













- AUTOMATIC SMOKE CURTAINS
- FIRE CURTAIN
- FIREPROOF GATES



winner in nomination:
«THE BEST PRODUCT IN PROVIDING FIRE SAFETY» automatic smoke curtains «FireDoors»



The company «FireDoors» is a part of «EuroRollet» group of companies which successfully works in the market of commercial real estate construction since 2006.

Our portfolio includes a number of extensive and large-scale projects such as:

- shopping centers («Palazzo», «Dana Mall», «Gallery Minsk», «ExpoBel», «Mile», «MoMo», «Korona», «Galileo», «Yarkiy»);
- car dealer centers («Audi», «Renault», «UAZ», «Caterpillar», «Chaina cars», «Nissan», «VW»);
- hotels («DoubleTree by Hilton Hotel Minsk», «Slavyanskaya», «Hampton by Hilton Minsk City Centre»);
- industrial buildings («GreatStone» Industrial park, plants: «Onega plus», «Minsk Civil Aviation Plant», «FerroliBel», car plant «BelGee» and «Unison»);
- office buildings and residential complexes.

«FireDoors» has started its independent activity in 2014. The key staff of our company are the competent specialists with 20 years of experience in fire safety field. For the present moment «FireDoors» is the first and only manufacturer of fire and smoke protection curtains in Belarus.

All the goods of the Company are certified in Belarus, Russia and Kazakhstan, there is implemented ISO 9001:2015 quality system. In addition, the company «FireDoors» is a resident of the Minsk City Technopark and has its own production and testing department on its territory.









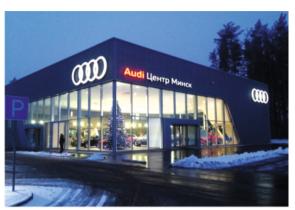
Moreover, «FireDoors» takes an active part in the development of innovative design solutions for the application of its products in the field of fire safety, using an integrated approach from design to maintenance of fire safety systems.

In 2016 «FireDoors» participated in the international salon «Integrated Security» in Moscow, in 2018 we took part in the exhibition «Security of Kazakhstan».

In September 2018, according to the results of the past XV anniversary of the Republican professional competition «BEST BUILDING PRODUCT of the YEAR 2018», our automatic smoke curtains «FireDoors» became winners in the nomination: «THE BEST PRODUCT IN PROVIDING FIRE SAFETY».











FIRE CURTAIN «FIREDOORS» Ei120, Ei60, Ei30

is a modern, reliable fire barrier. The design of «FireDoors» curtains is made in light of the modern requirements and technologies in the field of fire protection and with the use of high-quality materials. With the help of curtains it is possible to localize the source of fire, prevent the spread of fire and heat radiation through the opening, thereby enabling successful evacuation of people and reducing damage.

Due to its flexibility, fireproof curtains can replace almost any fire barrier at all stages of construction, reducing the estimated cost without changing the performance characteristics.

Due to the combination of their operational properties, flexibility of application and low cost fireproof curtains have found wide application as fire barriers in parking lots, shopping malls and industrial premises.

- Fire resistance limit: Ei120, Ei60, Ei30
- Production time: up to 3 weeks
- Own production in the Republic of Belarus
- High quality at a reasonable price
- Wide color scheme of the frame: up to 20 colors
- Dimensions of curtains are practically unlimited

THE SCOPE OF APPLICATION OF FIRE PROTECTION CURTAINS:

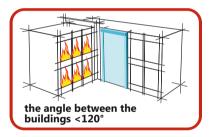


1. filling openings in fire barriers





2. filling openings in tambour gateways

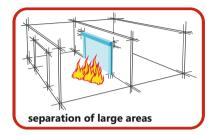


3. filling window openings **in case of non-observance of the standardized distances** horizontally between the nearest faces of the window openings located in the exterior walls of the building - in buildings with an internal angle



4. to limit the spread of fire through window openings in the outer walls to the upper floors with a distance between the openings in the vertical less than 1.2 m. If there are 5 to 50 permanent blind workplaces in the premises, not more than 50% of the windows may be provided as a blind grating





5. transformable fireproof partitions, if necessary **to divide the premises** into the parts provided that separate independent evacuationexits are provided from each part



6. transformable fire barriers **separating the atrium (at an atrium height of up to 15 m) from adjacent rooms or galleries**

7. partitions protecting the evacuation routes from adjacent premises, including from atrium galleries

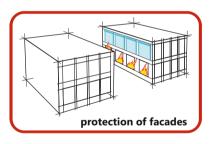


8. to limit the spread of fire through window openings in external walls to closely located buildings, if the normalized distances between buildings are not respected





9. the curtain is installed in fire barriers **separating the elevator halls from the evacuation routes**



10. to protect the outer walls of closely located buildings when the nor malized distances between buildings are not respecte



11. the curtains are installed along the perimeter of escalators and travelators throughout the entire height as a transformable fire barrier, to divide the building into firefighting compartments



AUTOMATIC SMOKE CURTAINS «FIREDOORS»

The FireDoors company has developed and implemented an innovative solution for creating smoke zones and removal of smoke outside the building using flexible transformable barriers - Namely automatic accordion type smoke curtains.

Smoke protection curtain accordion type (closed loop, without guides), used as a passive fire safety system to prevent the spread of combustion products to the upper floors of the atrium (shopping centers and office buildings). When the fire alarm is triggered, the lower part of the structure, located on the same level with the suspended ceiling, falls down creating a smoke pocket that prevents the spread of smoke to the upper floors of the atrium.

Such construction of curtains allows implementing any bold design solutions.











The design of «FireDoors» automatic smoke curtains is made in light of the modern requirements and technologies in the field of fire protection and with the use of high-quality materials. Company «FireDoors» is the first and only manufacturer of smoke curtains in the Republic of Belarus.

The fireproof curtains «FireDoors» are manufactured to any customer's requirements and have no restrictions on either height or width of the canvas.

Automatic smoke curtains are flexible transformable structures. They limit the spread in the ceiling space of large areas and volumes of smoke and flammable gases. Curtains, creating smoke areas, send smoke and flammable gases towards the exhaust devices.

The smoke protective fabric from which the curtain is made has a high smoke and gas tightness, protecting against fire and combustion products under different temperature conditions.

So, for example, when working together with aeration lanterns, a smoke shielding can be considered the main part of the life support system, in the event of a fire.

THE SCOPE OF APPLICATION OF AUTOMATIC SMOKE CURTAINS:

- in the rooms with an area of more than 3,000 m², it is necessary to divide into smoke zones, taking into account the possibility of a fire in one of them. As a rule, every smoke zone should be enclosed by dense vertical curtains made of noncombustible materials that descend from the ceiling (floor) to the floor, but not less than the calculated thickness of the smoke layer from the floor, forming smoke tanks under the ceiling. Smoke zones, enclosed or not protected by veils, should be envisaged taking into account the occurrence of possible fires.
- in the gallery space (if the galleries are not separated from the atrium by building structures), it is necessary to arrange continuous longitudinal vertical curtains (screens) along the entire length of the gallery, descending along its outer edge to a height not less than the calculated thickness of the smoke layer from the gallery floor, which will prevent the spread of smoke in the vo-



lume of the atrium. Screens should be made of non-combustible materials. If these screens are not made stationary, then the screen starters should be automatic (from fire alarm systems with smoke detectors), remote and manual control.

According to the above requirements, it is recommended to install automatic smoke curtains:

- in shopping centers;
- at the airports;
- at the train stations;
- in restaurants and cafes;
- in garages-parking (parking lots).











FIREPROOF GATES «FIREDOORS»

Company «FireDoors» manufactures high-tech fireproof gates made using the latest fire safety technologies. Such gates will provide high ergonomics of the premises and create the necessary the level of fire safety for workers and property of your enterprise. Retractable fireproof gates are characterized by increased mechanical strength and reliability.

TECHNICAL CHARACTERISTICS OF FIRE GATES «FIREDOORS»

The gate leaf consists of several modular panels with a width of 1190 mm. The modular panel is made from two steel galvanized sheets of 0,5 mm, between which there is a fire-resistant aggregate. The structure is framed by a steel profile. The total thickness of fire-resistant panels is 100 mm. To prevent mechanical damage to the gate during the installation of the sliding gate leafs are covered with a protective film. Gates are equipped with an automatic electric drive, which allows you to open and close them automatically. Power consumption of the electric drive is 1 kW, supply voltage is 220V.

The fireproof gates «FireDoors» serve as a fire barrier and can be operated as a conventional sliding gate due to the use of an electric drive.

- Fire resistance limit: Ei60
- Production time: up to 3 weeks
- Own production in the Republic of Belarus
- High quality at a reasonable price
- Wide range of colors: up to 20 colors
- Gate dimensions: width from 2 to 10 meters, in height from 2 to 5 meters

THE SCOPE OF APPLICATION OF FIRE GATE

Fire-fighting gates are designed to limit the spread of fire, in-fire compartments and sections, as well as to prevent its spread beyond the fire compartment or section. The gates are installed in the openings of fire barriers and walls.



List of objects





Shopping center

Fire curtain «FireDoors» Ei120 for protection of parking lots





Shopping Mall

Automatic accordion type smoke curtains «FireDoors»



Shopping centerFire curtain «FireDoors» Ei120 for separation of large areas



Fire curtain «FireDoors» Ei120 for window opening



Plant «BellaPak»Fire curtain «FireDoors» Ei120 for manufacturing facility



Certificate fire-fighting sliding gates FireDoors Ei60 max size: 6500x10000 mm



Certificate automatic smoke curtains FireDoors D30 type «accordion»



Technical certificate automatic fire curtains FireDoors Ei120, E60





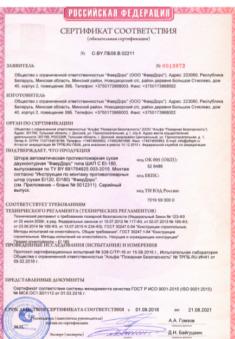
Certificate fire curtains FireDoors Ei30 WITHOUT irrigation

РОССИЙСКАЯ ФЕДЕРАЦИЯ СЕРТИФИКАТ СООТВЕТСТВИЯ (обязательная сертификация) № C-BY.ПБ58.B.02006 ЗАЯВИТЕЛЬ No 0012047 Общество с огрениченной ответственностью "ФаерДорс" (ООО "ФаерДорс"). Адрес: 223060, Республика БЕЛАРУСЬ, Менская обл., Менскай район, Новодворский оіс, район д. Большое Стийнево, д. 40, корп. 2. пом. 39Б. Тепефок: +3750173968003. Факс: +3750173968002. ИЗГОТОВИТЕЛЬ Общество с ограниченной ответственностью "ФаерДорс" (ООО "ФаерДорс"). Адрес: 223060. Республика БЕЛАРУСЬ, Минская обл., Минский район, Новодворский с/с. район д. Большое Стиклево. g. 40, sppn. 2, now. 396. Tenedox: +3750173958003, dasc: +3750173958002. ОРГАН ПО СЕРТИФИКАЦИИ ИТ ПЛО СЕГЕТ ЛИЧЕТАЛЬЦИИ Общобно образованной отвестительности. "Альфа Тівжарная Безопасность" (ЭОО Уклуфа Тівжарная Безопасность"). Адам: 30/190, Тупькая обязоль, г. Доноків, ул. Геркопасательная, д. т. ора. Адамс вего осущаєтальная даветьность 20/190, Тупькая обязоль, г. Доноків ул. Геркопасательная, д. Т. ора. Адамс вего осущаєтальная даветьность 20/190, Тупькая обязоль, г. Доноків, замеральная фильфальная, д. Т. Донок, д. ОРН 110/190/1906. Такафак - 140/190/1903. Замеральная фильфаль Сегова обязольная под даветьность замеральная безопасательная под даветьность замеральная безопасательная под даветьность замера 18.1.22001. Замеральная безопасательная под даветьность замеральная даветьность замеральность замер подтверждает, что продукция Противопожарная автоматическая преграда (штора) код ОК 005 (ОКП); двуххонтурная "ФаерДорс" типа ШАП С EI-30, выпускаемая по ТУ ВУ 691764925.002-2015 52 8488 (см. Приложение - бланк № 0012053). KOA EKTICI Серийный выпуск. кол ТН ВЭД России: 7019 59 000 0 COOTBETCTRYET TPESOBAHUSIM ТЕХНИЧЕСКОГО РЕГЛАМЕНТА (ТЕХНИЧЕСКИХ РЕГЛАМЕНТОВ) "Техничноский регипамент о требования покарной безопасности (Недеральный Закон № 123-03 от 22 июля 2008, в раз. Федеральных экимене от 10.07.2012 № 117-40, от 02.07.2013 № 185-03, от 23.08.2014 № 190-09, от 13.07.2015 № 224-403, ГОСТ 30247-0-94 "Конструкции строительные. Методы-ислыганий на отностойность. Общее требования", ГОСТ 30247-0-94 "Конструкции строительные. Методыиспытаний на огнестойность. Несущие и ограндающие конструкции Предел огнестойности - Еl 30 ПРОВЕДЕННЫЕ ИССАЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ Протокол сертификационных испытаний № 220-С/ТР-16 от 27.04.2016 г. Испытательная вборатория Общества с ограниченной ответственностью "Альфа "Понарная Безопасность" Ne TP∏6.RU ИН41 от 09 02:2016 г. ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ Сертификат соответствия системы менедимента качества. ГОСТ Р ИСО 9001-2015 (ISO 9001:2015) Nº MCK OC1 501112 or 01.03.2016 r. СРОК ДЕИСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с 28.04.2016 по 27.04.2021 А.А. Гомзов отелья по сертификации M.II Д.Н. Байгушкин

Certificate fire curtains FireDoors Ei60 WITHOUT irrigation



Certificate fire curtains FireDoors Ei180 WITHOUT irrigation





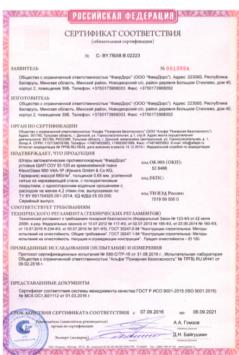
Certificate fire curtains FireDoors Ei120 WITH irrigation



Certificate fire curtains FireDoors Ei180 WITH irrigation



The certificate fireproof curtains FireDoors angular type «accordion» Ei120 WITH irrigation



This presentation does not include a complete list of conformity certificates for the company's products.



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