

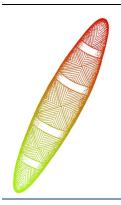
Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues

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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  $L_{A90}$  levels that represents the background sounds in a noise sensitive area, in the absence of noise from any commercial, industrial or 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 or trade premise, or music noise from an entertainment venue 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.

## $L_{A90}$

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.

#### L<sub>OCT10</sub>

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

#### L<sub>OCT90</sub>

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.

#### 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

- (a) 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
  - i. any habitable room (as defined in section 167(3) of the *Environment Protection Act 2017*) within a noise sensitive area: or
  - ii. any learning room within a kindergarten, childcare centre, primary or secondary school.
- (b) For the purposes of assessing unreasonable noise from an indoor entertainment venue under Regulation 113 of the Environment Protection Regulations, 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
  - i. bathroom
  - ii. laundry
  - iii. toilet
  - iv. pantry
  - v. walk-in wardrobe
  - vi. corridor
  - vii. stair
  - viii. lobby
  - ix. photographic darkroom
  - x. 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
  - i. 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.

ii. any learning room within a kindergarten, childcare centre, primary or secondary school.

## Traffic noise LAeq

Equivalent continuous A- frequency weighted sound pressure level (L<sub>Aeq</sub>) 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.

## 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 (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 and entertainment venues as defined by the Regulations. It 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.

<u>Part I</u> 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 the commercial, industrial or trade premises is determined to be unreasonable under Regulation 118 of the Regulations.

<u>Part II</u> 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.

Unless explicitly stated otherwise, terms defined under the Regulations have 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:
    - a. for the day period the background level is
      - i. neutral when it is at least 6 dB, and no more than 12 dB, below the zoning level;
      - ii. high when the background level plus 6 dB exceeds its respective zoning level; and
      - iii. low when the background level is 13 dB or more below the zoning level.
    - b. for the evening and night periods the background level is
      - i. 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:
      - i. 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;
      - ii. 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 =  $\frac{1}{2}$  (zoning level + background level) + 4.5 dB.

- b. for the evening period:
  - i. 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;
  - ii. 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 = 1/2 (zoning level + background level) + 3 dB

- c. for the night period:
  - i. 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);
  - ii. 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

- (7) To determine the zoning level, the relevant planning scheme or schemes for the area under consideration must be used. (Refer to Annex A).
- (8) 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).
- (9) 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.
- (10) 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
  - a. residential, rural and open spaces as type 1; and
  - b. commercial, business and light industry as type 2; and
  - c. general industry and major roads as type 3.
- (11) 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.
- (12) A type designated by the Authority under clause 11 must be published on the Authority's website.
- (13) 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.
- (14) 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
  - a. The influencing factor (IF) must be calculated from the following formula:

IF = 
$$\frac{1}{2}$$
  $\left(\frac{\text{area type } 3 + \frac{1}{2}(\text{area type 2})}{\text{total area of circle}}\right) 140 \text{m circle}$   
+  $\frac{1}{2}$   $\left(\frac{\text{area type } 3 + \frac{1}{2}(\text{area type 2})}{\text{total area of circle}}\right) 400 \text{m circle}$ 

b. 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).

(15) 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.

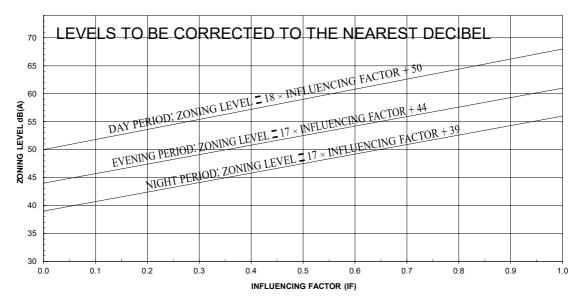


Figure 1: Zoning Level vs Influencing Factor

## Noise limits – Rural area method

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

- (16) Use this section of the Noise Protocol to determine the noise limits for commercial, industrial and trade premises in a rural area, other than utilities (clauses 29 to 32) and earth resources (clauses 33 to 36). The values of the noise limits must be whole numbers, rounded to the nearest decibel.
- (17) Determine the zone level and distance-adjusted level for each period using the method in clauses 19 and 20.
- (18) For each period, the noise limit is the greater of the distance-adjusted level and base noise level 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

- (19) Determine the zone levels for each of the day, evening and night periods using Annex B to this Noise Protocol.
- (20) 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
  - a. if the noise generator and receiver are covered by the same contiguous zone, the distance adjustment is 0 dB;
  - b. 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;

- c. 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;
- d. 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 receiverdistance adjustment);
- e. if a distance adjustment is required, the maximum subtraction is 9 dB;
- f. the distance adjustment must be applied to the zone level for the day, evening and night periods.

# 2.3 Background level assessment

- (21) 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.
- (22) 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 commercial, industrial or trade premises is located, to ensure the noise limit is not set below the background level.
- (23) 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 or 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
  - a. for the day period, the noise limit is the greater of:
    - i. the distance-adjusted level or base noise level; or
    - ii. the day background level plus 8 dB.
  - b. for the evening period, the noise limit is the greater of:
    - i. the distance-adjusted level or base noise level; or
    - ii. the evening background level plus 5 dB.
  - c. for the night period, the noise limit
    - i. is the greater of -
      - the distance-adjusted level or base noise level; or
      - the night background level plus 5 dB.
    - ii. must not be greater than 55 dB(A).

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

- (25) 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 (IN3Z) Zone, Commercial 2 Zone (C2Z); or in a Special Use Zone (SUZ) with accommodation a prohibited use in that SUZ, measure the traffic noise L<sub>Aeq</sub> in accordance with Australian Standard AS 2702-1984, *Acoustics Methods for the measurements of road traffic noise*.
- (26) 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 L <sub>Aeq</sub> 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 L <sub>Aeq</sub> 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 L <sub>Aeq</sub> 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 $L_{Aeq}$ 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

- (29) Determine the zone level and distance-adjusted level for each period using the method in clauses 19 and 20.
- (30) If a utility is located in a Road Zone (RDZ), such as a pole mounted transformer
  - a. 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).
  - b. adopt as the distance-adjusted level the lower of
    - i. the distance-adjusted level from clause 20, and
    - ii. the zone level that would apply when the emitter is in the same zone as the noise sensitive area.
  - c. for each period, the noise limit is the greater of the distance-adjusted level (from clause 30(b)) and base noise level, unless a background level assessment is conducted in accordance with clauses 21 to 23.
- (31) If the utility is located in a Farming Zone, Rural Activity Zone or Green Wedge Zone and the distance adjustment is 0 dB, and unless a background level assessment is conducted in accordance with clauses 21 to 23, then:
  - a. the distance-adjusted level for each period is -

i. Day: 45 dB(A)

ii. Evening: 39 dB(A)

iii. Night: 34 dB(A).

- b. 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.
- (32) Where a background level assessment is conducted in accordance with clauses 21 to 23, the noise limit is determined in accordance with clause 24 and rounded to the nearest decibel.

## 2.7 Noise limits in rural areas for earth resources

- (33) 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.
- (34) 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.
- (35) Determine the earth resources levels as follows:
  - a. 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
    - i. Day: 45 dB(A)
    - ii. Evening: 38 dB(A)
    - iii. Night: 33 dB(A).
  - b. 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 –
    - i. Day: 51 dB(A)
    - ii. Evening: 46 dB(A)
    - iii. Night: 41 dB(A).
  - c. 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
    - i. Day: 56 dB(A)
    - ii. Evening: 51 dB(A)
    - iii. Night: 46 dB(A).
  - d. in all other situations, the earth resources levels are
    - i. Day: 46 dB(A)
    - ii. Evening: 41 dB(A)
    - iii. Night: 36 dB(A).
- (36) 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

- (37) 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.
- (38) For the purpose of clause 37, equipment used in relation to emergencies includes
  - a. a fire pump means a water pump permanently installed on a premises for extinguishing fires in emergencies;
  - b. 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;
  - 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;
  - d. a smoke spill fan means a fan that forms part of a building emergency smoke control system;
  - e. a stair pressurisation system means a pressurisation system used in emergencies to protect stairwells from smoke ingress;
  - f. 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

- (39) The background level must, where possible, be measured outdoors at the assessment location in the noise sensitive area.
- (40) 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.
- (41) The background level must be measured during dry conditions with wind conditions satisfying Beaufort Wind Scale 0, 1, 2 or 3.
- (42) The background level must include all noise sources except noise from any commercial, industrial or trade premises which appears to be intrusive at the point where the background level is measured.
- (43) 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 L<sub>A90</sub>.
- (44) No adjustment for noise character is applied to the measured background level.
- (45) The background level must be rounded to the nearest decibel.
- (46) To determine the background level, the L<sub>A90</sub> must be measured continuously over each hour of the day, evening and night period that the commercial, industrial or trade premises under investigation normally operates.

- (47) Where the conditions of clause 46 cannot be met, the L<sub>A90</sub> may be measured over less than the full period using the short background method in clause 48.
- (48) For the short background method, at least two measurements of the L<sub>A90</sub> 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 or trade premises normally operates.

# 4.2 Determination of background level

- (49) 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 or trade premises under investigation normally operates.
- (50) For the purpose of clause 49, for the relevant period, the background level must be based on valid L<sub>A90,1 hour</sub> measurements for each and every hour that the premises under investigation normally operates.
- (51) Where the L<sub>A90</sub> 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

- (52) 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).
- (53) 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.
- (54) Atmospheric conditions that increase noise at sensitive areas to make it above the noise limits (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.
- (55) 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

 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

- (57) Notwithstanding clause 56, an alternative assessment location may be specified where:
  - a. 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 or trade premises;
  - atmospheric conditions affect the effective noise level at the noise sensitive area and a
    measurement point is required closer to the commercial, industrial or trade premises under
    investigation that is not affected by atmospheric conditions;
  - c. a measurement point in a noise sensitive area is not readily accessible and a more suitable measurement point is required; or
  - d. 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.
- (58) The alternative assessment location must be chosen so that the noise at the alternative assessment location is representative of the noise exposure within noise sensitive areas.
- (59) An alternative assessment location may be specified either within or outside a commercial, industrial or trade premises.

## 1.3 Alternative assessment criterion

- (60) Where an alternative assessment location is used, an alternative assessment criterion must be determined for that location, for each relevant operating time period.
- (61) 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.
- (62) The alternative assessment criterion must be calculated having regard to:
  - a. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound.
  - b. 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.
  - c. the cumulative contribution from other industrial, commercial or trade premises affecting noise sensitive areas, as required in Regulation 119.
  - d. 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

- (63) The effective noise level is determined, for noise from commercial, industrial and trade premises, as a 30-minute equivalent sound pressure level L<sub>Aeq,30min</sub> adjusted, where relevant for:
  - a. duration (A<sub>dur</sub>)
  - b. noise character
    - i. tonality (Atone)
    - ii. impulse (A<sub>imp</sub>)
    - iii. intermittency (Aint)
  - c. measurement position
    - i. reflection (A<sub>refl</sub>)
    - ii. indoor (A<sub>ind</sub>)
- (64) The effective noise level is calculated using Equation 1:

$$ENL = L_{Aeq} + A_{dur} + A_{tone} + A_{imp} + A_{int} + A_{refl} + A_{ind}$$
 (Equation 1)

- (65) For the purpose of determining the effective noise level the noise is measured using the Fast time weighting and the A-frequency weighting network.
- (66) The L<sub>Aeq</sub> and relevant adjustments must be applied to one decimal place.
- (67) The effective noise level is rounded to the nearest decibel.

#### **Existing premises**

- (68) 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.
- (69) 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:
  - all existing noise sensitive areas or future noise sensitive areas relevant to approved developments;
  - the sound paths to the noise sensitive area and other factors which may affect the propagation of sound;

- 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);
- the cumulative contribution from existing and approved premises affecting noise sensitive areas;
- e. the uncertainty of the calculation method used.

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

# 3.1 Measurement point

#### **Outdoor measurement**

- (71) The measurement point must be located within a noise sensitive area or at an alternative assessment location.
- (72) 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.
- (73) The measurement point within a noise sensitive area must be located at a point where the maximum effective noise level occurs.

#### Indoor measurement

- (74) The measurement point must be located indoors, in a sensitive room within a noise sensitive area, when:
  - a. 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
  - b. 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.
- (75) If an indoor measurement is made in a sensitive room, all its windows and doors must be closed.

## 3.2 Atmospheric conditions

- (76) 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 or trade premises must be used unless there is no appropriate alternative assessment location (refer clause 77).
- (77) 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.
- (78) 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

- (79) If noise emissions from the commercial, industrial or trade premises investigated do not occur over the whole continuous 30-minute period, the duration adjustment applies.
- (80) 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:
  - $A_{dur} = 10 log_{10}$  (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**

- (82) When the noise is tonal in character then an adjustment is made based on observations of the noise.
- (83) The following adjustments apply
  - a. when the tonal character of the noise is just detectable then Atone = +2 dB;
  - b. when the tonal character of the noise is prominent then  $A_{tone} = +5 \text{ dB}$ .
- (84) 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

- (85) When the noise is impulsive in character the following adjustments apply:
  - a. when the impulsive character of the noise is just detectable then  $A_{imp}$  = +2 dB.
  - b. when the impulsive character of the noise is prominent then  $A_{imp} = +5 \text{ dB}$ .
- (86) 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

- (87) An intermittency adjustment applies when the noise:
  - a. increases in level rapidly, and by at least 5 dB, on at least two occasions during a 30-minute period; and
  - b. maintains the higher level for at least a one-minute duration.
- (88) 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	5-10 dB	+ 3 dB
or Night period	> 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  $A_{refl} = -2.5 \text{ dB}$ .

## 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

	Circ	umstances	Adjustment
<ul> <li>The noise reduction performance of the building envelope is known, in octave or one third octave bands, from design specifications, calculations or measurements, and;</li> <li>The frequency spectrum of the indoor noise has been measured.</li> </ul>		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	<ul> <li>Meets or exceeds energy efficiency requirements set out in the Building Code of Australia 2006 (BCA 2006) including sealing requirements.</li> </ul>	+20 dB
	building envelope:	- 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
  - Noise limits Outdoor entertainment venues and outdoor entertainment events
  - (91) 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
    - a. 65 dB(A) when the measurement point is located outdoors, within a noise sensitive area; and
    - b. 55 dB(A) when the measurement point is located indoors, in a sensitive room within a noise sensitive area.
  - (92) 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

- (93) 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.
- (94) 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

- (95) The noise limits for music noise from indoor entertainment venues that apply within noise sensitive areas, are
  - a. for the day and evening period as defined in Regulation 123,  $L_{A90}$  + 5 dB; and
  - b. for the night period as defined in Regulation 123,  $L_{OCT90}$  + 8 dB.
- (96) 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 115, then the noise limit is the base noise limit.

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

- (97) For the purpose of setting noise limits for music noise from indoor entertainment venues, the background level is
  - a. the L<sub>A90</sub> level, for the day and evening period, and
  - b. the L<sub>OCT90</sub> level, for the night period.

- (98) 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).
- (99) 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.
- (100) Background level must be measured outdoors unless
  - a. clause 106(a) applies; or
  - b. the noise sensitive residential use is the agent of change, when clause 53.06 of the VPPs applies.
- (101) Where the background level determined at the time of assessment of an indoor entertainment venue has noise contributions from commercial, industrial or trade premises and the effective noise level of the commercial, industrial or 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.
- (102) For the purpose of determining the background level the background noise is measured for at least 15 minutes
  - a. for the day and evening period using the Fast time weighting and the A-frequency weighting network; or
  - b. for the night period using the Fast time weighting, and the linear weighting network.

# 3. Agent of Change

- (103) 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
  - a. 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.
  - b. 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.
- (104) 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

- (105) The measurement point must be located within a noise sensitive area or at an alternative assessment location.
- (106) Where the measurement is to be made in a noise sensitive area, the measurement point must be located outdoors near a sensitive room unless
  - a. For indoor entertainment venues:
    - i. the main transmission path of the music noise entering the sensitive room consists of a floor, ceiling or wall with no openings;
    - ii. an outdoor measurement does not represent the noise exposure within the sensitive room; or
    - iii. the noise sensitive residential use is the agent of change, in application of clause 53.06 of the VPPs.

#### b. For outdoor entertainment venues:

- i. an outdoor measurement does not represent the noise exposure within the sensitive room, and a window is a major transmission path for music noise;
- ii. the noise sensitive area is within the Docklands noise attenuation area; or
- iii. the noise sensitive residential use is the agent of change, in application of clause 53.06 of the VPPs.
- c. 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.

(107) 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

- (108) Notwithstanding clause 105, an alternative assessment location may be specified where:
  - a. two or more entertainment venues or events contribute to the effective noise level at a noise sensitive area; or
  - b. a more suitable measurement point is required to facilitate the assessment of the noise.
- (109) 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.
- (110) 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.

## 1.3 Alternative assessment criterion

- (111) Where an alternative assessment location is used, an alternative assessment criterion must be determined for that location, for each relevant operating period.
- (112) 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.
- (113) 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.
- (114) The alternative assessment criterion must be calculated having regard to
  - a. the sound paths to the noise sensitive area and the alternative assessment location, and other factors which may affect the propagation of sound;
  - b. the frequency spectrum of the music noise and the frequency-dependent directivity of music noise sources:
  - c. the cumulative contribution from other indoor entertainment venues affecting noise sensitive areas;
  - d. the uncertainty of the calculation method.

# 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 L<sub>Aeq</sub> measured in dB(A).

#### Outdoor entertainment venues or events during operation

- (116) The measurement must include at least 15 cumulative minutes of music audible at the measurement point.
- (117) The measurement must exclude extraneous noise.
- (118) For the purpose of determining the effective noise level the noise is measured using the Fast time weighting and the A-frequency weighting network.
- (119) The measurement must be made at a time when the greatest intrusion of music noise into the noise sensitive area is likely to occur.
- (120) 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.
- (121) Where an indoor measurement is required, in accordance with clause 106
  - a. 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.
  - b. for the purposes of clause 106(b)(ii), the measurement must be made within a sensitive room with windows and external doors closed.

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

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

- (123) For the day and evening period as defined in Regulation 123, the effective noise level for music noise from indoor entertainment venues is the L<sub>Aeq</sub> measured in dB(A).
- (124) For the night period
  - a. the effective noise level is determined as L<sub>OCT10</sub> 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;
  - b. 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

- (125) 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
  - a. for the day and evening period using the Fast time weighting and the A-frequency weighting network;
  - b. for the night period using the Fast time weighting, and the linear weighting network.
- (126) 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.

- (127) Where an indoor measurement is required, in accordance with clause 106
  - a. 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.
  - b. for the purposes of clause 106(a)(ii), the measurement must be made within the sensitive room with
    - i. any openable external window which is a major sound transmission path fully open during the measurement, and
    - ii. 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
  - a. all existing noise sensitive areas or future noise sensitive areas relevant to approved developments;
  - b. the frequency spectrum of the music noise;
  - c. the frequency-dependent sound insulation performance of the building within which the venue is located, as relevant;
  - d. the sound paths to the noise sensitive area and other factors which may affect the propagation of sound; and
  - e. 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

- (129) 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.
- (130) 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

- (131) 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.
- (132) 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.
- (133) 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
  - a. Type 1 for residential, rural, open space or similar zones;
  - b. Type 2 for commercial, business, office and industrial 3 [light industry] zones; or
  - c. Type 3 for industrial 1 and 2 [general industry] and similar zones.
- (134) This document designates a type for each of the land use zones within Victoria's planning schemes
  - a. Table A.1 designates types of zones and reservations in major urban areas common to all planning schemes.
  - b. 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.
  - c. Table A.3 lists the major urban areas outside the Melbourne urban growth boundary and the corresponding local government area.
  - d. 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.
- (135) 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
	PUZ4	Transport	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	RDZ1	Road Zone - Category 1	3
	RDZ2	Road Zone - Category 2	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	1

Victoria Planning Provision	Zone code	Land Use Zone	Designated type
		for an incorporated precinct structure plan	
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	typo
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

Local Governme	ent Area	Designated type
Zone code	Zone schedule description	
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		

Local Government Area		
Zone code	Zone schedule description	type
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 Danden	ong	
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) 329-335 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

Local Government Area		Designated type
Zone code	Zone schedule description	.,,,,,
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 Race Course	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

Local Government Area		Designated type
Zone code	Zone schedule description	.,,,,,
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

Local Government Area		Designated type
Zone code	Zone schedule description	typo
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 Per	ninsula	
SUZ1	Port Related Uses	3
SUZ2	Private Sportsgrounds, Religious, Health and Educational Establishments	1
SUZ3	Airfield Development	2
SUZ4	Recreational Development	1

Local Governme	Designated type		
Zone code	Zone schedule description		
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 Melbour	ne		
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	
CDZ3	Acland Courtyard	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	

cal Governme	ent Area	Designated type
Zone code	Zone schedule description	
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
/ndham		
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

Local Governme	Designated type	
Zone code	Zone schedule description	.ypc
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

<sup>(\*)</sup> The major urban areas are the areas of land within -

<sup>(</sup>a) the urban growth boundary identified in a planning scheme, where the population is greater than 7000 people; or

<sup>(</sup>b) 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 Governm	Designated type						
Zone code	Zone schedule description	31.					
Ballarat (Ballara	at)						
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 (Wo	onthaggi)						
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary						
Baw Baw (Drou	· · · · · · · · · · · · · · · · · · ·						
SUZ5	Warragul East Bulky Goods Precinct	3					
UGZ1	Warragul Precinct Structure Plan	1					
UGZ2	Drouin Precinct Structure Plan	1					
Benalla (Benalla	a)						
SUZ1	Defence Industries Benalla	3					
SUZ3	CAL Community Farm	1					
Campaspe (Ech	nuca)						
SUZ2	Private Schools	1					
SUZ3	Echuca Aerodrome	2					
Central Goldfie	lds (Maryborough)						
SUZ1	JZ1 Goldfields Reservoir, Ballarat Road, Maryborough						
SUZ2	Maryborough Golf Course	1					
Colac Otway (C	Colac)						
SUZ3	Dairy Food Production Plant - Connor and Murray Streets, Colac	3					

Local Governm	nent Area (Major Urban Area[s])	Designated type			
Zone code	Zone schedule description				
SUZ4	Colac Abattoir & Food Production Plant	3			
East Gippsland	I (Bairnsdale)				
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary				
<b>Glenelg</b> (Portlar	nd)				
SUZ1	Portland Special Education	1			
SUZ2	Golf Courses	1			
Greater Bendig	o (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 Geelon	g (Geelong, Drysdale - Clifton Springs, Lara, Leopold, Ocean Grove - Ban	won 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					
UGZ3	Armstrong Creek West Precinct Structure Plan September 2012	1			

Local Governm	Designated type						
Zone code	Zone schedule description						
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)						
Greater Shepp	arton (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 (Hors	sham)						
SUZ1	Horsham Golf Course	1					
SUZ4	Horsham Showgrounds	2					
SUZ8	Horsham Artist in Residence	1					
Latrobe (Moe -	Newborough, Traralgon, Morwell)						
SUZ1	Brown Coal	3					
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 range	es (Gisborne)						
SUZ4	Private Hospital	2					
<b>Mildura</b> (Mildura	a)						
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 (Yarrawo	<u> </u>						
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary						

Local Governm	Designated type					
Zone code	Zone schedule description					
<b>Moorabool</b> (Ba	cchus Marsh)					
SUZ1	Coal Mining	3				
SUZ2	Earth and Energy Resources Industry	3				
SUZ3	Golf Courses	1				
SUZ4	Bacchus Marsh Grammar School	1				
Mount Alexand	er (Castlemaine)	-				
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary					
<b>Moyne</b> (Warrna	mbool)					
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary					
Southern Gram	ipians (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 (Tor	quay - 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					
Swan Hill (Swa	n Hill)					
	No specific zones within this major urban area or within 200 m outside of the major urban area boundary					
<b>Wangaratta</b> (W	,					
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				

Local Governme	Designated type					
Zone code	Zone schedule description	type				
SUZ3	Warrnambool West Industrial Precinct - Transition Area	2				
Wellington (Sale						
SUZ3	Lake Guthridge Precinct	1				
SUZ6	Sale Greyhound Racing Facility	2				
Wodonga (Wodo	Wodonga (Wodonga)					
SUZ1	Gateway Island	1				
SUZ2	Golf Courses and Associated Development	1				
UGZ1	1					

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

- (136) This annex is for use with the rural area method for determining noise limits for commercial, industrial and trade premises.
- (137) 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:
  - a. the **generating zone** is the land use zone in which the premises being assessed is located;
     and
  - b. the receiving zone is the land use zone in which the noise sensitive area is located.
- (138) In Table B.1, zones specific to the relevant planning scheme are categorised in five groups A to E 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) and Urban Growth Zone (UGZ). The group designation for the specific zone within a planning scheme is given in Table B.2.
- (139) 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.
- (140) 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):
  - a. horticulture and timber production (in crop raising); and
  - b. intensive animal production, pig farm, poultry farm and poultry hatchery (in animal production: animal husbandry).
- (141) The public-use zones (PUZ) are grouped as:
  - a. Service & Utility (PUZ1), Health & Community (PUZ3), Transport (PUZ4), Local Government (PUZ6) and Other Public Use (PUZ7); and
  - b. 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		Public Park and Conservation PPCZ Public Use 2 & 5		Farming Zone FZ Green Wedge GW General Residential Zone GRZ Neighbour Residential Zone NRZ Residential Growth Zone RGZ, Rural Activity Zone RAZ, Township Zone TZ Urban Growth Zone before an incorporated precinct structure plan UGZ		Commercial 1 Zone C1Z B1Z B2Z B5Z Commercial 3 Zone C3Z Mixed use Zone MUZ Activity Centre Zone ACZ Public Use Zone 1,3,4,6&7 PUZ1 PUZ3 PUZ4 PUZ6 & PUZ7 Road RDZ1 RDZ2		Industrial 3 IN3Z		Commercial 2 Zone C2Z B3Z B4Z		Industrial 2 Zo Industrial 1 Zo	
	Group E CDZ, SUZ	& UGZ (*)			Group B CDZ, SU	Z & UGZ (*)	Group A CDZ, St	JZ & UGZ (*)	Group C CDZ, SU	IZ & UGZ (*)			Group D CDZ, SU	JZ, UGZ (*)
Low Density Residential LDRZ Public Conservation and Resource PCRZ Public Park and Conservation PPCZ Public Use 2,5 PUZ2 & PUZ5 Urban Floodway UFZ  Group E CDZ, SUZ & UGZ (*)	Day	45	Day	45	Day	45	Day	47	Day	48	Day	50	Day	53
	Evening	37	Evening	39	Evening	40	Evening	42	Evening	43	Evening	45	Evening	48
	Night	32	Night	34	Night	35	Night	37	Night	38	Night	40	Day	43
Farming FZ (*) Green Wedge GWZ, Green Wedge A GWAZ Public Use 2 & 5 PUZ2, PUZ5 Rural Activity RAZ Rural Conservation RCZ Rural Living RLZ Urban Growth Zone before an incorporated precinct structure plan (UGZ) Group B CDZ, SUZ & UGZ (*)	Day	45	Day	45	Day	46	Day	48	Day	50	Day	52	Day	54
	Evening	38	Evening	40	Evening	41	Evening	43	Evening	45	Evening	47	Evening	49
	Night	33	Night	35	Night	36	Night	38	Night	40	Night	42	Night	44
Commercial 1 CZ1 B1Z B2Z BZ5 Mixed Use MUZ Activity Centre Zone ACZ Public Use 1,2,3,4,6 & 7 PUZ1 PUZ3 PUZ4 PUZ6 PUZ7  Group A CDZ, SUZ & UGZ (*)	Day	45	Day	47	Day	48	Day	50	Day	52	Day	53	Day	55
	Evening	40	Evening	42	Evening	43	Evening	45	Evening	47	Evening	48	Evening	50
	Night	35	Night	37	Night	38	Night	40	Night	42	Night	43	Night	45
Industrial 3 IN3Z  Group C CDZ, SUZ & UGZ (*)	Day	46	Day	49	Day	50	Day	52	Day	53	Day	55	Day	56
	Evening	41	Evening	44	Evening	45	Evening	47	Evening	48	Evening	50	Evening	51
	Night	36	Night	39	Night	40	Night	42	Night	43	Night	45	Night	46
Commercial 2 C2Z, B3Z, B4Z Commercial 3 C3Z	Day Evening Day	48 43 38	Day Evening Night	50 45 40	Day Evening Night	52 47 42	Day Evening Night	54 49 44	Day Evening Night	55 50 45	Day Evening Night	56 51 46	Day Evening Night	57 52 47
Industrial 1, 2 IN1Z IN2Z  Group D CDZ, SUZ & UGZ (*)	Day	50	Day	52	Day	53	Day	55	Day	56	Day	57	Day	58
	Evening	45	Evening	47	Evening	48	Evening	50	Evening	51	Evening	52	Evening	53
	Night	40	Night	42	Night	43	Night	45	Night	46	Night	47	Night	48

<sup>(\*)</sup> For Comprehensive Development Zone (CDZ), Special Use Zone (SUZ) and Urban Growth Zone (UGZ) refer to Table B.2.

Table B.2: Designation of table B.1 groups for zones and reservations specific to the relevant planning schemes for local government areas within rural areas.

Local Governm	Group		
Zone code	Zone schedule description		
Alpine			
SUZ1	Dinner Plain – Village Area	В	
SUZ2	Dinner Plain Service and Recreation	Α	
SUZ3	GPU Powernet Pty Ltd Terminal Stations	С	
SUZ4	Bogong Power Development Project	С	
SUZ5	Mount Beauty Aerodrome and Air Park	Α	
Alpine Resorts			
CDZ1	Alpine Village	В	
CDZ2	Alpine Recreation	В	
Ararat			
SUZ1	Former Aradale Site	Α	
SUZ2	Powercor Terminal Station	С	
SUZ3	Jallukar Hills Wine Village	В	
Ballarat			
SUZ1	Flora and Fauna Wildlife Park	В	
SUZ2	Emergency Services	Α	
SUZ3	Sovereign Hill Museums Association	Α	
SUZ4	Ballarat Showgrounds	Α	
SUZ5	Private Education Establishment	В	
SUZ6	Ballarat Airfield	С	
SUZ7	Racecourse	Α	
SUZ8	Mining and Related Activities	D	
SUZ9	Eureka Historic Precinct	Α	
SUZ10	Recreation	E	
SUZ11	Ballarat Golf Course	В	
SUZ12	St. John Of God Hospital	Α	
SUZ13	Thoroughbred Horse Training Facilities	В	
SUZ14	Ballarat West Employment Zone (BWEZ)	С	
SUZ15	Central Victoria Livestock Exchange	С	
SUZ16	Ballarat Railway Station Precinct Redevelopment – Stage One	А	
CDZ1	Comprehensive Development Zone	В	
UGZ1	Alfredton West Precinct Structure Plan (2011)	В	
UGZ2	Ballarat West Precinct Structure Plan	В	
Bass Coast			
SUZ1	Phillip Island Motor Racing Track	С	
SUZ2	Earth and Energy Resources Industry	С	

Local Governm	Group	
Zone code	Zone schedule description	
SUZ3	Wonthaggi Motor Racing Track	С
SUZ5	Inverloch RACV Resort	В
SUZ6	Silverwater Resort, San Remo	В
CDZ1	Cape Paterson Ecovillage	В
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	В
UGZ2	Drouin Precinct Structure Plan	В
Benalla		
SUZ1	Defence Industries Benalla	D
SUZ2	Winton Motor Raceway	С
SUZ3	Cal Community Farm	В
SUZ4	Glenrowan Terminal Station	Α
Buloke	1	
	No specific zones	
Campaspe		
SUZ1	Gunbower Wastewater Treatment Facility and Reuse Scheme	В
SUZ2	Private Schools	В
SUZ3	Echuca Aerodrome	С
Central Goldfie	lds	
SUZ1	Goldfields Reservoir, Ballarat Road, Maryborough	E
SUZ2	Maryborough Golf Course	В
Colac Otway		
SUZ1	Apollo Bay Airfield	С
SUZ2	Apollo Bay Harbour	С
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	Α
SUZ6	Mount Elephant	E
SUZ7	Wattle Hill	E

Local Governm	nent Area Planning scheme	Group
Zone code	Zone schedule description	
SUZ8	Glenormiston College	В
SUZ9	Port Campbell West	В
SUZ10	Naroghid Refuse Disposal, Transfer and Recycling Facility	С
East Gippsland		
SUZ1	Bullock Island, Lakes Entrance	В
SUZ2	Lake Tyers Aboriginal Trust	В
SUZ3	Earth and Energy Resources Industry	С
SUZ4	Patricia Baleen Gas Plant	D
CDZ1	Nerana Resort & Marina Concept Plan	Α
French Island a	and Sandstone Island	
	No specific zones	
Gannawarra		
SUZ1	Private Educational or Religious Institutions	В
SUZ2	Private Golf Course	В
SUZ3	Arbuthnot Timber Mill	С
SUZ4	Caravan Park	В
Glenelg		
SUZ1	Portland Special Education	В
SUZ2	Golf Courses	В
SUZ3	Dutton Way	В
SUZ5	Heywood Pulp Mill	D
SUZ6	Lake Condah and Lake Condah Mission Site	E
Golden Plains		
SUZ1	Refuse Disposal	С
SUZ2	Regional Refuse Disposal	С
SUZ3	Lethbridge Airport	С
SUZ4	Bannockburn Golf Course	В
Greater Bendig	10	
SUZ1	Private Educational or Religious Institutions	В
SUZ2	Private Hospital	В
SUZ3	Television or Radio Station	В
SUZ4	Private Sport and Recreation Facilities	В
SUZ5	Racing Facilities	A
SUZ6	Tourism Facility	В
SUZ7	Bendigo Airport	С
SUZ8	Showgrounds	A
SUZ9	Bus Depot	Α

Local Governm	nent Area Planning scheme	Group	
Zone code	Zone schedule description		
SUZ10	Girton Grammar School, Junior and Senior Campuses, Vine, Wattle and Mackenzie Streets, Bendigo	В	
SUZ11	Holdsworth Road Open Space/Recreation Area	E	
SUZ12	Electricity Terminal Station A		
CDZ1	Fortuna Comprehensive Development Plan	В	
CDZ2	Atisha Comprehensive Development Plan	В	
CDZ3	Marong Business Park Comprehensive Development Plan	С	
Greater Geelon	ng		
SUZ1	Environmental Wetlands, Salt Production and Land-Based Aquaculture Activities	А	
SUZ3	Private Golf Courses	В	
SUZ4	Geelong Showgrounds and Racecourse, and Beckley Park	Α	
SUZ5	Eastern Park	В	
SUZ7	Earth and Energy Resources Industry	С	
SUZ8	Goandra Land, Thacker Street, Ocean Grove	E	
SUZ9	Correctional Programs Centre at Lara	В	
SUZ11	Avalon Airport	D	
SUZ12	Lara Energetic Materials Manufacturing Plant	D	
SUZ13	Drysdale Regional Community and Cultural Hub	Α	
SUZ14	Private Teaching Hospital and Education Precinct	Α	
SUZ15	Private Education Centre	В	
SUZ16	Privately Owned Utility Installations	D	
SUZ17	Chisholm Road Prison Project, Lara	В	
CDZ1	Thirteenth Beach Resort	В	
CDZ2	Rippleside Comprehensive Development Plan	В	
CDZ3	Adventure Park Comprehensive Development Plan	Α	
UGZ1	Armstrong Creek North East Industrial Precinct, Precinct Structure Plan (May 2010)	С	
UGZ2	Armstrong Creek East Precinct Structure Plan (May 2010, Amended November 2011) and Armstrong Creek South Precinct Structure Plan (February 2016)	В	
UGZ3	Armstrong Creek West Precinct Structure Plan September 2012	В	
UGZ4	Armstrong Creek Horseshoe Bend Precinct Structure Plan, September 2014	В	
UGZ5	Armstrong Creek Town Centre Precinct Structure Plan	Α	
UGZ6	Lara West Precinct Structure Plan (2013)	В	
Greater Sheppa	arton		
SUZ1	Shepparton Showgrounds	Α	
SUZ2	Tatura Showgrounds	Α	
SUZ3	Tatura Racecourse	Α	
SUZ4	Goulburn Valley Harness and Greyhound Racing Precinct	Α	

Local Governm	nent Area Planning scheme	Group
Zone code	Zone schedule description	
SUZ6	GV Link Freight Logistics Centre	D
SUZ7	Emerald Bank Tourism Precinct	А
SUZ8	Private Education Establishments	В
SUZ9	Tatura Milk Industries – Hogan Street, Tatura	D
SUZ10	Kialla Private School	В
SUZ11	Unilever Manufacturing Site, 55 Park Street, Tatura	D
UGZ1	Shepparton North East Precinct Structure Plan	В
Hepburn		
SUZ1	Golf Courses	В
SUZ2	Creswick Golf Course	В
SUZ3	Daylesford Lawn Tennis Club	В
Hindmarsh		
	No specific zones	
Horsham		
SUZ1	Horsham Golf Course	В
SUZ2	Horsham Airport	С
SUZ3	Dooen Freight Hub	D
SUZ4	Horsham Showgrounds	А
SUZ5	Wimmera Events Centre	Α
SUZ6	Earth and Energy Resources Industry	С
SUZ8	Horsham Artist in Residence	В
SUZ9	Wimmera Intermodal Freight Terminal Precinct	D
Indigo		
SUZ1	Beechworth Prison Farm	В
SUZ2	Plemings Road, Barnawartha – Renewable Energy (Biodiesel) and Rendering Facility	С
Latrobe		
SUZ1	Brown Coal	D
SUZ2	Traralgon car sales precinct	Α
SUZ3	Gippsland Heritage Park	Α
SUZ4	Victor Street Exchange	В
SUZ6	Earth and Energy Resources Industry	С
SUZ7	Latrobe Regional Airport	С
SUZ8	Health and Complementary Uses Precinct	Α
UGZ1	Lake Narracan Precinct Structure Plan	В
Loddon		
	No specific zones	
Macedon Rang	es	

Local Government Area Planning scheme Group		
Zone code	Zone schedule description	
SUZ1	Private Schools	В
SUZ2	Racecourses	А
SUZ3	Private Golf Courses	В
SUZ4	Private Hospital	Α
SUZ5	Riddells Creek Health, Education and Community Precinct	Α
SUZ7	Horse Training and Equine Services Precinct	В
Mansfield		
SUZ1	Mountain Bay	Α
Melton		
SUZ1	Earth and Energy Resources Industry	С
SUZ3	Terminal Stations	D
SUZ5	Leakes Road Tourist Precinct	А
SUZ6	Remand Centre at Truganina	В
SUZ7	Melton Harness Racing Centre	Α
SUZ8	Prison Precinct	В
SUZ9	Kororoit Precinct Structure Plan - Electricity Easement	Α
SUZ10	Plumpton Precinct Structure Plan - Electricity Easement	Α
SUZ11	Mt Atkinson & Tarneit Plains Precinct Structure Plan - Electricity Easement	С
CDZ1	Caroline Springs Town Centre Area	Α
UGZ1	Taylors Hill West Precinct Structure Plan	В
UGZ2	Melton North Precinct Structure Plan	В
UGZ3	Toolern Precinct Structure Plan	В
UGZ4	Rockbank North Precinct Structure Plan	В
UGZ5	Diggers Rest Precinct Structure Plan	В
UGZ6	Toolern Park Precinct Structure Plan	В
UGZ7	Rockbank Precinct Structure Plan	Α
UGZ8	Payne's Road Precinct Structure Plan	В
UGZ9	Mt Atkinson & Tarneit Plains Precinct Structure Plan	Α
UGZ11	Plumpton Precinct Structure plan	В
UGZ12	Kororoit Precinct Structure Plan	В
Mildura		
SUZ1	Private Education and Religious Establishments	В
SUZ2	Tourist Precincts	Α
SUZ3	Mildura Marina	В
SUZ4	Mildura Hospital	Α
SUZ5	Essential Service Utilities	Α
SUZ6	Red Cliffs Caravan Park	В

Local Governn	nent Area Planning scheme	Group
Zone code	Zone schedule description	
SUZ7	Mildura Airport	С
SUZ8	Mildura – Irymple Urban Transition Area	В
SUZ9	Mildura – Irymple Urban Transition Area	А
SUZ10	Bioenergy Power Plant, Carwarp	D
CDZ1	Mildura Golf Resort Redevelopment Masterplan, June 2012	В
UGZ1	Mildura South Precinct Structure Plan – Activity Centre	А
Mitchell		
SUZ1	Earth and Energy Resources Industry	С
SUZ2	State Motorcycle Sports Complex	С
SUZ3	Kilmore Racetrack	С
SUZ4	Private Educational or Religious Institutions	В
CDZ1	Hidden Valley Comprehensive Development Plan	В
CDZ2	Mandalay Comprehensive Development Plan	В
UGZ1	Lockerbie Precinct Structure Plan	А
UGZ2	Lockerbie North Precinct Structure Plan	В
UGZ4	Donnybrook-Woodstock Precinct Structure Plan	В
UGZ5	Beveridge Central Precinct Structure Plan	В
Moira		
SUZ1	Green Palms Village, Cobram	В
Moorabool		
SUZ1	Coal Mining	D
SUZ2	Earth and Energy Resources Industry	С
SUZ3	Golf Courses	В
SUZ4	Bacchus Marsh Grammar School	В
SUZ5	Shaws Road, Ballan Tourism Precinct	В
CDZ1	Sir Jack Brabham Park	С
Mornington Pe	ninsula	
MUZ	Mornington Peninsula Mixed Use Areas	A
SUZ1	Port Related Uses	D
SUZ2	Private Sportsgrounds, Religious, Health and Educational Establishments	В
SUZ3	Airfield Development	С
SUZ4	Recreational Development	В
SUZ7	Flinders Christian Community College	В
SUZ8	Ranelagh Estate Open Spaces	В
SUZ9	Yaringa Boat Harbour	А
CDZ1	Moonah Links Comprehensive Development Plan	В
Mount Alexand	ler	

Local Governn	nent Area Planning scheme	Group
Zone code	Zone schedule description	
	No specific zones	
Moyne		
SUZ1	Mortlake Power Station	D
SUZ2	Lake Condah	E
SUZ3	Warrnambool Regional Airport	С
SUZ4	Extractive Industry	С
SUZ5	Shaw River Power Station	D
SUZ6	Tarrone Power Station	D
Murrindindi		
SUZ1	Eildon Switchyard	A
SUZ2	Major Tourism Facility, Marysville	В
Northern Gram	pians	
SUZ1	Stawell Gold Mine	D
SUZ2	Earth and Energy Resources Industry	С
Pyrenees		
SUZ1	Private Golf Club (Beaufort)	В
Queenscliff		
SUZ1	Queenscliff Harbour	A
SUZ2	Private Minor Sports and Recreation Facilities	В
SUZ3	Queenscliff Ferry Terminal	A
South Gippsla	nd	
SUZ1	Earth and Energy Resources Industry	С
SUZ2	Waratah Park Tourist Facility	A
SUZ3	Port Areas	С
SUZ4	Wilsons Promontory Gateway Tourist Facility	A
SUZ5	SPI Electricity Pty Ltd Leongatha Depot	С
SUZ6	Koonwarra Agricultural Services Precinct	С
SUZ7	Camping and Caravan Park	В
Southern Gran	npians	
SUZ1	Private Educational Institutions	В
SUZ2	Private Golf Course	В
SUZ3	Mount Baimbridge Road, Hamilton	С
SUZ4	Office and Communications Centre	A
SUZ5	RMIT Hamilton	В
SUZ6	Hamilton Airport	С
SUZ7	Western Speedway Hamilton	С
Surf Coast		1
SUZ1	Alcoa Lease Land	D

Local Governme	ent Area Planning scheme	Group
Zone code	Zone schedule description	
SUZ2	Anglesea Vehicle Proving Ground	С
SUZ3	Anglesea Heathland	E
SUZ4	Torquay Community Development Precinct	Α
SUZ5	Torquay Tourism Development Precincts	Α
SUZ6	Lorne Refuse Disposal	С
SUZ7	Golf Courses	В
SUZ8	Anglesea Tourism Development Precincts	В
SUZ9	Surf Coast Christian College Campus	В
CDZ2	The Sands Torquay Residential Lakes and Golf Course Comprehensive Development Plan	В
CDZ3	Cape Otway Road Australia (CORA)	Α
Strathbogie		
SUZ1	Mangalore Airport	С
SUZ2	Freeway Service Centre	Α
SUZ3	Costa Exchange Mushroom Farm and Composting Facility – 347 Zanelli Road,	D
CDZ1	Lake Nagambie Resort Master Plan - 25028Dd A1-001-Q	В
Swan Hill		
SUZ1	Abattoir	D
SUZ2	Swan Hill Clay Target Club	С
SUZ3	Education Centre and Accommodation Facility	В
SUZ4	Two Bays Roadhouse and Caravan Park, Nyah	В
SUZ5	Jack Chisholm Reserve Motor Sports Facility	С
Towong		
	No specific zones	
Wangaratta		
SUZ1	Showgrounds	Α
SUZ2	Racecourse	Α
SUZ3	Avian Park Sport and Recreation Hub	Α
SUZ4	Golf Course	В
SUZ5	Galen College – The Farm	В
SUZ6	South Wangaratta Civic Precinct	Α
SUZ7	Reith Road Equine Precinct	В
Warrnambool		
SUZ1	Warrnambool Racecourse	А
SUZ2	Warrnambool Showgrounds	Α
SUZ3	Warrnambool West Industrial Precinct - Transition Area	С
Wellington		
SUZ1	West Sale Airport	С

Local Government Area Planning scheme		Group
Zone code	Zone schedule description	
SUZ2	Fulham Prison	В
SUZ3	Lake Guthridge Precinct	E
SUZ4	Firebrace Road Transition Zone	С
SUZ5	Firebrace Road Group Accommodation Area	В
SUZ6	Sale Greyhound Racing Facility	Α
CDZ1	Sale Golf Club Redevelopment Comprehensive Development Plan	В
West Wimmera		
SUZ1	Racecourse	Α
SUZ2	Golf Course	В
SUZ3	Edenhope Aerodrome	С
Wodonga		
SUZ1	Gateway Island	В
SUZ2	Golf Courses and Associated Development	В
UGZ1	Urban Growth Zone	В
Yarra Ranges		
SUZ1	Earth and Energy Resources Zone	С
SUZ2	Major Tourist Facility	Α
SUZ3	Airfield	С
SUZ4	Educational Facility	В
SUZ5	Chirnside Park Country Club	В
SUZ6	Extractive Resource Environmental Buffer	В
SUZ7	Billanook College	В
SUZ8	Little Yarra Steiner School	В
SUZ9	Eastern Golf Club	В
SUZ10	Lots 7 and 8 Lp127612 Maroondah Highway Coldstream	Α
SUZ11	Burnham Beeches Residential Hotel and Resort	А
Yarriambiack		
SUZ1	Racecourse	А
SUZ2	Showgrounds	Α
SUZ3	North Western Agricultural Machinery Museum	Α

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

- (142) 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).
- (143) The objective tonal adjustment method is conducted using one-third octave band analyses of several samples from an A-weighted sound pressure level measurement.
- (144) 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.
- (145) 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.
- (146) 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:
  - a. Determine the A-weighted band level as the L<sub>Aeq</sub> for each one-third octave band, rounded to the one decimal place.
  - b. For each one-third octave band, calculate the band exceedance (BE<sub>i</sub>) 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:

$$BE_i = L_{Ai} - \frac{L_{A(i-1)} + L_{A(i+1)}}{2}$$
 dB (Equation 3)

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

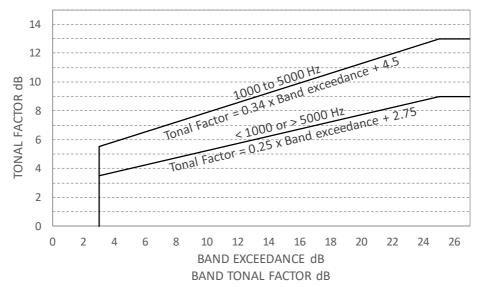


Figure C.1: Determination of tonal factors for objective tonal assessment

(148) 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.

(149) Calculate a tone-corrected level L<sub>TC</sub> 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:

$$L_{TC} = 10 \log_{10} \sum_{i=1}^{j} 10^{(L_{Ai} + TF_i)/10}$$
 dB(A) (Equation 4)

- (150) For each sample, calculate the difference between the tone-corrected level and the uncorrected overall  $L_{Aeq}$  of the sample, rounded to one decimal place.
- (151) 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.
- (152) 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 L <sub>Aeq</sub>	Adjustment
< 0.5 dB	0 dB
0.5 dB to 3.4 dB	+ 2 dB
≥ 3.5 dB	+ 5 dB