

### **Site Selection Requirements :**

The following is a list of considerations that must be adhered to when choosing a Wildfire Safety Bunker site. A Wildfire Safety Bunker can also be relocated at a later date if required to suit future building extensions.

The Wildfire Safety Bunker is certified for use in Bushfire areas rated to BAL- FZ or a lower BAL, when assessed in accordance with AS3959-2009.

### **Considerations :**

1. Distance from the main residence. When selecting a site consideration must be given to the age of the occupants and or any disabilities.
2. The siting of the bunker (in relation to slope, aspect, orientation and vegetation) must minimise exposure from the fire front and other structures.
3. The most common wind direction and the most likely path a fire will take.
4. The construction of the house – brick veneer, timber, other.
5. The siting distance from other out-buildings or car-ports or storage sheds.
6. Trees and vegetation re – distance from, amount, size, overhanging, relocation, removal.
7. Clear pathway from the residence to the fire bunker/shelter.
8. Access for machinery re – crane truck and excavator.
9. Fences, boundaries, easements and other services.
10. Determine the Bushfire Attack Level (BAL)

It is not always possible to avoid overhanging tree branches, in this situation the tree branches must be trimmed or removed. A permit may be required from your local council before any clearing work can be started.

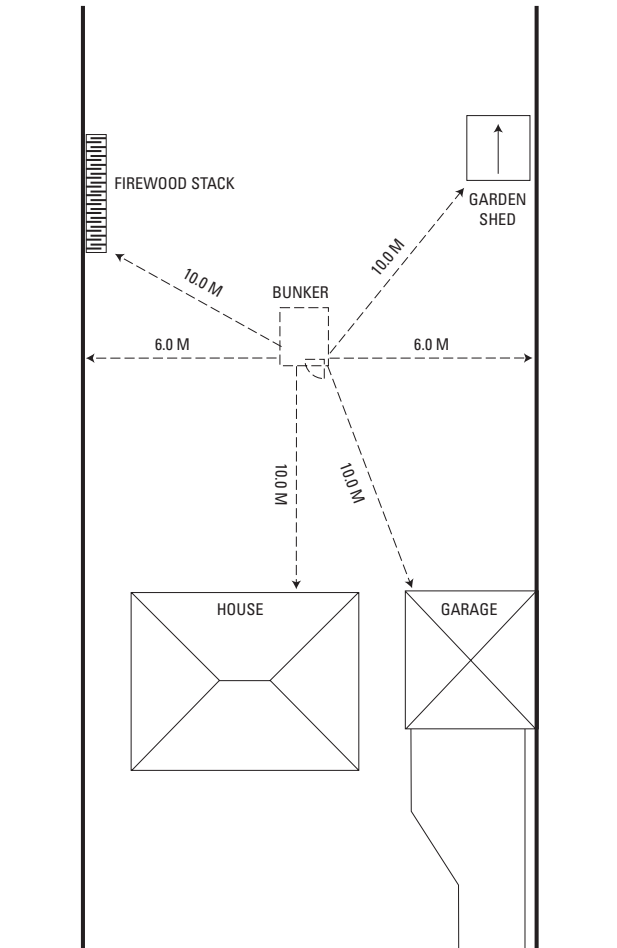
**Wildfire Safety Bunker Site Selection :**

In the following criteria careful consideration must be given to the age of the occupants and or, any disabilities which could affect access and so impact on the site selection.

1. **Setback from dwelling:**  
The Wildfire Safety Bunker access door is to be located a minimum of 10.0 metres and a maximum of 40.0 metres from the residential dwelling. Ten meters is considered a safe distance should the dwelling ignite following a bushfire event. Forty meters is considered a safe distance in terms of the time taken to get to the Wildfire Safety Bunker in an emergency situation. The access door must be oriented to face the dwelling. This orientation also protects the door from possible future development to neighbouring properties. Where possible the rear of the bunkers earth mound should be facing towards the at-risk fire direction. (i.e. - the door should be facing away from this fire direction).
2. **Side and rear boundary setback:**  
The Wildfire Safety Bunker access door must be located a minimum of 6.0 metres from a side or rear boundary with the access door oriented towards the dwelling. This setback offers protection against the possible placement by neighbours of firewood and other fuel loads on the boundary line adjacent to an installed bunker and the doorway would be facing away from this potential threat.
3. **Front and side street setback:**  
The Wildfire Safety Bunker access door must be located a minimum of 6.0 metres from the far boundary of a front street or 8m from the far boundary of a side street with the access door oriented toward the associated dwelling on the same allotment, or the front or side street.
4. **Setback from outbuildings and other fuel loads:**  
The Wildfire Safety Bunker access door must be located a minimum of 10.0 metres from other outbuildings and fuel loads with the access door oriented towards the dwelling. (Example garden sheds, garages, wood piles, carports etc.). Radiant heat from these structures if ablaze could prolong the time spent in the bunker during a fire episode. If this clearance is not achievable these hazards must be removed or relocated.
5. **Site selection:**  
Select a site that is free from any objects (including non-combustible objects) that could possibly fall or be carried by high wind that may block or obstruct the access door to the bunker.
6. **Access pathway:**  
An access path must be established that provides a direct link from home to bunker. The path must be clear and level and have a tactile surface and must be maintained this way by the property owners as an ongoing maintenance item.
7. **Vegetation management:**  
Ongoing Vegetation Management practices are to be implemented to maintain the BAL assessment that was undertaken for the purpose of obtaining the building permit issued for the construction of the Wildfire Safety Bunker.

## WILDFIRE SAFETY BUNKERS

Bunker setback distances when selecting site. Measure the distance from the access door.



### Site Excavation – Standard Bunker :

1. Locate any below ground services before you excavate.
2. Mark out the area to be excavated, 5000mm x 3000mm.  
(Bunker dimensions are - 2400 mm wide x 4200 mm long.)
3. When marking out, align the bunker so the access door is facing in the desired direction.  
Refer to point 6 above.
4. Excavate to a depth of 2800 mm measured at the entry location. The joint between the top and the bottom of the bunker at the access door opening must be at natural ground level.
5. Do not over excavate, the bunker must be set on a solid, level base.  
Do not back fill any over excavation with loose earth, quarter minus fine rock is recommended to level the base of the excavation.

## Wildfire Safety Bunker Installation procedure :

All twelve person bunkers must be installed by trained Wildfire installers and or there preferred contractors.

### Back Filling:

All backfilling will be done by trained Wildfire installers and or there preferred contractors.

The mounding over the bunker will need attention over time due to erosion. Always maintain the minimum and maximum earth cover over the bunker at all times. This remains the responsibility of the home owner. The home owner could also contract the services of a landscape gardener for this work.



Avoid heavy machinery close to the edges of the bunker.