

**THE DIRECTOR
OF THE FIRE AND RESCUE DEPARTMENT,
UNDER THE MINISTRY OF THE INTERIOR**

**REGARDING AMENDMENT OF THE ORDER OF THE DIRECTOR OF THE FIRE AND
RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR
NO 1-338 OF 7 DECEMBER 2010 ‘ON APPROVAL OF ESSENTIAL REQUIREMENTS
FOR FIRE SAFETY’**

No of
Vilnius

I hereby amend the Essential Requirements for Fire Safety approved by Order No. 1-338 of the Director of the Fire and Rescue Department under the Ministry of the Interior of 7 December 2010 ‘On Approval of Essential Requirements for Fire Safety’:

1. I hereby modify point 31 as follows:

‘31. Buildings and premises for manufacturing, industrial, storage, other (farm) use (P.2.8, P.2.9, P.2.19), automated storage system buildings shall be classified according to their explosion and fire hazards, taking into account the quantity of materials contained therein, the characteristics of explosive and hazardous substances, and the nature of the production processes, into categories Asg, Bsg, Cg, Dg, Eg (Annex 1), and external installations into categories Asgi, Bsgi, Cgi, Dgi and Egi (Annex 2). Technical rooms (heat points, water inlet rooms, electrical panels, electrical inlet room) shall not be classified according to explosion and fire hazard.’

2. I do hereby supplement with paragraph 40¹ to read as follows:

‘40¹. The fire resistance requirements specified in Table 2 of the Regulations for Steel Load Bearing Structures for Automated Storage Systems Buildings shall not be mandatory when a fixed fire-fighting system is installed in an Automated Storage Systems Building, implementing the additional requirements specified in the Regulations on the Design and Installation of Fixed fire-fighting Systems [10.4]. This provision shall also apply where the storage of production and materials is provided for in steel racks, the structures of which are used as static support structures.’

3. Paragraph 79 is amended to read as follows:

‘79. Construction products used for building interior walls, ceilings, and floors shall meet the requirements specified in Table 5. The construction products used to construct the internal walls, ceilings and floors of buildings for automated storage systems shall be subject to the flammability class requirements for production and storage areas.’

4. I hereby modify point 80 as follows:

‘80. The use of construction products of reaction to fire class lower than B-s3, d0 for the external finishing of exterior walls of buildings of reaction to fire class I, buildings with automated storage systems shall be prohibited.’

5. I hereby modify point 83 as follows:

‘83. The use of construction products of reaction to fire class lower than D-s2, d1 of reaction to fire class D shall be prohibited for the external finishing and external insulation of external walls

of buildings of reaction to fire class II, buildings with automated storage systems, including double (ventilated) façades.’

6. I hereby modify point 92 as follows:

‘92. Spread of fire into adjacent buildings is limited by securing safe distances among the exterior walls of the buildings (hereinafter – the fire prevention distance) determined in accordance with Table 6. For automated storage system structures, fire distances shall be determined by treating these structures as buildings.

Minimal fire prevention distances among buildings

Table 6

Fire-resistance rating of the building	Distance (m) to adjacent buildings with a degree of fire resistance		
	I	II	III
I	6	8	10
II	8	8	10
III	10	10	15’

7. I hereby modify point 148 as follows:

‘148. Roads designed for the access of fire-fighting and rescue vehicles shall be provided to each building and automated storage system structure, fire-fighting source and a fire hydrant. Design requirements applicable to roads designed for the access of fire-fighting and rescue vehicles:

148.1 access to buildings and automated storage system structures, fire fighting source and a fire hydrant shall be provided by means of motorised access streets and roads, various types of traffic areas and squares, complying with statutory requirements [10.10], and adapted road surfaces [10.14];

148.2. the access road to buildings with a top floor elevation of less than or equal to 15 m and to automated storage system structures not exceeding 15 m in height shall be provided at a distance not exceeding 25 m;

148.3. access roads to buildings with a floor elevation of more than 15 m shall be provided on at least two longitudinal sides of the building in such a way as to enable fire-fighters to gain access to all the windows [10.22] and emergency exits of the building, by means of a vehicle ladder and/or a vehicle lift, depending on their technical capabilities. Access roads to get to automated warehousing systems structures with a height exceeding 15 m shall be installed on at least two longitudinal sides of the structure;

148.4. access roads to buildings may be provided only on one longitudinal side of the building, provided that from that side, through the windows [10.22] of each floor, fire-fighters will be able to access all the rooms and emergency exits of each floor by means of a vehicle ladder and/or by means of a vehicle lift depending on the technical capabilities. Where the width of the buildings of automated storage systems does not exceed 18 m, access roads to the structures of automated storage systems may be provided only on one longitudinal side of the building;

148.5. driveways shall be provided into enclosed or semi-enclosed courtyards where the elevation of the highest floor of the buildings therein exceeds 15 m. Driveways into the enclosed courtyard shall be provided at a minimum of every 800 m of the length of the outer perimeter of the building;

148.6. roads shall have a width of at least 3.5 m and a height dimension of at least 4.5 m. Where the road has a carriageway [10.10; 10.14], its width shall not be less than 3.5 m, except for existing IV_v local roads of category [10.10] and streets of category Ds [10.10] (urbanised, compact single-apartment and double-dwelling residential buildings in built-up areas and old towns);

148.7. in the case of structures with a top floor elevation less than or equal to 15 m, the dead-end road shall end in an area of at least 12 × 12 m, and in the case of structures with a top floor elevation greater than 15 m, the dead-end road shall end in an area of 16 × 16 m;

148.8. for the installation of vehicle ladders and/or vehicle lifts on buildings with a floor height of more than 15 m or automated storage system structures with a height of more than 15 m, a carriageway of not less than 6 m or a parking area of not less than 16 × 16 m shall be provided between 7 and 16 m in front of the building or the automated storage system structure, taking into account the height of the structure and the technical possibilities of the vehicle ladders and/or vehicle lifts. In the case of a 6 m wide carriageway or a 16 × 16 m site, the distances to the building or to the structure of the automated storage systems may be determined according to the technical capabilities of the aerial ladders and/or aerial lifts available in the area where the fire brigade operates;

148.9. no trees may be planted and no other obstacles may be placed between buildings and access roads for fire-fighting and rescue vehicles;

148.10. parking areas and access roads for fire-fighting and rescue vehicles shall be kept clear at all times by marking the areas with yellow lines or by the installation of no parking signs [10.15] or barriers. The enclosures must be between 10 and 20 cm high or easily removed (foldable or liftable by hand);

148.11. the use of existing roofs of extensions shall be permitted for the access of fire-fighting and rescue vehicles to structures, and shall be arranged in such a way as to take account of the load imposed by fire-fighting and rescue vehicles.'

8. Paragraph 1 of Annex 3 is amended to read as follows:

'1. In each case, the maximum area of the static fire compartment shown in Table 1 shall be determined according to the following formula:

$$F_g = F_s \cdot G \cdot \cos(90K_H),$$

where –

F_s refers to the conditional area of the fire section specified in Table 1 of this Annex and depending on the building designation, sq. m.

K_H refers to the coefficient of the estimated height, $K_H = H/H_{abs}$;

H refers to the height from the approach of fire-fighting and rescue vehicles to the lowest surface altitude of the building, or, where fire-fighting and rescue vehicle access is not required, from the lowest surface altitude of the portable fire ladder to the altitude of the highest floor (including the attic) of the building (fire compartment), in m. This height shall not exceed the calculated altitude (H_{abs}) in m;

H_{abs} refers to the calculated altitude specified in Table 1 of this Annex, depending on the purpose of the construction works, m;

G refers to fire safety rating coefficient of the building that generally is deemed to be equal to 1.

Coefficient **G** is determined by the following method:

$G = G_1 + \dots + G_8$, if G_1 coefficient is evaluated;

$G = 1 + (G_2 + \dots + G_8)$, if G_1 coefficient is not evaluated;

where – $G_1 \dots G_8$ refers to sub-factors for the assessment of the fire safety of a building depending on the capabilities of the fire safety systems installed in the building and the capabilities of the fire service; their numerical values are given in Table 2 of this Annex.

G_3, G_4 the values of the partial coefficients shall be applied only with the approval of the state fire-fighting service.

Values of Conditional Area of a Fire Compartment F_s and Estimated Altitude H_{abs} in the buildings of various designations

Table 1

Building group	Intended use [10.5]	Fire-resistance of the building					
		I	II	III	I	II	III
		Conditional Area of a Fire Section F _s (sq. m)			Estimated Altitude H _{abs} (m)		
Group P.1							
P.1.1	Residential (single apartment buildings)	2200	1400	1000	20	10	5
P.1.2	Residential (buildings of two flats)	2200	1400	1000	20	10	5
P.1.3	Residential (buildings of three and more flats – blocks of flats)	5000	2000	1000	56 (Note 1)	10	5
P.1.4	Residential (for various social groups) (children homes, shelters, nursing homes, etc.)	3000	1500	DP	10	5	DP
	Dormitories	5000	2000	1000	56	10	5
	Family homes						
	Convents and monasteries						
Group P.2							
P.2.1	Buildings of hotels and short-stay facilities (hotels, motels and guest houses)	5000	2000	DP	56 (Note 1)	10	DP
P.2.2	Administrative – buildings for administrative purposes (banks, post offices, state and municipal institutions, embassies, courts, other administrative buildings of institutions and organisations)	6000	2000	1000	56 (Note 1)	10	5

Building group	Intended use [10.5]	Fire-resistance of the building					
		I	II	III	I	II	III
		Conditional Area of a Fire Section F_s (sq. m)			Estimated Altitude H_{abs} (m)		
P.2.3	Commercial buildings for wholesale and retail sales (shops, petrol stations, pharmacies, trade pavilions, etc.)	12000	4000	2000	20	10	5
P.2.4	Buildings for provision of services and household servicing (saunas, beauty salons, laundries, repair shops, funeral homes, etc.)	6000	2000	1000	20	10	5
P.2.5	Catering buildings for serving food to people (canteens, restaurants, cafés, bars, etc.)	6000	2000	1000	20	10	5
P.2.6	Transport buildings for transport purposes, i.e. related to transportation, shipping, haulage (buildings of air ports, sea and river fleet, railway and bus stations, traffic posts, control-rooms, switch posts, port terminals, signalling, lighthouses, customs, etc.)	6000	2000	1000	20	10	5
P.2.7	Garage buildings for keeping vehicles (car garages, plane hangars, garages for carriages, buses and trolley-buses)	14000	6000	4000	20	10	5
P.2.8	Manufacturing, industrial buildings for manufacturing (factories, workshops, processing plants, blacksmiths, slaughterhouses, etc.)						
	Category A_{sg}	10000	8000	DP	20 (Note 1)	10	DP
	Category B_{sg}	12000	9000	DP	20 (Note 1)	10	DP
	Category C_g	14000	10000	6000	20 (Note 1)	10	5

Building group	Intended use [10.5]	Fire-resistance of the building					
		I	II	III	I	II	III
		Conditional Area of a Fire Section F_s (sq. m)			Estimated Altitude H_{abs} (m)		
	Category D_g	20000	15000	6000	20 (Note 1)	10	5
	Category E_g	25000	15000	6000	20 (Note 1)	10	5
P.2.9	Warehousing buildings, the direct designation of which is storage and guard (Note 2)						
	Category A_{sg}	5000	2500	DP	20	10	DP
	Category B_{sg}	6000	3000	DP	20	10	DP
	Category C_g	15000	10000	4000	20	10	5
	Category D_g	15000	12000	8000	20	10	5
	Category E_g	20000	15000	10000	20	10	5
P.2.10	Cultural buildings for cultural purposes (cinemas, cultural houses, clubs, libraries, archives, museums, exhibition centres, planetariums, radio and television buildings, etc.)	6000	2000	1000	56 (Note 1)	10	5
P.2.11	Scientific buildings for educational and scientific purposes (institutes and research establishments, observatories, meteorological stations, laboratories (except production laboratories), general, vocational and higher education establishments, kindergartens, nurseries, etc.)	6000	2000	1000	40	10	5

Building group	Intended use [10.5]	Fire-resistance of the building					
		I	II	III	I	II	III
		Conditional Area of a Fire Section F_s (sq. m)			Estimated Altitude H_{abs} (m)		
P.2.12	Treatment buildings for medical purposes, i.e. buildings in which medical care and assistance is provided to sick people (hospitals, clinics, polyclinics, sanatoriums, rehabilitation centres, special health care buildings, medical buildings, nursing homes, etc.), veterinary buildings	6000	2000	1000	40	10	5
P.2.13	Recreational buildings (campings, holiday houses, summer houses, hunting houses and other recreational buildings)	6000	2000	1000	20	10	5
P.2.14	Sports buildings (sports halls, gyms, tennis courts, swimming pools, skating rinks, yacht clubs, shooting ranges, stadiums, arenas and other buildings)	20000	2000	1000	20	10	5
P.2.15	Buildings used for religious purposes (churches, orthodox churches, chapels, synagogues, houses of worship, cathedrals and other buildings used for religious purposes)	5000	2000	1000	20	10	5
P.2.16	Buildings for special purposes (barracks, prisons, detention centres, police stations, fire stations, shelters, border checkpoints, technical surveillance towers, etc.)	5000	2000	1000	56 (Note 1)	10	5

Building group	Intended use [10.5]	Fire-resistance of the building					
		I	II	III	I	II	III
		Conditional Area of a Fire Section F_s (sq. m)			Estimated Altitude H_{abs} (m)		
P.2.17	Ancillary farm buildings (storehouse, garage, workshop, sauna, solid fuel store, summer kitchen, barn, greenhouse, shed, outdoor toilet, gazebo and other buildings) (Note 3)	5000	4000	1000	15	10	5
P.2.18	Other uses (farm) – buildings for the keeping (rearing) of farm animals (piggeries, cowsheds, stables, calf houses, poultry houses, etc.)	25000	15000	8000	20	10	5
P.2.19	Other (farm) buildings used for agricultural purposes (shed, barn, garage and other buildings used for agricultural purposes) (Note 3)	15000	12000	8000	20	10	5
P.2.20	Other (greenhouse) buildings for growing plants (greenhouses, orangeries, winter gardens, etc.)	Not regulated					
P.2.21	Other (garden) buildings within gardener communities (garden houses etc.)	2200	1400	1000	20	10	5
Group P.3							
P.3	Other – other buildings that may not be classified under any other defined designation of buildings	2200	1400	1000	20	10	5
Group P.4							
P.4	Engineering structures (Note 4)	6000	2000	1000	20	10	5

Notes:

1. Design of buildings with height (H) above the calculated altitude (H_{abs}) is permitted. For the calculation of the area of the fire compartment, the H value shall be 2 m lower than H_{abs} .

2. For the design of automated storage system buildings, the area of the fire compartment shall be evaluated in terms of the area of the built-up area or of the projection of the roof onto the ground surface.

3. Except for sheds for the storage of hay, straw, flax straw, bedding, etc., the relative fire compartment area of which shall not exceed 1,000 square metres.

4. Used in the design of civil engineering structures intended for public use [10.8], the area of the fire compartment shall be assessed on the basis of the building or roof projections to the surface of the ground.

Abbreviation used:

DP – design of buildings of the indicated fire-resistance rating is prohibited.’

Director
General of the Internal Service