1 | Echuca West Precinct Structure Plan  | E |
| **Cardinia** |
| SUZ1 | Horticultural Preservation | B |
| SUZ3 | Tynong Racecourse and Training Facility | A |
| SUZ4 | Cardinia Road Employment Precinct | F |
| SUZ5 | Former Aradale Site | D |
| SUZ6 | Private Education Facility | B |
| SUZ7 | South East Food Production, Export and Employment Node | C |
| UGZ1 | Cardinia Road Precinct Structure Plan (September 2008) | A |
| UGZ2 | Cardinia Road Employment Precinct Structure Plan (September 2010) | C |
| UGZ3 | Officer Precinct Structure Plan (September 2011, amended November 2019) – residential area | B |
| UGZ5 | Pakenham East Precinct Structure Plan | A |
| UGZ6 | Pakenham South Employment Precinct Structure Plan | D |
| **Casey** |
| UGZ1 | Cranbourne West Precinct Structure Plan | F |
| UGZ4 | Botanic Ridge Precinct Structure Plan | A |
| UGZ7 | Clyde Creek Precinct Structure Plan | A |
| UGZ11 | Brompton Lodge Precinct Structure Plan | A |
| UGZ12 | Cardinia Creek South Precinct Structure Plan | A |
| **Central Goldfields**  |  |
| SUZ1  | Goldfields Reservoir, Ballarat Road, Maryborough  | E  |
| SUZ2  | Maryborough Golf Course  | B  |
| **Colac Otway**  |  |
| SUZ1  | Apollo Bay Airfield | C  |
| SUZ2  | Apollo Bay Harbour | C  |
| SUZ3  | Dairy Food Production Plant - Connor and Murray Streets, Colac | D  |
| SUZ4  | Colac Abattoir & Food Production Plant  | D  |
| **Corangamite**  |  |
| SUZ1  | Waarre Road, Port Campbell – Gas Processing Plant  | D  |
| SUZ2  | Heytesbury Gas Facility – Timboon  | D  |
| SUZ3  | Brumbys Road, Port Campbell - Bhp Minerva Gas Processing Plant  | D  |
| SUZ4  | Waarre Road, Port Campbell - Woodside Gas Processing Plant  | D  |
| SUZ5  | Peterborough Airfield  | A  |
| SUZ6  | Mount Elephant  | E  |
| SUZ7  | Wattle Hill  | E  |
| SUZ8 | Glenormiston College | B |
| SUZ9 | Port Campbell West | B |
| SUZ10 | Naroghid Refuse Disposal, Transfer and Recycling Facility | C |
| SUZ8  | Glenormiston College  | B  |
| SUZ9  | Port Campbell West  | B  |
| SUZ10  | Naroghid Refuse Disposal, Transfer and Recycling Facility  | C  |
|  **East Gippsland**  |
| SUZ1  | Bullock Island, Lakes Entrance  | B  |
| SUZ2  | Lake Tyers Aboriginal Trust  | B  |
| SUZ3  | Earth and Energy Resources Industry | C  |
| SUZ4  | Patricia Baleen Gas Plant  | D  |
| CDZ1  | Nerana Resort & Marina Concept Plan  | A  |
| **Frankston** |
| CDZ1 | Sandhurst Comprehensive Development Plan, May 1996 | A |
| SUZ1 | Golf Courses | B |
| SUZ2 | Earth and Energy Resources Industry | C |
| SUZ4 | Peninsula Private Hospital | A |
| **French Island and Sandstone Island**  |  |
|   | *No specific zones*  |   |
| **Gannawarra**  |  |
| SUZ1  | Private Educational or Religious Institutions  | B  |
| SUZ2  | Private Golf Course  | B  |
| SUZ3  | Arbuthnot Timber Mill  | C  |
| SUZ4  | Caravan Park  | B  |
|  **Glenelg**  |
| SUZ1  | Portland Special Education  | B  |
| SUZ2  | Golf Courses  | B  |
| SUZ3  | Dutton Way  | B  |
| SUZ5  | Heywood Pulp Mill  | D  |
| SUZ6  | Lake Condah and Lake Condah Mission Site  | E  |
| **Golden Plains**  |  |
| SUZ1  | Refuse Disposal  | C  |
| SUZ2  | Regional Refuse Disposal  | C  |
| SUZ3  | Lethbridge Airport  | C  |
| SUZ4  | Bannockburn Golf Course  | B  |
|  **Greater Bendigo**  |
| SUZ1  | Private Educational or Religious Institutions | B  |
| SUZ2  | Private Hospital | B  |
| SUZ3  | Television or Radio Station  | B  |
| SUZ4  | Private Sport and Recreation Facilities  | B  |
| SUZ5  | Racing Facilities  | A  |
| SUZ6  | Tourism Facility  | B  |
| SUZ7  | Bendigo Airport | C  |
| SUZ8  | Showgrounds | A  |
| SUZ9  | Bus Depot | A  |
| SUZ10  | Girton Grammar School, Junior and Senior Campuses, Vine, Wattle and Mackenzie Streets, Bendigo  | B  |
| SUZ11  | Holdsworth Road Open Space/Recreation Area  | E  |
| SUZ12  | Electricity Terminal Station  | A  |
| **Greater Dandenong** |
| SUZ2 | Earth and Energy Resources Industry | C |
| SUZ4 | Keysborough Turkish and Islamic Cultural Centre & Mt Hira College (KTICC & Mt Hira College), 396 Greens Road, Keysborough | B |
| SUZ6 | Cornish College, 65 Riverend Road, Bangholme | B |
| CDZ1  | Fortuna Comprehensive Development Plan  | B  |
| CDZ2  | Atisha Comprehensive Development Plan | B  |
| CDZ3  | Marong Business Park Comprehensive Development Plan  | C  |
| **Greater Geelong**  |
| SUZ1  | Environmental Wetlands, Salt Production and Land-Based Aquaculture Activities  | A  |
| SUZ3  | Private Golf Courses  | B  |
| SUZ4  | Geelong Showgrounds and Racecourse, and Beckley Park  | A  |
| SUZ5  | Eastern Park  | B  |
| SUZ7  | Earth and Energy Resources Industry  | C  |
| SUZ8  | Goandra Land, Thacker Street, Ocean Grove  | E  |
| SUZ9  | Correctional Programs Centre at Lara | B |
| SUZ11  | Avalon Airport | D |
| SUZ12  | Lara Energetic Materials Manufacturing Plant  | D  |
| SUZ13  | Drysdale Regional Community and Cultural Hub  | A  |
| SUZ14  | Private Teaching Hospital and Education Precinct  | A  |
| SUZ15  | Private Education Centre  | B  |
| SUZ16  | Privately Owned Utility Installations | D |
| SUZ17  | Chisholm Road Prison Project, Lara  | B  |
| CDZ1  | Thirteenth Beach Resort | B  |
| CDZ2  | Rippleside Comprehensive Development Plan | B |
| CDZ3  | Adventure Park Comprehensive Development Plan  | A  |
| UGZ1  | Armstrong Creek North East Industrial Precinct, Precinct Structure Plan (May 2010)  | C  |
| UGZ2  | Armstrong Creek East Precinct Structure Plan (May 2010, Amended November 2011) and Armstrong Creek South Precinct Structure Plan (February 2016)  | B  |
| UGZ3  | Armstrong Creek West Precinct Structure Plan September 2012  | B  |
| UGZ4  | Armstrong Creek Horseshoe Bend Precinct Structure Plan, September 2014 | B |
| UGZ5  | Armstrong Creek Town Centre Precinct Structure Plan  | A  |
| UGZ6  | Lara West Precinct Structure Plan (2013)  | B  |
|  **Greater Shepparton**  |
| SUZ1  | Shepparton Showgrounds  | A  |
| SUZ2  | Tatura Showgrounds  | A  |
| SUZ3  | Tatura Racecourse  | A  |
| SUZ4  | Goulburn Valley Harness and Greyhound Racing Precinct  | A  |
| SUZ6  | GV Link Freight Logistics Centre  | D  |
| SUZ7  | Emerald Bank Tourism Precinct | A  |
| SUZ8  | Private Education Establishments | B  |
| SUZ9  | Tatura Milk Industries – Hogan Street, Tatura  | D  |
| SUZ10  | Kialla Private School  | B  |
| SUZ11  | Unilever Manufacturing Site, 55 Park Street, Tatura  | D  |
| UGZ1  | Shepparton North East Precinct Structure Plan  | B  |
| **Hepburn**  |  |
| SUZ1  | Golf Courses  | B  |
| SUZ2  | Creswick Golf Course  | B  |
| SUZ3  | Daylesford Lawn Tennis Club  | B  |
| **Hobsons Bay** |
| SUZ1 | Private Sportsgrounds & Community Establishments | B |
| SUZ4 | Altona Special Industrial Area | D |
| SUZ5 | Marine Engineering Area | D |
|  **Hindmarsh**  |
|   *No specific zones*  |
|  **Horsham**  |
| SUZ1  | Horsham Golf Course | B  |
| SUZ2  | Horsham Airport  | C  |
| SUZ3  | Dooen Freight Hub  | D  |
| SUZ4  | Horsham Showgrounds  | A  |
| SUZ5  | Wimmera Events Centre  | A  |
| SUZ6  | Earth and Energy Resources Industry | C  |
| SUZ8  | Horsham Artist in Residence  | B  |
| SUZ9  | Wimmera Intermodal Freight Terminal Precinct  | D  |
| **Hume** |
| CDZ5 | Greenvale North Neighbourhood Activity Centre comprehensive development plan | A |
| SUZ1 | Earth and Energy Resources Industry | C |
| SUZ6 | Former Greenvale Hospital | A |
| SUZ9 | Sunbury South – electricity easements | F |
| SUZ11 | Lindum Vale Precinct Structure Plan - electricity easement  | C |
| UGZ2 | Greenvale North r1 Precinct Structure Plan | B |
| UGZ3 | Greenvale West r3 Precinct Structure Plan | E |
| UGZ4 | Merrifield West Precinct Structure Plan | A |
| UGZ6 | Greenvale Central Precinct Structure Plan | A |
| UGZ7 | Woodlands Precinct Structure Plan | E |
| UGZ9 | Sunbury South Precinct Structure Plan | F |
| UGZ10 | Lancefield Road Precinct Structure Plan | A |
| UGZ11 | Lindum Vale Precinct Structure Plan | A |
| UGZ12 | Craigieburn West Precinct Structure Plan | A |
| **Indigo**  |  |
| SUZ1  | Beechworth Prison Farm  | B  |
| SUZ2  | Plemings Road, Barnawartha – Renewable Energy (Biodiesel) and Rendering Facility  | C  |
| **Kingston** |
| SUZ1 | Golf courses | B |
| SUZ2 | Earth and energy resources industry | C |
| SUZ3 | Private community facilities | B |
| SUZ5 | Heatherton Christian College | B |
| **Knox** |
| SUZ1 | Community, recreation, education and religious purposes | B |
| SUZ2 | Earth and energy resources industry | C |
| SUZ3 | Terminal station | A |
|  **Latrobe**  |
| SUZ1  | Brown Coal  | D  |
| SUZ2  | Traralgon Car Sales Precinct  | A  |
| SUZ3  | Gippsland Heritage Park  | A  |
| SUZ4  | Victor Street Exchange  | B  |
| SUZ6  | Earth and Energy Resources Industry  | C  |
| SUZ7  | Latrobe Regional Airport  | C  |
| SUZ8  | Health and Complementary Uses Precinct  | A  |
| UGZ1  | Lake Narracan Precinct Structure Plan | B  |
| **Loddon** |
|  | *No specific zones* |  |
| **Lake Mountain Alpine Resort (UNINC)** |
| CDZ1 | Alpine Village | B |
| CDZ2 | Alpine Recreation | B |
| **Macedon Ranges**  |  |
| SUZ1 | Private Schools  | B  |
| SUZ2  | Racecourses  | A  |
| SUZ3  | Private Golf Courses  | B  |
| SUZ4  | Private Hospital  | A  |
| SUZ5  | Riddells Creek Health, Education and Community Precinct  | A  |
| SUZ7  | Horse Training and Equine Services Precinct  | B  |
| **Manningham** |
| SUZ2 | Terminal station | A |
| SUZ3 | Donvale Christian College | B |
| **Mansfield**  |  |
| SUZ1  | Mountain Bay  | A  |
| **Melton**  |  |
| SUZ1  | Earth and Energy Resources Industry  | C  |
| SUZ3  | Terminal Stations  | D  |
| SUZ5  | Leakes Road Tourist Precinct  | A  |
| SUZ6  | Remand Centre at Truganina  | B  |
| SUZ7  | Melton Harness Racing Centre  | A  |
| SUZ8  | Prison Precinct  | B  |
| SUZ9  | Kororoit Precinct Structure Plan - Electricity Easement  | A  |
| SUZ10  | Plumpton Precinct Structure Plan - Electricity Easement  | A  |
| SUZ11  | Mt Atkinson & Tarneit Plains Precinct Structure Plan - Electricity Easement  | C  |
| CDZ1  | Caroline Springs Town Centre Area  | A  |
| UGZ1  | Taylors Hill West Precinct Structure Plan  | B  |
| UGZ2  | Melton North Precinct Structure Plan  | B  |
| UGZ3  | Toolern Precinct Structure Plan  | B  |
| UGZ4  | Rockbank North Precinct Structure Plan  | B  |
| UGZ5  | Diggers Rest Precinct Structure Plan  | B  |
| UGZ6  | Toolern Park Precinct Structure Plan  | B  |
| UGZ7  | Rockbank Precinct Structure Plan  | A  |
| UGZ8  | Payne's Road Precinct Structure Plan  | B  |
| UGZ9  | Mt Atkinson & Tarneit Plains Precinct Structure Plan  | A  |
| UGZ11  | Plumpton Precinct Structure plan  | B  |
| UGZ12  | Kororoit Precinct Structure Plan  | B  |
|  **Mildura**  |
| SUZ1  | Private Education and Religious Establishments  | B  |
| SUZ2  | Tourist Precincts  | A  |
| SUZ3  | Mildura Marina  | B  |
| SUZ4  | Mildura Hospital | A  |
| SUZ5  | Essential Service Utilities | A  |
| SUZ6  | Red Cliffs Caravan Park | B  |
| SUZ7  | Mildura Airport  | C  |
| SUZ8  | Mildura – Irymple Urban Transition Area  | B  |
| SUZ9  | Mildura – Irymple Urban Transition Area  | A  |
| SUZ10  | Bioenergy Power Plant, Carwarp  | D  |
| CDZ1  | Mildura Golf Resort Redevelopment Masterplan, June 2012 | B |
| UGZ1  | Mildura South Precinct Structure Plan – Activity Centre  | A  |
| **Mitchell**  |  |
| SUZ1  | Earth and Energy Resources Industry  | C  |
| SUZ2  | State Motorcycle Sports Complex  | C  |
| SUZ3  | Kilmore Racetrack  | C  |
| SUZ4  | Private Educational or Religious Institutions  | B  |
| CDZ1  | Hidden Valley Comprehensive Development Plan  | B  |
| CDZ2  | Mandalay Comprehensive Development Plan  | B  |
| UGZ1  | Lockerbie Precinct Structure Plan  | A  |
| UGZ2  | Lockerbie North Precinct Structure Plan  | B  |
| UGZ4  | Donnybrook-Woodstock Precinct Structure Plan  | B  |
| UGZ5  | Beveridge Central Precinct Structure Plan  | B  |
| **Moira**  |  |
| SUZ1  | Green Palms Village, Cobram  | B  |
|  **Moorabool**  |
| SUZ1  | Coal Mining  | D  |
| SUZ2  | Earth and Energy Resources Industry  | C  |
| SUZ3  | Golf Courses  | B  |
| SUZ4  | Bacchus Marsh Grammar School  | B  |
| SUZ5  | Shaws Road, Ballan Tourism Precinct  | B  |
| CDZ1  | Sir Jack Brabham Park  | C  |
|  **Mornington Peninsula**  |
| MUZ  | Mornington Peninsula Mixed Use Areas | A |
| SUZ1  | Port Related Uses | D |
| SUZ2  | Private Sportsgrounds, Religious, Health and Educational Establishments  | B  |
| SUZ3  | Airfield Development  | C  |
| SUZ4  | Recreational Development  | B  |
| SUZ7  | Flinders Christian Community College  | B  |
| SUZ8  | Ranelagh Estate Open Spaces | B |
| SUZ9  | Yaringa Boat Harbour | A  |
| CDZ1  | Moonah Links Comprehensive Development Plan | B |
| **Mount Alexander** |
|  | *No specific zones* |  |
| **Mount Baw Baw Alpine Resort (UNINC)** |
| CDZ1 | Alpine Village | B |
| CDZ2 | Alpine Recreation | B |
| **Mount Buller Alphine Resort** |
| CDZ1 | Alpine Village | B |
| CDZ2 | Alpine Recreation | B |
| **Mount Hotham Alpine Resort (UNINC)** |
| CDZ1 | Alpine Village | B |
| CDZ2 | Alpine Recreation | B |
| **Moyne**  |  |
| SUZ1  | Mortlake Power Station  | D  |
| SUZ2  | Lake Condah  | E  |
| SUZ3  | Warrnambool Regional Airport  | C  |
| SUZ4  | Extractive Industry  | C  |
| SUZ5  | Shaw River Power Station  | D  |
| SUZ6  | Tarrone Power Station  | D  |
| **Murrindindi**  |  |
| SUZ1  | Eildon Switchyard  | A  |
| SUZ2  | Major Tourism Facility, Marysville  | B  |
| **Nillumbik** |
| SUZ1 | Heritage Golf and Country Club | B |
| SUZ2 | Environmental Living - Bend of Islands | E |
| SUZ3 | Plenty Valley Christian College | B |
| SUZ4 | Eltham College | B |
| **Northern Grampians**  |  |
| SUZ1  | Stawell Gold Mine  | D  |
| SUZ2  | Earth and Energy Resources Industry  | C  |
| **Pyrenees**  |  |
| SUZ1  | Private Golf Club (Beaufort)  | B  |
| **Queenscliff**  |  |
| SUZ1  | Queenscliff Harbour  | A  |
| SUZ2  | Private Minor Sports and Recreation Facilities  | B  |
| SUZ3  | Queenscliff Ferry Terminal  | A  |
| **South Gippsland**  |  |
| SUZ1  | Earth and Energy Resources Industry  | C  |
| SUZ2  | Waratah Park Tourist Facility  | A  |
| SUZ3  | Port Areas  | C  |
| SUZ4  | Wilsons Promontory Gateway Tourist Facility  | A  |
| SUZ5  | SPI Electricity Pty Ltd Leongatha Depot  | C  |
| SUZ6  | Koonwarra Agricultural Services Precinct  | C  |
| SUZ7  | Camping and Caravan Park  | B  |
| SUZ8 | Extractive Industry | **C** |
|  **Southern Grampians**  |
| SUZ1  | Private Educational Institutions  | B  |
| SUZ2  | Private Golf Course | B |
| SUZ3  | Mount Baimbridge Road, Hamilton  | C  |
| SUZ4  | Office and Communications Centre  | A  |
| SUZ5  | RMIT Hamilton  | B  |
| SUZ6  | Hamilton Airport  | C  |
| SUZ7  | Western Speedway Hamilton  | C  |
| **Strathbogie** |
| CDZ1 | Lake Nagambie Resort Master Plan - 25028Dd A1-001-Q | B |
| SUZ1 | Mangalore Airport | C |
| SUZ2 | Freeway Service Centre | A |
| SUZ3 | Costa Exchange Mushroom Farm and Composting Facility – 347 Zanelli Road, Nagambie | D |
|  **Surf Coast**  |
| SUZ1  | Alcoa Lease Land  | D  |
| SUZ2  | Anglesea Vehicle Proving Ground  | C  |
| SUZ3  | Anglesea Heathland  | E  |
| SUZ4  | Torquay Community Development Precinct | **A**  |
| SUZ5  | Torquay Tourism Development Precincts  | A  |
| SUZ6  | Lorne Refuse Disposal  | C  |
| SUZ7  | Golf Courses  | B  |
| SUZ8  | Anglesea Tourism Development Precincts  | B  |
| SUZ9  | Surf Coast Christian College Campus  | B  |
| CDZ2  | The Sands Torquay Residential Lakes and Golf Course Comprehensive Development Plan  | B  |
| CDZ3  | Cape Otway Road Australia (CORA)  | A  |
| UGZ1 | Urban Growth Zone | B |
| **Swan Hill**  |  |
| SUZ1  | Abattoir  | D  |
| SUZ2  | Swan Hill Clay Target Club  | C  |
| SUZ3  | Education Centre and Accommodation Facility  | B  |
| SUZ4  | Two Bays Roadhouse and Caravan Park, Nyah  | B  |
| SUZ5  | Jack Chisholm Reserve Motor Sports Facility  | C  |
| **Towong**  |  |
|   | *No specific zones*  |   |
| **Wangaratta**  |  |
| SUZ1  | Showgrounds  | A  |
| SUZ2  | Racecourse  | A  |
| SUZ3  | Avian Park Sport and Recreation Hub  | A  |
| SUZ4  | Golf Course  | B  |
| SUZ5  | Galen College – The Farm  | B  |
| SUZ6  | South Wangaratta Civic Precinct  | A  |
| SUZ7  | Reith Road Equine Precinct  | B  |
| SUZ8 | Wangaratta Aerodrome | C |
| **Warrnambool**  |  |
| SUZ1  | Warrnambool Racecourse  | A  |
| SUZ2  | Warrnambool Showgrounds  | A  |
| SUZ3  | Warrnambool West Industrial Precinct - Transition Area  | C  |
|  **Wellington**  |  |
| SUZ1  | West Sale Airport  | C  |
| SUZ2  | Fulham Prison  | B  |
| SUZ3  | Lake Guthridge Precinct  | E  |
| SUZ4  | Firebrace Road Transition Zone  | C  |
| SUZ5  | Firebrace Road Group Accommodation Area  | B  |
| SUZ6  | Sale Greyhound Racing Facility  | A  |
| CDZ1  | Sale Golf Club Redevelopment Comprehensive Development Plan  | B  |
| **West Wimmera**  |  |
| SUZ1  | Racecourse  | A  |
| SUZ2  | Golf Course  | B  |
| SUZ3  | Edenhope Aerodrome  | C  |
| **Whittlesea** |
| CDZ1 | Mernda Town Centre Comprehensive Development Plan | A |
| SUZ1 | Whittlesea Showgrounds | A |
| SUZ3 | Janefield Technology Estate | A |
| SUZ4 | Earth and energy resources industry | C |
| SUZ6 | South Morang Terminal Station | D |
| SUZ7 | Costa Exchange Mushroom Farm – 45 Cookes road, Doreen | C |
| SUZ8 | Quarry Hills Precinct Structure Plan - electricity easement | C |
| UGZ3 | Quarry Hills Precinct Structure Plan | A |
| UGZ5 | Wollert Precinct Structure Plan | F |
| UGZ6 | Donnybrook-Woodstock Precinct Structure Plan | A |
| UGZ7 | Shenstone Park Precinct Structure Plan | F |
| **Wodonga**  |  |
| SUZ1  | Gateway Island  | B  |
| SUZ2  | Golf Courses and Associated Development  | B  |
| UGZ1  | Urban Growth Zone  | B  |
| **Wyndham** |
| SUZ1 | Wyndham Harbour | A |
| SUZ4 | K Road Tourism and Recreation Precinct | B |
| SUZ6 | Extractive Industry | C |
| SUZ9 | Cherry Creek Youth Justice Redevelopment Project | B |
| UGZ3 | Manor Lakes Precinct Structure Plan | A |
| UGZ4 | Alfred Road Precinct Structure Plan | A |
| UGZ7 | Black Forest Road North Precinct Structure Plan | A |
| UGZ9 | Westbrook Precinct Structure Plan | A |
| UGZ14 | East Werribee Employment Precinct | A |
| UGZ15 | Lincoln Heath South Precinct Structure Plan | B |
| UGZ16 | Quandong Precinct Structure Plan | B |
| **Yarra Ranges**  |  |
| SUZ1  | Earth and Energy Resources Zone  | C  |
| SUZ2  | Major Tourist Facility  | A  |
| SUZ3  | Airfield  | C  |
| SUZ4  | Educational Facility  | B  |
| SUZ5 | Chirnside Park Country Club  | B  |
| SUZ6  | Extractive Resource Environmental Buffer  | B  |
| SUZ7  | Billanook College  | B  |
| SUZ8  | Little Yarra Steiner School  | B  |
| SUZ9  | Eastern Golf Club  | B  |
| SUZ10 | Lots 7 and 8 Lp127612 Maroondah Highway Coldstream | A  |
| SUZ11  | Burnham Beeches Residential Hotel and Resort  | A  |
| **Yarriambiack**  |  |
| SUZ1  | Racecourse  | A  |
| SUZ2  | Showgrounds  | A  |
| SUZ3  | North Western Agricultural Machinery Museum  | A  |

# Annex C: Objective method for tonal adjustment for commercial, industrial and trade premises

1. When the noise emission is tonal in character, this objective tonal adjustment method may be used to determine the value of the tonal adjustment (clause 83).
2. The objective tonal adjustment method is conducted using one-third octave band analyses of several samples from an A-weighted sound pressure level measurement.
3. At least three samples must be made. Each sample must have a duration of at least one second and must represent the tonal character of the noise.
4. Each sample must have a duration of at least one second and the sum of the duration of the samples analysed must be at least 24 seconds.
5. The whole of each sample must be analysed in each one-third octave band with centre frequencies from 25 Hz to 16 kHz as follows:
	1. Determine the A-weighted band level as the LAeq for each one-third octave band, rounded to the one decimal place.
	2. For each one-third octave band, calculate the band exceedance (BEi) for each one-third octave band i by taking the difference, rounded to one decimal place, between the A-weighted band level and the arithmetic average of the A-weighted levels of the two adjacent one-third octave bands using Equation 3:

 𝐵𝐵𝐵𝐵𝑖𝑖 = 𝐿𝐿𝐴𝐴𝑖𝑖 − 𝐿𝐿𝐴𝐴(𝑖𝑖−1)+2𝐿𝐿𝐴𝐴(𝑖𝑖+1) dB (Equation 3)

1. For one-third octave bands for which the band exceedance is greater than 3.0 dB, determine the tonal factor TFi from figure 2.



### BAND EXCEEDANCE dB

 BAND TONAL FACTOR dB

#### Figure C.1: Determination of tonal factors for objective tonal assessment

1. For one-third octave bands where the band level is 25 dB or more below the highest band level, the tonal factor TFi is set to zero.
2. Calculate a tone-corrected level LTC across all one-third octave bands by combining the band levels of each band augmented by the relevant tonal factor, and rounding to one decimal place using Equation 4:

 𝐿𝐿𝑇𝑇𝑇𝑇 = 10 log10 ∑𝑗𝑗𝑖𝑖=1 10(𝐿𝐿𝐴𝐴𝑖𝑖+𝑇𝑇𝑇𝑇𝑖𝑖)⁄10 dB(A) (Equation 4)

1. For each sample, calculate the difference between the tone-corrected level and the uncorrected overall LAeq of the sample, rounded to one decimal place.
2. Using all samples that are representative of the tonal nature of the noise, calculate the arithmetic average of the differences resulting from clause 150 above, rounded to one decimal place.
3. Determine the tonal adjustment from Table 7.

#### Table 7: Tonal adjustment to apply based on the objective tonal method

|  |  |
| --- | --- |
| **Average difference between tone corrected level and sample LAeq**  | **Adjustment**  |
| < 0.5 dB  | 0 dB  |
| 0.5 dB to 3.4 dB  | + 2 dB  |
| ≥ 3.5 dB  | + 5 dB  |