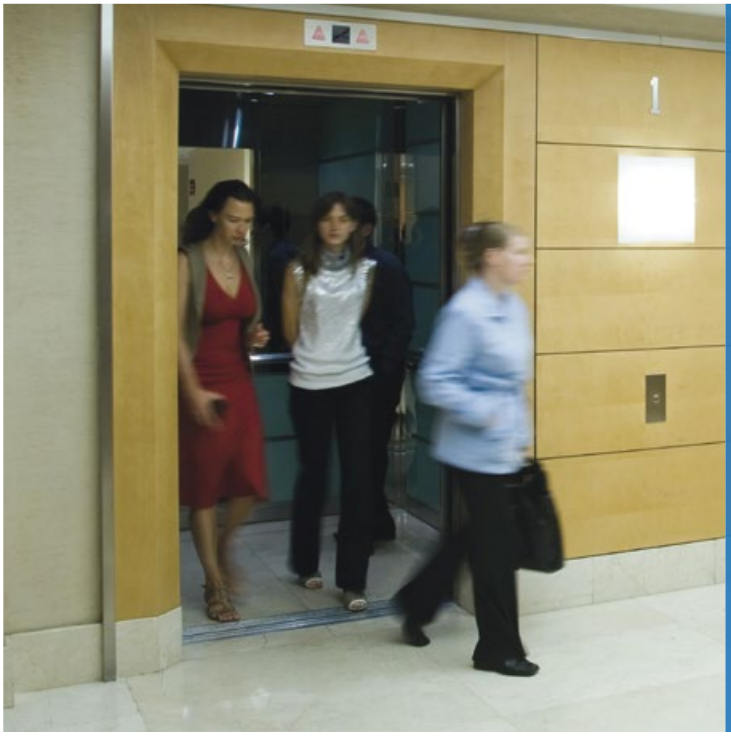
KONE SOLUTION FOR EN 81-72

COMPLETE SOLUTION FOR FIREFIGHTERS ELEVATORS



Safety requirements and/or protective measures must be considered for the building and the elevator.

BUILDING:

- Environmental building requirements
- Safety requirements
- Building water management
- Power supply
- Fire service communication system

ELEVATOR:

- Fundamental firefighter elevator requirements
- Rescue of trapped firefighters in the elevator shaft
- Control system
- Car and landing controls
- Fire service communication system

KONE has complete solutions for firefighters elevators (EN 81-72) to meet specific customer requirements. A wide range of KONE Design Mix&Match materials and KONE Design options can be selected.

The KONE solutions for firefighters elevators fulfill both the environmental and functional requirements of EN 81-72. Trap doors and ladders for rescue operations are provided for high floor-to-floor distances; electrical components in the shaft and on the car are protected against splashing water; and elevator operation is according to the requirements of EN 81-72 when using the specified control devices for firemen.

Please select the KONE solution for fire service using the materials and devices listed on the other side, or contact your local KONE sales office for more detailed information.

A firefighters elevator can be used as a normal passenger elevator even if it has the additional protection, controls and signalization to enable it to be used under the direct control of the firefighter.

Fundamental firefighters elevator requirements

- Minimum car size 1100 mm x 1400 mm, 630 kg
- Minimum door width 800 mm
- Elevator shall be able to reach the highest floor to be served in firefighting operations from the fire service access level within 60 sec.*
- Trap door required, minimum 400 mm x 600 mm for 630 kg, and 500 mm x 700 mm for larger cars
- When evacuation required, minimum 1100 mm x 2100 mm for 1000 kg.

* For elevators with higher travel than 200 meters, this time may be increased by 1 sec for each 3 meters additional travel height.

Car interior options for firefighters elevators

1 CEILING
T5 fluorescent tubes LF53, LF77
LED spot lights LF56, LF68, LF88, LF97, LF98

2 CAR OPERATING PANEL
Partial height KSC D20
Full height KSC D40, KSC 573, KSC 673, KSC 675

3 HANDRAIL
HR41T, HR50, HR51, HR53

4 WALLS
Stainless steel (F,K,M)

5 FLOOR
Rubber (RC4, RC5, RC6, RC8, RC9)
Composite stone (SF2, SF5, SF6, SF21, SF22, SF23)
Stainless steel (SS)

Landing device options for firefighters elevators*

KSH D20, KSI D42,
KSI 573, KSA 573,
KSH 660, KSH 670, KSI 673, KSA 673

KSI D42

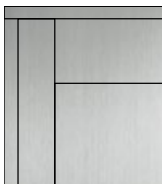

KSH D20


KSH 670

KSI D42

* Firefighters access level always requires position indicator

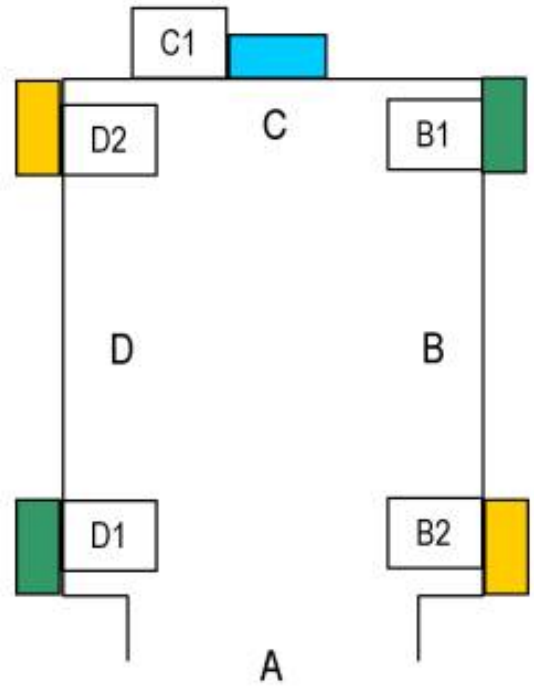
Landing door options for firefighters elevators



KES600/KES800 doors
Stainless steel (F, K, M, D, H)

Ladder positioning in the car

The position of the Ladder Cabinet is flexible depending on the load and the size and shape of the elevator car.



KONE Corporation

www.kone.com