



 We provide safety  
**NATURAL SMOKE EXHAUST SYSTEM**



In the case of large areas for warehousing, production or shopping malls, i.e. premises temporarily occupied by people, an adequate daylight system in compliance with legal regulations is a significant component.

To meet the above requirements, „MERCOR“ S.A. has been offering a comprehensive range of various daylight solutions for many years, including **mrc PROLIGHT** continuous rooflights or spot sky-

lights designated especially to supply daylight to the interiors. Our rooflights can be also used in the natural smoke and heat exhaust systems due to installed smoke exhaust and ventilation vents or a combination of the former two types.

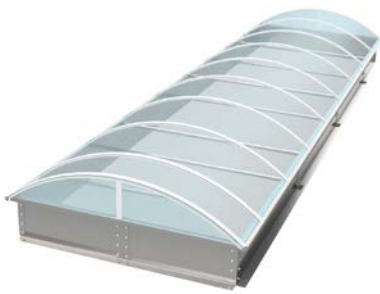
„MERCOR“ S.A. wants to satisfy its customers to the highest extent and therefore continuously works on new solutions to reach the enhanced thermal parameters of the offered products.



Mercor Group'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.

rooflighting  
systems

**mcr**  
**PROLIGHT**



**ARCH SHAPED ROOFLIGHT**



**ARCH SHAPED ROOFLIGHT**  
with smoke exhaust vent



**ARCH SHAPED ROOFLIGHT**  
with smoke exhaust vent and deflectors





## KEY ADVANTAGES OF mcr PROLIGHT CONTINUOUS ROOFLIGHTS

### FUNCTION

The use of light bands is the most effective way to illuminate the building with natural light, which increases the comfort of people staying in the building; it can also significantly reduce energy costs. Rooflights equipped with vents can simultaneously perform the functions of additional lighting and smoke removal or ventilation.



### CERTIFICATION

**Continuous rooflights** CE marked, are certified according to 14963 norm.

**Smoke exhaust vents** in rooflights are certified according to EN 12101-2, CE marked.



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



### APPLICATION

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



### WARMTH

The structure of mcr PROLIGHT rooflight systems allows an exceptionally good value of heat transfer coefficient (U).



### ADDITIONAL ELEMENTS

The range of additional elements completes the offer and allows for the most effective use of the function of mcr PROLIGHT continuous rooflights. The following are available for this product:

- » anti-burglar grid
- » safety net
- » limit switch (for rooflights with smoke vents)





## SMOKE EXHAUST AND VENTILATION IN CONTINUOUS ROOFLIGHTS



mcr PROLIGHT arched rooflights are characterised by a structure that enables the installation of smoke exhaust and ventilation vents or combination of both, combining these function along with supplying daylight to the building.

A wide range of mcr PROLIGHT rooflights enables the installation of a whole range of vents of:

- from **100 x 100 cm** to **200 x 250 cm** (single leaf vents),
- and from **100 x 100 cm** to **250 x 250 cm** (double leaf vents).

The vents integrated in rooflight systems, in the case of smoke exhaustion function, can be additionally assembled with wind deflectors, which increases the surface of active smoke exhausting.

By implementing the smoke exhaust function, the vents can be pneumatically or electrically controlled (**24 V~**). In case of ventilation vents, the electric actuator is used for their control (**230 V~**).

## NON-STANDARD FORMS OF CONTINUOUS ROOFLIGHTS



We implement unusual constructions of rooflights: **triangular shaped, pyramid and dome skylights**. These devices in the offer of „MERCOR“ S.A. are also characterized by excellent insulation and light transmission parameters.



### CONSTRUCTION

made of aluminum profiles



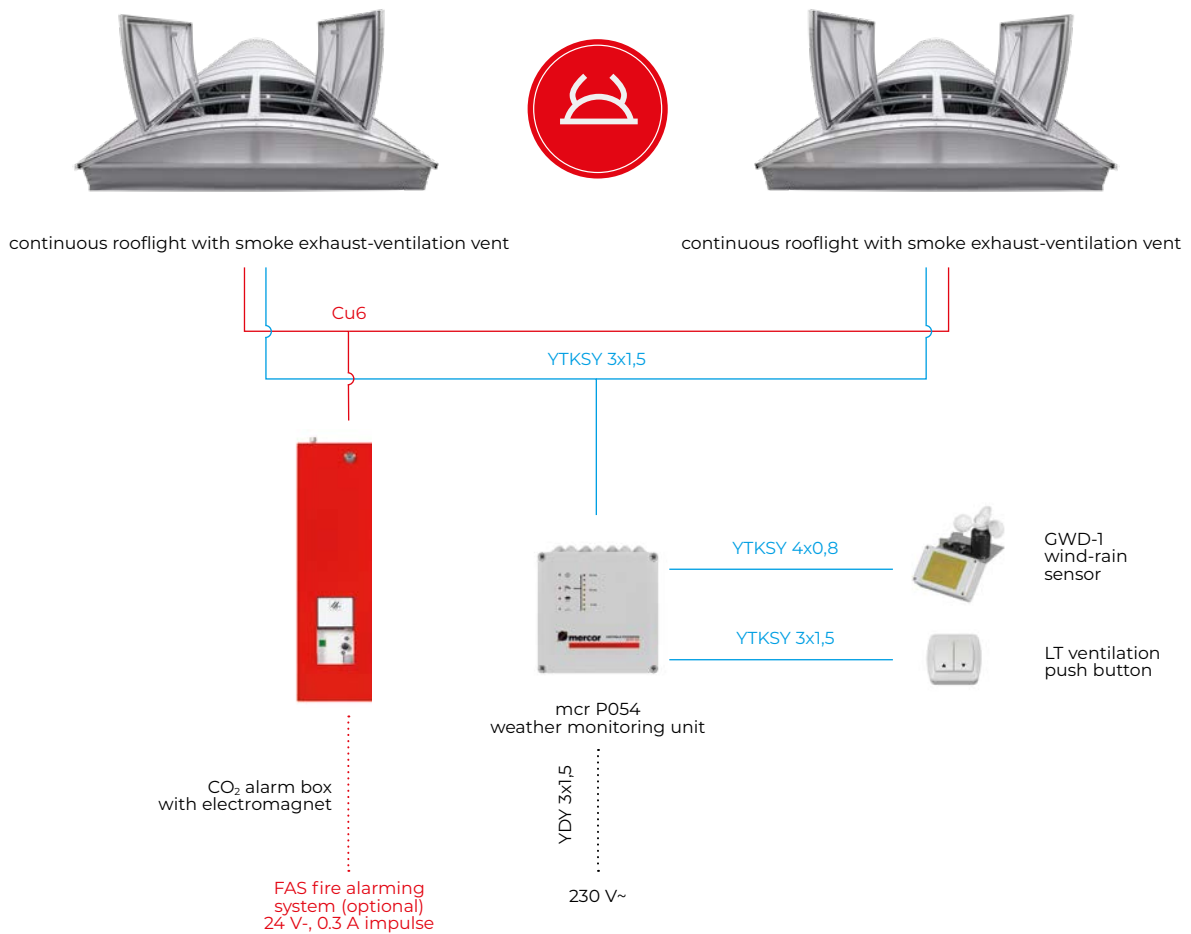
### FILLING

- » multi-chamber polycarbonate panel of 10 mm ÷ 25 mm thickness
- » with B<sub>ROOF</sub>(tI) classification

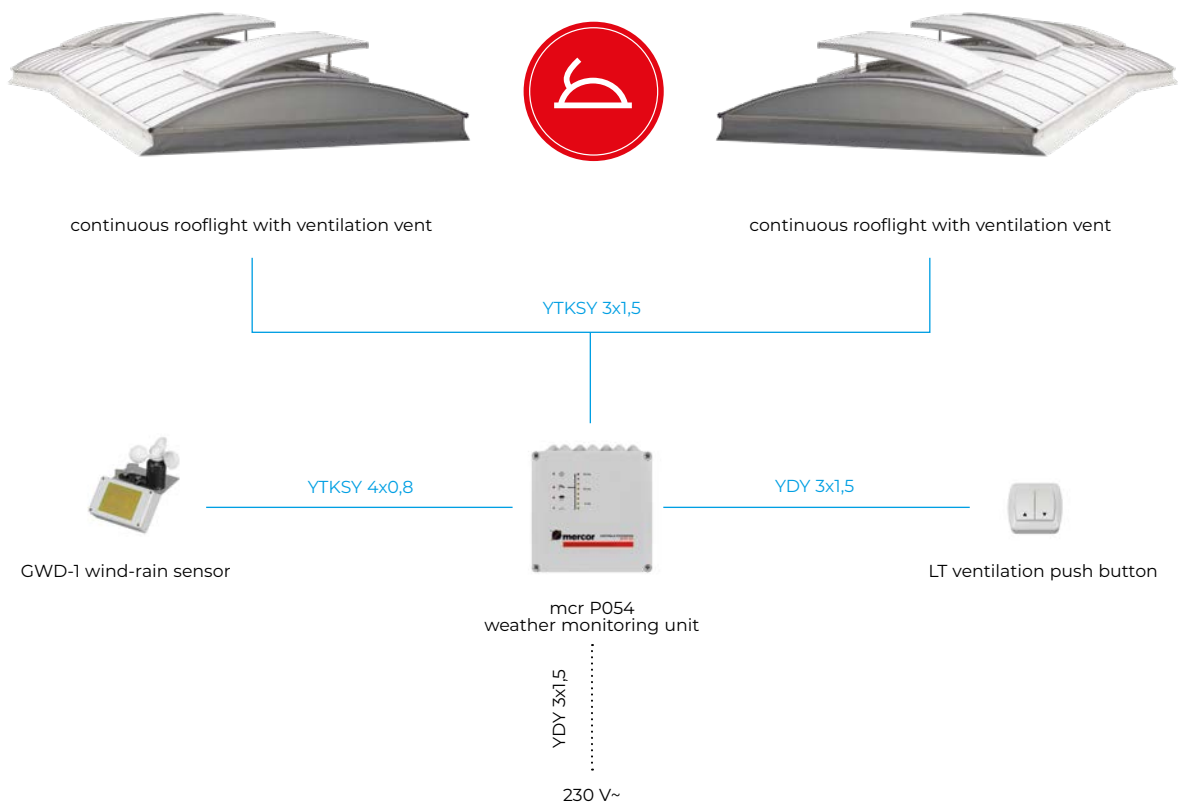


Please contact us to consult together on the project

## TYPICAL PNEUMATIC CONTROL SYSTEM CONFIGURATION WITH SMOKE VENTS IN ROOFLIGHTS WITH ADDITIONAL VENTILATION FUNCTION



## TYPICAL ELECTRIC CONTROL SYSTEM CONFIGURATION WITH VENTILATION VENTS IN ROOFLIGHTS





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**CONTINUOUS**  
**ROOFLIGHT WITH**  
**SMOKE VENTS**



**SMOKE AND**  
**VENTILATION**  
**VENTS**



**LOUVERED**  
**VENTS**



**SMOKE**  
**CURTAINS**



**SMOKE**  
**EXHAUST**  
**WINDOWS**



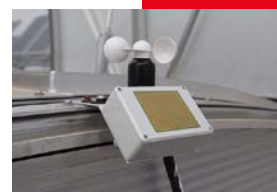
**ROOF**  
**HATCHES**



**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 product in the  
mcr PROLIGHT series

[www.mercor.com.pl/en](http://www.mercor.com.pl/en)

