



# Hyfire

**Orama group**

## **EvacWireless**

**Fast compliance to the new BS8629  
standard in high-rise residential buildings**

# Hyfire's EvacWireless

Hyfire's EvacWireless evacuation system represents the optimal choice for the evacuation within high-rise residential buildings, thanks to the ease of installation, simplified maintenance requirements and the limited disruption to site.



EvacGo by Advanced

# Application of BS 8629:2019



**Mandated throughout UK**



*Blocks of flats with a top storey over 18m and above ground level*

## BS8629:2019 - the new code of practice for evacuation alert systems in high-rise residential buildings

The British Standard BS8629, introduced in England on November 2019, is applicable to both new and existing buildings, currently covering all residential properties over 18 metres.

It identifies the critical design criteria required to achieve an effective evacuation, controlled by the Fire and Rescue Services.

It provides recommendations about the evacuation alert system comprising the evacuation alert control indicating equipment (EACIE) along with the audible and visual alarm devices, to ensure simple, consistent and intuitive operation.

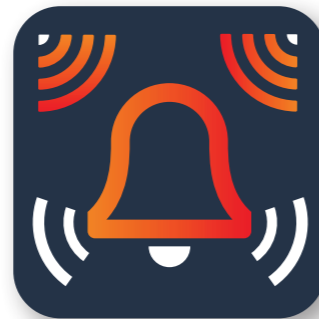
## Standards of conformity



Audible evacuation alert devices  
BS EN 54-3



Visual alert devices  
BS EN 54-23



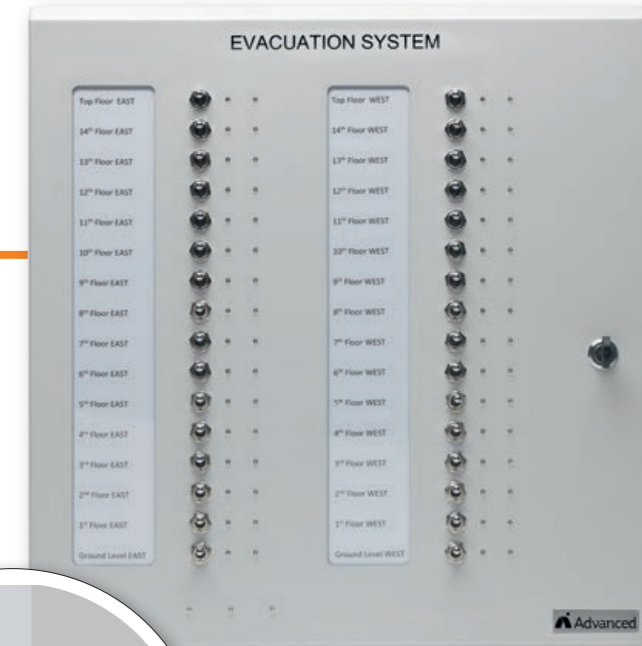
Wireless devices  
BS EN 54-25



Short circuit isolators  
BS EN 54-17

## Key features of the system

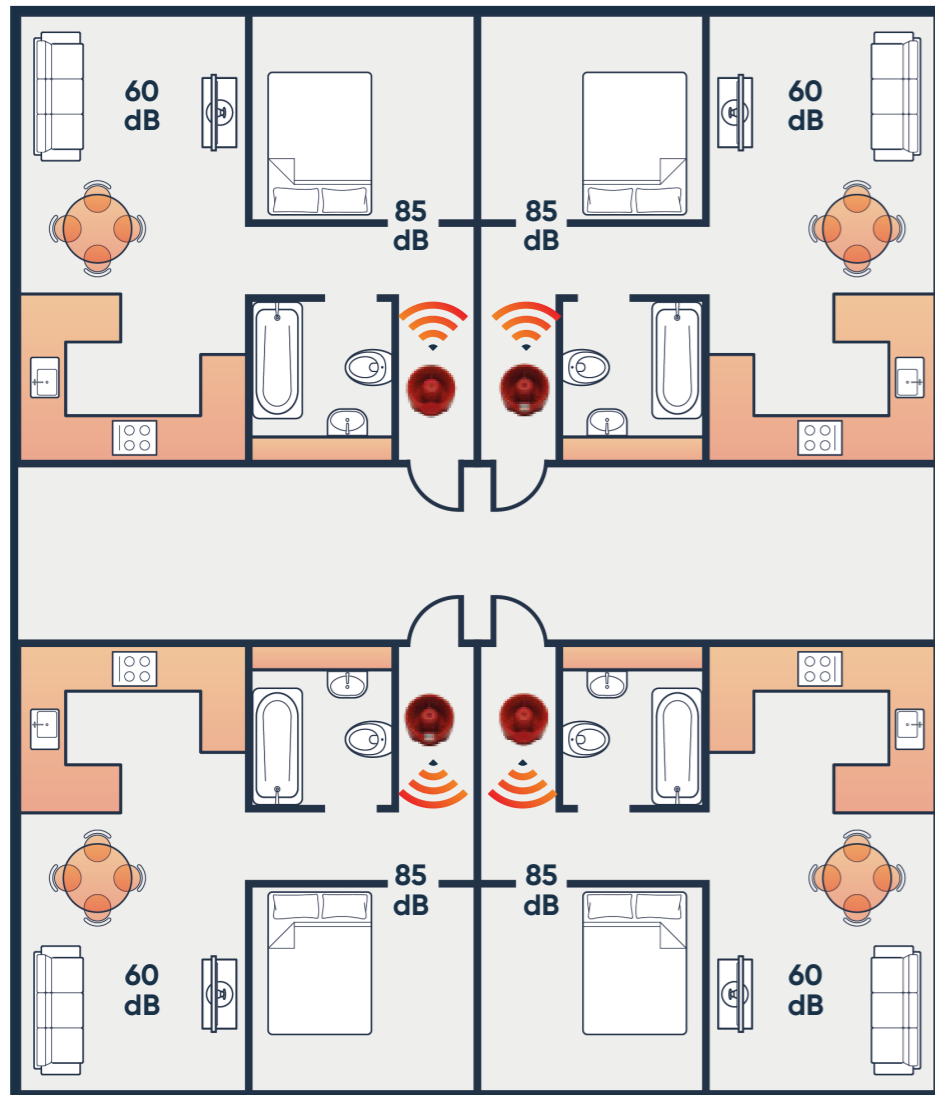
Install EACIE that has on/off toggle switches for the fire and rescue service (FRS) to operate sounders in different evacuation alert zones



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# Evacuation devices

# Operation



Install all evacuation alert devices on walls at least 150mm below ceiling level

- Install evacuation alert sounders in every flat hallway (or the room onto which the flat entrance door opens)
- Evacuation alert must be clearly distinguishable from any other alarm signal and give clear warning of the need to evacuate
- Evacuation alert sound pressure level must be at least 85dB(A) at bedroom doors and 60dB(A) in the principal habitable room
- Evacuation alert sounder frequency should be between 500Hz and 1000Hz

A fault on one circuit containing evacuation alert devices should not affect any other circuit



In buildings with 10 storeys or fewer:

Two simultaneous faults on an evacuation alert device circuit should not disable the evacuation alert devices on more than half the number of storeys with flats

In buildings with 10 storeys or more:

Two simultaneous faults on an evacuation alert device circuit should not disable the evacuation alert devices on more than a third of the number of storeys with flats

# Hyfire's EvacWireless evacuation system

# Recommended design of the EvacWireless system



## Available to sell with EvacGo fire panel by Advanced

- It uses the robust MxPro 5 Advanced panel technology
- 1 to 4 loop formats supporting 500 mA per loop for total flexibility

## Superior performance evacuation devices

- Adjustable volume levels and multiple tone settings
- No need for additional isolators
- Vandal proof box available for translator and expander

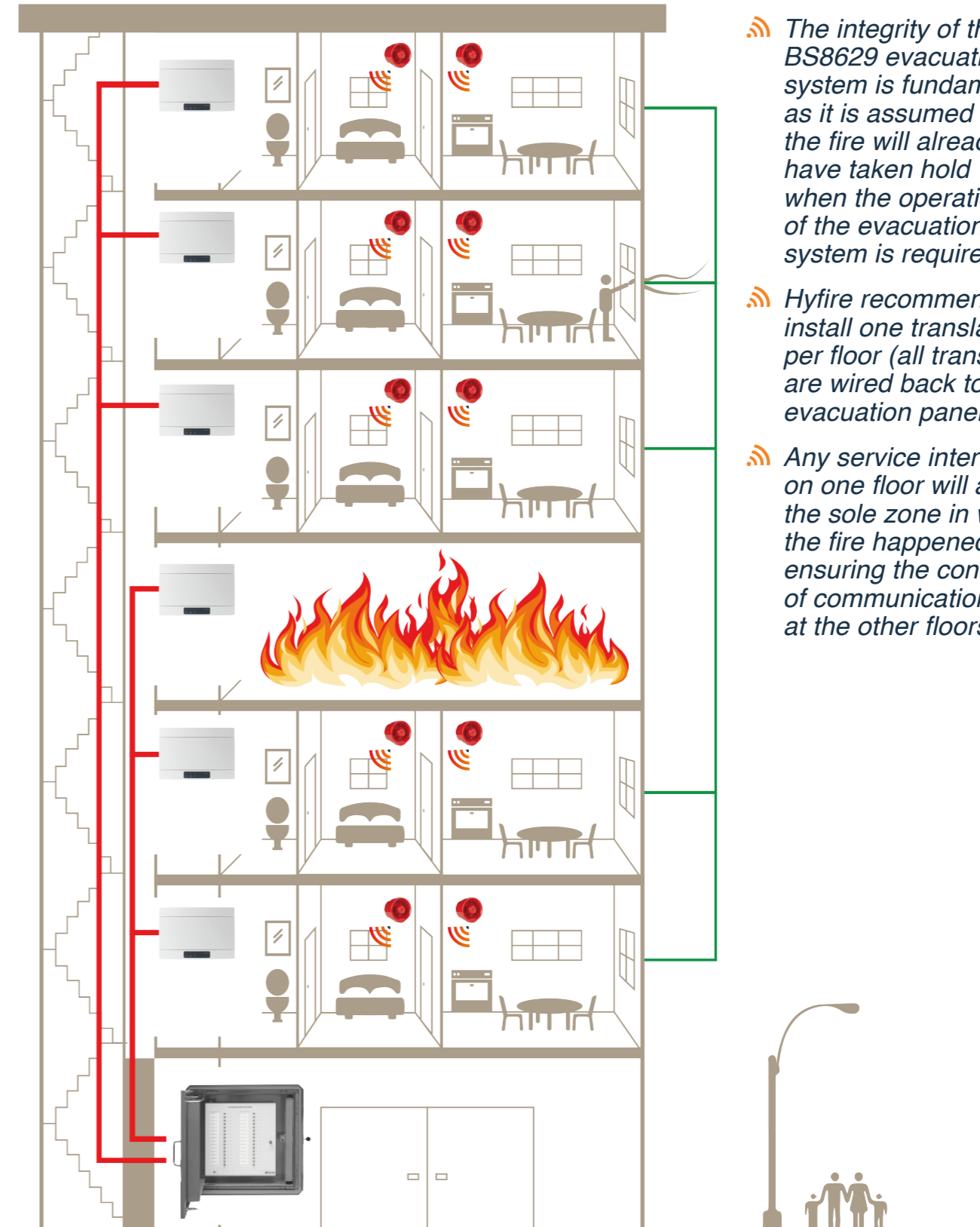


## Rapid & cost-effective installation

- Minimal cabling and labour required
- No damage to flats or decor
- Minimal disturbance to tenants
- Cost-effective compared to wired solutions or waking watches
- No drilling through fire compartmentation

## System flexibility

- Easy to maintain
- No need for 2 man testing
- System easily extendable or adaptable to suit layout alterations



The integrity of the BS8629 evacuation system is fundamental, as it is assumed that the fire will already have taken hold when the operation of the evacuation system is required.

Hyfire recommends to install one translator per floor (all translators are wired back to the evacuation panel).

Any service interruption on one floor will affect the sole zone in which the fire happened, ensuring the continuity of communication at the other floors.



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