Caravan Park Fire Safety Guidelines

CFA's minimum requirements for Tourist and Residential (Part 4A) parks

OUR COMMUNITY . OUR CFA



April 2024 CFA Specialist Risk and Fire Safety Unit

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Foreword

CFA plays a vital part in ensuring the risk to life and property from fire is minimised in the country area of Victoria. To enable this, CFA has legislative responsibilities and obligations under various Acts and Regulations, with the intent of **protecting lives and property from fire**.

Caravan parks are an iconic part of the Australian landscape and have become major providers of short and longterm accommodation. Parks provide a variety of self-contained cabins, powered sites for tourist caravans and tent sites for camping enthusiasts. Many also provide an affordable holiday-home alternative. Others provide residential villages for permanent living, with a strong sense of community. CFA recognises the diversity of caravan parks in siting, design, occupancy and operational activities, and that fire safety risks and resources in caravan parks can vary dramatically across our Victoria.

The intent of this guideline is to improve safety in all caravan parks and sites subject to the *Residential Tenancies Act 1997*, whether they provide short-term tourist van sites, residential villages, or holidayhome accommodation. This updated edition of the CFA Caravan Park Fire Safety Guidelines responds to an ongoing need within the caravan park community to provide a safe environment for occupants and provide firefighters with the ability to safety and effectively respond to emergencies. It provides a consistent framework to address identified fire risks in both new and existing caravan parks.

CFA would like to acknowledge the support provided by the Victorian Caravan Parks Association, the Municipal Association of Victoria and various Victorian government departments and agencies for their support with the review of these guidelines.



Jason Heffernan CFA Chief Officer

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Please Note:

This document, the CFA Caravan Park Fire Safety Guidelines 2024, supersedes the CFA Caravan Park Fire Safety Guidelines 2012.

Introduction

Within the state of Victoria, the construction, site layout and facilities within caravan parks are regulated by the <u>Residential Tenancies (Caravan Parks and</u> <u>Movable Dwellings Registration and Standards)</u> <u>Regulations 2020</u> (the Regulations). The Regulations are given effect by the <u>Residential Tenancies Act 1997</u> (the Act).

In relation to fire safety, the Regulations provide for:

- Standards of design, construction and installation and maintenance of movable dwellings in caravan parks.
- Standards for facilities and services in caravan parks.
- The health and safety of residents and short term occupiers of caravan parks.

The Regulations reference CFA's Caravan Park Fire Safety Guidelines (*the CFA guidelines*) for technical specifications and methods for achieving fire safety compliance. The CFA guidelines represent an appropriate method for establishing the minimum requirements for fire safety and emergency management to comply with the Act and the Regulations.

The <u>Country Fire Authority Act 1958</u> imposes a legal obligation on CFA to take all necessary steps for the prevention and suppression of fires and for the protection of life and property in case of fire in the country area of Victoria.

Who is this guideline for?

The CFA guidelines assist designers of new caravan parks, and owners and operators of existing caravan parks, to meet the requirements for fire safety when designing new or redeveloping existing caravan parks throughout Victoria.

The CFA guideline applies to:

- New caravan parks.
- Established caravan parks.
- New land lease developments (e.g., residential parks).
- Existing land lease developments.
- Any other site or development that must comply with Part 515A and Division 3A of the <u>Residential</u> <u>Tenancies Act 1997</u>.

Fire Services in Victoria

Within the state of Victoria, there are three fire services responsible for fire suppression, prevention and emergency management.

Country Fire Authority (CFA) is a volunteer-based fire service that operates in the country area of Victoria (CAoV). The CAoV means that part of Victoria which lies outside the Fire Rescue Victoria fire district, but does not include any forest, national park or protected public land.

CFA focuses on fire protection for peri-urban and rural communities, including bushfire management, structural fire suppression, community education, and emergency response.

CFA works closely with local communities, providing fire safety information, conducting fire prevention programs, and coordinating firefighting efforts during emergencies.

Fire Rescue Victoria (FRV) serves metropolitan Melbourne and its urban outskirts, and some large regional cities across Victoria. It is a fully career firefighting service that primarily focuses on structural firefighting, hazardous materials incidents, and urban fire safety.

FRV responds to fires, rescues, and other emergencies in urban areas, including residential, commercial, and industrial buildings.

Forest Fire Management Victoria (FFMV) reduces the risk and impact of bushfires on Victoria's parks, forests and other public land.

The fire services work in collaboration with other emergency services, such as Victoria Police and Ambulance Victoria to provide a coordinated response to emergencies.

The Regulations require compliance with the CFA guidelines. However, caravan parks within the FRV fire district should have regard to any advice from FRV regarding <u>caravan park fire safety</u>.

What's new in this version?

This update builds on the *CFA Caravan Park Fire Safety Guidelines 2012,* developing and refining previous advice based on findings from CFA's extensive inspection and approval regime across the state over more than a decade.

Recognising the community need for a flexible and workable approach to achieving compliance, and ensuring that a consistent approach is applied statewide, this guideline sets realistic fire safety **objectives** that must be met through **performance measures**, which are mandatory minimum standards for fire safety.

The performance measures are achievable through the application of *prescriptive provisions*, or where existing sites are unable to meet these provisions, development of evidence-based risk controls that provide an equivalent level of fire safety to the satisfaction of CFA.

Land lease developments, commonly referred to as residential parks or lifestyle developments, are now commonplace. Part 4A of the <u>Residential Tenancies Act</u> <u>1997</u> regulates long-term land lease arrangements for movable dwellings.

Under Part 4A, a land lease development is a residential park that provides long-term occupancy of a site for a movable dwelling. The development must be registered with the relevant responsible authority as a caravan park and comply with the Regulations.

This guideline is applicable to residential parks and has been designed to provide protections for residents of land lease developments, while also ensuring that park operators are able to effectively manage and maintain the park to a high standard.



How do I use this guideline?

To protect lives and property from fire, fire risk must be identified and managed at all caravan parks. CFA has developed fire risk management **objectives** that must be met. This guideline provides the mandatory minimum standards for meeting the objectives, by facility type.

Facility Types

All Parks

Indicates requirements for all caravan parks.

Tourist Parks

Indicates requirements for tourist parks only.

A **tourist park** means a caravan park (or parts of the park) which includes long-term sites, short-term sites, or sites for non-residential purposes.

Residential Parks

Indicates requirements for residential parks only.

A **residential park** means a caravan park or land lease village (sometimes referred to as a lifestyle village) where land is rented or leased to residents under Part 4A site agreements.

Where there's a combination of short-term, long-term and residential sites within the one park (a 'mixed use park'), the prescriptive provisions for a **Tourist Park** should be applied.

Where requirements apply to types of parks with particular characteristics (such as 'reticulated water'), this is specified in the facility type banner:

All Parks - Reticulated Water

All Parks - Non-Reticulated Water

Legislative Compliance

It is the responsibility of caravan park owners to ensure that the legislative requirements are met, and the caravan park is operated in accordance with the registration issued by the responsible authority.

Compliance with legislative requirements must be achieved regardless of whether *performance measures* or *prescriptive provisions* are used.

Greenfield Developments and New Works in Existing Parks

To ensure the intent of the CFA guideline is met and to promote continual improvement in fire safety, CFA's expectation is that any new works meet the **prescriptive provisions**. There are no preexisting constraints for these sites that would limit compliance with these measures and intent of the **objectives**. Alternative risk controls will not be considered.

Planning Considerations

State planning policy at Clause 13.02 within the <u>Victoria Planning Provisions (VPPs)</u> requires bushfire to be considered in all planning applications in designated bushfire prone areas (BPA) and the Bushfire Management Overlay (BMO). For new works in caravan parks, applicants need to consider how they will mitigate the bushfire risk at the planning stage.

While the Regulations exempt UMD's from a Bushfire Attack Level (BAL) construction standard, for higher risk sites such as those within the Bushfire Management Overlay (BMO), CFA recommends considering applying construction standards as part of your bushfire risk management strategy.

In areas where there is a bushfire risk (including grassfire), emergency planning must take this into consideration (refer to <u>Section 6</u>).

Consultation with CFA

Councils generally seek the advice of the relevant fire authority in considering whether or not a caravan park owner has complied or is complying with fire and emergency management **objectives**, **performance measures** and **prescriptive provisions** of the CFA guideline.

Councils are required to have regard to the most recent report of the relevant fire authority in relation to the caravan park. Consultation with CFA by designers, owners, and operators prior to, during and following the development of reports under the Regulations may be required.

If a *Tourist Park* or *Residential Park* development meets all applicable *prescriptive provisions*, this is considered as *deem-to-satisfy*. Consultation with the fire service is not necessary during the design phase, unless required by a *prescriptive provision*. However, initial and periodic inspections and reporting by CFA to ensure the fire safety measures are being met is still required (refer to <u>Section 8</u>).

For existing sites, where risk controls other than the *prescriptive provisions* are used to meet the *performance requirements*, these must be to the satisfaction of CFA. Greenfield developments and new works in existing parks must meet the *prescriptive provisions*.

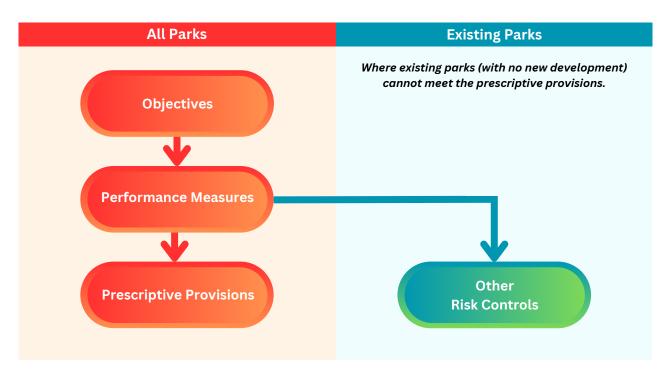


Figure 0: Applying the CFA guidelines.

Definitions

The Act means the Residential Tenancies Act 1997.

Allowable encroachments include:

- Non-combustible fascias, gutters and downpipes
- Light fittings, electricity meters, aerials, antennas
- Pergolas, sun blinds
- Unroofed and unwalled terraces, decks, landings, steps, and ramps, not more than 1 m in height
- Fence posts and rails
- Clothes lines
- Pedestrian gates
- Wall mounted hot water service, maximum 210mm deep

It does not include:

- Carports
- LP Gas cylinders
- Gas meters
- Hot water services and systems other than permitted above
- Water tanks
- Air conditioning units / condenser units
- Garden beds, pot plants, and the like
- Any structure or object that would impede access which has not been explicitly defined above

Battery Energy Storage System (BESS) has the same meaning as defined by <u>CFA's Design Guidelines and</u> <u>Model Requirements for Renewable Energy Facilities</u>.

Caravan Park has the same meaning as defined by the *<u>Residential Tenancies Act 1997</u>*.

Demarcation line means the boundary between residential sites. This may be defined by a fence but not always.

Electric Vehicle Supply Equipment (EVSE) means the equipment that gets the electricity from the fixed wires in the building to the vehicle. This is better known as an EV charger. Chargers come in three levels that affect charging speed and the required equipment and cables.

Fire brigade operations means all firefighter activities from the time of arrival at an incident, including setup, search and rescue, fire attack, extinguishment, and overhaul.

Habitable structure means a structure which contains one or more habitable rooms, as defined in the *National Construction Code*.

Ignition source means a source of energy sufficient to ignite a flammable atmosphere, including naked flames, smoking, electrical welding arcs, static electricity and equipment not suitable for use in particular hazardous zones, as defined in <u>Australian</u> <u>Standard 1596-2014: The storage and handling of LP</u> <u>Gas</u>.

Land lease development Under Part 4A, a land lease development is a residential park that provides long-term occupancy of a site for a movable dwelling.

Mixed use park means a caravan park with a combination of short-term, long-term and residential sites within the one park.

Movable dwelling means a dwelling that is designed to be movable and includes, but is not limited to, caravans, unregistrable movable dwellings (UMDs), annexes, tents, yurts and the like. It does not include a dwelling that cannot be situated at and removed from a place within 24 hours.

Part 4A park has the same meaning as defined by the Residential Tenancies Act 1997.

Part 4A site has the same meaning as defined by the *Residential Tenancies Act 1997.*

Regulations means the <u>Residential Tenancies</u> (<u>Caravan Parks and Movable Dwellings Registration</u> <u>and Standards) Regulations 2020</u>.

Relevant fire authority means:

a. Country Fire Authority; or*b.* Fire Rescue Victoria.Whichever is appropriate to the location of the site.

Residential park / residential village has the same meaning as a Part 4A park.

Responsible authority means the relevant municipal council and is responsible for enforcement of non-compliance with the Act and the Regulations.

Site is any place within the perimeter of the caravan park including those occupied by structures.

Site owner means the person by who owns the site under Part 4A. This is usually the park owner or operator, but not always.

Structure includes a caravan, movable dwelling, unmovable dwelling, yurt (or similar), or an ancillary/service building.

Thermal runaway has the same meaning as defined by <u>CFA's Design Guidelines and Model Requirements for</u> <u>Renewable Energy Facilities</u>.

Tourist Park means a caravan park (or parts of the park) which includes long-term sites, short-term sites, or sites for non-residential purposes.

Unregistrable movable dwelling (UMD) has the same meaning as defined by the <u>Residential Tenancies Act</u> <u>1997</u>.

Qualitative means an argument based on comparative reasoning (i.e., expert judgement or opinion).

Quantitative means an argument based on numerical analysis (i.e., design computations or data).

Please Note:

Where legislation, Standards and guidance documents are referenced in this guideline, their use is not precluded where they are updated from time-to-time.

Part 1: CFA standards of design, construction and installation

1. Firefighting Equipment

Objective 1

Appropriate firefighting equipment must be provided within caravan parks to enable:
a. Park residents and site tenants to undertake an initial fire attack where safe to do so, and
b. The fire service to undertake fire brigade operations, as necessary.

Relevant Regulations: Regulations 19, 34, 35 and 36

1.1 Occupant Fire Equipment

Performance Measure

- **1.** Occupant fire equipment must be provided:
- **a.** Appropriate to the identified risks.
- **b.** In locations accessible to all occupants.
- c. With compliant signage.

Rationale

Occupants must be notified of a fire as soon as possible and provided with the opportunity to extinguish it or reduce fire spread prior to the arrival of fire services if it is safe to do so.

Occupant fire equipment must be reliable, effective, and fit-for-purpose. Fire service response times in regional areas can be increased because of distance and resources, therefore occupant intervention may be critical in reducing the size and impact of fire.



Prescriptive Provisions

Residential Parks

- **1.** Each residential structure within the residential park must be provided with:
- Portable fire extinguishers, selected and installed in accordance with <u>AS 2444-2001</u>: <u>Portable fire extinguishers and fire blankets</u> (including signage).
- **b.** Fire blankets selected and installed in accordance with <u>AS 2444</u> (including signage).
- c. Smoke alarms are to be provided in accordance with <u>AFAC's Smoke Alarms in Residential</u> <u>Accommodation Guideline (2024)</u>. Smoke alarms are to comply with <u>AS 3786-2023: Smoke alarms</u> <u>using scattered light, transmitted light or</u> <u>ionization</u> (battery operated or hardwired).
- **2.** In all other structures occupant fire equipment must be provided as per the NCC.

Tourist Parks

- **1.** Each residential structure within the caravan park must be provided with:
- Portable fire extinguishers, selected and installed in accordance with <u>AS 2444-2001</u>: <u>Portable fire extinguishers and fire blankets</u> (including signage).
- **b.** Fire blankets selected and installed in accordance with <u>AS 2444</u> (including signage).
- c. Smoke alarms are to be provided in accordance with <u>AFAC's Smoke Alarms in Residential</u> <u>Accommodation Guideline (2024)</u>. Smoke alarms are to comply with <u>AS 3786-2023: Smoke alarms using scattered light, transmitted light or ionization</u> (battery operated or hardwired).
- 2. Each site must be provided with fire hose reels that are fit-for-purpose and provide full coverage when fully extended and laid to avoid any physical barriers.
- Fire hose reels are to be installed in accordance with <u>AS 2441-2005: Installation of fire hose reels</u> as if they were being installed to a building, and:
- **a.** Be of no more than 36 metres in length.
- **b.** Be provided with protection from the weather.

1.2 Fire Authority Equipment

Performance Measures

1. Firefighting infrastructure must be provided for use by the relevant fire authority:

- **a.** Appropriate to the likely fire services response.
- **b.** Appropriate to the identified risks and hazards.

c. At operable locations acceptable to the relevant fire service.

d. With fittings appropriate to the relevant fire service.*e.* With appropriate signage and markers.

Rationale

Fire hydrants are the most effective means of supplying the high volumes of water required by fire brigades. Although responding brigades may include tankers, the amount of water they carry may be insufficient to control or extinguish a fire.

Where reticulated water supply is not available, fire brigades may use on-site stored water or 'static' supply. Parks in these areas must provide adequate water to conduct operations to essentially be selfsufficient for the duration of the fire.

As many parks are located within a Bushfire Prone Area, tank/s must be constructed of non-combustible materials in accordance with <u>AS 2419.1-2021: Fire</u> <u>hydrant installations</u>.

Under the Victoria Planning Provisions, nonreticulated residential sites should be provided with adequate water supply for firefighting purposes, generally 10,000 litres.

The provision of 72,000 litres supplied via a hydrant system acknowledges the 'clustered' nature of moveable dwellings within caravan parks. Allowing for strategic water supply in this way rather than 10,000 litres per site ensures sufficient water is available.

Hose lengths are determined by operational capacity. Longer lengths create difficulties with set-up time and manoeuvrability and reduce hydraulic performance. Larger caravan parks may be required to provide multiple static water supply tanks to achieve coverage.

Where the design includes fire water and domestic water from a shared main, the risks associated with this design must be mitigated (eg., through the use of pressure-reducing valves, designed by a hydraulic engineer).

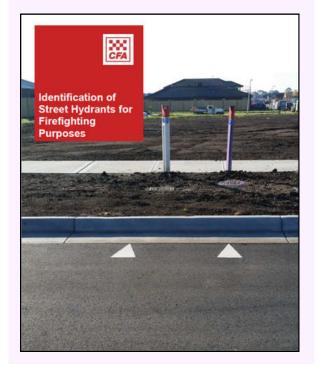
Prescriptive Provisions

All Parks - Reticulated Water

- **1.** A reticulated fire hydrant system is to be provided within the caravan park.
- 2. Above-ground operable hydrants (milcocks) must be provided which:
- **a.** Achieve a flow rate of 10 litres per second at 200kPa at the most disadvantaged hydrant.
- b. Are designed and installed as per <u>AS 2419.1-</u> <u>2021: Fire hydrant installations</u> for an external on-site fire hydrant.
- 3. The maximum distance between these hydrants and the rear of all structures and/or sites must be 60 metres and the hydrants must be no more than 120 metres apart. These distances must be measured around site boundaries, *demarcation lines*, buildings, obstacles and the like.
- **4.** The hydrants must be identified with marker posts and road reflectors as applicable to the satisfaction of the relevant fire authority.
- For existing sites, below ground hydrants must be identified with marker posts and road reflectors as applicable, to the satisfaction of the relevant fire authority.

Further Guidance

CFA's requirements for identification of hydrants are specified in '<u>CFA's Identification of Street</u> <u>Hydrants for Firefighting Purposes</u>'.



All Parks - Non-Reticulated Water

 A hydrant system with a static water supply designed to <u>AS 2419.1-2021: Fire hydrant</u> <u>installations</u> for an external feed fire hydrant, must be provided in the park as specified below.

a. Capacity and Storage

- i. A minimum water supply of 72,000 litres (excluding structures greater than 500m²).
- **ii.** Is stored in an above-ground water tank constructed of concrete or metal.
- Where there are structures greater than 500m² the fire water supply capacity must provided in accordance with the <u>National Construction</u> <u>Code</u>.

b. Performance

- i. A flow of 10 litres per second at 200kPa at the most disadvantaged hydrant.
- ii. A single diesel pump that meets the requirements of <u>AS 2419.1-2021: Fire hydrant</u> <u>installations</u> and <u>AS 2941-2013: Fixed fire</u> <u>protection installations – Pumpset systems</u>.

c. Location

The maximum distance between these hydrants and the rear of all structures and/or sites must be 60 metres and the hydrants must be no more than 120 metres apart. These distances must be measured around site boundaries, *demarcation lines*, buildings, obstacles and the like.

For Existing Parks Only

For **existing parks** with **non-reticulated water**, a design brief must be prepared to the satisfaction of CFA. The design brief must include the following information:

- The number of sites within the caravan park.
- The proposed water supply capacity.
- Confirmation that the proposed static supply will be fire water only (or what portion of static supply will be fire water only – domestic tapping location).
- Fire service design drawings showing the location of the static supply and other fire authority equipment such as hydrants, pump houses, hardstands and the like.
- Hydraulic computations confirming the expected performance of the static system.



Figure 1: Hydrant layout design.

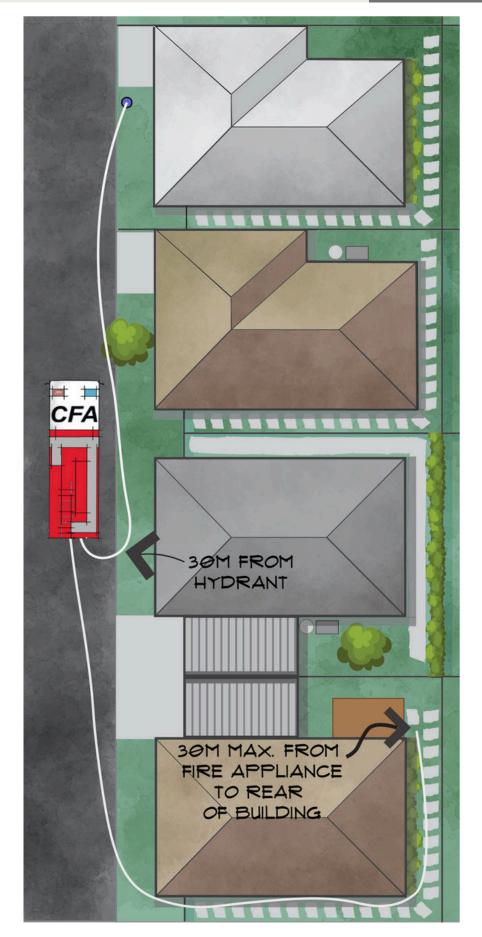


Figure 2: Hydrant layout design.

2. Access

Objective 2

Adequate access must be provided within caravan parks for:

- a. Firefighters, between and around any structure.
- **b.** Fire vehicles, including pumpers and tankers.

Relevant Regulations: Regulations 20, 34 and 35

2.1 Firefighter Access

Performance Measure

1. Access for firefighters must be provided to ensure that they are able to:

a. Travel externally and directly in pairs to the front and rear of a structure in full structural personal protective equipment (PPE), including breathing apparatus.

- **b.** Travel unobstructed on a suitably trafficable surface.
- c. Undertake firefighting activities as required.

Rationale

A minimum 1000mm unobstructed width must be provided, which is consistent with the Regulation 79(2) of the <u>Building Regulations 2018</u>. This width supports external fire attack and the use of offensive and defensive firefighting tactics.

Firefighter access and fire separation are separate considerations. Regulation 20 requires access to be in accordance with the CFA Guideline, and Schedule 3 of the Regulations notes that:

"... separation for movable dwellings is in accordance with the CFA Guideline rather than the BCA".

The Regulations privilege the need for firefighter access requirements over what may be acceptable for a normal dwelling.

Qualitative analysis has often been used to seek a reduction in this requirement, drawing on the fire separation requirements of the NCC of 900mm for a Class 1a dwelling. It has also been argued that doorways are generally 820mm in width and therefore 900mm is acceptable for firefighter access.

In practice, as identified through CFA's inspections, clear and unobstructed firefighter access is not always provided and maintained as intended, especially in and around unregistered moveable dwellings (UMDs).

Obstructions such as air conditioning condenser units, hot water services, bins, garden sheds, LP Gas cylinders, landscaping and general storage are commonly found within the intended firefighter access.

Limiting external access means firefighters will have fewer options to undertake rescue operations or suppress the fire.

Prescriptive Provisions

All Parks

- 1. Firefighter access of 1000mm unobstructed width and 2100mm clear height to the front, one side and the rear of the structure.
- 2. A suitably trafficable surface is provided.
- **3.** The clear access must be maintained at all times.

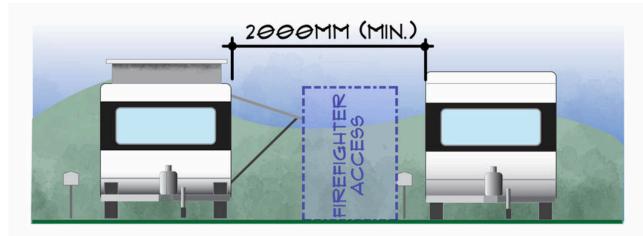


Figure 3a: Firefighter access requirements (between caravans).

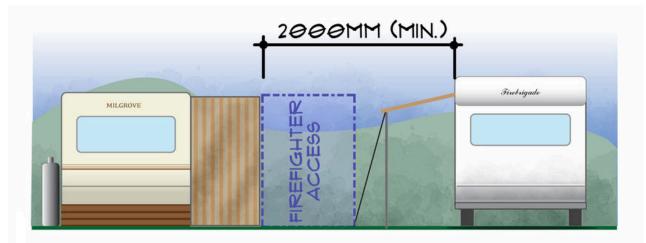


Figure 3b: Firefighter access requirements.

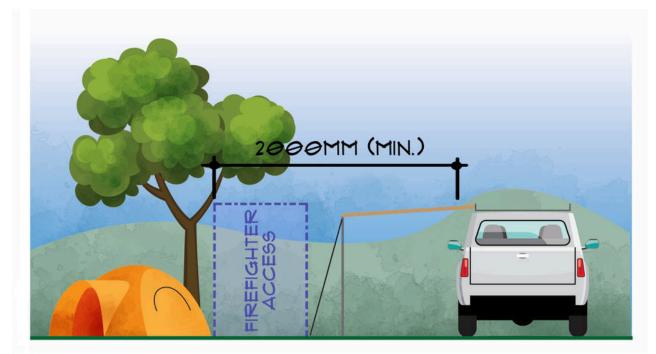


Figure 3c: Firefighter access requirements.



Figure 3d: Firefighter access to the front, one side and rear of the structure.

2.2 Fire Vehicle Access

Performance Measure

- **1.** Access for fire vehicles must be provided to enable:
- **a.** Access for firefighting vehicles as required.

b. Firefighting operations to be conducted within any part of the caravan park from the fire appliance as necessary.

Rationale

Steep slopes and severe short dips and tight curves affect the free movement of fire trucks and limit operational capabilities. Roads must be trafficable in all weather conditions and should be constructed to suit a 15-tonne Gross Vehicle Mass (GVM).

It is dangerous for emergency services vehicles to reverse along roads for excessive distances, especially in an emergency situation. Access roads must incorporate the ability for fire trucks to execute a three-point turn safely and permit other emergency services vehicles to pass.

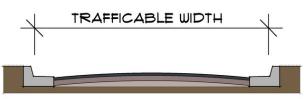
Roads designed for an AustRoads 8.8m service vehicle typically align with CFA's requirements.

Prescriptive Provisions

All Parks

- **1.** Fire vehicle access must be provided within a caravan park as follows:
- **a.** Access roads must have a load limit of at least 15 tonnes.
- **b.** Curves must have a minimum inner radius of 10m.
- c. The average grade must be no more than 1 in 7 (14.4 per cent) (8.1 degrees) with a maximum of no more than 1 in 5 (20 per cent) (11.3 degrees) for no more than 50m.
- **d.** Have a minimum trafficable width of 3.5m of all-weather construction.
- Be clear of encroachments for at least 0.5m on each side and 4m above the access way (refer to <u>Figures 7</u>, <u>8</u> and <u>9</u>).
- f. Dips must have no more than a 1 in 8 (12.5 per cent) (7.1 degrees) entry and exit angle.
- **g.** If the access road is more than 100m from the nearest intersection it must also provide:
 - A turning circle with a minimum radius of eight metres, **OR**
 - Other vehicle turning heads such as a T or Y head – which meet the specification of AustRoads Design for an 8.8 metre service vehicle.

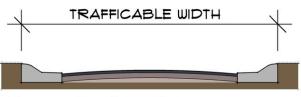
- h. If the access road is more than 200m from the nearest intersection it must also incorporate passing bays at least every 200m which must be at least 20m long and have a minimum trafficable width of 6m.
- 2. Minimum access road widths must be provided as follows:
 - 3.5 m, with no parking on either side (with appropriate signage restricting parking on both sides) **OR**
 - 5.5 m with parking on one side (with appropriate signage restricting parking on one side, refer to <u>Figure 5</u>) OR
 - 7.3 m with parking on both sides (refer to <u>Figure 6</u>).
- **3.** Site plans must be provided at every vehicle entrance point to the caravan park, be legible at all times, and include:
- **a.** Access road network and access road names.
- **b.** Site layout and numbering.
- c. Water supply and hydrant locations.
- **4.** Road signs must be provided.



BARRIER KERB



MOUNTABLE KERB



SEMI-MOUNTABLE KERB

Figure 4: Measuring trafficable width.

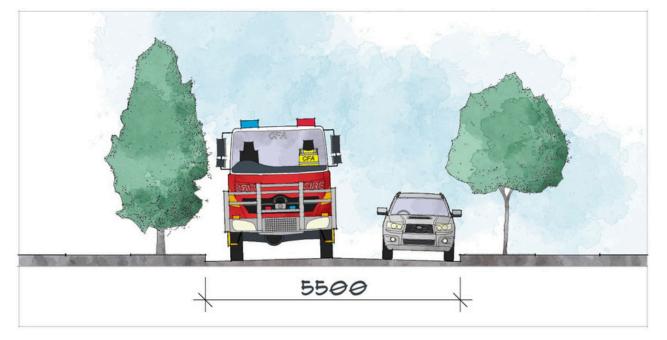


Figure 5: Parking on one side of the street.

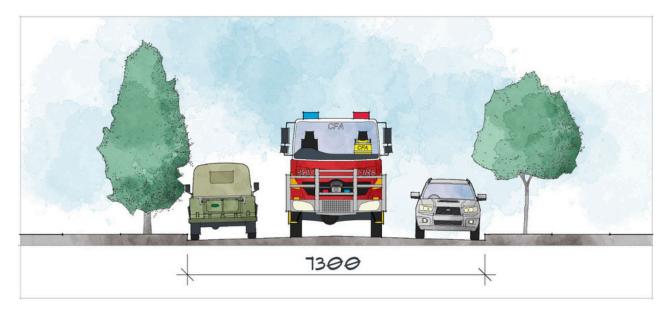


Figure 6: Parking on both sides of the street.

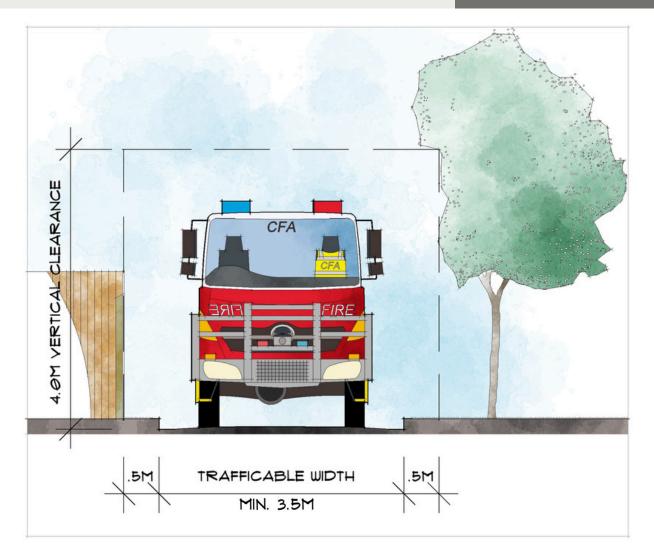


Figure 7: Clearance envelope example.

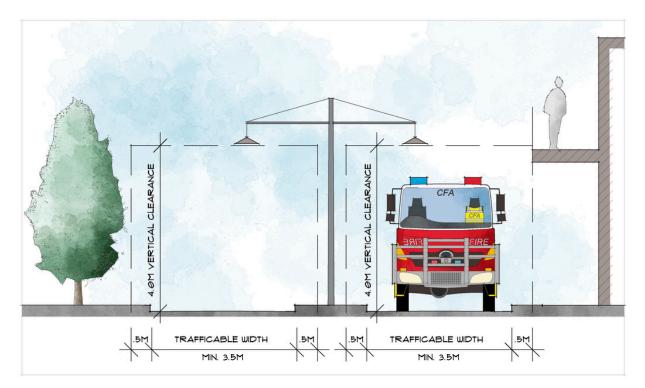


Figure 8: Clearance envelope example.

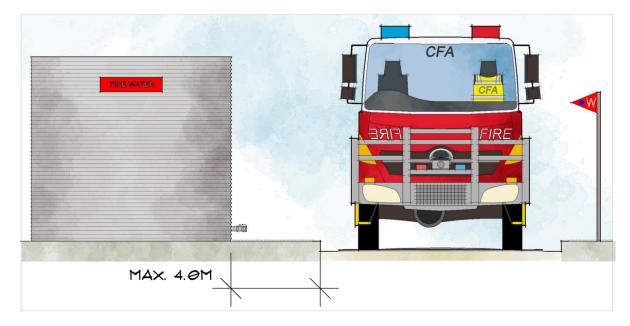


Figure 9: Hardstand access requirement.

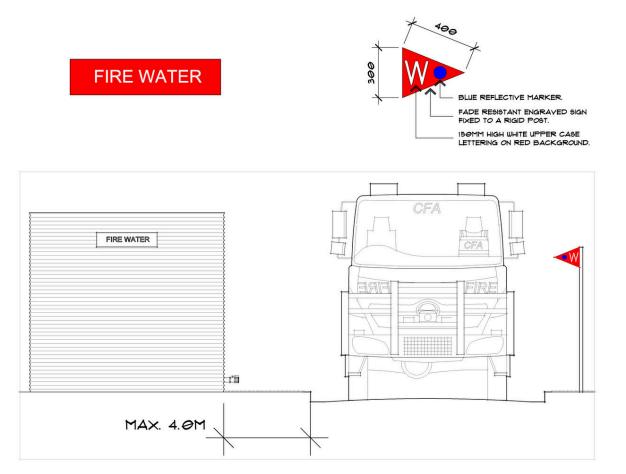


Figure 10: Water supply indicator example.

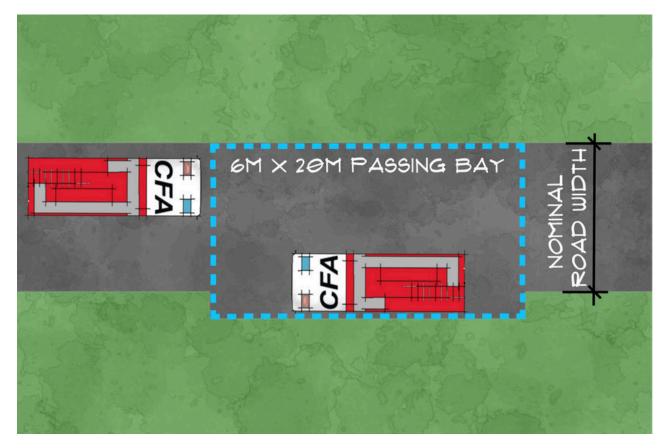


Figure 11: Access road with passing bays.

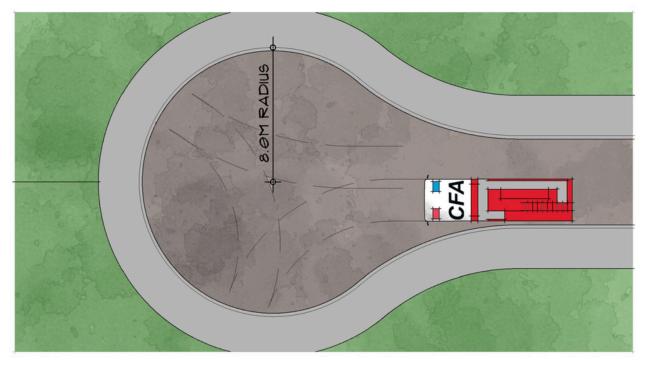


Figure 12: Court bowl turning arrangement.

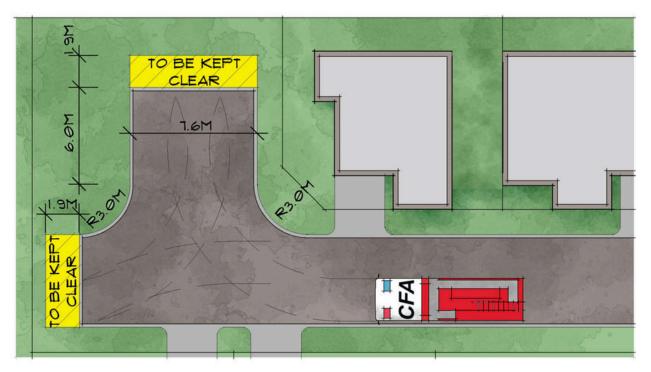


Figure 13: Three-point turning arrangement.

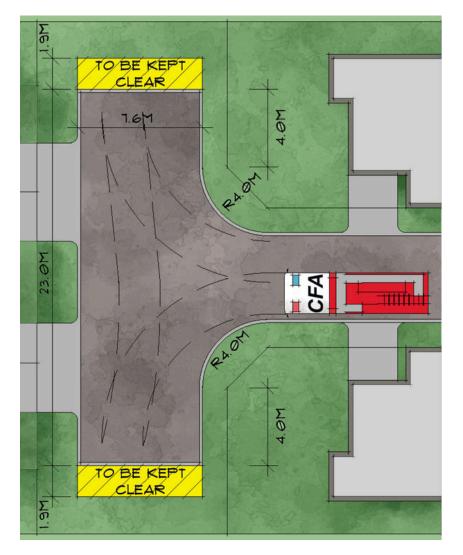


Figure 14: T-head turning arrangement.

3. Fire Separation

Objective 3

Adequate separation distance must be provided between and around any structure to prevent fire spread so that:

a. Occupants can safely evacuate.

b. The potential for fire spread to multiple structures is reduced.

Relevant Regulations: Regulations 20, 34 and 35

3.1 Fire Separation

Performance Measure

1. All structures must be sited, and clearances maintained to ensure that the likelihood of fire spread between structures is reduced appropriate to:

- **a.** Potential fire intensity.
- **b.** Potential flame contact.
- c. Potential radiation.
- d. The distance between structures.
- e. Fire service intervention.

2. All structures must be sited to ensure that occupants can safely evacuate to a designated assembly area in an emergency.

Rationale

Schedule 3 of the Regulations relating to the design, construction, and installation of unregistrable movable dwellings and annexes excludes compliance with certain elements of the BCA (NCC) normal to a dwelling, including:

- Objectives O2.3(b): Avoid the spread of fire.
- Functional Statements F2.3.1: Protection from the spread of fire.
- Performance Requirements P2.3.1: Spread of fire.
- Part 3.7.2 Fire separation of external walls.

These exclusions mean a UMD does not need to meet the usual, acceptable construction practices of fire resisting walls, use of non-combustible materials and the like that would normally be expected for a Class 1a dwelling.

This is an understandable exclusion considering the portable nature of a UMD, but it means the normal level of robustness of the building fabric cannot be assured.

These exclusions, and that a UMD is also exempt from requiring a building permit, means there is effectively no required construction standard for external walls to prevent the spread of fire. The minimum width for fire separation becomes critical to limit the risk to occupants.

Regulation 20 requires fire separation and firefighter access to be provided, and Schedule 3 notes that:

"Fire separation for movable dwellings is in accordance with the CFA Guideline rather than the BCA."

One of the key elements of <u>Building Regulations 2018</u> is to protect a dwelling from fire spread and avoid the spread of fire between dwellings. It is a reasonable community expectation that residents of movable dwellings, caravans and tents within a caravan park or residential village should not be placed at greater risk from fire.

Regulation 79(2) of the *Building Regulations 2018* require the minimum setback of a building up to 3.6 metres in height to be 1 metre from the side and rear boundary.

Based on these requirements, a Class 1a dwelling will be no less than 1 metre from the title boundary in, except for walls with an FRL of 60/60/60 on or within 200mm the boundary.

The following prescriptive provisions align with the regulations and the *National Construction Code*.



Prescriptive Provisions

All Parks

- **1.** A minimum vertical clearance of 2100mm must be maintained throughout the required fire separation width.
- 2. Vegetation and storage between and around structures that may contribute to fire spread should be reduced and maintained appropriately:
- **a.** Flammable objects must not be located close to the vulnerable parts of the building (e.g., windows and openings).
- **b.** Plants greater than 10 centimetres in height must not be placed within 3m of a window or glass feature of the building.

Additional Prescriptive Provisions Based On Facility Type

Tourist Parks

1. Fire separation must be minimum 2000mm in width, measured between the external walls of associated structures.

Residential Parks

- 1. External walls must be separated by a minimum:
- **a.** 2000mm measured between the external walls of associated structures.
- **b.** 1000mm from any boundary or demarcation line unless the wall is on or within 200mm of the demarcation line.
- If the wall is on or within 200mm of the demarcation line it must be constructed to an FRL of 60/60/60.
- 2. Only one side and the front of the structure may be built on or within 200mm of the demarcation line.





Figure 15: Fire separation between structures.

4. Fire Hazards

Objective 4

Potential fire hazards must be identified, managed and maintained safely.

Relevant Regulation: Regulation 21

4.1 Bushfire and Grassfire

Performance Measure

1. Bushfire and grassfire risks must be identified and managed.

Rationale

The potential for bushfire and grassfire and the consequences of its impact must be considered by caravan park owners and operators.

Caravan parks may be at risk of bushfire and grassfire if they are:

- Located in an area close to or amongst dense or open bush, unmanaged grassland, near coastal scrub, or at an urban fringe.
- Identified as being in a Bushfire Prone Area, or within the Bushfire Management Overlay.

Site occupiers must:

- Understand landscape and site fire risk.
- Develop and implement fire risk controls.
- Maintain and review fire risk controls.
- Incorporate bushfire emergency planning into the Emergency Management Plan (refer to <u>Section 6</u>).



The <u>Fire Danger Rating</u> tells you how dangerous a fire would be if one started.

The four-day Fire Danger Rating forecast is available on the CFA website during the Fire Danger Period.

Prescriptive Provisions

All Parks

Understand Landscape and Site Fire Risk Site occupiers must:

- 1. Take steps to understand bushfire risk at the site.
- 2. Ensure that fire risk controls commensurate to the fire risk are developed, implemented and reviewed.
- **3.** Be proactive in modelling and maintaining a culture of bushfire awareness and safety.
- **4.** Establish and maintain a relationship with the local CFA brigade.

Develop and Implement Fire Risk Controls

Site occupiers must develop and implement fire risk controls appropriate to the hazards and risks in the landscape. This may include:

- Fire permits and restrictions ensuring that fire permits are obtained and followed, and that restrictions based on Fire Danger Ratings or Total Fire Ban status are implemented.
- 2. *Job/task fire risk management* ensuring job hazard analysis processes are developed and implemented that consider site infrastructure, operations and landscape hazards.
- **3.** *Vegetation management* ensuring that any accumulation of combustible materials are cleared and removed from site.
- **4.** *Maintenance* ensuring fire protection and detection systems, plant, vehicles and equipment are regularly inspected and maintained.
- **5.** *Inspection of dangerous goods* storage *and handling areas* ensuring safe and compliant storage and handling practices.
- 6. Site-wide bushfire preparedness housekeeping inspections ensuring bushfire-focused inspections are conducted at least three months, and again one month, prior to the Fire Danger Period.

Maintain and Review Fire Risk Controls Site occupiers must:

- 1. Establish and document standards and processes for the appropriateness and effectiveness of fire risk controls.
- 2. Conduct/update risk assessments where there are changes to the park landscape and operations.

4.2 Dangerous Goods

Dangerous goods are substances capable of causing harm to people and property because of their hazardous properties. They may be corrosive, flammable, combustible, explosive, oxidising or waterreactive or have other hazardous properties.

Occupiers of facilities storing and handling dangerous goods must comply with the <u>Dangerous Goods</u> <u>(Storage and Handling) Regulations 2022</u>. Common dangerous goods at caravan parks include LP Gas (in tanks and cylinders), petrol and pool chlorine.

4.2.1 LP Gas

Performance Measure

1. *LP* Gas storage within caravan parks must be managed and maintained appropriate to:

- a. Storage size.
- **b.** Storage location.
- c. Storage type.
- **d.** Use.

Rationale

LP Gas is commonly used in caravan parks and may be stored in large quantities in tanks or smaller cylinders, often immediately adjacent to accommodation structures. LP Gas is class 2.1 dangerous goods, it is highly flammable and must be stored and used safely.

Caravan Park owners/operators should ensure that:

- The type, location, and orientation of cylinders is in accordance with dangerous goods regulatory requirements and the relevant Australian Standards.
- LP Gas storage areas are clear of ignition sources. Service equipment such as hot water units, gas or electric, air-conditioning units/condensers, or other spark or piloted equipment are considered ignition sources and this equipment should not be located within hazardous areas.
- LP Gas storage areas are provided with fire protection equipment in line with <u>AS/NZS 1596-2014: The storage and handling of LP Gas</u>.
- They understand how LP Gas pressure relief devices and vent discharging pipes operate and the direction that the gas cylinder may vent.

Advice from the fire services may be required to ensure that the fire protection and emergency planning measures are appropriate to dangerous goods risks on-site. This requirement generally applies to the storage of LP Gas exceeding 5000 litres/kg (refer to Schedule 2 of the <u>Dangerous Goods (Storage and</u> <u>Handling) Regulations 2022</u>.

Prescriptive Provisions

All Parks

LP Gas Locations

- LP Gas storage and use within caravan parks must be in accordance with <u>AS/NZS 1596</u>, <u>AS/NZS 5601.2-2020: LP Gas installations in</u> <u>caravans and boats for non-propulsive</u> <u>purposes</u>, and the <u>Dangerous Goods (Storage</u> <u>and Handling) Regulations 2022</u>.
- Movable dwellings must comply with <u>AS 5601.1,</u> <u>Appendix J: LP Gas cylinder locations</u>, as appropriate.
- **3.** LP Gas cylinders that are stored and used within the park must comply with regulations and must be inspected regularly for damage, obstructions and to ensure separation from ignition sources and combustible materials.
- Owners of movable dwellings should also ensure that LP Gas cylinders are stored in a compliant location and secured in such a way that prevents movement.
- **5.** LP Gas cylinders must be secured to prevent movement or physical damage.
- Valves must be safeguarded against physical damage in accordance with <u>AS 2473.1-2006</u>: <u>Valves for compressed gas cylinders</u>.
- 7. LP Gas cylinders must not be placed in prohibited locations as per <u>AS/NZS 1596</u>, including:
- a. Within a building, except where permitted by <u>AS /NZS 1596</u>.
- **b.** Under a stairway.
- **c.** In a location with restricted access, where inspection, refilling or exchange of the cylinder is restricted, obscured or hazardous to the operator.
- **d.** Where nearby constructions, fences, walls, or vapour barriers could prevent cross-ventilation.
- e. Under a building, except where permitted by <u>AS /NZS 1596</u>.
- **f.** Where the cylinder, or an incident involving the cylinder and its contents, could obstruct egress from a building.
- **g.** Buried in the ground, unless the cylinder and gas installation have been specifically designed for such a location.

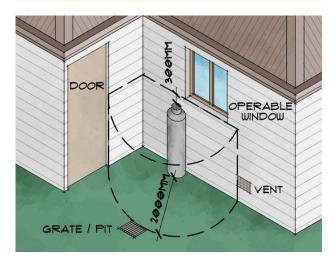
All Parks (Continued)

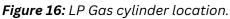
LP Gas Storage

- If LP Gas or other dangerous goods are stored or handled in quantities that exceed those listed under "Manifest Quantity" or "Fire Protection Quantity" in Schedule 2 of the <u>Dangerous Goods (Storage and Handling)</u> <u>Regulations 2022</u>:
- **a.** Written advice from the relevant fire authority must be sought as per Regulations 52 and 53.
- **b.** Occupiers must have regard to the written advice.

Ignition Sources

1. Sources of ignition are not permitted within a hazardous area as per <u>AS/NZS 1596</u>.





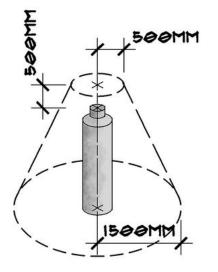


Figure 17: LP Gas cylinder hazardous area.

Adapted from <u>AS/NZS 1596-2014: The storage</u> <u>and handling of LP Gas</u>.

4.2.2 Flammable Liquids

Performance Measure

1. Flammable liquids within caravan parks must be monitored and maintained appropriate to:

- a. Storage size.
- **b.** Storage location.
- c. Storage type.
- **d.** Use.

Rationale

Flammable liquids are class 3 dangerous goods. They are highly volatile and must be stored and used appropriately. Vapours from fuel such as petrol and kerosene are heavier than air and will settle in low spots such as drains.

Caravan Park owners/operators must ensure that flammable liquids storage areas are:

- At least 3 metres away from any dwellings and positioned to prevent a further hazard.
- Provided with fire protection equipment in line with <u>AS 1940-2017: The storage and handling of flammable and combustible liquids</u>.
- Equipped with a means of handling small spills with a non-leaching, biodegradable oil and chemical absorbent.

Advice from the fire services may be required to ensure that the fire protection and emergency planning measures are appropriate to dangerous goods risks on-site. This requirement generally applies to the storage of flammable liquids exceeding 2,500 litres (refer to Schedule 2 of the <u>Dangerous Goods (Storage</u> <u>and Handling) Regulations 2022</u>).

Prescriptive Provisions

All Parks

- If flammable liquids or other dangerous goods are stored or handled in quantities that exceed those listed under "Manifest Quantity" or "Fire Protection Quantity" in Schedule 2 of the <u>Dangerous Goods (Storage and Handling)</u> <u>Regulations 2022</u>:
- **a.** Written advice from the relevant fire authority must be sought as per Regulations 52 and 53.
- **b.** Occupiers must have regard to the written advice.

4.2.3 Corrosive Substances

Performance Measure

 Corrosive substances storage within caravan parks must be monitored and maintained appropriate to:
 a. Storage size.

- **b.** Storage location.
- **c.** Storage type.
- d. Use.

Rationale

Corrosive substances such as pool chlorine and cleaning chemicals are class 8 dangerous goods and must be stored and used appropriately. Corrosive substances may cause severe burns and other injuries if not stored and handled safely.

Caravan Park owners/operators must ensure that corrosive substances are:

- Stored and handled in accordance with the requirements of <u>AS 3780-2023: The storage and</u> <u>handling of corrosive substances</u>.
- Stored in secured areas that are not readily accessible to members of the public.
- Stored in a manner whereby any spills or leaks are contained (eg., in a bunded area, and/or with a suitable spill kit nearby).
- Only handled by persons with appropriate training in their safe storage, use and emergency response, who have been supplied with the appropriate personal protective equipment (PPE) and equipment for safe clean-up and disposal.

Advice from the fire services may be required to ensure that the fire protection and emergency planning measures are appropriate to dangerous goods risks on-site. This requirement generally applies to the storage of corrosive substances exceeding 2,500 litres (refer to Schedule 2 of the *Dangerous Goods (Storage and Handling) Regulations 2022*).

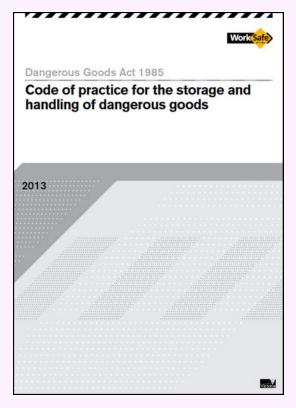
Prescriptive Provisions

All Parks

- If corrosive substances or other dangerous goods are stored or handled in quantities that exceed those listed under "Manifest Quantity" or "Fire Protection Quantity" in Schedule 2 of the <u>Dangerous Goods (Storage and Handling)</u> <u>Regulations 2022</u>:
- **a.** Written advice from the relevant fire authority must be sought as per Regulations 52 and 53.
- **b.** Occupiers must have regard to the written advice.

Further Guidance

WorkSafe's <u>Code of Practice for the Storage and</u> <u>Handling of Dangerous Goods (2013, revised 2022)</u> contains practical guidance for complying with the <u>Dangerous Goods (Storage and Handling)</u> <u>Regulations 2022</u>).



4.3 Electrical Safety

Performance Measure

1. Electrical safety must be implemented and maintained within all caravan parks and structures.

Rationale

Electricity is a major cause of fires worldwide. Electrical fires commonly start due to:

- The overloading of the power supply by using multiple power boards and/or double adaptors.
- Powerlines touching each other as a result of falling trees or branches.

Caravan Park owners/operators should promote electrical safety in accordance with <u>AS/NZS 3000-2018</u>: <u>Electrical installations (Wiring Rules)</u> and <u>AS/NZS</u> <u>3001.1-2022: Electrical installations</u>. AS/NZS 3001.1 is a specific standard for electrical installations in transportable structures such as caravans and other vehicles. This standard also applies to site electrical supplies.

The Victorian Fire Services do not regulate electrical safety. The fire services support the requirements of <u>Energy Safe Victoria</u> and the application of Australian Standards as part of a holistic fire safety approach.

Fire Safety Guidance

CFA recommends that the following are implemented across all parks, and are regularly checked by park owners/operators.

1. Power lines must be kept clear of vegetation and other obstructions.

2. External power supply between the source and structures within the caravan park must be insulated and not contain any connections exposed to the weather.

3. Supply leads must be arranged so that they will not obstruct persons walking in the vicinity of any movable dwelling and are located to provide suitable protection against mechanical damage, damage by high temperatures or ultra-violet radiation.

4. Each site should have its own individual power source.

5. If connected to mains power the movable dwelling should have its own residual current device.

6. The use of multiple power boards and double adaptors should be avoided and discouraged.

7. Extension leads for connection between the external power source and the structure should be tested and tagged in accordance with <u>AS/NZS 3760-2022: In service safety inspection and testing of electrical equipment and RCDs</u>.

8. Appendix B of <u>AS/NZS 3001.1-2022: Electrical</u> <u>installations</u> specifies that caravan park owners provide connection information to all site occupiers.

Connection Instructions for Caravan Park Patrons

- **a.** Do not connect more than one supply lead to each socket-outlet of the site supply.
- **b.** Any supply lead used to connect a connectable electrical installation to a site supply socket-outlet should be in one unbroken length.
- c. The supply of electricity for use in individual connectable electrical installations should not be ontained from a socket-outlet inside another connectable electrical installation or by the use of socket-outlet adaptors (double adaptors).
- **d.** Where a supply lead is coiled on or in a reel, drum, storage box or similar, the lead should not be connected to the site supply while coiled.
- e. Connectable electrical installations should be inspected regularly (e.g., annually), by a competent person to ensure their safe and effective operation.
- f. Residual Current Devices (RCD) used for the protection of connectable electrical installations should be tested by operating the push button on the RCD to check that the device trips. After tripping, the RCD should be reset. If the RCD fails to trip, this failure should be reported to the caravan park manager.
- **g.** The location of the device (within the premises or service pillar) is required for resetting in the event of a loss of supply.
- **h.** Avoid placing supply leads in pedestrian ways.

Adapted from <u>AS/NZS 3001.1-2022: Electrical</u> <u>installations</u>, Appendix B: Provision of connection instructions for caravan park or camping ground patrons.



4.4 Electric Vehicles

Rationale

Electric vehicles are becoming increasingly popular in Victoria resulting in the rapid provision of EV charging stations in public and private spaces.

Risks for EV charging must be addressed by park owners/operators considering the installation of EV charging stations. Electric shock and fire may result from incorrect installation, electrical faults, mechanical damage, failure of internal systems, overcharging, operating outside of safe temperate limits and insufficient maintenance, among others. The consequences may contribute to harm to persons, property and the environment.

CFA recommends that a risk assessment process is undertaken by caravan park owners/operators to ensure that all relevant risks specific to the site and its operations are considered.

CFA recommends that EV charging stations:

- Are not installed in close proximity to removable dwellings due to the risk of fire.
- Are installed away from vegetation, dangerous goods storages, fire service infrastructure, evacuation assembly areas, waterways or any area that floods.
- Are electrically compliant and properly installed and maintained by a qualified electrician.

It is crucial to follow guidelines provided by the manufacturers of the electric vehicle and the EV charging station, and to be aware of any faults that arise during the charging process.



Further Guidance

<u>EV Fire Safe</u> conducts, collates and responds to research about electric vehicle high voltage battery fires and emergency response, particularly where the EV is connected to energised charging.

Prescriptive Provisions

All Parks

Electric Vehicle Charging Stations

- 1. Electric Vehicle Supply Equipment (EVSE) must:
- **a.** Be 'smart' or OCPP chargers that can be remotely monitored if required.
- **b.** Be electrically compliant; in Australia this is the RCM Tick.
- **c.** Only be installed by a suitably qualified electrician.
- **d.** Be maintained as per manufacturer's instructions.

Tourist Parks

Electric Vehicle Charging Stations

- 1. Electric Vehicle Supply Equipment (EVSE) must:
- a. Incorporate a load management system.
- **b.** Not be within 10 metres of any habitable structure or site.
- **c.** Be provided with adequate protection from impact or mechanical damage.
- **d.** Be located no less than 10 metres and no more than 60 metres from a hydrant.
- 2. CFA recommends only Level 1 or Level 2 chargers be provided in tourist parks. If a Level 3 charger is to be installed, it must also be installed in accordance with the relevant energy distributor requirements.

Residential Parks

Electric Vehicle Charging Stations at Residential Sites in Residential Parks

1. Electric Vehicle Supply Equipment (EVSE) must be only of Level 1 or Level 2.

Electric Vehicle Charging Stations Not Associated with Residential Sites in Residential Parks

- 2. Electric Vehicle Supply Equipment (EVSE) must:
- **a.** Incorporate a load management system.
- **b.** Be provided with adequate protection from impact or mechanical damage.
- **c.** Not be located within 10 metres of any habitable structure.
- **d.** Be located no less than 10 metres and no more than 60 metres from a hydrant.
- **3.** If a Level 3 charger is to be installed, it must also be installed in accordance with the relevant energy distributor requirements.

4.5 Renewable Energy Installations

Rationale

Caravan parks are increasingly adopting renewable energy sources as a means to reduce reliance on the grid and provide backup power during outages. These sources may include solar arrays and battery energy storage systems.

Risks for renewable energy installations must be addressed by park owners/operators considering their installation. Electric shock and fire (from thermal runaway) may result from incorrect installation, electrical faults, mechanical damage, failure of internal systems, overcharging, operating outside of safe temperate limits and insufficient maintenance, among others. The consequences may contribute to harm to persons, property and the environment.

CFA recommends that a Risk Management Plan (RMP) is developed for battery energy storage system proposals, to ensure that all relevant risks specific to the site and its operations are considered. The RMP must be developed in consultation with CFA's Specialist Risk and Fire Safety Unit.

The requirements of CFA's Design Guidelines and Model Requirements for Renewable Energy Facilities must be considered for BESS in caravan parks, including:

- Siting of BESS in low-risk areas.
- Provision of monitoring, fire detection and suppression systems, explosive prevention systems.
- Adequate road access to and around the installation for fire brigade vehicles and operations.

As moveable dwellings have exemptions from the National Construction Code, they are potentially vulnerable to the risks associated with BESS, and this must be considered in their siting, planning, design and operation.

Prescriptive Provisions

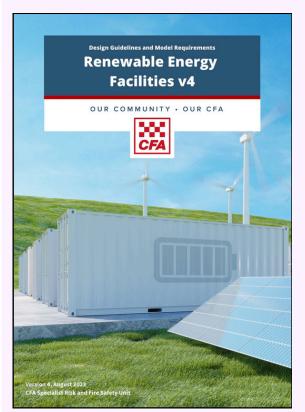
All Parks

Battery Energy Storage Systems

- Battery Energy Storage Systems (BESS) may only be installed in movable dwellings and UMDs if permitted by legislation.
- 2. BESS must be installed as per <u>AS/NZS 5139-</u> 2019: Electrical installations – Safety of battery systems for use with power conversion equipment.
- BESS must be sited, designed and operated in accordance with <u>CFA's Design Guidelines and</u> <u>Model Requirements for Renewable Energy</u> <u>Facilities</u>.
- Consultation with <u>CFA's Specialist Risk and Fire</u> <u>Safety Unit</u> must also be sought where battery energy storage systems over 1MW are proposed.

Further Guidance

Guidance for understanding and managing fire risk at renewable energy facilities is provided in <u>CFA's Design Guidelines and Model Requirements</u> for Renewable Energy Facilities, and <u>CFA's</u> <u>Guidance for Neighbourhood Battery Energy</u> <u>Storage Systems</u>.



Part 2: Standards of management, maintenance and emergency planning

5. Risk Management

Objective 5

A risk assessment must be conducted and documented in a Risk Management Plan.

Relevant Regulations: Regulations 21

5.1 Risk Management Plan

Rationale

The Regulations require a risk assessment to be conducted by the caravan park owner in consultation with the relevant emergency services to inform the development of an Emergency Management Plan.

CFA recommends that risk assessments are documented within Risk Management Plans (RMP) whereby the process for identifying, analysing, managing and reviewing risks is clearly outlined. The RMP can be included as part of the Emergency Management Plan.

A RMP supports CFA to effectively understand and provide advice in relation to on-site risks and hazards and potential emergency response matters.

Content of Risk Management Plans

The RMP must:

- Specify the risks identified, analysed and evaluated by the caravan park owner.
- Describe the specified measures to be taken to reduce emergency risks so far as is reasonably practicable, including preventative measures to reduce their likelihood and consequences.

The RMP structure may reflect the framework outlined in <u>AS/ISO 31000-2018: Risk Management - Guidelines</u>. The prescriptive provisions within this guideline are CFA's minimum requirements (risk controls) for caravan parks and must be reflected in the RMP.

CFA will only consider reducing the requirements of this guideline where alternative controls that provide at least an equivalent level of fire safety are proposed and supported by evidence.

Risk Factors

The following factors must be considered in risk assessments for caravan parks.

a. Location and Siting within the Landscape

Is the park in a designated Bushfire Prone Area or within the Bushfire Management Overlay? Is there a risk of grassfire from neighbouring properties? Is the park within the Land Subject to Inundation Overlay? Is there peat on the property? Is the site located near hazardous industries?

b. Park Layout

Does the layout of the park impact fire risk? Is fire service infrastructure safely accessible? Are there hazards or infrastructure that may impact safe evacuation?

c. Vegetation On-Site

Does the prevalence, type, density or location of vegetation impact fire risk?

d. Infrastructure: Electrical, Chemical, Technological

Does the infrastructure on site contribute to fire risk, or potentially impede firefighting operations? Are dangerous goods stored on-site? Are there electrical hazards on-site?

e. Park Activities and Operations

What activities undertaken on-site contribute to fire risk? How is electricity infrastructure de-energised and isolated? How often is critical maintenance undertaken?

f. Park Occupancy

What is the occupancy of the park? What are the demographics? Will there be vulnerable occupants?

g. Local Weather Conditions

What is the prevailing wind speed and direction? What is the rainfall during the year? What is the humidity and temperature during the Fire Danger Period?

Further Guidance

Refer to **Section 4** for common hazards at caravan parks. Site-specific hazards must be identified through the risk management process.

6. Emergency Planning

Objective 6

A site-specific Emergency Management Plan must be developed, implemented and maintained.

Relevant Regulations: Regulations 21, 23 and 24

6.1 Emergency Management Plan

Performance Measures

1. An Emergency Management Plan must be developed appropriate to:

- a. Caravan park size and characteristics.
- **b.** Number of staff and occupants.
- **c.** Available emergency services.
- d. Identified fire risks and hazards (including bushfire).
- e. Available egress from the site.

The Emergency Management Plan must be located in an area that is easily accessible by the fire services.

Rationale

The Regulations require the caravan park owner to develop an Emergency Management Plan (EMP) in consultation with the relevant emergency services.

An EMP is an essential fire risk management control in any facility containing multiple, unrelated occupants. Emergency situations are always time-critical and clear actions and expectations contribute to safe and effective response.

EMPs must:

- Be based on the outcomes of the risk assessment/Risk Management Plan (refer to <u>Section 5</u>).
- Be site-specific and be based on a comprehensive risk management process that considers all hazards for the entire caravan park.
- Include any emergency planning-related planning permit conditions that the park owner must comply that with.
- Be prepared in consultation with all relevant emergency services, not just the relevant fire authority.
- Be kept in a prominent position that is acceptable to the emergency services; generally the park main office.

Bushfire

Bushfire risks in caravan parks are increased in regional areas and where relevant to the park, must be addressed in EMPs. The extent of bushfire risk is subject to several variables, including surrounding vegetation, topography, location in relation to manageable land and site boundaries, site access and brigade resources.

Procedures specific to bushfire that include preparedness, monitoring and response actions (including closure triggers) should be included in EMPs. Closure or modified operations on days of elevated fire danger may be required to ensure the safety of park occupants and visitors.

Prescriptive Provisions

All Parks

Emergency Management Plan

- 1. An Emergency Management Plan (EMP) must be prepared by a caravan park owner in consultation with CFA.
- The EMP should be developed in accordance with <u>AS 3745-2010: Planning for emergencies in</u> <u>facilities</u>, and based on the risk assessment as Section 5.
- 3. The EMP should include:
- **a.** A facility description, including infrastructure details, operations, number of personnel, and operating hours.
- b. A site plan depicting site infrastructure, site access points and internal roads, fire services (water tanks, pumps, booster systems, fire hydrants, fire hose reels), drainage, and neighbouring properties.
- c. Emergency procedures to be followed by the caravan park owner on receiving a public emergency warning or in the event of an emergency, including:
 - Communication measures; and
 - Response measures; and
 - Evacuation procedures.
- **d.** Emergency procedures to be followed by residents, short term occupiers and all other persons at the caravan park in the event of an emergency (including bushfire/grassfire).
- e. Up-to-date contact details for site owners/occupiers and any relevant off-site personnel that could provide support during an emergency.

All Parks (Continued)

- f. Details of emergency resources, including fire detection and suppression systems and equipment, emergency warning systems, communication systems, and first aid.
- g. A manifest of dangerous goods (if required under the <u>Dangerous Goods (Storage and</u> <u>Handling) Regulations 2022</u>).

Display of Emergency Procedures

- **1.** Emergency procedures must be current and displayed in a prominent position in:
- a. The caravan park office.
- **b.** Every building that contains communal facilities.
- c. Any other place determined by the Council.

Location of Emergency Management Plan

- **1.** A current copy of the Emergency Management Plan should be:
- **a.** Kept in a prominent location known to all site staff.
- **b.** Readily accessible by emergency services.
- c. Readily accessible by site staff.

Bushfire Preparedness and Response

- 1. If the site is within a Bushfire Prone Area, the EMP should also include:
- **a.** Procedures for prevention and preparedness before the Fire Danger Period.
- Procedures for preparedness and monitoring for grassfire/bushfire during the Fire Danger Period.
- c. Procedures for when bushfire/grassfire threatens the site, including triggers for evacuation of staff, guests and visitors, and sheltering and in place (if required).
- Previously determined actions to be taken on days of High and above Fire Danger Rating, and when a day of Total Fire Ban (TFB) is forecast. These actions must be determined through risk management processes.

Provision of Emergency Information

 If the site has manifest quantities of dangerous goods stored on site as per Schedule 2 of the <u>Dangerous Goods (Storage and Handling)</u> <u>Regulations 2022</u>, an Emergency Information Book is to be prepared in accordance with <u>CFA</u> <u>Guideline for the Provision of Emergency</u> <u>Information</u>.

6.2 Emergency Warnings

Performance Measure

1. Public emergency warnings are displayed and current.

Rationale

Regulation 24 requires a caravan park owner to display a copy of any public emergency warnings on any day that the warning is current. On receiving an emergency warning, the caravan park owner must implement the relevant emergency procedures in the EMP.

You should never wait to receive an official warning before you leave. Fires can start quickly and threaten homes and lives within minutes.

Warnings are issued when a fire has started and you need to take action.

Make sure you understand the three levels of warnings and what they mean. The three levels of warnings are:

- Advice
- Watch and Act
- Emergency Warning

Warnings can be issued in any order. The first warning you could get could be an Emergency Warning.

<u>https://www.cfa.vic.gov.au/warnings-</u> restrictions/about-warnings

Prescriptive Provisions

All Parks

- **1.** Public emergency warnings must be current and displayed in a prominent position in:
- a. The caravan park office.
- **b.** Every building that contains communal facilities.
- c. Any other place determined by the Council.
- 2. The copy of the public emergency warning must be displayed until the warning is no longer current.

Further Guidance

Refer to **<u>Appendix B</u>** for further guidance and resources for emergency planning.

7. Maintenance

Objective 7

Firefighting equipment, firefighter access and fire separation must be regularly maintained throughout the caravan park.

> Relevant Regulations: Regulations 44, 46 and 47

7.1 Maintenance

Performance Measures

- 1. Fire safety equipment is inspected and maintained.
- 2. Firefighter access is inspected and maintained.
- **3.** Fire separation is inspected and maintained.
- 4. Maintenance records are created and retained.

Rationale

Maintenance is essential to ensure that fire prevention and safety equipment, access and separation will perform at the same level of operation that existed at the time of installation and/or commissioning.

Fire prevention and safety systems will incur damage and wear-and-tear over time and use, affecting their reliability and performance. They must be maintained at a level of performance specified, usually by an Australian Standard, through periodical inspections and checks.

CFA recommends:

- That park owners list the items that are required to have regular ongoing maintenance. In preparing the list, park owners should seek advice about the level and frequency of maintenance required from maintenance personnel and the relevant Australian Standards.
- That records of inspection and any maintenance required and performed are retained and are accessible to fire authorities, regulatory authorities and insurance agencies on request.

Advice may be sought from CFA, building surveyors (private or municipal), services engineers, maintenance firms or other suitably qualified persons on maintaining fire safety systems within the park.

Maintenance of fire prevention and safety systems is a critical risk control. For example, if the fire services cannot find a hydrant because the garden bed is overgrown or location signage is missing, valuable time is lost trying to locate the hydrant, increasing the risk of fire spread.

Prescriptive Provisions

All Parks

Maintenance

- Fire safety equipment is inspected and maintained as required by <u>AS 1851-2012</u>: <u>Routine service of fire protection systems and</u> <u>equipment</u>.
- Maintenance of fire safety equipment must only be carried out by suitably qualified person.
- **3.** At least every six (6) months, in accordance with this guideline:
- **a.** Firefighter access is inspected and maintained.
- **b.** Vehicle access is inspected and maintained.
- c. Fire separation is inspected and maintained.
- **d.** Smoke alarms are tested and replaced if necessary.
- e. Vegetation across the site is maintained.

Records

- 1. Maintenance records are to be:
- a. Created and retained.
- **b.** Electronically-based or in the form of logbooks.
- **2.** Maintenance records should contain the following information:
 - Record reference.
 - Name and address of caravan park.
 - Date of maintenance/inspection.
 - System or equipment identification and location (may be a location plan).
 - The standard/technical specification to which maintenance is occurring.
 - Frequency of maintenance activity undertaken.
 - Defects identified.
 - Rectification works undertaken.
 - Name of property owner or the agent.
 - Name and signature of the service person.
 - Date the record was completed.

8. Fire Safety Reports

Objective 8

Matters identified in Fire Safety Reports must be actioned and completed within the time frames identified in the Schedule of Works.

> Relevant Regulations: *Regulations 7 and 19*

8.1 Schedule of works

Performance Measures

1. *Matters identified in Fire Safety Reports are actioned in accordance with the Schedule of Works.*

Rationale

Councils may request CFA to prepare a report regarding fire safety for new and existing caravan parks (Fire Safety Report). Councils must have regard to the most recent report of the relevant fire authority in determining registration applications and renewals for caravan parks.

A schedule of works is a written agreement entered into between a caravan park owner and a local council, setting out works to be undertaken by the caravan park owner and a timeline for the undertaking of those works.

The schedule of works may include matters related to fire prevention and safety from a Fire Safety Report.

Existing Parks

If a Fire Safety Report identifies items to be actioned in a Schedule of Works for an existing park, park owners may either:

- Rectify the issues identified within the Fire Safety Report in accordance with the *prescriptive provisions* in this guideline **OR**
- Demonstrate that an equivalent level of fire safety has been achieved to comply with the relevant *performance measures* to the satisfaction of CFA, through a comprehensive risk management process.

Prescriptive Provisions

All Parks

- Items identified in Fire Safety Reports are actioned and completed within the time frames identified in the Schedule of Works.
- 2. A Schedule of Works to rectify items identified within the Fire Safety Report is developed by the caravan park owner in consultation with council.

Using Risk Controls other than Prescriptive Provisions for Existing Caravan Parks

Where existing caravan parks use risk controls other than the *prescriptive provisions* to meet the *performance requirements*, the following must be developed to the satisfaction of CFA:

- A fire risk assessment that includes identification and assessment of:
 - Fire risks specific to the park and the surrounding environment including potential ignition sources.
 - Factors that could contribute to the spread of fire within the park including the location, layout, construction materials, occupancy, and activities taking place in the area.
- Details of proposed risk controls.
- **Documented evidence** that the proposed risk controls provide an equivalent or greater level of fire safety than the *prescriptive provisions*, and meet the *performance requirements* for the relevant *objective(s)*. This may include:
 - Comparison with prescriptive provisions.
 - Technical data sheets and test results with suitable analysis.
 - Expert judgement such as a quantitative fire engineering analysis based on the guiding principles of the International Fire Engineering Guideline (IFEG), prepared by a suitably qualified Fire Safety Engineer.

Appendix A: Caravan Park Regulations Equivalencies

The <u>Residential Tenancies (Caravan Parks and Movable</u> <u>Dwellings Registration and Standards) Regulations 2020</u> currently reference the 2012 version of CFA's guidelines. As the CFA Caravan Park Fire Safety Guidelines 2024 do not adopt the numbering of the 2012 version, the following chart details the equivalencies between the versions.

1. Regulations referencing the CFA guidelines or the emergency services

Regulation 19(1) Fire prevention and safety

(a) Objective O3 and Performance Measures PM4 and PM5 of the CFA Guideline; or
 (b) if complying with the Prescriptive Provisions of the CFA Guideline, prescriptive provisions PP3 and PP4.

CFA Guideline 2012 Reference	CFA Guideline 2024 Equivalent
Objective O3: Provision and maintenance of firefighting equipment	Section 1: Firefighting equipment Objective 1: Appropriate firefighting equipment must be provided within caravan parks.
	Section 7: Maintenance Objective 7: Firefighting equipment, firefighter access and fire separation must be regularly maintained throughout the caravan park.
PM4: Fire equipment PP3: Occupant fire equipment	Section 1.1: Occupant fire equipment Section 7.1: Maintenance
PM5: Fire authority equipment PP4: Fire authority equipment	Section 1.2: Fire authority equipment Section 7.1: Maintenance

Regulation 20(1) Fire prevention and safety-access and separation

(a) Objectives O1 and O2 and Performance Measures PM1, PM2 and PM3 of the **CFA Guideline**; or (b) if complying with the Prescriptive Provisions of the **CFA Guideline**, prescriptive provisions PP1 and PP2.

CFA Guideline 2012 Reference	CFA Guideline 2024 Equivalent
Objective O1: Provision and maintenance of fire service access.	<i>Section 2: Access</i> Objective 2: Adequate access must be provided within caravan parks.
	Section 7: Maintenance Objective 7: Firefighting equipment, firefighter access and fire separation must be regularly maintained throughout the caravan park.
PM1: Firefighter access. PP1: Firefighter access and fire separation.	Section 2.1: Firefighter access Section 7.1: Maintenance
PM2: Fire vehicle access. PP2: Fire vehicle access.	Section 2.2: Fire vehicle access Section 7.1: Maintenance
Objective O2: Prevention of fire spread.	Section 3: Fire separation Objective 3: Adequate separation must be provided and maintained between and around any structure to prevent fire spread.
PM3: Fire separation. PP1: Firefighter access and fire separation.	Section 3.1: Fire separation

Regulation 21 Emergency management planning

(1) For the purposes of section 518D(1) of the Act, an emergency management plan must be prepared by a caravan park owner in consultation with the **relevant emergency services** agencies.

(2) In preparing an emergency management plan, a caravan park owner, in consultation with the **relevant emergency services** agencies, must conduct a risk assessment to identify, analyse and evaluate the emergency risks associated with the caravan park.

CFA Guideline 2012 Reference	CFA Guideline 2024 Equivalent
Objective O4: Identification and management of fire hazards.	Section 4: Fire hazards Objective 4: Potential fire hazards must be identified, managed and maintained safely.
	Section 5: <i>Risk management</i> Objective 5: Risks must be managed and documented in a Risk Management Plan.
PM6: LP Gas PP5: LP Gas	Section 4.2: Dangerous goods Section 4.2.1: LP Gas
PM8: Flammable Liquids PP7: Flammable Liquids	Section 4.2: Dangerous goods Section 4.2.2: Flammable liquids
PM7: Electrical Safety PP6: Electrical Safety	Section 4.3: Electrical safety Section 4.4: Electric vehicles Section 4.5: Renewable energy installations
Objective O5: Development and implementation of Emergency Management Plans	Section 6: Emergency planning Objective 6: A site-specific emergency management plan must be developed, implemented and maintained.
PM9: Emergency Management Plans PP8: Emergency Management Plans	Section 6.1: Emergency management plan Section 6.2: Emergency warnings

2. Where the CFA guidelines support compliance with the Regulations

Regulation	CFA Guideline 2024
23. Display of emergency procedures	Section 6.1: Emergency management plan
24. Display of public emergency warnings	Section 6.2: Emergency warnings
34. Design, construction and installation standards— unregistrable movable dwellings	Section 2.1: Firefighter access Section 2.2: Fire vehicle access Section 3.1: Fire separation
35. Design, construction and installation standards— annexes	Section 2.1: Firefighter access Section 2.2: Fire vehicle access Section 3.1: Fire separation
36. Smoke alarms for movable dwellings	Section 1.1: Occupant fire equipment Section 7.1: Maintenance
44. Maintenance of movable dwellings	Section 7.1: Maintenance
46. Maintenance by owners	Section 7.1: Maintenance
47. Maintenance of sites	Section 7.1: Maintenance

Appendix B: References and Resources

CFA Guidance

CFA Website

- About Warnings
- Bushfire Safety for Workers
- Fire Danger Period Restrictions
- <u>Renewable Energy Fire Safety</u>
- <u>Total Fire Bans and Fire Danger Ratings</u>

CFA Publications

- CFA Design Guidelines and Model Requirements for Renewable Energy Facilities (2023)
- CFA Guidelines for the Provision of Emergency Information (2019).
- CFA Identification of Street Hydrants for Firefighting Purposes (2019)
- CFA Neighbourhood Batteries (2023)

Legislation

<u>Building Regulations 2018</u> <u>Dangerous Goods (Storage and Handling) Regulations 2022</u> <u>Residential Tenancies Act 1997</u> <u>Residential Tenancies (Caravan Parks and Movable Dwellings Registration and Standards) Regulations 2020</u> <u>Victoria Planning Provisions</u>

Australian Standards

Fire Protection Equipment

AS 2419.1-2021: Fire hydrant installations, Part 1: System design, installation and commissioning AS 2441-2005: Fire hose reels AS 2444-2001: Portable fire extinguishers and fire blankets AS 2941-2013: Fixed fire protection installations — Pumpset systems AS 3786-2023: Smoke alarms using scattered light, transmitted light or ionization.

Dangerous Goods

AS 1940-2017: The storage and handling of flammable and combustible liquids AS 2473.1-2006: Valves for compressed gas cylinders, Part 1: Specifications AS 3780-2023: The storage and handling of corrosive substances AS/NZS 1596-2014: The storage and handling of LP Gas AS/NZS 5601.1-2022: Gas installations, Part 1: General installations AS/NZS 5601.2-2020: Gas Installations, Part 2: LP Gas installations in caravans and boats for non-propulsive purposes

Risk Management and Emergency Planning

<u>AS 3745-2010: Planning for emergencies in facilities</u> <u>AS/ISO 31000-2018: Risk management guidelines</u> <u>SA/SNZ HB 89-2013: Risk management — Guidelines on risk assessment techniques</u>

Electrical Safety

<u>AS/NZS 3000-2018: Electrical installations (Wiring Rules)</u> <u>AS/NZS 3001.1-2022: Electrical installations, Part 1: Connectable electrical installations and supply arrangements</u> <u>AS/NZS 3760-2022: In-service safety inspection and testing of electrical equipment and RCDs</u> <u>AS/NZS 5139-2019: Electrical installations: Safety of battery systems for use with power conversion equipment</u>

Other Relevant Guidance

<u>EV Fire Safe</u> <u>National Construction Code</u> <u>Water Services Association of Australia (WSAA) Water Supply Code (2022)</u>

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Please Note:

The Victorian fire services do not regulate gas, electrical or dangerous goods safety. Caravan park or dwelling owners who require further information regarding these hazards within caravan parks should contact <u>Energy Safe</u> <u>Victoria</u> or <u>WorkSafe</u>.



CFA Caravan Park Fire Safety Guidelines 2024