

COMPLETE SOLUTION FOR FIRE FIGHTING ELEVATORS

# KONE Solution for EN81-72



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

**Building:**

- Environmental building requirements
- Safety requirements
- 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 firefighting elevators (EN81-72) 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 firefighting elevators fulfill both the environmental and functional requirements of EN81-72. 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 EN81-72 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 fire service 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 firefighting elevator requirements**

- Minimum car size 1100 x 1400 mm, 630 kg
- Minimum door width 800 mm
- Elevator must reach the farthest floor from the fire service access level within 60 sec.
- Trap door required, minimum 400mm x 600mm for 630kg, and 500mm x 700mm for larger cars
- Electrical equipment accessible to firemen either IPx3 rated or protected against splashing water, as specified in EN81-72.

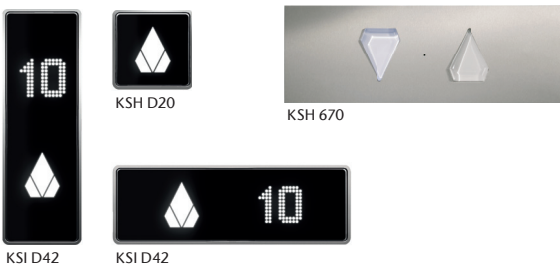


### Car interior options for firefighter elevators

- 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)

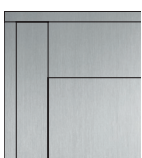
### Landing device options for firefighter elevators\*

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



\* Fire fighter's access level always requires position indicator

### Landing door options for firefighter 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.

