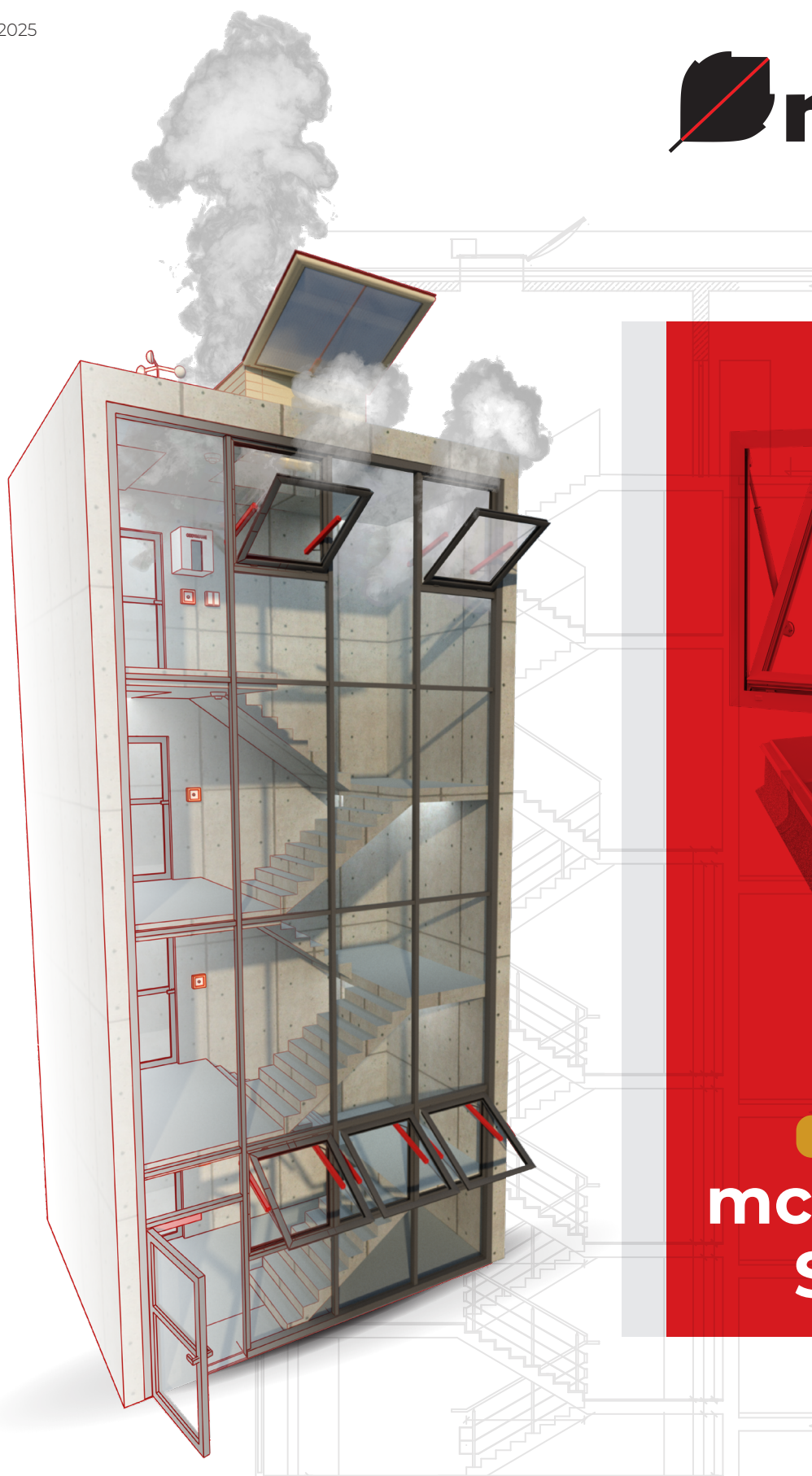




We provide safety

NATURAL SMOKE EXHAUST SYSTEM

Ensuring the safety of users is one of the key requirements affecting the design of each building. Staircases are the main way of safe evacuation of people, that is why it is so important to equip them with an efficient smoke exhaust system. It is used to remove smoke, fire gases and heat energy generated during a fire from the building.

In the **mcr THERM SYSTEM** natural smoke exhaust system for staircases, which can be found in the **Mercor Light&Vent sp. z o.o.** offer, we have used a number of innovative devices. These solutions are the result of our many years of re-

search, improvements and industry experience. They contribute to the protection of life and property, while meeting current and future requirements for the thermal insulation of buildings. Their aesthetics and handling can meet the expectations of even the most demanding users and fit perfectly into the context of modern architecture.

The complete stairwell smoke extraction system proposed by **Mercor Light&Vent sp. z o.o.** consists of devices for smoke extraction, aeration and ventilation as well as control devices.



Mercor Light&Vent's mission is to deliver safety to building users by providing them with comprehensive fire protection. For over 35 years, we have been offering our business partners, at every stage of the investment process, products and services they can always trust. As a leader of modern technologies in the fire protection industry, we introduce new solutions that are ahead of the norm, and are additionally characterized by high quality and aesthetic workmanship.

staircases with
mcr PROLIGHT

mcr THERM SYSTEMS

SYSTEM'S ADVANTAGES

FUNCTION

The system ensures safe evacuation through the staircase, while offering additional natural ventilation and enabling access to the roof (vent with hatch function).



AESTHETICS

Simplicity and modern design make the devices easy to integrate into interior design, adapting them to buildings of various character and purpose.



INTUITIVE SERVICE

One control panel is used for configuration and diagnostics of all devices in the system, the advantage is also the possibility of continuous monitoring of the system operation from the front panel of the control panel.



mcr PROLIGHT smoke vents obtained environmental declaration showing environmental impact of the product – from sources extraction to transport



QUALITY

It is the result of combining the unique features of the mcr THERM SYSTEM: functionality, aesthetics and advanced technology, and the system is made of materials with high quality parameters.



WARMTH

The use of innovative products (smoke vents and windows) with high insulation, without thermal bridges guarantees no heat loss.



RELIABILITY

Devices included in the system (vents and windows) have been tested in 10 000 cycles to the position of ventilation.



FRIENDLY SERVICE

Notifications from the system control panel make it possible to quickly determine the causes of errors, and the design of the control panel mainboard allows the system to be expanded with additional functions or devices.

COMPLETE SYSTEM FOR STAIRCASES

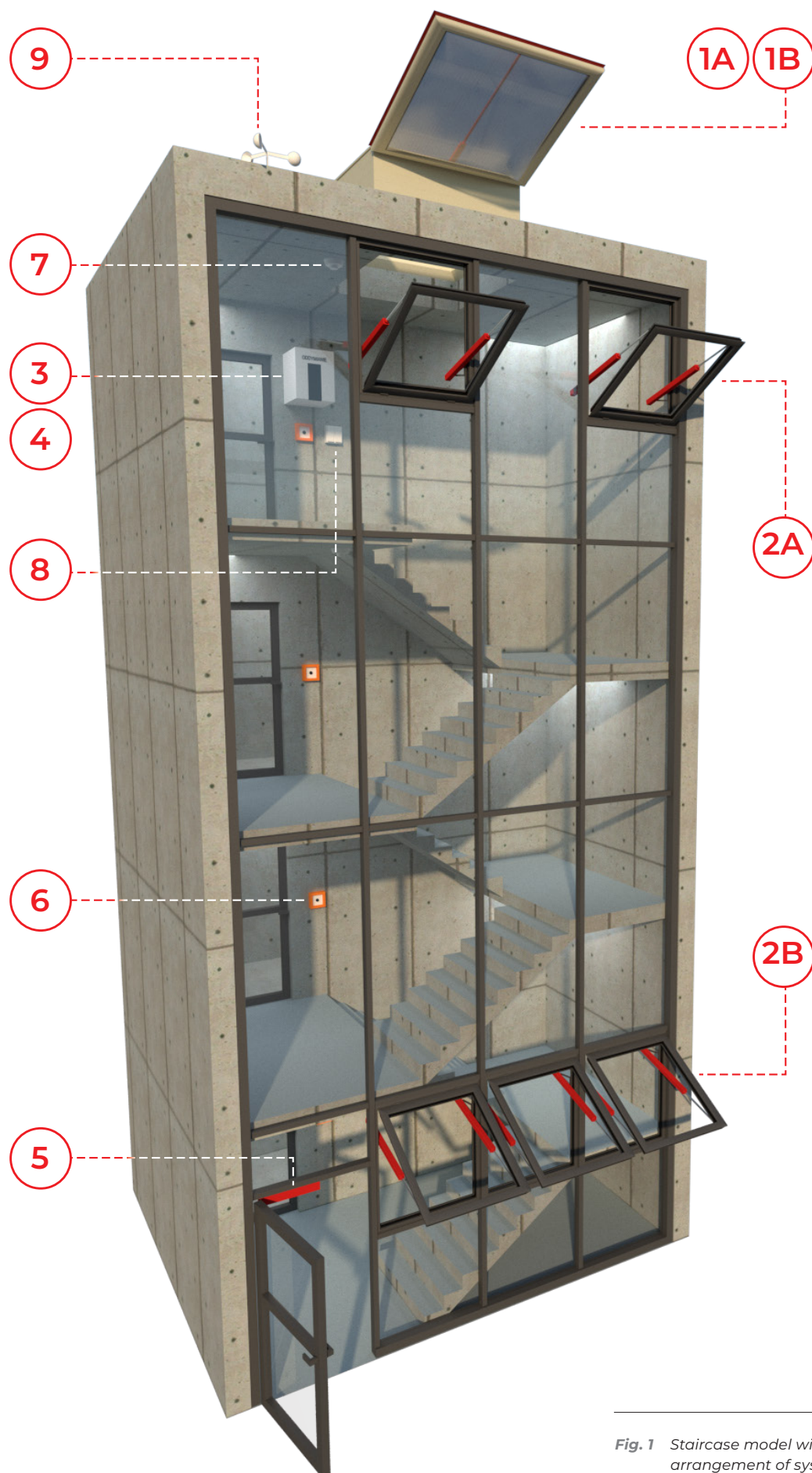


Fig. 1 Staircase model with an example arrangement of system devices natural smoke exhaust

DEVICES FOR SMOKE EXHAUST AND VENTILATION

Smoke exhaust vent mcr PROLIGHT

Function: smoke exhaust, daily ventilation, roof access (variant)

Dimensions min.: 100 x 100 cm

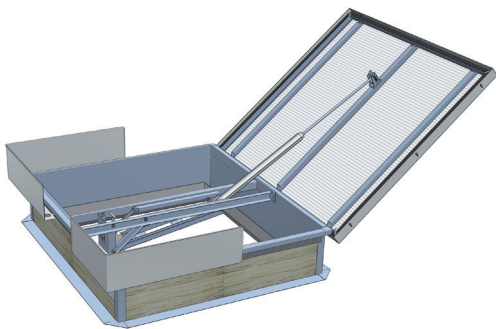
Dimensions max.: 195 x 220 cm

Design: steel or aluminum base in standard or overlay design

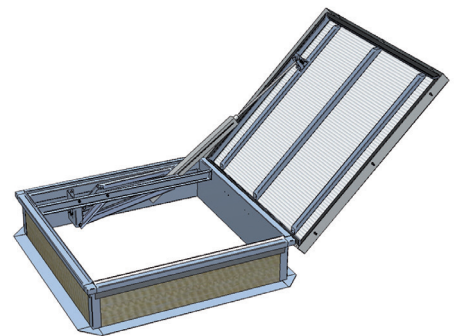
Glazing: multi-chamber polycarbonate plates
acrylic or solid polycarbonate domes, mixed glazing

Control: electric 24 V- / 230 V~

1A



1B



2A



2B

Smoke exhaust windows mcr OSO THERM 75

Function: smoke exhaust and daily ventilation

Dimensions min.: 80 x 80 cm

Dimensions max.: 270 x 130 cm or 160 x 220 cm

Design: thermally broken multi-chamber aluminium profiles

Glazing: glazing unit or sandwich panel

Control: electric 24 V-/48 V-/230 V~

Aeration window mcr OSO THERM 75

Function: aeration and daily ventilation

Dimensions min.: 80 x 80 cm

Dimensions max.: 270 x 130 cm or 160 x 220 cm

Design: thermally broken multi-chamber aluminium profiles

Glazing: glazing unit or sandwich panel

Control: electric 24 V-/48 V-/230 V~

ELECTRIC CONTROL SYSTEM DEVICES



Control unit mcr SVM

mcr SVM 24V- 5 A / mcr SVM 24- 8 A
In accordance with EN12101
– class A (double power supply)

Power supply voltage: 230 V~ (1.2 A/1.7 A)

Output voltage: 24 V-

No. of outputs: 1 (1 fire zone / 1 comfort ventilation group)

Max. total load: 5 A / 8 A

Operation time without main voltage source: 72 h

Dimensions: 238 x 113 x 286 mm

Control unit mcr SV

mcr SV 24V-xx-ds / mcr SV 48V-xx-ds
In accordance with EN12101
– class A (double power supply)

Power supply voltage: 230 V~ (5 A/10 A)

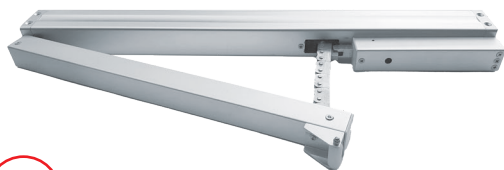
Output voltage: 24 V- or 48 V-

No. of outputs: 2 (2 fire zones / 2 comfort ventilation groups)

Max. total load: 8 A / 24 A / 30 A / 32 A

Operation time without main voltage source: 72 h

Dimensions: 343 x 178 x 450 mm



5

Door actuator mcr HCV 500/600 Door Drive



6

Emergency pushbutton mcr BVT

7



Optical smoke sensor

8



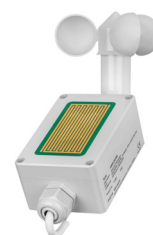
Ventilation pushbutton LT

+



Remote control FLEX

9



Rain-wind sensor AR|AWR



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CONTINUOUS
ROOFLIGHT WITH
SMOKE VENTS



SMOKE AND
VENTILATION
VENTS



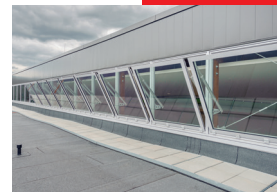
LOUVERED
VENTS



SMOKE
CURTAINS



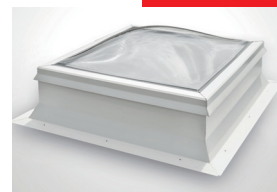
SMOKE
EXHAUST
WINDOWS



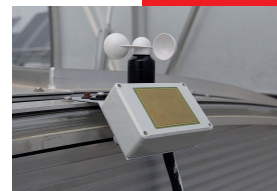
ROOF
HATCHES



FIXED
SKYLIGHTS



CONTROL
SYSTEMS



STAIRCASE SMOKE
EXHAUST SYSTEMS



European
Funds
Smart Growth

European Union
European Regional
Development Fund



The product was developed within the framework of an innovative project entitled:
***"Comprehensive solutions in the scope of passive fire protection
of buildings including the development of display line"***
subsidized with European funds.



Read more about
our mcr THERM
SYSTEMS for staircases

www.mercors.com.pl/en

