

Summary of Legislative Incentives for Fire Sprinklers

Construction Alternatives are in red

	Major airports sprinklered?	Places of assembly	Shopping Centres	Industry	Warehouses	Hotels	Care Homes	Hospitals	Teaching Establishments	Residential Accommodation	Offices	Car Parks
Belgium	Yes		>2,000m ²									
Denmark	Yes		>1,000m ² multi-floor >2,000m ² one floor	>2,000m ² high fire load >5,000m ² other fire load Can increase compartment from 1,000m ² to 10,000m ²	>2,000m ² high fire load >5,000m ² other fire load Can increase compartment from 1,000m ² to 10,000m ²			>1,000m ² sleeping area multi-floor >1,000m ² sleeping area multi-floor compartment limit from 600 to 2000m ² compartment limit from 600 to 2000m ²				>600m ² multi-floor; >2,000m ² one floor
Finland	Yes	Unlimited compartment or halve fire rating and 25% smoke extraction	Unlimited compartment or halve fire rating and 25% smoke extraction	Unlimited compartment or halve fire rating and 25% smoke extraction	Unlimited compartment or halve fire rating and 25% smoke extraction	Unlimited comp'mnt or 50% fire rating + 25% smoke ext'ctn	Often required following fire safety study.				Unlimited compartment or 50% fire rating + 25% smoke extraction	
France	No		>3,000m ² or with restaurant or >10,000kg paint Can increase storage of dangerous goods from 1,000m ³ to 2,000m ³		>3000m ² and less than 6000m ² >6000m ² with risk assessment and approval from Prefect							>5 underground storeys and only from 6th level Optional to detection if 3-5 underground storeys and only from 3rd level
Germany	Yes	>3,600m ² + or >22m high or below ground	>3000m ² or underground floors >500m ² 60 minutes less fire resistance for walls and ceilings; no need for smoke extraction; can increase travel distance by 35m	fire load >15kWh/m ² and >400m ² fire load >45kWh/m ² and <400m ² Width >40m & structure not rated Halve fire service water needs Increase compartment area 3-10 times depending on fire resistance Increase first basement floor from 1,000m ² to 3,500m ² ; lower floors from 500m ² to 1,750m ² Can increase travel distances by 15m <5m high; 20m <10m high Need less smoke extraction	>1,200m ² Storage > 7.5m high fire load >15kWh/m ² & >400m ² fire load >45kWh/m ² & <400m ²							Floors 4m below ground Car parks under other use buildings
Hungary			>8,000m ² >13.65m height		Double compartment size	>13.65m	>3 storeys	If beds >13.65m			>31.65m	Multi-floor underground; >13.65m height closed; >20 cars per compartment
Italy	No					>1,000 beds			Basements with fire loading >30 kg/m ²			Multi-floor underground Above ground: '-4 floors closed '-5 floors open Automatic car parks
Netherlands	Yes		Firework sales or storage >1000m ² fire compartment	>1000m ² fire compartment >10,000 kg dangerous goods	Firework storage >1000m ² fire compartment >10,000 kg dangerous goods							Reduce fire resistance from 30 to 60 minutes or increase travel distance and compartment size or fit fewer hydrants
Norway	Yes >1800m ² one floor >800m ² multi-floor	>1800m ² one floor >800m ² multi-floor	>1800m ² one floor >800m ² multi-floor	>1800m ² one floor >800m ² multi-floor	>1800m ² one floor >1200m ² one floor & >400MJ/m ² >800m ² multi-floor	multi-floor and >800m ²	Fit sprinklers or more staff at night + passive measures	>one floor in wooden building		multi-floor and >800m ²	Compartment >1800m ²	>1800m ² one floor
Poland		>600 people or sports stadia >3000 people	>10,000m ² one floor >2,500m ² multi-floor			>55m high				>55m high	>55m high	Underground & >100 cars
Spain	Yes	Need less smoke extraction in open buildings Elsewhere double fire compartment to 5,000m ²	High risk parts. Compartment >2500m ² Increase travel distance from 25m to 35m	>3500m ² & fire load >850 MJ/m ² Max. compartment sizes further reduced if the fire load is higher or the building adjoins other buildings Double compartments and reduce structural fire resistance	>2000m ² & fire load >850 MJ/m ² Maximum compartment sizes further reduced if the fire load is higher or the building adjoins other buildings	Required if top floor >28m	Required if top floor >28m	Double fire compartment to 5,000m ²	Double fire compartment to 5,000m ²			in archive area of office if >100m ³ ; in printing area of office if >500m ³ Double compartment to 5,000m ²
Sweden	Yes	Performance-based code	Performance-based code	Performance-based code	Performance-based code but warehouses usually sprinklered	Performance-based code but many hotels sprinklered	Performance-based code	Performance-based code	Performance-based code	Performance-based code	Performance-based code	Performance-based code
United Kingdom	No	If top floor >30m with phased evacuation Max. compartment area doubled to 4,000m ² Structural fire resistance reduced 30' if height <5m or 18m< height <30m.	In England and Wales for compartments >2000m ² Sprinkler store room or separate from retail area. Structural fire resistance reduced 30' if height <5m or 18m< height <30m. Required in all Scottish shopping centres	Double max. area per level in multi-floor building to 14,000m ² if <18m high 4,000m ² if >18m high. Instead of fire resistance for gallery >10m wide. Structural fire resistance reduced 30' if height <30m.	Double max. area per level in multi-floor building to 40,000m ² (<18m ht.) 8,000m ² (>18m ht.) Structural fire resistance reduced 30' if height <30m.	If top floor >30m with phased evacuation	Scotland if more than 6 residents			Scotland in buildings above 18m high		If top floor >30m with phased evacuation Reduce structural fire resistance by 30' (5m< height <30m).

*Not places of worship, educational establishments, museums