

**CLIPSAL**<sup>®</sup>  
by Schneider Electric

by Schneider Electric



# **FIRE & TEK**<sup>®</sup>

## **755 SERIES**

### **SMOKE ALARMS**

INCORPORATING  
**HUSH**  
FUNCTION



[clipsal.com](http://clipsal.com)

# Smoke Alarms save lives




Tragically, each year in Australia there are over 10,000 house fires resulting in more than 70 deaths, 1,500 injuries and millions of dollars worth of property damage.

These kinds of fires happen all too frequently, and the fact is, they happen fast. A house can be literally razed to the ground in less than 15 minutes. That's why it's essential for every home to be fitted with a sufficient number of appropriate and suitably placed mains powered smoke alarms.

Installing a high quality smoke alarm ensures your peace of mind by offering you 24 hour a day protection for your family and home against fire and smoke. The early warning that a smoke alarm provides means less chance of major damage and, more importantly, less chance of lives being lost.

A Clipsal Firetek® 755 Series smoke alarm is a small investment yet potentially one of the most important you will ever make.

The 755 Series comprises both ionisation and photoelectric models, in both surface mount and aesthetically appealing flush mount designs. Both models offer total protection in any residential or commercial installation.

-  **More than 70 deaths each year**
-  **1,500 injuries each year**
-  **Millions of dollars worth of property damage in Australia**



“ world's first unique fully recessed design... over 60% smaller ”

## Unsurpassed style

Today's modern housing demands electrical accessories that are not only of the highest quality, but look the part too. Designed to blend in with any décor, the stylish Clipsal Firetek® 755 Series Flush Mount Smoke Alarm offers premium protection against fire danger, but is an incredible 60% smaller than a regular smoke alarm.

At last, style and safety have come together to offer you and your family unrivalled protection, with a sleek, unobtrusive smoke alarm design. The smaller diameter of the Flush Mount alarm allows it to fit in visually with ceiling mounted downlights. Now that's innovative!



Photography by Oz Shots

# Flush Mount smoke alarm

Who says smoke alarms can't be stylish? Clipsal Firetek's® flush mount model offers you and your family maximum protection against smoke and fire danger but is an amazing 60% smaller than a traditional smoke alarm.

Featuring a sleek, modern design that blends into any décor, the flush mount smoke alarm offers you total protection without compromising on style.

“40% thinner”



## Test/Hush feature

A combined single Test/Hush button on the ionisation and photoelectric detectors allows the home owner or installer to test the operation of the smoke alarm by holding down the Test button and sounding the alarm.



The same push-button can be used to silence the smoke alarm in the case of an unwanted or false alarm. Press and hold the Hush Button to quiet the alarm. Normal operation will automatically resume after about 10 minutes.

If the smoke level continues to rise while the alarm is in Hush Mode the alarm will be re-activated, signifying that there may still be a fire burning or other hazardous condition present.

ultra reliable operation

easy installation

interconnectable up to 40 units

super low profile,  
fully recessed design

dust cover to prevent  
contamination during  
installation

loud alarm indication:  
85dB at 3 metres

mains powered 220-240V a.c. 50Hz 35mA

9V d.c. battery backup (included)

unit cannot be operated  
without 9V battery fitted

5 year limited warranty

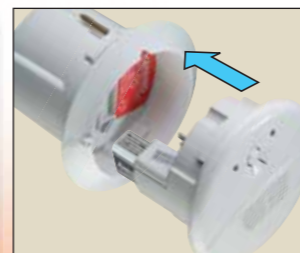
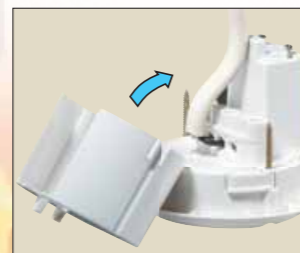
low battery indication  
(audible and visual)

hush button to silence  
unwanted alarms

complies with Australian  
Standard AS3786,  
Smoke Alarms

## Battery backup facility

Smoke alarms with an a.c. power source are constantly powered, but also incorporate a backup battery. This ensures that the alarm is always operational, even if the mains power is cut.



“60% smaller”



## Instant alarm status



Clipsal Firetek® smoke alarms incorporate both audible and visual indicators to notify occupants of the alarm status.

During normal operation, a green indicator signifies power available, whilst a red indicator flashes about once per minute showing the battery check in progress.

If smoke is detected the alarm will sound a loud 85 decibel audible siren. The red indicator flashes rapidly (about once per second) to indicate the alarm has been activated.

If the user presses the Hush Button, the audible alarm will be silenced, and the red indicator will flash periodically (about once every 10 seconds) to show the Hushed status.

OPERATION GUIDE		
RED INDICATOR	SIREN	MEANING
FAST FLASH	ON	LOCAL ALARM
MEDIUM FLASH	OFF	UNIT IN HUSH MODE
SLOW FLASH	OFF	NORMAL OPERATION
OFF	CHIRPS	LOW BATTERY CONDITION
OFF	ON	REMOTE ALARM
OFF	OFF	ALL POWER LOST
GREEN INDICATOR	SIREN	MEANING
ON	N/A	MAINS POWER OK
OFF	N/A	MAINS POWER LOST
SEE INSTALLATION MANUAL FOR FURTHER DETAILS		
<b>WHEN ALARM BEEPS AT APPROXIMATELY ONE MINUTE INTERVALS REPLACE BATTERY</b>		

# Surface Mount smoke alarm

Clipsal Firetek® Surface Mount Smoke Alarms feature a stylish, state of the art design. The alarm is fully mains powered and features a 9V battery backup in case of power failure, so your family is always protected.

Audible and visual indicators draw the occupant's attention to any alarm condition or to alert the home owner of a low battery status.

The unit is interconnectable (up to 40 units), making it ideal for any domestic or commercial installation. When activated, the alarm sounds at a loud 85db to alert occupants. A large Test/Hush button can be used to regularly test the unit for normal function, or to silence the unit in the case of an unwanted alarm.

Both photoelectric and ionisation smoke alarm models are available to ensure maximum protection from different types of fires. For maximum protection, a combination of both types of smoke alarms should be used throughout your home or building. This ensures the earliest possible warning in the event of a fire, increasing the chances of escape and survival.

The Clipsal Firetek® range offers a total trouble free system for selecting the correct smoke alarm, backed by a 5 year warranty.

contemporary styling and smooth lines will blend in with any décor

easy installation

interconnectable up to 40 units

dust cover to prevent contamination during installation

hush button to silence unwanted alarms

5 year limited warranty

9V d.c. battery backup (included)

unit cannot be operated without 9V battery fitted

mains powered  
220-240V a.c. 50Hz 35mA

loud alarm indication: 85dB at 3 metres

ultra reliable operation

built in test facility to test unit function

complies with Australian Standard AS3786, Smoke Alarms

low battery indication (audible and visual)

## Test/Hush feature

A combined single Test/Hush button on the ionisation and photoelectric detectors allows the home owner or installer to test the operation of the smoke alarm by holding down the Test button and sounding the alarm.



The same push-button can be used to silence the smoke alarm in the case of an unwanted or false alarm. Press and hold the Hush Button to quiet the alarm. Normal operation will automatically resume after about 10 minutes.

If the smoke level continues to rise while the alarm is in Hush Mode the alarm will be re-activated, signifying that there may still be a fire burning or other hazardous condition present.

## Battery backup facility

Smoke alarms with an a.c. power source are constantly powered, but also incorporate a backup battery. This ensures that the alarm is always operational, even if the mains power is cut.



## Instant visual status



Clipsal Firetek® Smoke Alarms incorporate both audible and visual indicators to notify occupants of the alarm status.

During normal operation, a green indicator signifies power available, whilst a red indicator flashes about once per minute showing the battery check in progress.

If smoke is detected the alarm will sound a loud 85 decibel audible siren. The red indicator flashes rapidly (about once per second) to indicate the alarm has been activated.

If the user presses the Hush Button, the audible alarm will be silenced, and the red indicator will flash periodically (about once every 10 seconds) to show the Hushed status.

OPERATION GUIDE		
RED INDICATOR	SIREN	MEANING
FAST FLASH	ON	LOCAL ALARM
MEDIUM FLASH	OFF	UNIT IN HUSH MODE
SLOW FLASH	OFF CHIRPS	NORMAL OPERATION LOW BATTERY CONDITION
OFF	ON OFF	REMOTE ALARM ALL POWER LOST
GREEN INDICATOR	SIREN	MEANING
ON	N/A	MAINS POWER OK
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SEE INSTALLATION MANUAL FOR FURTHER DETAILS		
<b>WHEN ALARM BEEPS AT APPROXIMATELY ONE MINUTE INTERVALS REPLACE BATTERY</b>		

# Quality by design

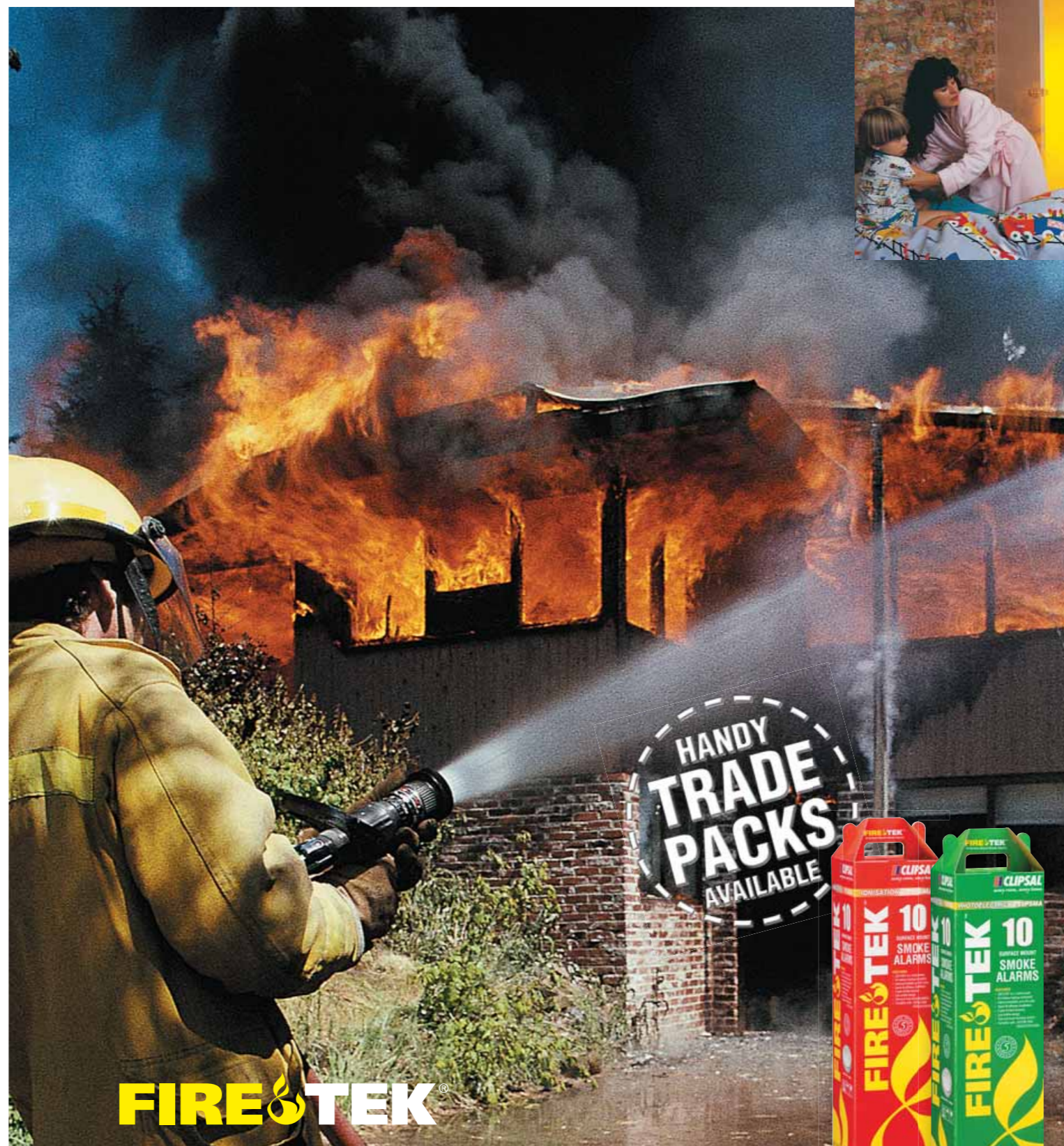
All Clipsal FireTek® Smoke Alarms are manufactured to the highest possible quality to comply with relevant Australian standards, and are SSL/ActiveFire listed to ensure full compliance with the Building Code of Australia. For added peace of mind, Clipsal FireTek® also comes with a 5 year limited warranty.

Clipsal Firetek® smoke alarms are manufactured to exacting standards. Designed in Australia especially to suit the harsh Australian conditions, you can be sure that you will always be protected.

# Compliance & approvals

All Clipsal FireTek® smoke alarms are designed to ensure maximum protection in residential and commercial applications.

- 🔥 Each model available carries the RCM mark, ensuring electrical safety and EMC compliance (emissions and immunity).
- 🔥 All units comply with the latest Australian standards (AS3786 Smoke Alarms) and are ActivFire certified to ensure compliance with the Building Code of Australia (BCA).
- 🔥 Units are manufactured to the highest quality standard as endorsed by SAI Global as a Certified Product. Independent auditing ensures manufacturing facilities are compliant with ISO 9001.
- 🔥 Clipsal FireTek® Smoke Alarms are fully backed by a five year manufacturer's warranty as a further endorsement of product and reliability.



# Features & benefits

- 🔥 Surface and flush mount models available.
- 🔥 Available in photoelectric and ionisation detection technologies for optimum response times.
- 🔥 Mains powered smoke alarm 220-240 a.c. 50Hz 35mA.
- 🔥 9V d.c. battery backup (included).
- 🔥 Quick fit-off/easy installation.
- 🔥 Loud alarm indication: 85dB at 3 metres.
- 🔥 Ability to interconnect up to 40 units.
- 🔥 Low battery indication (audible and visual).
- 🔥 False alarm control using Hush button (available on both models).
- 🔥 Built-in test facility.
- 🔥 Unit cannot be operated without 9V battery fitted.
- 🔥 Dust cover to prevent contamination during installation.
- 🔥 Complies with Australian Standard AS3786, Smoke Alarms.
- 🔥 SSL / ActivFire certified.
- 🔥 Quality endorsed Certified Product, SAI Global.
- 🔥 5 year limited warranty.

# Photoelectric vs Ionisation

When choosing a smoke alarm, it is important to know that different models use different methods to detect smoke. There are two main types of smoke detectors: ionisation, and photoelectric types. Each is specifically designed to detect different types of smoke, and give the earliest possible warning in the event of a fire.

The amount of warning given depends on the type of combustible material that is burning, and the type of alarm selected for your home. The more warning you get, the more time you have to escape the deadly toxic smoke and flames.

Ionisation type alarms respond faster to small smoke particles, such as those given off by burning paper, straw, or wood.

Photoelectric alarms respond faster to larger smoke particles, such as those produced by burning foam, rubber, plastics and other synthetic materials.

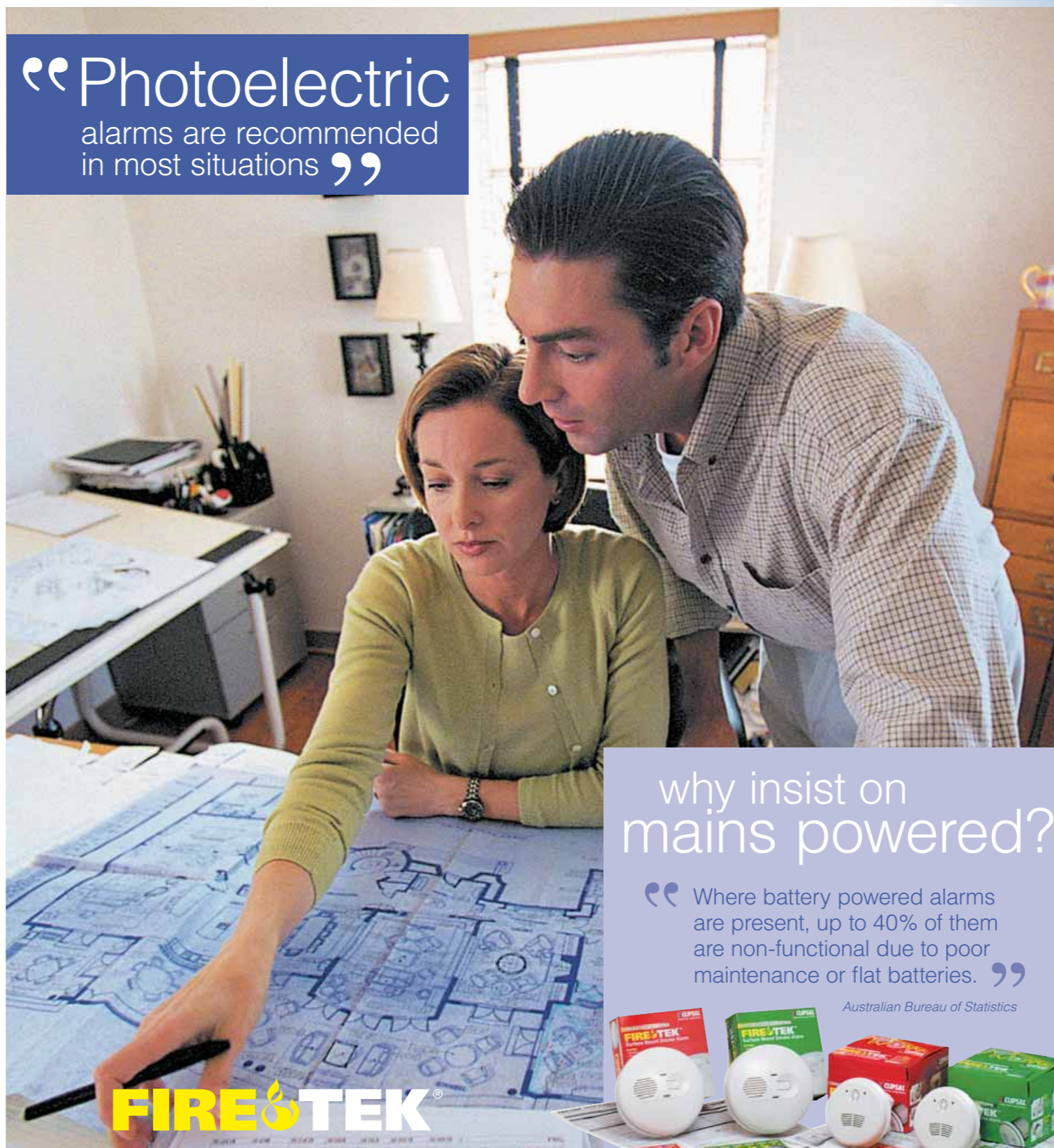
Nowadays, most homes are filled with synthetic materials. These include nylon found in carpets and curtains, plastic consumer goods and the foam rubber found in a lounge chair or mattress of your bed.

Therefore the best detector type for your home is usually a photoelectric detector type. For the ultimate protection, a combination of both ionisation and photoelectric is recommended.

## Typical applications

MODEL	TYPE	TYPICAL APPLICATIONS
755PSMA 755PFM	Photoelectric	<ul style="list-style-type: none"> <li>• Lounge</li> <li>• Living areas</li> <li>• Bedrooms</li> <li>• Rumpus</li> </ul>
755SMA 755FM	Ionisation	<ul style="list-style-type: none"> <li>• Hallway</li> <li>• Corridor</li> <li>• Study/ Home office</li> </ul>

“Photoelectric alarms are recommended in most situations”



why insist on mains powered?

“Where battery powered alarms are present, up to 40% of them are non-functional due to poor maintenance or flat batteries.”

*Australian Bureau of Statistics*

# Battery vs Mains Powered

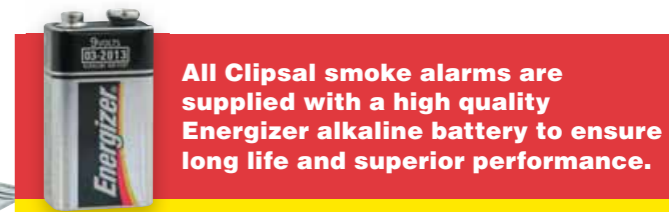
Smoke alarms can either be mains powered, or battery powered. Battery powered smoke alarms are commonly available from supermarkets and hardware stores. These types of alarms DO NOT comply with the required regulations for new buildings, as they offer an inferior level of protection.

Battery alarms have a big weakness – they rely on YOU to test and change the battery on a regular basis. All too often we get lazy or forget to do this, and the results can be catastrophic. In the event the battery goes flat, the alarm cannot detect smoke, and will not alert you to any danger.

All mains powered smoke alarms have a continuous source of power and also incorporate a backup battery. That way the alarm can respond to the presence of smoke, even if the mains power is cut.

Mains powered smoke alarms also offer features that are not available in battery powered models, including the ability to be interconnected.

Mains powered smoke alarms can also be interconnected so that when one alarm trips, all units will sound – ensuring adequate warning and the best possible reaction time.



**All Clipsal smoke alarms are supplied with a high quality Energizer alkaline battery to ensure long life and superior performance.**

# How many smoke alarms do I need?

The Building Code of Australia mandates the installation of at least one smoke alarm in every new home – but is one enough?






Let's say the alarm is installed in the main living area of your home and a fire breaks out. If you are asleep in another area of the home, perhaps with the bedroom door closed, you may not hear the alarm until it is too late... By the time you respond, the house is engulfed in flames, and deadly toxic smoke may block your exit path to safety...

As a general rule of thumb, alarms need to be installed within 10 paces of a fire to detect the smoke and still give you adequate time to escape. That is why it is so important to have at least two alarms installed in your home.

The best protection is an alarm in every room – excluding the kitchen, laundry and bathrooms. All alarms should be interconnected, so that if smoke is detected by one alarm all units will respond and warn you, no matter where you are in the house.

# Where should they be installed?

Smoke alarm installation locations should be carefully selected in order to maximise their effectiveness and response time. It is also important to avoid certain areas so as to minimise the chance of false alarms or nuisance tripping. Follow these important guidelines.

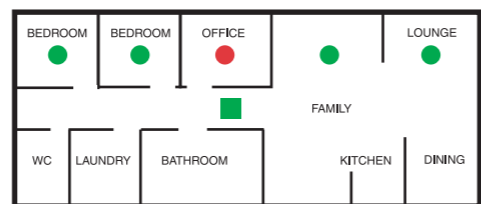
-  **Never** install a smoke alarm in the kitchen area.
-  **Never** in a steamy area (eg, bathroom, laundry).
-  **Never** in a garage or carport.
-  **Never** in an outside location.
-  **Always** avoid "dead air spaces".

The correct selection and placement of your smoke alarms is a critical issue. Thankfully, most electricians have been fully trained in all aspects of fire protection, and will be able to give you professional advice as a part of your installation.

“ always install more than one smoke alarm ”

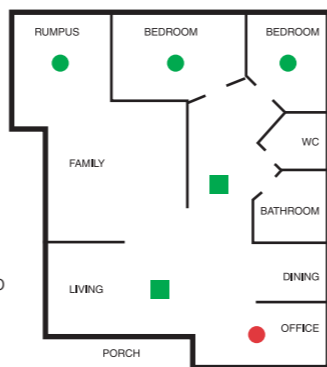
## If you sleep with your bedroom doors closed:

It is recommended additional alarms be installed in the bedrooms, interconnected with those located in passageways and other parts of the dwelling, to ensure that you are alerted by the activation of any alarm.



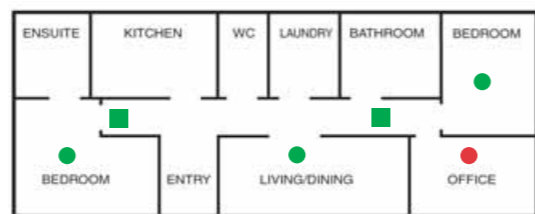
## If there is no passageway:

If bedrooms are accessed directly from the living area, install the alarm outside each bedroom 900mm from the doorway. For additional protection, have interconnected alarms in the bedrooms as close as practicable to the centre of each room.



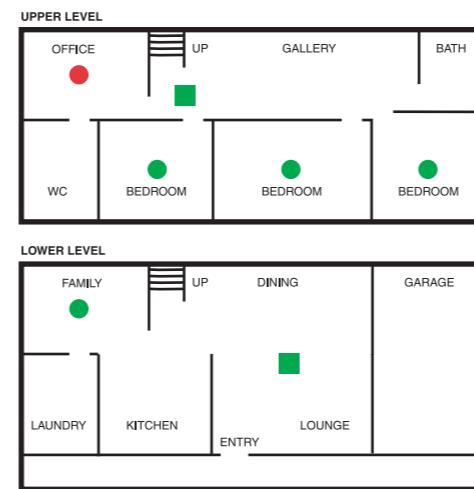
## If there are bedrooms at both ends of the house:

Install interconnected alarms in the passageway to each of these areas. In passageways, the installation point should be at the end closest to the living area and certainly before the first bedroom is reached so that when the alarm sounds, there will be sufficient time to allow evacuation by normal exit routes.



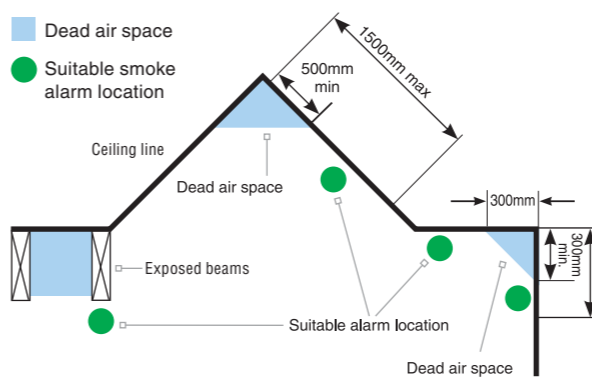
## If you have a stairway leading to another storey:




Install a smoke alarm on the ceiling above the head of the stairs. If the stairway is enclosed, install the alarm on the ceiling within the enclosure near the exit to the upper storey, and interconnect it with alarms in the upstairs room or passageway.



## Avoid dead air space:

Smoke will not flow into 'dead air spaces'. Avoid the marked regions to ensure optimum response from the alarm.



-  Absolute Minimum Requirement. Photoelectric recommended.
-  Photoelectric Smoke Alarm, for extra protection.
-  Ionisation Smoke Alarm, for extra protection.

# Did you know?

When you are asleep you lose your sense of smell. In the event of a fire, the smell of smoke will not wake you. Your life depends on your ability to be able to hear the audible alarm.

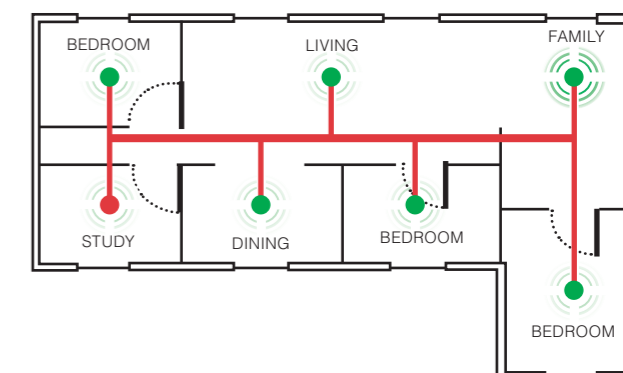
That's yet another important reason why you should have more than one smoke alarm installed in your home, and why they should always be interconnected.

# Why is it important that my alarms be interconnected?

Where multiple smoke alarms are installed, they can be linked together or "interconnected" as desired. This ensures that if one alarm detects smoke, then all interconnected alarms will activate to sound the warning simultaneously in all locations in the house.

This is especially important in larger, or multi-storey homes, where the alarm that detects the smoke from a fire (i.e. the alarm closest to the fire) may simply be too far away for occupants to hear. By the time you hear the alarm the fire may be out of control, and your route to safety may be cut off.

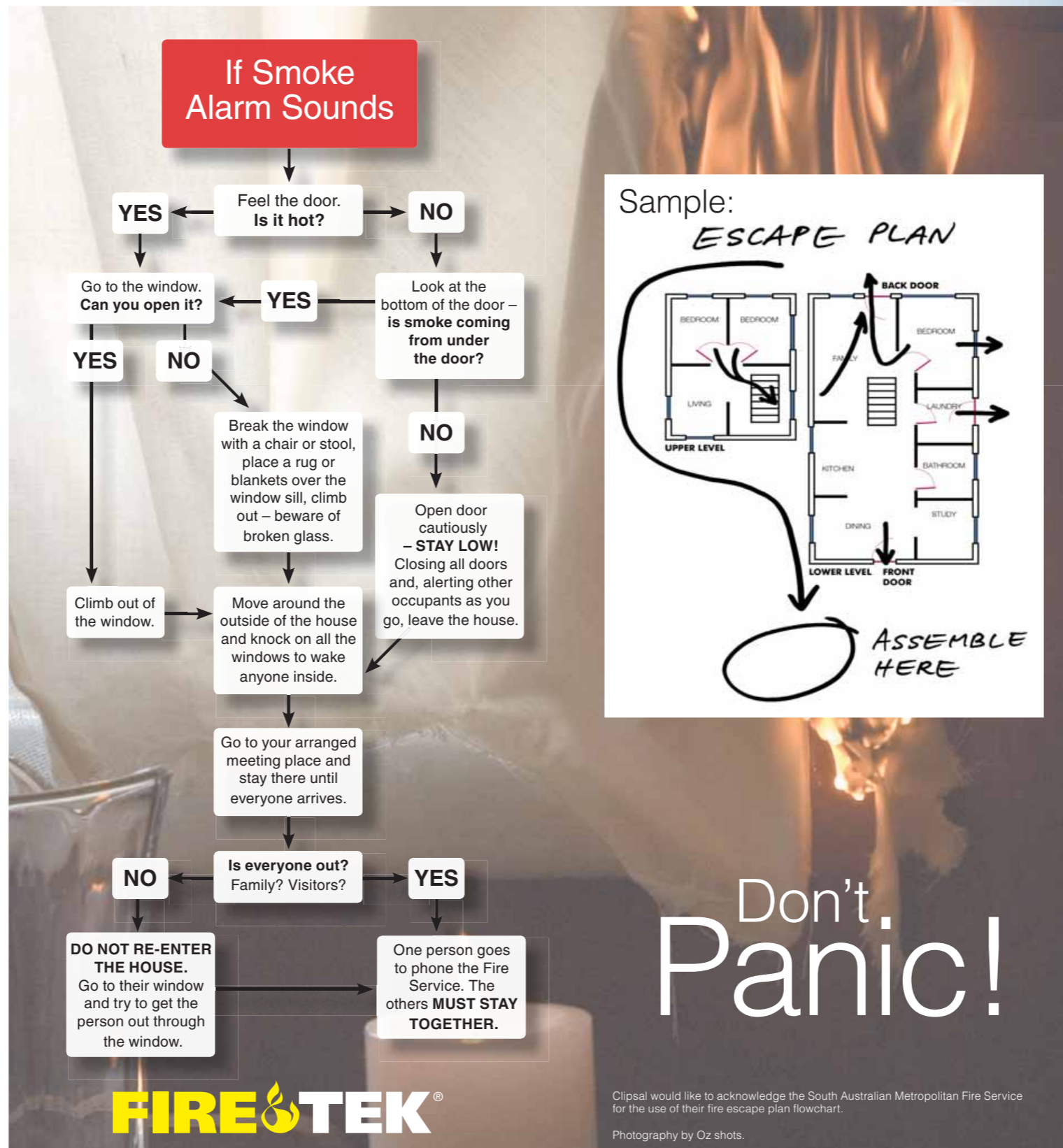
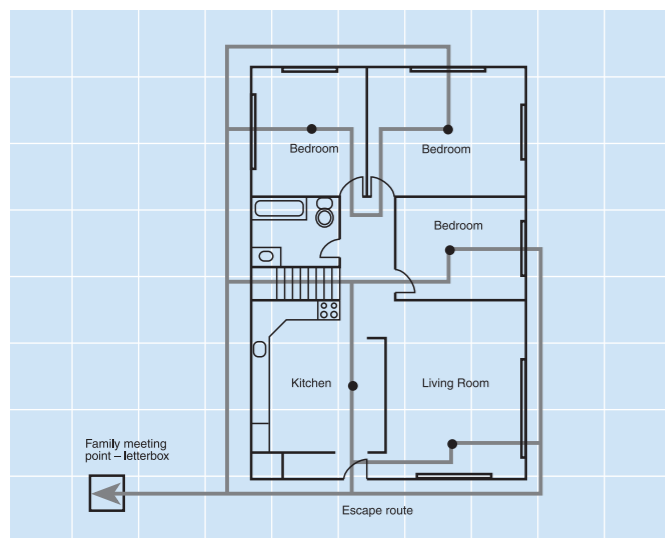
Clipsal Firetek® Smoke Alarms allow up to forty alarms to be linked, ensuring that you will have the earliest possible warning of a fire danger no matter where you are in the house, and leaving you more time to exit safely.



# What to do if the alarm sounds

1. Leave immediately, following your family's escape plan.
2. As you leave, don't open any inside doors without first feeling the surface. If a door is hot, or you see smoke coming through the cracks, do not open the door. Use an alternative exit.
3. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
4. If the air is smoky, stay as close to the floor as possible.
5. Breathe shallowly through a cloth, which if possible, should be wet.
6. Once outside, go to your pre-selected assembly area and make sure everyone else is there.
7. Call the Fire Department from a neighbour's home – never from your own.
8. Do not return to your home until fire officials give you permission to do so.

## Draw your escape plan here



## Developing an escape plan

Have an escape plan. In the event a fire does break out in your home, every member of the family should be prepared and know exactly what to do. Practise crawling low under smoke, checking doors before opening, and make sure everyone knows at least two ways out of the home. Decide on a place to meet after escaping.

Consult your fully trained local electrician for professional advice about all aspects of selection, location and installation of smoke alarm products.

More information about fire safety is also available from your local metropolitan or country fire service.

Here are some suggestions for developing your escape plan:

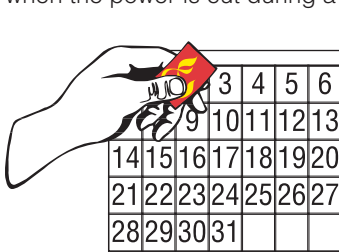
1. Make a floor plan which clearly indicates all doors and windows in your home and at least two escape routes from each room. Multi-storey dwellings require special attention. For instance, upper storey windows may need a chain ladder or other fire stairway as a means of exit.
2. Determine a place outside your home (e.g. the letter box or front fence) where all family members can assemble if a fire occurs.
3. Discuss your escape plan with all members of your family. Show everyone, particularly young children, what to do in case of a fire.
4. Make sure all family members are familiar with the sound of the detector.
5. Sound the alarm at least every six months and practise your family's fire drill.



# Quick tips

## IS IT TIME FOR A NEW BATTERY?

Good quality smoke alarms typically operate from the mains voltage supply, but they also contain a backup battery which allows the alarm to remain operational even when the power is cut during a blackout.



## SICK OF UNWANTED FALSE ALARMS?

To ensure the best protection for you and your family, follow these simple handy hints:

- Choose high quality alarms from a reputable supplier (Clipsal FireTek® recommended).
- Install multiple alarms, which are interconnected for the best protection.
- Have your alarms installed by a professional installer.
- Choose the correct alarm type for the location.
- Test the smoke alarm operation regularly (minimum once per month).
- Clean the unit regularly (minimum maintenance once per month).
- Check battery condition regularly (minimum once per month).

ACTION	HOW OFTEN?	COMMENTS
Test Battery	Once per month	<p><i>Like all battery operated appliances, your smoke alarm battery must be checked regularly to make sure that it will still function if there is a fire.</i></p> <p><i>To test the battery, press and hold the Test Button. This should be done with the mains power switched off (turn off the lighting circuit at the switchboard). The alarm should sound indicating the battery condition is acceptable. If the unit fails to respond, the battery should be replaced without delay.</i></p>
Replace Battery	Once per year	<p><i>From time to time the smoke alarm battery must be replaced with a new one. Clipsal recommend choosing a common date that occurs every year and is easy to remember (such as your birthday, or at the end of daylight saving time). The battery should also be replaced if the alarm fails to sound when you press and hold the Test button.</i></p>
Replace Smoke Alarm Unit	After 10 years of normal service	<p><i>All smoke alarms (regardless of manufacturer) have a limited service life, normally ten years. After that period, correct operation of the alarm cannot be guaranteed. The entire smoke alarm unit should be replaced with a new one.</i></p>



**Clipsal Lifesaver**  
Another Lifesaver initiative from Clipsal Australia

Patent Pending  
Australian Electrical Authority Certificate of Suitability for the surface mount smoke alarm – CS/1245/S  
Australian Electrical Authority Certificate of Suitability for the flush mount smoke alarm – CS/1253/S



Thanks to the South Australian Metropolitan Fire Service and Oz Shots for fire photography.

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