

Norway

An English language translation of the Norwegian Building Regulations is on this web site. The relevant extracts for sprinklers are below.

Chapter 11 Safety in case of fire

Section 11-2. Hazard Classes

Hazard classes	Structures designed for only the sporadic presence of people	People in the structure are familiar with the opportunities for escape, including escape routes, and can get to safety unassisted	Structure designed for overnight stays	Intended use of the structure does not represent a serious fire hazard
1	Yes	Yes	No	Yes
2	Yes/no	Yes	No	No
3	No	Yes	No	Yes
4	No	Yes	Yes	Yes
5	No	No	No	Yes
6	No	No	Yes	Yes

Section 11-12. Measures that influence evacuation and rescue times

(1) In structures designed for activities that could result in evacuation and rescue taking a long time, proactive measures shall be implemented that increase the available escape time. The following shall, as a minimum, be complied with:

- a) Structures, or parts of structures, in hazard class 4 that require a lift shall have an automatic fire extinguishing system. Parts of a structure with and without automatic fire extinguishing system shall have different fire sections.
- b) Structures in hazard class 6 shall have an automatic fire extinguishing system.

Section 12-3. Requirements relating to lifts in structures

(2) Buildings with three storeys or more containing dwelling units shall have lifts. The requirement does not apply for houses with one unit and in those cases where the access from the entrance to the dwelling unit is limited to one storey.

Explanation from a Norwegian government official:

Hazard class 4 is residential buildings

Hazard class 6 includes hospitals, nursing homes, care homes, hotels, prisons, housing for people seeking asylum. It also includes residential buildings especially designed for elderly and people with disabilities.

The purpose of installing an automatic extinguishing system in hazard class 4 and 6 is to protect people.

Automatic fire extinguishing systems are not required in other hazard classes. However, if a building is designed according to the Approved Document, the area of a fire section may be increased if a sprinkler system is installed as in the table below. This table is valid for all hazard classes. The purpose of installing a sprinkler system in this case is property protection.

According to the Approved Document there are also a few more pre-accepted trade-offs if a sprinkler system is installed.

Fire sections

Requirements: See section 11-7 of the regulations

Acceptable solutions according to the Approved Document:

Specific fire load MJ/m ²	Maximum area of a fire section (m ² on each floor)			
	No measures	Fire alarm system	Sprinkler system	Smoke ventilation system
> 400	800	1 200	5 000	N.A.
50-400	1 200	1 800	10 000	4 000
< 50	1 800	2 700	No limits	10 000