



We shape your safety
Light and smoke exhaust systems

over **30 000** m² of production space

located on **16** ha of plots housing

7 production facilities 

headquarter
mercor®



6 Subsidiaries in European countries

- » Mercor Czech Republic
- » Mercor Slovakia
- » Mercor Fire Protection (UK)
- » Mercor Tecresa Protección Pasiva (Spain)
- » Mercor Fire Protection Systems (Romania)
- » Mercor Hungary

over  **900** people working
for the Mercor
Light&Vent

2 Specialised product divisions: » Natural smoke exhausting » Fire ventilation systems and Service

Stable 
technological advancement
automation, software and
production management
intelligent solutions

50 markets worldwide

Production supported by IT systems 
tj. ERP, Vault, and trademark
Shop Floor Software



MERCOR LIGHT&VENT HAS BEEN PROVIDING SMOKE AND HEAT EXHAUST SYSTEMS FOR OVER 35 YEARS

We are one of the largest Polish entities operating within the branch of passive fire protection systems. We form an international group of companies which is among the industry's leaders on the European market. Our comprehensive offer includes: smoke and heat exhaust systems, rooflight systems and fire ventilation systems. We also provide full service support to our Clients.

We have provided safety for over 35 years. Our company portfolio comprises hundreds of projects completed domestically and abroad. We combine our many years' experience with innovativeness, creating new solutions designed to face the chal-

lenges posed by today's building industry. In providing comprehensive services, we strictly co-operate with building designers and constructors. We offer help in selecting and designing fire protection systems; we design equipment forming part of those systems, delivering them and installing on site. We also provide full-ranged service, constituting the guarantee of long-term reliability of our systems.

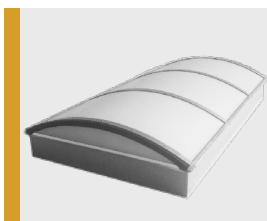
The majority of our assortment is custom-manufactured on individual orders; our customers can specify the demanded product parameters, subject to regulatory safety standards and requirements.

1.1 mcr PROLIGHT continuous rooflights	8
1.2 mcr PROLIGHT smoke vents	10
1.3 mcr PROLIGHT skylights	12
1.4 mcr PROLIGHT roof hatches	14
2.1 mcr ULTRA THERM smoke vents	16
2.2 mcr ULTRA THERM skylights	18
2.3 mcr ULTRA THERM roof hatches	20
3.1 mcr S-THERM smoke vents	22
4.1 mcr OSO THERM window exhaust system	24
5.1 mcr LAM louvered vents	26
6.1 mcr PROSMOKE smoke curtains roof hatches	28
7.1 mcr PROROOFF roof hatches	30

PRODUCTS | SMOKE AND HEAT EXHAUST SYSTEMS

Continuous rooflights
with smoke vent

mcr PROLIGHT



Certificate of constancy of performance
1396-CPR-0039
(EN 12101-2)

Natural lighting, smoke exhaust, ventilation

Smoke vents
single and
double leaf

mcr PROLIGHT



Certificate of constancy of performance
1396-CPR-0040
(EN 12101-2)

Natural lighting, smoke exhaust, ventilation,
roof accessibility (optional variant)

Fixed skylight
Openable skylight

mcr PROLIGHT



Standard
(EN 1873+A1)

Natural lighting, ventilation (for openable skylights)

Roof hatches

mcr PROLIGHT



Standard
(EN 1873+A1)

Natural lighting, roof accessibility

Smoke vents

mcr ULTRA THERM

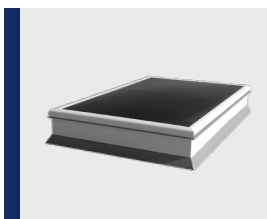


Certificate of constancy of performance
1396-CPR-0126
(EN 12101-2)

Natural lighting, smoke exhaust, ventilation,
roof accessibility (optional variant)

Fixed skylight
Openable skylight

mcr ULTRA THERM



Standard
(EN 1873)

Natural lighting, ventilation (for openable skylights)

Roof hatches

mcr ULTRA THERM



Standard
(EN 1873)

Natural lighting, roof accessibility

Smoke vents

mcr S-THERM



Certificate of constancy of performance
1396-CPR-0195
(EN 12101-2)

Natural lighting, smoke exhaust, ventilation

Louvered smoke
ventilation vents

mcr LAM



Certificate of constancy of performance
1396-CPR-0032
(EN 12101-2)

Smoke exhaust, ventilation, aeration, natural lighting

Smoke exhaust windows

mcr OSO THERM

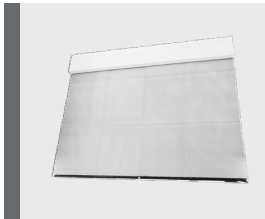


Certificate of constancy of performance
1396-CPR-0128
(EN 12101-2)

Natural lighting, smoke exhaust,
aeration and Daily ventilation, aeration.

Smoke curtains

mcr PROSMOKE



Certificate of constancy of performance
1396-CPR-033, -021, -022, -0037, - 0132, - 0133
(EN 12101-1)

Smoke separation,
Smoke flow direction

Roof hatches

mcr PROROOF



Standard
(EN 10346:2015-09)
(EN 485-1)

Natural lighting, roof accessibility

1.1 mcr PROLIGHT | continuous rooflights



BIM and CAD models are available through our QR code and on our website, in designer zone section.

1.1.1 | Description

- » continuous rooflights with span up to 6.0 m,
- » wide scope of smoke vent sizes:
 - **single-leaf:**
100 x 100 cm ÷ 200 x 250 cm,
 - **double-leaf:**
100 x 100 cm ÷ 250 x 250 cm,
- » optional wind – and/or inlet deflector for better aerodynamic performance,
- » products are delivered to construction site in elements and assemble in two steps:
 - **first step** – base,
 - **second step** – top section and smoke exhaust/ventilation vents,
- » RAL palette color selection for elements,
- » soft body impact resistance up to 1200 J,
- » CE marked rooflights according to EN 14963,
- » fire performance for external fire, class B_{ROOF}(t1) as per EN 13501-5.

Design

Base

- » **type:** ridge, roof, overlay, broken in the ridge,
- » **height:** 30–70 cm,
- » **material:** steel, aluminum,
- » prepared insulation of 50 mm thickness (**possible modification**),
- » possible to apply on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » multivariable single and multi-layer filling.

Control system

- » **smoke exhaust:** electric (24 V-), pneumatic,
- » **ventilation:** electric (230 V~).



Fig. 1 – mcr PROLIGHT continuous rooflight with open vent



Fig. 2 – mcr PROLIGHT continuous rooflight – inside view



Learn more about this product on our website.

1.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 0.95 \text{ W/m}^2\text{K}$.



Additional elements

- » anti-burglar grid,
- » safety net,
- » limit switch.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

1.1.3 | Certification



Smoke vents in rooflights are certified according to EN 12101-2 and CE-marked.



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



European Union
European Regional
Development Fund



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 3 – mcr PROLIGHT continuous rooflight with open vent



Fig. 4 – mcr PROLIGHT continuous rooflights

1.2 mcr PROLIGHT | smoke vents



BIM and **CAD** models are available through our QR code and on our website, in designer zone section.

1.2.1 | Description

- » various vent types and dimensions,
- » wide scope of sizes:
 - **Type C (square):**
100 x 100 cm ÷ 200 x 200 cm,
 - **Type E (rectangular):**
100 x 120 cm ÷ 200 x 250 cm,
 - **Type NG-A (skew base):**
100 x 100 cm ÷ 200 x 300 cm
 - **Type DVP/DVPS (double leaf):**
120 x 250 cm ÷ 300 x 300 cm,
- » optional wind – and/or inlet deflector for better aerodynamic performance,
- » vents are delivered to site construction as a complete product, ready to install,
- » RAL palette color selection for vent elements,
- » product certified according to EN 12101-2, CE-marked.

Design

Base

- » **type:** straight, skew, overlay,
- » **height:** 20–70 cm,
- » **material:** steel, aluminum,
- » thermal insulation with mineral wool or PIR panel,
- » possible to apply on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate
- » sandwich panel,
- » multivariable single and multi-layer filling.

Control system

- » **smoke exhaust:** electric (24 V-) and (48 V- for Actulux actuators), pneumatic, mechanic (gas springs).
- » **ventilation:** electric (230 V~), pneumatic.



Fig. 5 – mcr PROLIGHT single leaf smoke vent, open



Fig. 6 – mcr PROLIGHT double leaf smoke vents

Smoke exhaust
vents



Smoke exhaust vents
with roof access



Learn more about **mcr PROLIGHT**
smoke exhaust vents on our website.

1.2.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 1.3 \text{ W/m}^2\text{K}$.



Additional elements

- » wind deflectors,
- » inlet deflectors,
- » anti-burglar grid,
- » safety net
- » limit switch



Roof access

Opening mechanism enables easy roof access. **(optional vent variant)**

1.2.3 | Certification



Product certified according to EN 12101-2, CE-marked.



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



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 7 – mcr PROLIGHT single leaf smoke vents, open



Fig. 8 – mcr PROLIGHT double leaf smoke vents, open

1.3 mcr PROLIGHT | skylights

1.3.1 | Description

- » fixed skylight, openable skylight with ventilation function (known as ventilation vents),
 - » vast range of skylight types and sizes,
 - » wide scope of sizes of skylights:
 - **Type C (square):**
80 x 80 cm ÷ 200 x 200 cm,
 - **Type E (rectangular):**
80 x 90 (100 x 120*) cm ÷ 195 x 300 (250*) cm,
 - **Type NG-A (skew base):**
100 x 100 (80 x 80*) cm ÷ 200 x 300 cm,
- (*) for openable skylights**
- » skylights are delivered as a complete product, ready to install,
 - » external fire resistance, class B_{ROOF}(t1) according to EN 13501-5
 - » RAL palette color selection for skylight elements,
 - » product acquires CE mark confirming compatibility with EN 1873 norm.

Design

Base

- » **type:** straight, skew, overlay,
- » **height:** 16–70 cm,
- » **material:** steel, aluminum,
- » thermal insulation with mineral wool or PIR panel,
- » possible to apply on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate,
- » multivariable single and multi-layer filling.

Control system

- » **ventilation:** electric (230 V~).



Fig. 9 – mcr PROLIGHT skylights



Fig. 10 – mcr PROLIGHT skylights

fixed
skylights



openable
skylights



Learn more about **mcr PROLIGHT**
skylights on our website.

1.3.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 1.1 \text{ W/m}^2\text{K}$.



Additional elements

- » safety net,
- » anti-burglar grid,
- » limit switch
(openable skylights).



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.



1.3.3 | Certification



Product acquires CE mark confirming compatibility with EN 1873 norm.



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



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 11 – mcr PROLIGHT skylight



Fig. 12 – mcr PROLIGHT skylight

1.4 mcr PROLIGHT | roof hatches

1.4.1 | Description

- » wide scope of sizes:
 - **Type C (square):**
80 x 80 cm ÷ 140 x 140 cm
 - **Type E (rectangular):**
80 x 90 cm ÷ 140 x 150 cm
 - **Type NG-A (skew base):**
90 x 90 cm ÷ 150 x 150 cm,
- » hatches are delivered to construction site as a complete product, ready for install,
- » RAL palette color selection for vent elements,
- » product acquires CE mark, confirming compatibility with EN 1873 norm.

Design

Base

- » **type:** straight, skew, overlay,
- » **height:** 25–70 cm,
- » **material:** steel, aluminum,
- » thermal insulation with mineral wool or PIR panel,
- » possible to apply on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate,
- » multivariable single and multi-layer filling.

Control system

- » gas springs.

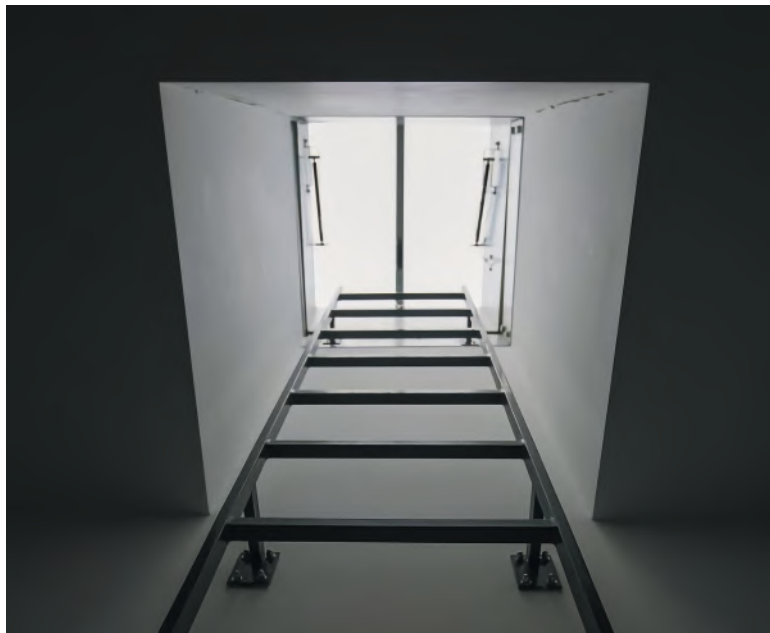


Fig. 13 – mcr PROLIGHT roof hatch



Fig. 14 – mcr PROLIGHT roof hatch



Learn more about this product
on our website.

1.4.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Roof access

Opening mechanism enables easy roof access.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 1.1 \text{ W/m}^2\text{K}$.



Additional elements

- » anti-burglar grid,
- » safety net,
- » limit switch.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

1.4.3 | Certification



Product acquires CE mark, confirming compatibility with EN 1873 norm.



mcr PROLIGHT roof hatches obtained environmental declaration showing environmental impact of the product – from sources extraction to transport.



Approval documents are available on our website: mercor.com.pl/en/download

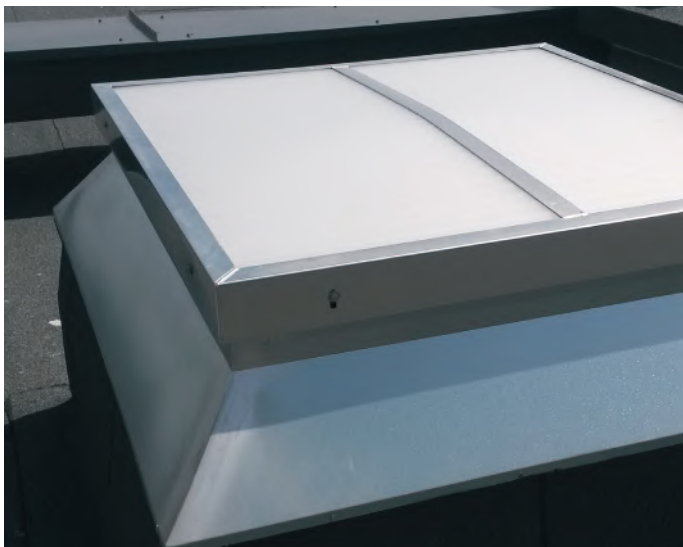


Fig. 15 – mcr PROLIGHT roof hatch



Fig. 16 – mcr PROLIGHT roof hatch with safety net

2.1 mcr ULTRA THERM | smoke vents



BIM and **CAD** models are available through our QR code and on our website, in designer zone section.

2.1.1 | Description

- » high thermal insulation,
- » no thermal bridges,
- » various shapes and base materials,
- » wide scope of vents sizes:
 - **Type C (square):**
100 x 100 cm ÷ 200 x 200 cm,
 - **Type E (rectangular):**
80 x 120 cm ÷ 200 x 250 cm,
 - **Type NG-A (skew base):**
80 x 120 cm ÷ 200 x 300 cm,
- » optional wind – and/or inlet deflector for better aerodynamic performance,
- » partial or complete product delivery,
- » RAL palette color selection for steel and aluminum bases,
- » aesthetic design,
- » product certified according to EN 12101-2, CE-marked.

Design

Base

- » **type:** straight, skew,
- » **height:** 25–70 cm,
- » **material:** PVC, steel, aluminum,
- » steel or aluminum base prepared for insulation of 50 mm thickness,
- » possible to instal on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate
- » sandwich panel,
- » multivariable single and multi-layer filling.

Control system

- » **smoke exhaust:** pneumatic, electric (24 V-/48 V-),
- » **ventilation:** electric (230 V~).



Fig. 17 – mcr ULTRA THERM smoke vents



Fig. 18 – mcr ULTRA THERM smoke vent

Smoke exhaust
vents



Smoke exhaust vents
with roof acces



Learn more about **mcr ULTRA THERM**
smoke exhaust vents on our website.

2.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 0.8 \text{ W/m}^2\text{K}$.



Additional elements

- » wind deflectors,
- » inlet deflectors,
- » safety net,
- » limit switch.



Roof access

Opening mechanism enables easy roof access.
(optional vent variant)

2.1.3 | Certification



Product certified according to EN 12101-2, E-marked.



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



European Union
European Regional
Development Fund



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 19 – mcr ULTRA THERM smoke vents



Fig. 20 – mcr ULTRA THERM smoke vents

2.2 mcr ULTRA THERM | skylights

2.2.1 | Description

- » fixed skylight, openable skylight with ventilation function (known as ventilation vents),
- » high thermal insulation,
- » no thermal bridges,
- » various shapes and base materials,
- » wide scope of skylight sizes of skylights:
 - **Type C (square):**
80 x 80 cm ÷ 200 x 200 cm,
 - **Type E (rectangular):**
80 x 120 cm ÷ 200 x 300 cm,
 - **Type NG-A (skew base):**
80 x 80 cm ÷ 200 x 300 (200 x 200*) cm,
- (*) for openable skylights,**
- » partial or complete product delivery,
- » RAL palette color selection for steel and aluminum bases,
- » aesthetic design,
- » resistance to external fire, B_{ROOF(tl)} class according to EN 13501-5 (**optional**).

Design

Base

- » **type:** straight, skew,
- » **height:** 25–70 cm,
- » **material:** PVC, steel, aluminum,
- » steel or aluminum base prepared, for insulation of 50 mm thickness.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate,
- » multivariable single and multi-layer filling.

Control system

- » **ventilation:** electric (230 V~).

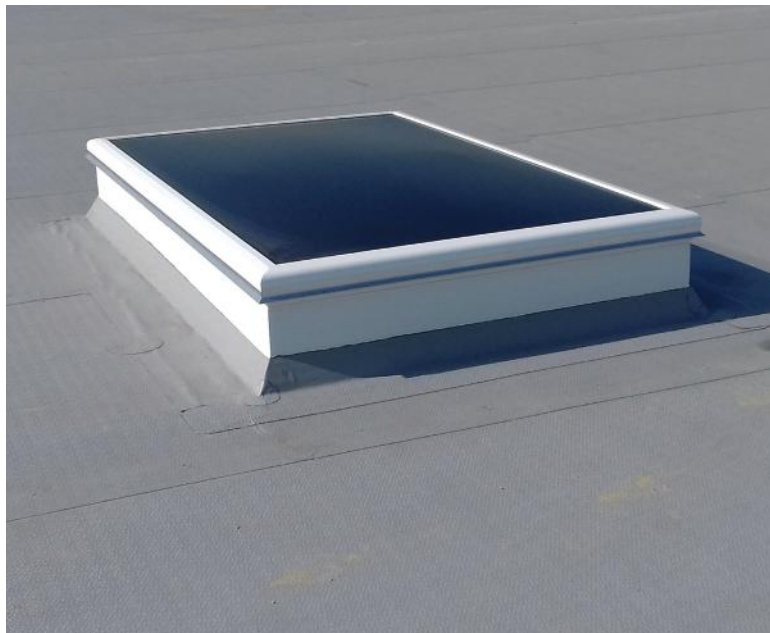


Fig. 21 – mcr ULTRA THERM skylight

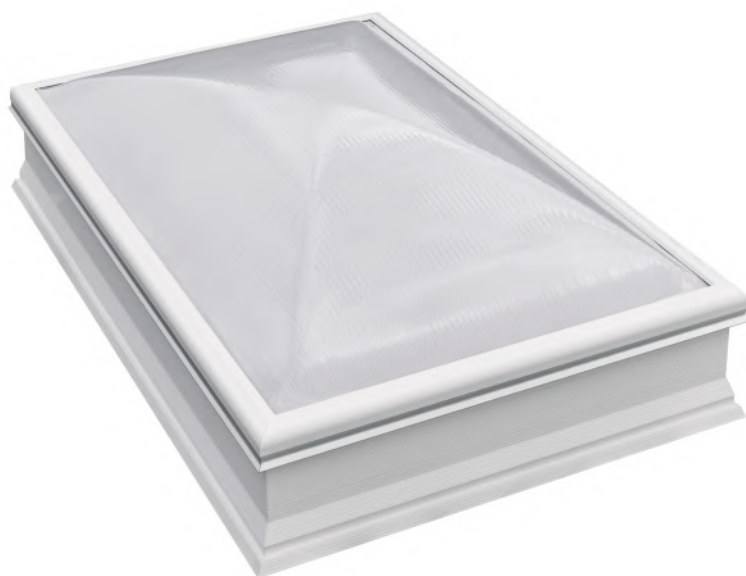


Fig. 22 – mcr ULTRA THERM skylight

fixed skylights	fixed skylights FIX type	openable skylights
		
Learn more about mcr ULTRA THERM skylights on our website.		

2.2.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 0.8 \text{ W/m}^2\text{K}$.



Additional elements

- » safety net,
- » limit switch
(openable skylights).



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

2.2.3 | Certification



Product acquires CE mark confirming compatibility with EN 1873 norm.



mcr ULTRA THERM skylights obtained environmental declaration showing environmental impact of the product – from sources extraction to transport.



European Union
European Regional
Development Fund



Approval documents are available on our website: mercor.com.pl/en/download

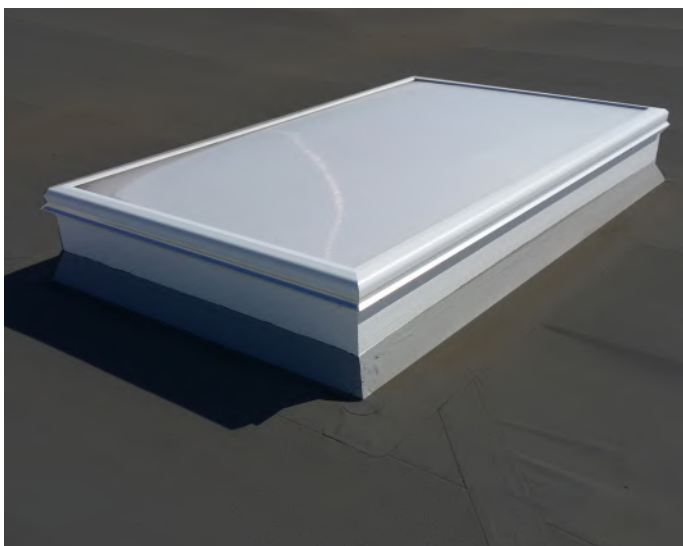


Fig. 23 – mcr ULTRA THERM skylight



Fig. 24 – mcr ULTRA THERM skylight

2.3 mcr ULTRA THERM | roof hatches

2.3.1 | Description

- » high thermal insulation,
- » no thermal bridges,
- » various shapes and base materials,
- » wide scope of hatches sizes:
 - **Type C (square):**
80 x 80 cm ÷ 130 x 130 cm,
 - **Type E (rectangular):**
80 x 90 cm ÷ 120 x 130 cm,
 - **Type NG-A (skew base):**
90 x 90 cm ÷ 140 x 140 cm,
- » partial or complete product delivery,
- » RAL palette color selection for steel and aluminum bases,
- » aesthetic design.

Design

Base

- » **type:** straight, skew,
- » **height:** 25–70 cm,
- » **material:** PVC, steel, aluminum,
- » steel or aluminum base prepared for insulation of 50 mm thickness.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate,
- » multivariable single and multi-layer filling.

Control system

- » gas springs.



Fig. 25 – mcr ULTRA THERM roof hatch



Fig. 26 – mcr ULTRA THERM roof hatch



Learn more about this product
on our website.

2.3.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Roof access

Opening mechanism enables easy roof access.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 0.8 \text{ W/m}^2\text{K}$.



Additional elements

- » safety net,
- » limit switch.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

2.3.3 | Certification



Product acquires CE mark confirming compatibility with EN 1873 norm.



mcr ULTRA THERM roof hatch obtained environmental declaration showing environmental impact of the product – from sources extraction to transport.



Approval documents are available on our website: mercor.com.pl/en/download

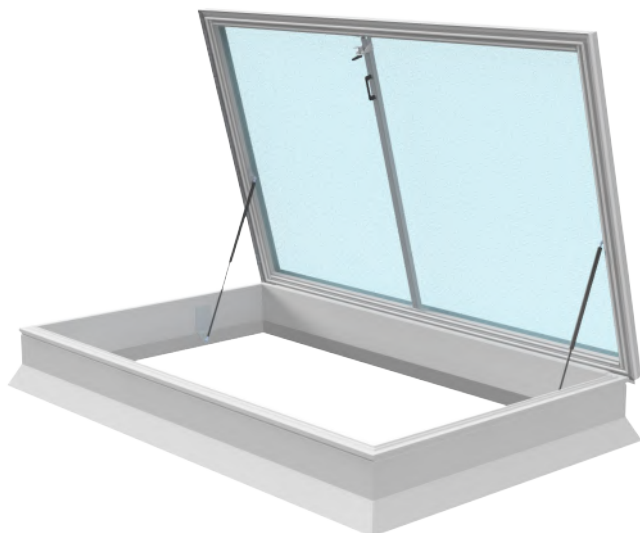


Fig. 27 – mcr ULTRA THERM roof hatch, PVC base

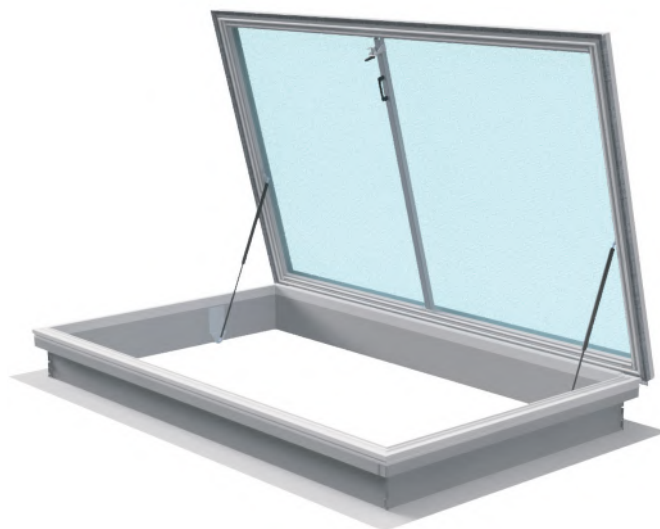


Fig. 28 – mcr ULTRA THERM roof hatch, steel base

3.1 mcr S-THERM | smoke vents

3.1.1 | Description

- » no thermal bridges, reduction of water vapour condensation,
- » high aesthetics, use of extruded aluminum profiles,
- » modular design enables work ergonomics during assembly and transport,
- » wide scope of vents sizes:
 - **Type C (square):**
100 x 100 cm ÷ 180 x 180 cm,
 - **Type E (rectangular):**
150 x 250 cm ÷ 180 x 250 cm,
 - **Type NG-A (skew base):**
110 x 110 cm ÷ 190 x 260 cm,
- » optional wind – and/or inlet deflector for better aerodynamic performance,
- » simple replacement of vent elements – filling, thickness, type and color change,
- » RAL palette color selection for vent elements,
- » product certified according to EN 12101-2, CE-marked.

Design

Base

- » **type:** straight, skew,
- » **height:** 20–70 cm,
- » **material:** steel,
- » prepared for insulation of 50 mm thickness,
- » delivered in assembly components,
- » possible to apply on existing plinth.

Filling

- » multi-chamber polycarbonate,
- » **domes:** acrylic or solid polycarbonate,
- » sandwich panel,
- » multivariable single and multi-layer filling.

Control system

- » **smoke exhaust:** electric (24 V-), pneumatic,
- » **ventilation:** electric (230 V~), pneumatic.



Fig. 29 – mcr S-THERM smoke vent with open leaf



Fig. 30 – mcr S-THERM smoke vent with open leaf



Learn more about this product
on our website.

3.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Heat transfer

Product allows to achieve high heat transfer $U_{rc} \geq 0.9 \text{ W/m}^2\text{K}$.



Additional elements

- » wind deflectors (C, E),
- » inlet deflectors,
- » safety net,
- » limit switch.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

3.1.3 | Certification



Product certified according to EN 12101-2, CE-marked.



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 31 – mcr S-THERM smoke vent with open leaf

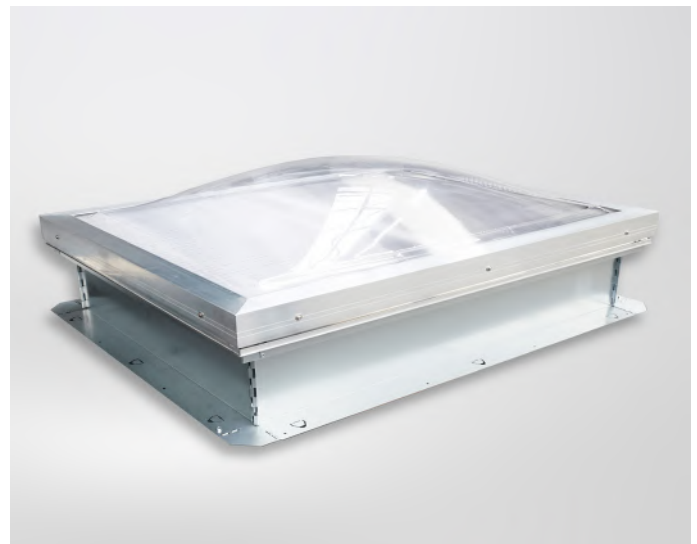


Fig. 32 – mcr S-THERM smoke vent with closed leaf

4.1 mcr OSO THERM | window exhaust system

4.1.1 | Description

- » smoke exhaust and ventilation window types:
 - top hung opening outward,
 - top hung opening inward,
 - bottom hung opening outward,
 - bottom hung opening inward,
- » wide scope of window sizes:
 - **vertical set-up:**
80 x 80 cm ÷ 160 x 220 cm,
 - **horizontal set-up:**
80 x 80 cm ÷ 270 x 130 cm,
- » wide selection of RAL palette colors and decorative woodgrain coating,
- » product acquires CE mark confirming compatibility with EN 12101-2.

Design

- » multi-chamber aluminum profiles,
- » leaf and frame groove system with covering profile for easy installation of cables and actuators consoles.

Filling

- » triple glass,
- » double glass,
- » sandwich panel.

Control system

- » **electric:** (24 V-/48 V-/230 V~).



Fig. 33 – mcr OSO THERM smoke exhaust windows



Fig. 34 – mcr OSO THERM smoke exhaust windows



Learn more about this product
on our website.

4.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Heat transfer

Product allows to achieve high heat transfer **Urc ≥ 0.8 W/m²K**.



Non-standard options

- » possibility of making bi-color windows,
- » decorative bars referring to old or modern architecture,
- » glazing bars.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

4.1.3 | Certification



Product acquires CE mark confirming compatibility with EN 12101-2.



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 35 – mcr OSO THERM smoke exhaust windows



Fig. 36 – mcr OSO THERM smoke exhaust windows

5.1 mcr LAM | louvered vents



BIM and **CAD** models are available through our QR code and on our website, in designer zone section.

5.1.1 | Description

- » mcr LAM louvered smoke vents are assembled to roof slope with various angles and facades,
- » due to its construction louvered vents are resistant to wind and can be installed to roofs and high building facades,
- » vast range of sizes allow to obtain necessary active area,
- » **wide scope of sizes:**
 - 80 x 50 cm ÷ 380 x 250 cm
- » RAL palette color selection for vent elements.

Design

Base

- » **height:** 15 ÷ 25 cm,
- » **material:** steel, aluminum,
- » thermal insulation with mineral wool of 20 mm thickness,

Blades

- » **types:** transparent, non-transparent,
- » **structure:** aluminum profiles, multi-chamber polycarbonate or aluminum insulated/ noninsulated sheet.

Control system

- » **smoke exhaust:** electric (24 V-), pneumatic,
- » **ventilation:** electric (24 V-), pneumatic.



Fig. 37 – mcr LAM louvered vent, roof mounted



Fig. 38 – mcr LAM louvered vent, facade mounted



Learn more about this product on our website.

5.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Smoke exhaust

Exhaust smoke, combustion gases and heat energy from enclosed spaces (production floors, storage spaces, public facilities, etc.) to the outside of buildings, in order to protect human lives and property.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.



Additional elements

- » rain shield,
- » limit switch,
- » steel plinth for mounting on the roof.

5.1.3 | Certification



Product acquires CE mark confirming compatibility with EN 12101-2.



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 39 – mcr LAM louvered vent, roof mounted - inside view



Fig. 40 – mcr LAM louvered vent, roof mounted

6.1 mcr PROSMOKE | smoke curtains

6.1.1 | Description

- » fire resistance parameters:
 - **automatic curtains:**
D30 / DH30 / DH60 or D180,
 - **fixed curtains:**
D180/DH60 (material),
or DH120 (steel),
- » vast range of curtain mounting to ceiling lintel or object construction,
- » automatic curtain as one-folded or modular device can be connected under an angle or contain evacuation entrance,
- » painting steel components with chosen RAL palette color,
- » product acquires CE mark confirming compatibility with EN 12101-1.

Design

Base

- » **mcr PROSMOKE ONE*** – automatic smoke curtain,
- » **mcr PROSMOKE CE*** – automatic smoke curtain (rolled and unrolled with motor),
- » **mcr PROSMOKE FS*** – automatic smoke curtain (fail-safe gravitational drop),
- » **mcr PROSMOKE S** – fixed fabric curtain,
- » **mcr PROSMOKE ST** – fixed steel curtain.

Automatic curtains – structure

- » steel sheet casing with roller,
- » incombustible fabric,
- » motor,
- » bottom balast,
- » masking element.

Fixed curtains – structure

- » **fixed fabric curtain:**
 - steel profile: load bearing and pressing,
 - incombustible fabric,
 - bottom balast.
- » **fixed steel curtain:**
 - trapezoidal metal sheet,
 - load bearing and bracing elements.



Fig. 41 – mcr PROSMOKE material smoke curtain

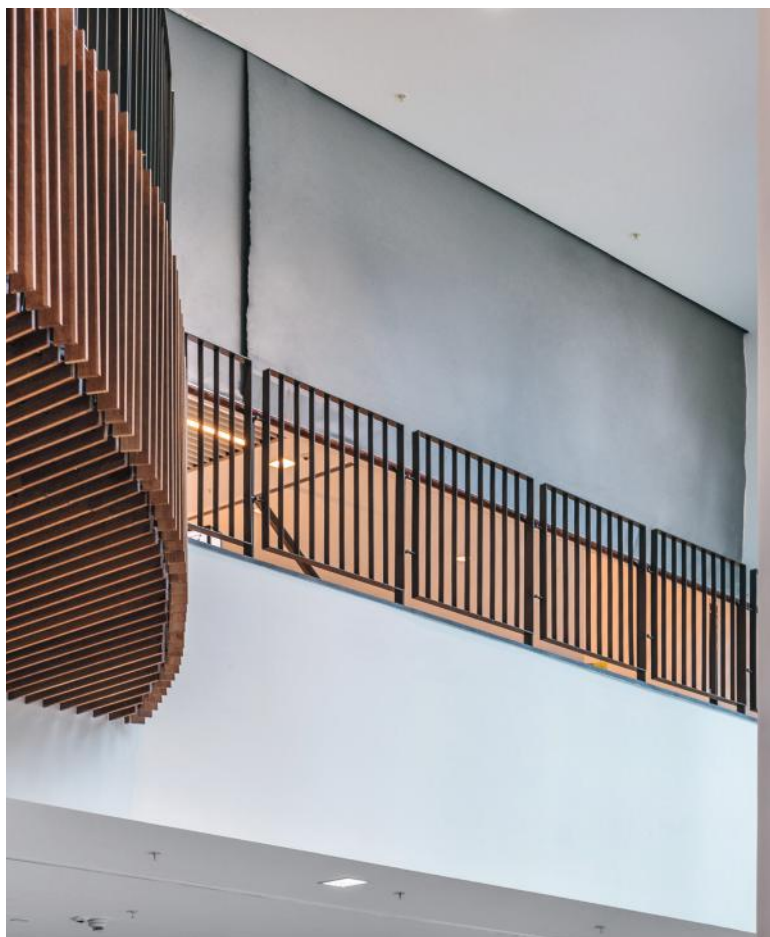


Fig. 42 – mcr PROSMOKE material smoke curtain



Learn more about products
from **mcr PROSMOKE** series
on our website.

6.1.2 | Features



Application

Wide scope of shapes and sizes enable installation in warehouses, public services buildings, shopping malls, commercial and sport objects.



Non-standard options

- » installation passages in fixed curtains,
- » elements painted to any RAL color,
- » service passage,
- » guides.



Separation of smoke zones

Separated smoke zones stop the spread of smoke in passageways, staircases, stairs and hold the smoke in a room adjacent to the evacuation route. Correct arrangement of smoke curtains in the facility allows the smoke to be directed towards other system devices – smoke vents.



Smoke flow optimisation and gas redirection into smoke vents

Proper placement of smoke curtains in a building makes it possible to direct the smoke towards other elements of the system, i.e. smoke vents.

6.1.3 | Certification



Product acquires CE mark confirming compatibility with EN 12101-1



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 43 – mcr PROSMOKE steel smoke curtain



Fig. 44 – mcr PROSMOKE material smoke curtain

7.1 mcr PROROOF | roof hatches

7.1.1 | Description

- » high thermal insulation,
- » various shapes and base materials,
- » product available in two variants:
 - **mcr PROROOF LD** – ladder type,
 - **mcr PROROOF ST** – stair type,
- » wide scope of hatches sizes:
 - **LD type:**
60 x 60 cm ÷ 150 x 140 cm,
 - **ST type:**
75 x 150 cm ÷ 75 x 330 cm,
- » device designed for:
 - upward load **UL=1500 Pa**,
 - downward load **DL=1000 Pa**,
- » opening angle:
 - (ST type): **90°**,
 - (LD type): **70°**,
- » leaf made of high-strength steel profiles,
- » durable base made of aluminum sheet,
- » blockade of the leaf in fully open position,
- » water tightness guaranteed by special EPDM gasket,
- » device elements painted to any RAL color,
- » includes blockade of the leaf in fully open position,
- » locking from inside and outside (2 keys in standard),
- » hatch resistance to large soft body impact test.

Design

Base

- » **type:** straight,
- » **height:** 25–70 cm,
- » **material:** aluminum sheet,
PIR 60 mm insulation.

Filling

- » multi-chamber polycarbonate,
- » **domes:** solid acrylic/ polycarbonate,
- » sandwich panel.

Control system

- » gas springs (hatch ST type equipped with an integrated blockage of the leaf).



Fig. 45 – mcr PROROOF roof hatch, opened

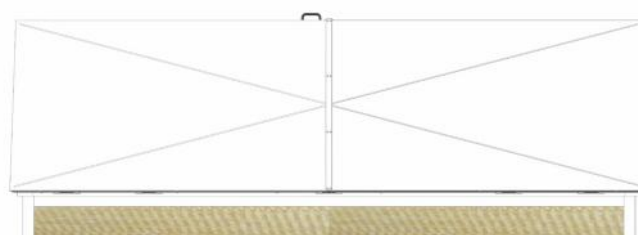
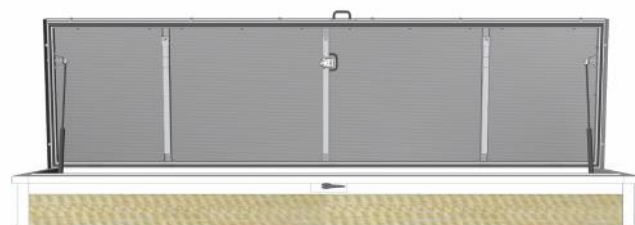
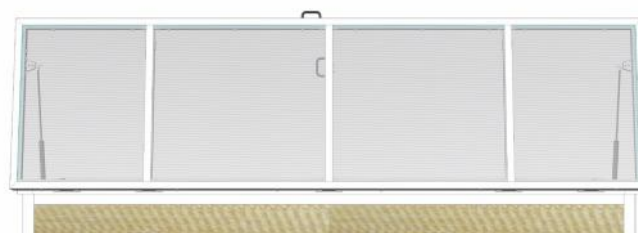


Fig. 46 – mcr PROROOF roof hatches, with various filling options



Learn more about this product
on our website.

7.1.2 | Features



Lighting

Effective method of increasing natural light intensity in rooms and contribute to reducing total cost of energy.



Ventilation

Daily ventilation, aeration.



Roof access

Opening mechanism enables easy roof access.



Heat transfer

Product allows to achieve high heat transfer **U_{rc} ≥ 0.36 W/m²K** thanks to 60 mm PIR isolation.



Additional elements

- » safety net,
- » adaptor type of base,
- » PVC planking.



Application

Wide scope of shapes and sizes enable installation on warehouses, public services buildings, shopping malls, commercial and sport objects.

7.1.3 | Certification



The steel sheets used in the vents comply with PN-EN 10346:2015-09 for surface type A.
The surfaces of the aluminum sheets used comply with the provisions of the PN-EN 485-1 standard.



Approval documents are available on our website: mercor.com.pl/en/download



Fig. 47 – mcr PROROOF LD roof hatch, opened with ladder

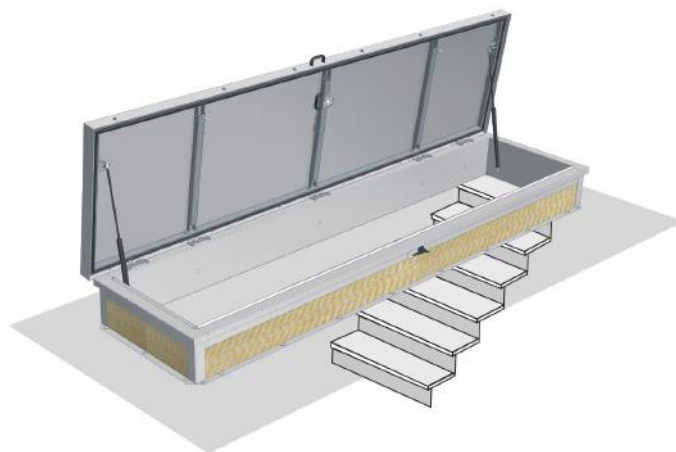


Fig. 48 – mcr PROROOF ST roof hatch, opened with stairs



Mercor Light&Vent sp. z o.o.
ul. Grzegorza z Sanoka 2
80-408 Gdańsk, Poland
tel. +48 58 341 42 45
export@mercors.com.pl

MERCOR UKRAINE SP. Z O.O.
Ukraine

www.mercor.com.ua

📍 9B Yaroslava Mudrogo str.
📍 79016 Ukraine, Lviv
☎ +380 322420346
✉ info@mercors.com.ua

MERCOR FIRE PROTECTION
SYSTEMS S.C. S.R.L.

Romania

www.mercor.ro

📍 Drum Centura Chitila:
📍 Mogosoaia, no 3, floor 4
📍 Oras Chitila, Ilfov RO-077045
☎ +40 371 324 182
☎ +40 372 877 070
✉ romania@mercors.com.pl

MERCOR TECRESA
PROTECCIÓN PASIVA, S.L.

Spain

mercortlv.es

📍 Parque Tecnológico Legatec.
📍 C/ Margarita Salas nº 6
📍 28919 Leganés (Madrid)
☎ +34 911 169 616
✉ info@mercortlv.com

MERCOR SLOVAKIA S.R.O.
Slovakia

www.mercor-slovakia.sk

📍 Galvaniho 7/D
📍 821 04 Bratislava
☎ +421 2 2062 0040
☎ +421 2 2062 0049
✉ mercor@mercorslovakia.sk

MERCOR CZECH REPUBLIC S.R.O.
Czech Republic

www.mercor-czech.cz

📍 Letní 1122/1
📍 721 00 Ostrava-Svinov
☎ +420 597 317 665
✉ mercor@mercors-czech.cz

MERCOR HUNGARY KFT.
Hungary

mercors.hu

📍 Teréz körút 55-57. Building A, 2nd floor
📍 1062 Budapest
✉ info@mercors.hu

MERCOR FIRE PROTECTION UK LTD
England

mercors-uk.co.uk

📍 Unit P(10), Heywood Distribution Park,
📍 Pilsworth Road, Heywood, OL10 2TT
☎ +44 (0) 0161 3598309
✉ enquiries@mercors-fp.co.uk

**CONTINUOUS
ROOFLIGHT WITH
SMOKE VENTS**



**SMOKE AND
VENTILATION
VENTS**



**LOUVERED
VENTS**



**SMOKE
CURTAINS**



**SMOKE
EXHAUST
WINDOWS**



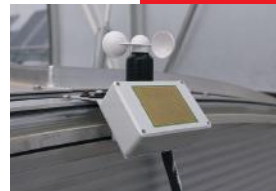
**ROOF
HATCHES**



**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.

www.mercors.com.pl/en

