

## Summary of Regulatory Incentives to Install Sprinklers in Romania

Sprinklers are required in atria with a high fire load:

**3.7.2** In buildings with an atrium, the spaces adjacent to it, which are intended for commercial stores, exhibitions with fuel exposures and, in general, functions with high fire risks, must be equipped with automatic detection and fire extinguishing systems (sprinklers, drenchers, water spray).

Clause 7.1 lists the other areas where sprinklers are required

### 7.1.

**(1)** Automatic fire extinguishing systems, of the sprinkler type, is to be provided in:

**a)** civil buildings containing combustible liquids (importance category A or B), having a thermal load density greater than or equal to 420 MJ/m<sup>2</sup>;

**b)** tall buildings (floor above 28m), except for dwellings;

**c)** very tall buildings (floor above 45 m), except for dwellings;

**d)** filming platforms, television studios and scenes set up in enclosed structures, with areas larger than 150 m<sup>2</sup>, including their pockets, warehouses and annexed workshops;

**e)** underground commercial spaces with an area of more than 500 m<sup>2</sup> and a fire load density greater than or equal to 420 MJ/m<sup>2</sup>;

**f)** commercial buildings with an area greater than or equal to 1,500 m<sup>2</sup> and a fire load density greater than or equal to 840 MJ/m<sup>2</sup>;

**g)** factories where all the following conditions are met:

**(i)** a high or very high risk of fire (in practice fire load above 105 MJ/m<sup>2</sup>);

**(ii)** a fire load density greater than or equal to 420 MJ/m<sup>2</sup>;

**(iii)** an area of over 2,000 m<sup>2</sup>;

**h)** storage buildings, if the following conditions are fulfilled simultaneously:

**(i)** have a thermal load density greater than or equal to 840 MJ/m<sup>2</sup>;

**(ii)** have an area of over 600 m<sup>2</sup>;

**i)** underground parking lots according to the specific technical regulations;

**j)** closed above ground parking lots, if one of the following conditions is met:

**(i)** have more than 50 cars;

**(ii)** have more than 3 (three) levels;

**(iii)** they are part of a building with a floor higher than 28 m, or part of a public assembly building (theatres, cinemas, restaurants, auditoria, meeting rooms, discos) regardless of the number of cars;

**k)** other civil buildings, with the exception of dwellings, having an area greater than 1,250 m<sup>2</sup> and a fire load density greater than or equal to 840 MJ/m<sup>2</sup>;

**l)** spaces (one room or more rooms, including their circulation spaces) with the designation of disco or club, with an area of more than 1,000 m<sup>2</sup>.

In a separate document for underground car parks, the design of smoke ventilation systems for car parks below apartment buildings may be reduced from 900 to 600 m<sup>3</sup>/hour with sprinklers and detection.

Sprinklers are required for all underground car parks for more than 10 cars, except for car parks below apartment buildings that are not higher than 28 m and where the car park has no more than two underground levels and spaces for no more than 300 cars.