



CLASS EI 60

# ROLLING CURTAIN

Ultra-lightweight, flexible, fire-resistant rolling curtains in the El class provide a modern solution that serves as protection against fire and thermal radiation. The curtain membrane is made of a special gray-colored fabric with side reinforcements to prevent tearing from the guides. **No need for fire-resistant insulation boards.** Fire-rated motors ensure gravitational closing of the curtain even in case of power failure, while the integrated anti-fall protection allows for safe and controlled descent.



## PRODUCT FEATURES

ultra-lightweight construction no need for fire-resistant insulation boards option to equip with a battery-powered control system

## can be integrated with the Fire Alarm System

gravitational closing

## SPECIFICATION

PRODUCT TYPE	flexible, rolling, single-leaf curtains
MOVEMENT DIRECTION	vertical
APPLICATION	closure of vertical openings in building partitions
FIRE RESISTANCE CLASS	EI 60
CERTIFICATION	CE 1396-CPR-0232 issued by Fires [No. 1396]
HARMINIZED STANDARDS	EN 16034, EN 13241
CURTAIN WEIGHT	4,5 kg/m <sup>2</sup>
DIMENSIONS	CE 22000 mm x 12000 mm (W x H)
MINIMUM INSTALLATION DIMENSIONS	lintel 315 mm sides 160 mm

smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any RAL color

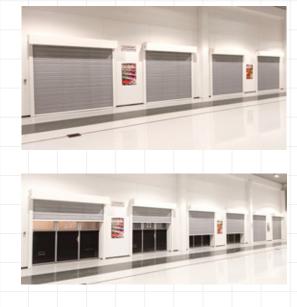
smoke-tight version in class Sa and/or S200\*

made of stainless steel

safety edge

anti-corrosion coating/painting in classes from C3 to C5





For more information, visit our website by scanning the QR code:



#### \*depending on the product

**OPTIONS** 

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## NGR EF

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CLASS EI 120

## ROLLING CURTAIN SINGLE-LEAF IN EI CLASS

Ultra-lightweight, flexible fire-rated rolling curtains in El class are a modern solution providing protection against fire and thermal radiation. The curtain is made with membrane technology using special multi-layered composition with outside gray fabric and features side reinforcements preventing detachment from the guides. Visible steel elements are galvanized, and others are primed against corrosion. The fire motors used ensure the curtain closes by gravity even in case of a power failure, and the integrated anti-fall protection allows for safe and controlled descent.



## **PRODUCT FEATURES**

ultra-lightweight construction	use of fire-resistant insulating boards	option to equip with a battery-powered control system	can be integrated with Fire Alarm System	gravitational closing
SPECIFICATION				
PRODUCT TYPE	flexil	ole, rolling, single-leaf curtains		and the second second
MOVEMENT DIRECTION		vertical		
APPLICATION		closing vertical openings in building partitions		
FIRE RESISTANCE CLASS		EI 120		
CERTIFICATION	CE 1396-CPR-	0203 issued by Fires [No. 1396]	100	
HARMINIZED STANDARDS		EN 16034, EN 13241		
CURTAIN WEIGHT	8,5 kg/m²			
DIMENSIONS	CE 12000 mm x 8000 mm (W x H)		-	
MINIMUM INSTALLATION DIMENSIONS	lintel 475 mm sides 200 mm			

## **OPTIONS**

(iii) smoke detectors, emergency release button, optical and acoustic signaling devices
 painting of steel elements in any RAL color
 anti-corrosion protection/painting in classes from C3 to C5
 made of stainless steel
 safety edge
 smoke-tight version in class Sa and/or S200\*

made with the use category C2

\*depending on the product



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CLASS EI 60, EI 90, EI 120

### **ROLLING CURTAIN DOUBLE-LEAF IN EI CLASS**

Lightweight, flexible, fire-resistant rolling curtains in EI class are a solution that provides protection against both fire and thermal radiation. Two layers, wound on two shafts, The curtains are made with membrane technology using special multi-layered composition with outside gray fabric and features side reinforcements preventing detachment from the guides. Visible steel parts are galvanized, and the rest are corrosion-protected. The fire motors used ensure the curtain closes by gravity even in case of a power failure, and the integrated anti-fall protection allows for safe and controlled descent. For EI 120 curtains, a lower lintel is required than for single-leaf curtains.

## **PRODUCT FEATURES**

lightweight, partially self-supporting structure option to equip with a battery-powered control system

meet the criteriaof El1 classification

## can be integrated with Fire Alarm System

gravitational closing

## **SPECIFICATIONS**

PRODUCT TYPE

APPLICATION

CERTIFICATION

CURTAIN WEIGHT

MINIMUM INSTALLATION

DIMENSIONS

DIMENSIONS

flexible, rolling, double-leaf curtains MOVEMENT DIRECTION closure of vertical openings in building partitions FIRE RESISTANCE CLASS EI 60, EI 90, EI 120 CE 1812-CPR-1577 issued by Efectis [No. 1812] EN 16034, EN 13241 HARMINIZED STANDARDS

> CE 8000 mm x 18000 mm / 9740 mm x 10000 mm (W x H)

> > lintel 520 mm sides 200 mm

2,5 kg/m<sup>2</sup>

vertical

## **OPTIONS**

((0)) smoke detectors, emergency release button, optical and acoustic signaling devices painting of steel elements in any RAL color anti-corrosion protection/painting in classes C3 to C5 made of stainless steel safety edge

execution in wind load resistance class 5 (1300 Pa)\*

\*depending on the product





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**ROLLING CURTAINS** 

CLASS EW 60, EW 90

## **ROLLING CURTAIN IN EW CLASS**

Ultralight, flexible, rolling fire curtain in EW class is a modern solution providing protection against fire and thermal radiation. The curtain is made from a special fabric in grey, with side protections against tearing from the guides. Visible steel parts are galvanized, and the rest are corrosion-protected. The fire motors used ensure the curtain closes by gravity even in case of a power failure, and the integrated anti-fall protection allows for safe and controlled descent.

## **PRODUCT FEATURES**

ultralight construction option to equip with a battery-powered control system

gravitational closing

can be integrated with Fire Alarm System

quick installation

## **SPECIFICATIONS**

PRODUCT TYPE

MOVEMENT DIRECTION

APPLICATION

FIRE RESISTANCE CLASS

CERTIFICATION

HARMINIZED STANDARDS

CURTAIN WEIGHT

**OPTIONS** 

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DIMENSIONS

## EW 60, EW 90

closure of vertical openings

in building partitions

flexible, rolling, single-leaf curtains

CE 0370-CPR-3957 issued by Applus [No. 0370]

CE 12000 mm x 8000 mm (W x H)

sides 160 mm

vertical





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## NGR EF

safety edge

made of stainless steel

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smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion protection/painting in classes C3 to C5

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+48 668 991 973

EN 16034, EN 13241 1,7 kg/m<sup>2</sup>

lintel 380 mm

DIMENSIONS





CLASS E 120, EW 60\*

# ROLLING CURTAIN

Ultralight, flexible, rolling fire curtain in E class is a modern solution providing protection against fire and thermal radiation. The curtain is made from a special grey fabric, with side protections against tearing from the guides. Visible steel parts are galvanized, and the rest are corrosion-protected. The curtain is available with an emergency exit passage. The fire motors used ensure the curtain closes by gravity even in case of a power failure, and the integrated anti-fall protection allows for safe and controlled descent.



## **PRODUCT FEATURES**

ultralight construction and quick installation version with emergency exit passage option to equip with a battery-powered control system

# can be integrated with the Fire Alarm System

gravitational closing

## **SPECIFICATION**

PRODUCT TYPE	flexible, rolling, single-leaf curtains
MOVEMENT DIRECTION	vertical
APPLICATION	closure of vertical openings in building partitions
FIRE RESISTANCE CLASS	E 120, EW 60*
CERTIFICATION	CE 1812-CPR-1578 issued by Efectis [No. 1812]
HARMINIZED STANDARDS	EN 16034, EN 13241
CURTAIN WEIGHT	0,75 kg/m²
DIMENSIONS	CE 7500 mm x 4527 mm (W x H)
MINIMUM INSTALLATION DIMENSIONS	lintel 380 mm sides 160 mm





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\*depending on the product

**OPTIONS** 

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made of stainless steel

safety edge

smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion protection/painting in classes C3 to C5

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## SMOKE CURTAIN FIXED AND AUTOMATIC

Ultra-lightweight, flexible, automatic (rolling) or fixed smoke curtains in D and DH classes are a proven solution to prevent the spread of smoke. Thanks to their modular design, curtains can be combined, allowing for the creation of a barrier of unlimited length and shape. Additionally, the low weight of a single curtain module allows for adaptation to ceiling shapes and facilitates installation.

## CLASS D 120, DH 120



## **PRODUCT FEATURES**

SPECIFICATION         PRODUCT TYPE       automatic and fixed smoke curtains         MOVEMENT DIRECTION       fixed/vertical         PURPOSE       protection against smoke spread and its direction control         FIRE RESISTANCE CLASS       D120, DH120         CERTIFICATION       CE1396-CPR-0125 issued by Fires [No. 1396] CE 1488-CPR-012/W issued by TBE [No. 1396]         HARMINIZED STANDARDS       EN 1201         CURTAIN WEIGHT       0,75 kg/m²         DIMENSIONS       unlimited         MINIMUM INSTALLATION DIMENSIONS       SB curtains	ultra-lightweight construction	available as automatic (ASB1, ASB2, ASB3, ASB4)*	available as fixed (SSB) curtains	can be integrated with the Fire Alarm System	quick installatio
MOVEMENT DIRECTIONfixed/verticalPURPOSEprotection against smoke spread and its direction controlFIRE RESISTANCE CLASSD 120, DH 120CERTIFICATIONCE 1396-CPR-0125 issued by Fires [No. 1396] CE 1488-CPR-0112/W issued by ITB [No. 1488]HARMINIZED STANDARDSEN 12101CURTAIN WEIGHT0,75 kg/m²DIMENSIONSunlimitedMINIMUM INSTALLATIONASB curtains min. 200 mm ceiling/lintel	SPECIFICATION				
PURPOSEprotection against smoke spread and its direction controlFIRE RESISTANCE CLASSD120, DH 120CERTIFICATIONCE 1396-CPR-0125 issued by Fires [No. 1396] CE 1488-CPR-0112/W issued by TB [No. 1488]HARMINIZED STANDARDSEN 12101CURTAIN WEIGHT0,75 kg/m²DIMENSIONSunlimitedMINIMUM INSTALLATIONASB curtains min. 200 mm ceiling/limit	PRODUCT TYPE	autom	atic and fixed smoke curtains		VVV
FIRE RESISTANCE CLASS       D 120, DH 120         CERTIFICATION       CE 1396-CPR-0125 issued by Fires [No. 1396] CE 1488-CPR-0112/W issued by ITB [No. 1488]         HARMINIZED STANDARDS       EN 12101         CURTAIN WEIGHT       0,75 kg/m²         DIMENSIONS       unlimited         MINIMUM INSTALLATION DIMENSIONS       ASB curtains min. 200 mm ceiling/lintel	MOVEMENT DIRECTION		fixed/vertical		
CERTIFICATION     CE 1396-CPR-0125 issued by Fires [No. 1396] CE 1488-CPR-0112/W issued by ITB [No. 1488]       HARMINIZED STANDARDS     EN 12101       CURTAIN WEIGHT     0,75 kg/m²       DIMENSIONS     unlimited       MINIMUM INSTALLATION     ASB curtains min. 200 mm ceiling/lintel	PURPOSE	protection against smoke sp	pread and its direction control	The second is	
CERNIFICATION     CE 1488-CPR-0112/W issued by ITB [No. 1488]       HARMINIZED STANDARDS     EN 12101       CURTAIN WEIGHT     0,75 kg/m²       DIMENSIONS     unlimited       MINIMUM INSTALLATION     ASB curtains min. 200 mm ceiling/lintel	FIRE RESISTANCE CLASS		D 120, DH 120	A	
CURTAIN WEIGHT     0,75 kg/m²       DIMENSIONS     unlimited       MINIMUM INSTALLATION DIMENSIONS     ASB curtains min. 200 mm ceiling/lintel	CERTIFICATION				_
DIMENSIONS     unlimited       MINIMUM INSTALLATION DIMENSIONS     ASB curtains min. 200 mm ceiling/lintel	HARMINIZED STANDARDS	EN 12101			
MINIMUM INSTALLATION     ASB curtains       DIMENSIONS     min. 200 mm ceiling/lintel	CURTAIN WEIGHT	0,75 kg/m²			1.
DIMENSIONS min. 200 mm ceiling/lintel	DIMENSIONS	unlimited		X	
min. 30 mm ceiling/lintel			min. 200 mm ceiling/lintel SSB curtains		

## **OPTIONS**

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NOX

((@)) smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion coating/painting in classes from C3 to C5

made of stainless steel

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\*depending on the product



## **SLIDING GATE** SINGLE-LEAF

CLASS EI 60, EI 120

Single-leaf fire-rated sliding gates in EI class are a proven solution providing protection against fire and thermal radiation. The door leaf is made of 100 mm thick sandwich panels with a mineral wool core. Flush-mounted shell handles are installed on both sides of the leaf to facilitate manual opening.



## **PRODUCT FEATURES**

gravitational closing

option to equip with a battery-powered control system

variant with threshold-free emergency exit doors

single-leaf sliding gates

standard equipment includes a closing speed regulator and/or impact damper

held open by an electromagnet

## SPECIFICATION

PRODUCT TYPE

MOVEMENT DIRECTION	horizontal
APPLICATION	closing vertical openings in building partitions
FIRE RESISTANCE CLASS	EI 60, EI 120
CERTIFICATION	CE 0370-CPR-5958 issued by Applus [No. 0370]
HARMINIZED STANDARDS	EN 16034, EN 13241
PANEL WEIGHT	21-23 kg/m <sup>2</sup>
PANEL COLOR	RAL 7035, 9002, 9010
FITTINGS, STEEL COMPONENTS	galvanized
DIMENSIONS	CE 7960 mm x 6395 mm (W x H)
MINIMUM INSTALLATION DIMENSIONS	lintel 280 mm doorstop 250 mm
	opening side clearance + 180 mm



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made of stainless steel

electric drive for door opening assistance

thermal fuse instead of an electromagnet

**OPTIONS** 

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smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion protection/painting in classes from C3 to C5

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## SLIDING GATES



# SLIDING GATE

Double-leaf and telescopic fire-rated sliding gates in EI class are a proven solution providing protection against fire and thermal radiation. The door leaf is made of 100 mm thick sandwich panels with a mineral wool core. Flush-mounted shell handles are installed on both sides of the leaf to facilitate manual opening.



## PRODUCT FEATURES

gravitational closing available in double-leaf, telescopic, or double-leaf telescopic variants

variant with threshold-free emergency exit doors standard equipment includes a closing speed regulator and/or impact damper

held open by an electromagnet

## **SPECIFICATION**

PRODUCT TYPE	double-leaf and telescopic sliding doors		
MOVEMENT DIRECTION		horizontal	
APPLICATION	closing vertical openings ir	n building partitions	
FIRE RESISTANCE CLASS		EI 60, EI 120	
CERTIFICATION	CE 0370-CPR-6565 CE 0370-CPR-3947 issued b	, CE 0370-CPR-3945, by Applus [No. 0370]	
HARMINIZED STANDARDS	EN 16034, EN 13241		
PANEL WEIGHT	21-26 kg/m²		
PANEL COLOR	RAL 7035, 9002, 9010		
FITTINGS, STEEL COMPONENTS		galvanized	
DIMENSIONS	CE 5280 mn	n x 5100 mm (W x H)	
MINIMUM INSTALLATION DIMENSIONS	SLIDING	TELESCOPIC	
	lintel 320 mm counterweight side	lintel 325 mm doorstop 250 mm	
	$\frac{1}{2}$ of the opening width + 615 mm	opening side	
	opposite side 1/2 of the opening width + 170 mm	clearance + 125 mm	

smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion protection/painting in classes from C3 to C5

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## NGR EF

made of stainless steel

electric drive for door opening assistance

thermal fuse instead of an electromagnet

**OPTIONS** 

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CLASS EI 180, EI 240

## **SLIDING GATE** SINGLE-LEAF

Sliding, single-leaf fire gates in classes EI 180 and EI 240 are a reliable solution that provides protection against both fire and thermal radiation. The door leaf is made of 100 mm thick sandwich panels with a mineral wool core. The leaf is equipped with recessed shell handles on both sides to facilitate manual opening of the door.



## PRODUCT FEATURES

gravitational closing

reliable construction and possibility of integration with FAS

standard equipment includes closing speed regulator and/or shock absorber

by an electromagnet

## SPECIFICATION

PRODUCT TYPE

MOVEMENT DIRECTION

APPLICATION

FIRE RESISTANCE CLASS

CERTIFICATION

HARMINIZED STANDARDS

PANEL WEIGHT

PANEL COLOR

FITTINGS. STEEL COMPONENTS

DIMENSIONS

MINIMUM INSTALLATION DIMENSIONS

sliding, single-leaf gates

horizontal

closing vertical openings in building partitions

EI 180. EI 240

CE 0370-CPR-3948, CE 0370-CPR-3950 issued by Applus [No. 0370]

EN 16034, EN 13241

21-23 kg/m<sup>2</sup>

RAL 7035, 9002, 9010

galvanized

CE 4500 x 4500 mm (W x H)

lintel 350 mm doorstop 300 mm

opening side clearance + 340 mm

## **OPTIONS**

((0)) smoke detectors, emergency release button, optical and acoustic signaling devices

S painting of steel elements in any color from the RAL palette

anti-corrosion protection/painting in classes C3 to C5

NOX made of stainless steel

ÿ electric drive to assist with opening the door

thermal fuse instead of an electromagnet

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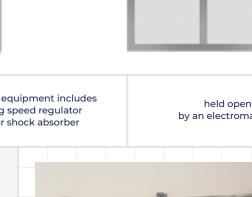


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CLASS EI 60, EI 120, EI 180

## **GUILLOTINE GATE** SINGLE-LEAF

Vertically sliding, single-leaf fire gates in the EI class provide a reliable solution for fire and thermal radiation protection. The gate leaf is made of 100 mm thick layered panels with a mineral wool core. The lower part of the leaf features recessed handles on both sides, facilitating manual opening. A precisely adjusted counterweight with a speed regulator ensures automatic and controlled closing of the gate.



## **PRODUCT FEATURES**

held open by an electromagnet option with threshold-free pedestrian door (\*)

integrated anti-fall protection in case of failure

can be integrated with the Fire Alarm System gravitational closing

## **SPECIFICATIONS**

PRODUCT TYPE	single-leaf guillotine gates
MOVEMENT DIRECTION	vertical
APPLICATION	closing vertical openings in building partitions
FIRE RESISTANCE CLASS	EI 60, EI 120, EI 180
CERTIFICATION	CE 0370-CPR-5959, CE 0370-CPR-3951, CE 0370-CPR-3952 issued by Applus [No. 0370]
HARMINIZED STANDARDS	EN 16034, EN 13241
PANEL WEIGHT	21-23 kg/m <sup>2</sup>
PANEL COLOR	RAL 7035, 9002, 9010
FITTINGS, STEEL COMPONENTS	galvanized
DIMENSIONS	CE 7860 mm x 6670 mm / 5445 mm x 7425 mm (W x H)
MINIMUM INSTALLATION DIMENSIONS	lintel: opening clearance + 350 mm counterweight side: 335 mm opposite side: 180 mm



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\*depending on the product

**OPTIONS** 

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made of stainless steel

electric drive for assisted door opening

smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion coating/painting in classes from C3 to C5

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CLASS EI 60, EI 120

# GUILLOTINE GATE

Vertically sliding, telescopic fire gates in El class are a proven solution that provides protection against both fire and thermal radiation. The leaf is made from 100 mm thick sandwich panels with a mineral wool core. The lower part of the gate leaf is equipped with recessed shell handles on both sides to facilitate manual opening. The precisely selected counterweight with an integrated closing speed regulator ensures automatic and controlled gate closure.



## **PRODUCT FEATURES**

option to equip with a battery-powered control system	held open by an electromagnet					tational bsing
SPECIFICATIONS						
PRODUCT TYPE		guillotine gates, multi-leaf				
MOVEMENT DIRECTION		vertical	Page			G
APPLICATION	closing vertical	openings in building partitions				H
FIRE RESISTANCE CLASS		EI 60, EI 120				
CERTIFICATION	CE 037	CE 0370-CPR-3951, CE 0370-CPR-3952 issued by Applus [No. 0370]				
HARMINIZED STANDARDS		EN 16034, EN 13241			_	
PANEL WEIGHT		21-23 kg/m <sup>2</sup>				
PANEL COLOR		RAL 7035, 9002, 9010				
FITTINGS, STEEL COMPONEN	ITS	galvanized				
DIMENSIONS	С	CE 5445 mm x 7425 mm (W x H)				
MINIMUM INSTALLATION DIMENSIONS	lintel: ½ o	f the opening width + 500 mm* counterweight side: 610 mm opposite side: 220 mm*				

## **OPTIONS**

(iii) smoke detectors, emergency release button, optical and acoustic signaling devices
 painting of steel elements in any color from the RAL palette
 anti-corrosion coating/painting in classes from C3 to C5
 made of stainless steel

electric drive for assisted door opening

For more information, visit our website by scanning the QR code:

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\*depending on the product



CLASS E 120, E 180, E 240

# ACCORDION CURTAINS

Ultralight, flexible, foldable (accordion) fire curtains in Class E are an innovative solution that provides fire protection. The modular design of the foldable curtains allows installation in any location and shape without the need for space-limiting guides. The fire-rated motors ensure the gravitational closure of the curtain even in the event of a power failure, while the integrated anti-drop protection allows for safe and controlled descent. Single-module or multi-module curtains, e.g. L-shaped, U-shaped or any other open or closed shape.

## **PRODUCT FEATURES**

can secure spaces of any shape option to equip with a battery-powered control system

installation does not require vertical mounting surfaces

flexible, foldable curtains

E 120, E 180, E 240

EN 16034, EN 13241

0,75 kg/m<sup>2</sup>

Closing vertical openings in building partitions

and securing individually designated spaces without the need for walls or columns

CE 0370-CPR-6389, CE 0370-CPR-6390

CE: module width between the guide and corner(s) up to 20,000 mm height up to 12,000 mm

issued by Applus [No. 0370]

vertical

#### can be integrated with Fire Alarm System

ultralight construction and gravitational closure

## **SPECIFICATIONS**

PRODUCT TYPE

MOVEMENT DIRECTION

PURPOSE

FIRE RESISTANCE CLASS

CERTIFICATION

HARMINIZED STANDARDS

**CURTAIN WEIGHT** 

DIMENSIONS

MINIMUM INSTALLATION

Product individually adapted to the project situation

## OPTIONS

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((回)) smoke detectors, emergency release button, optical and acoustic signaling devices

painting of steel elements in any color from the RAL palette

anti-corrosion coating/painting in classes from C3 to C5

made of stainless steel

7 safety edge





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## GATES SOUNDPROOF

Steel rolling soundproof gates visually resemble typical industrial rolling or sectional gates. However, they feature a special structure, different profile fillings that absorb sound, as well as coatings and guides designed to reduce noise. When equipped with proper sealing systems for guides and lintels, these gates achieve satisfactory noise reduction parameters. In addition to steel rolling gates, the offer also includes lightweight, flexible fire-resistant gates

in the El 120 class with enhanced acoustic insulation parameters. Each soundproof gate is selected and designed individually, considering specific project requirements for acoustic insulation parameters and fire resistance.


## **TEST REPORTS**

REPORT NO. CONSTRUCTION TYPE SOUND INSULATION INDEX WEIGHT

REPORT NO. CONSTRUCTION TYPE SOUND INSULATION INDEX WEIGHT LA-02724:01e/2010 rolling, steel, single-leaf Rw(C, Ctr) = 31 (-3, -4) dB ~35 kg/m2

LA-02724:01a/2010 rolling, steel, double-leaf Rw(C, Ctr) = 50 (0, -2) dB ~70 kg/m2

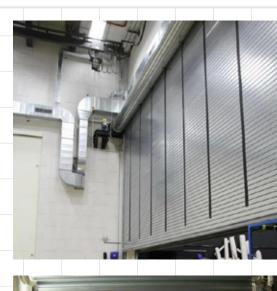
LA-02724:01b/2010 rolling, steel, triple-leaf Rw(C, Ctr) = 54 (0, -2) dB ~105 kg/m2

LA-02724:01d/2010 rolling, flexible, double-leaf Rw(C, Ctr) = 38 (-2, -6) dB ~6 kg/m2

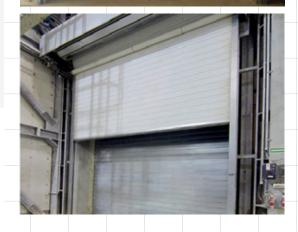
LA-02724:01d/2010 rolling, flexible, triple-leaf Rw(C, Ctr) = 50 (-2, -6) dB ~9 kg/m2

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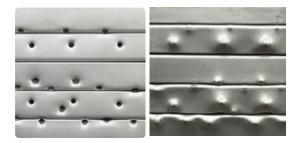
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## GATES BULLETPROOF

Steel rolling bulletproof gates are visually similar to typical industrial rolling gates but feature a different armor design. Their slats are made of multilayer steel lamellae filled with a ballistic insert, typically silicon granulate. This structure effectively stops incoming bullets by absorbing and dispersing their kinetic energy.

Bulletproof gates are always custom-designed, considering specific project requirements for ballistic resistance, wall structure, and installation conditions for the given opening.

There are no size limits, with the only constraint being the load-bearing capacity of the structure where the door is installed.



# Classification and test requirements for firearms resistance according to PN-EN 1522:

			Test conditions		
Class	Weapon type		Shooting distance [m]	Projectile velocity [m/s]	
FB1	rifle	22LR	10 ± 0,5	360 ± 10	
FB2	handgun	Luger 9 mm	5 ± 0,5	400 ± 10	
FB3	handgun	Magnum .357	5 ± 0,5	430 ± 10	
FB4	handgun	Magnum .357 .44 Remington Magnum	5 ± 0,5	430 ± 10 440 ± 10	
FB5	rifle	5,56 x 45	5 ± 0,5	950 ± 10	
FB6	rifle	5,56 x 45 7,62 x 51	10 ± 0,5	950 ± 10 830 ± 10	
FB7	rifle	7,62 x 51	10 ± 0,5	820 ± 10	

#### Shotgun resistance according to PN-EN 1522:

Class	Weapon	Caliber	Projectile mass	Test conditions	
Class	type	Caliber	[9]	Projectile velocity [m/s]	Shooting distance [m]
FSG	hunting weapon	12/70 Breneke	31	420	10

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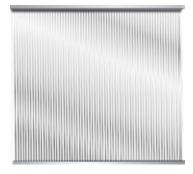


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## GATES FOR FARADAY CAGE

The principle of operation of gates protecting against electromagnetic radiation is mainly based on reflecting and partially absorbing electromagnetic energy within a specific frequency spectrum. Proper closure of the entrance opening is crucial for effectively conducting EMC or microwave tests without external electromagnetic interference. Electromagnetic shielding gates are always selected and designed individually, taking into account the specific requirements of each project and the installation conditions of a given opening.



# AVAILABLE TYPES OF ELECTROMAGNETIC SHIELDING DOORS:

Full and perforated rolling gates
Full and perforated sectional gates
Full and perforated sliding gates, horizontal and vertical
Steel rolling strip curtains

Depending on the client's needs, we offer two mounting/fixation options:

Fully isolated doors from the building's steel structure:

- 20 kV
  30 kV
- up to 60 kV

Gates mounted to the steel structure with ensured perfect conductivity along the entire perimeter.

All gates, regardless of type, can optionally be equipped with additional signaling and security systems:

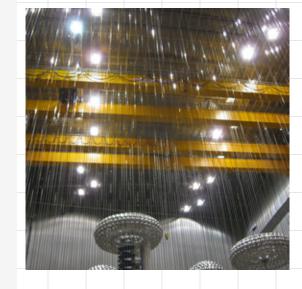
- Contact safety edge strips
- Photocells or light grids securing the passageway
- Signal lights, sound sirens, etc.

For more information, visit our website by scanning the QR code:





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