



mcr EBR

fire resistant rolling curtains



APPLICATION

The **mcr EBR 120** and **mcr EBR 60** flexible rolling curtains are designed for separation of rooms or parts of rooms from other parts of buildings through automatic unwinding in case of fire, thus isolating fire zones in accordance with the relevant regulations.

They are primarily used in commercial and other public buildings. They ensure safety, operating reliability and aesthetics, all-in-one.

The EBR curtains are classified in the fire resistance class EI_2 120 and EI_2 60, in accordance with EN 13501-2:2008.

APPROVALS AND CERTIFICATION

- ▶ ITB Poland, Technical Approval No. AT-15-8938/2012
- ▶ ITB Poland, Certificate of Conformity No. ITB-2166/W

ADVANTAGES

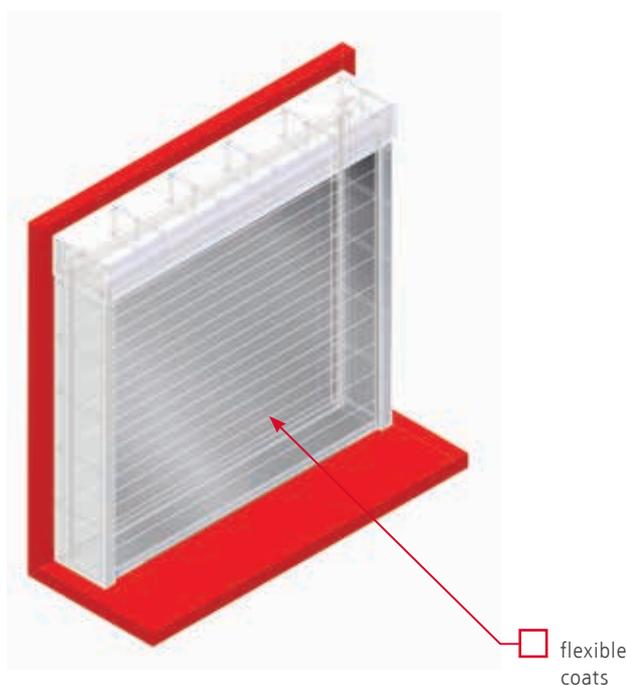
- ▶ high fire resistance class **EI_2 120, EI_2 60**
- ▶ optimum use of space
- ▶ easy to be installed in fire partition walls
- ▶ increased mechanical strength
- ▶ aesthetic casing
- ▶ robust and lightweight design
- ▶ competitive price

DIMENSIONS

The curtains are tailored to the specific Customer needs, while maximum dimensions according to the approval are 10000 x 6000 mm.

CONSTRUCTION

1. support structure made of hollow profiles
2. cover made of gypsum plasterboards and mineral wool
3. two flexible fabric coats, each made of three layers (see Fig. 2):
 - ▶ load carrying layer
 - ▶ insulating layer
 - ▶ aluminium foil
4. drive:
 - ▶ tube-mounted motors
 - ▶ gear-motor
5. standard supply:
 - ▶ control panels MCR 9705 16A or 10A
 - ▶ manual release button
6. additionally:
 - ▶ smoke detectors



The curtains are made of special, 13 mm (+/- 1.5 mm) thick, non-flammable fabric. The length of each curtain is adjusted so that when in completely unrolled position, its bottom surface, loaded with steel telescopic flat bar, fits tightly to the floor and the surface of the curtain is not tensioned. Each coat of the curtain consists of load carrying, insulating and aluminium foil layers.

The coats are wound up and unrolled by the drive unit. When rolled up, they are hidden in a shaft casing structure made of steel brackets and gypsum cardboards.

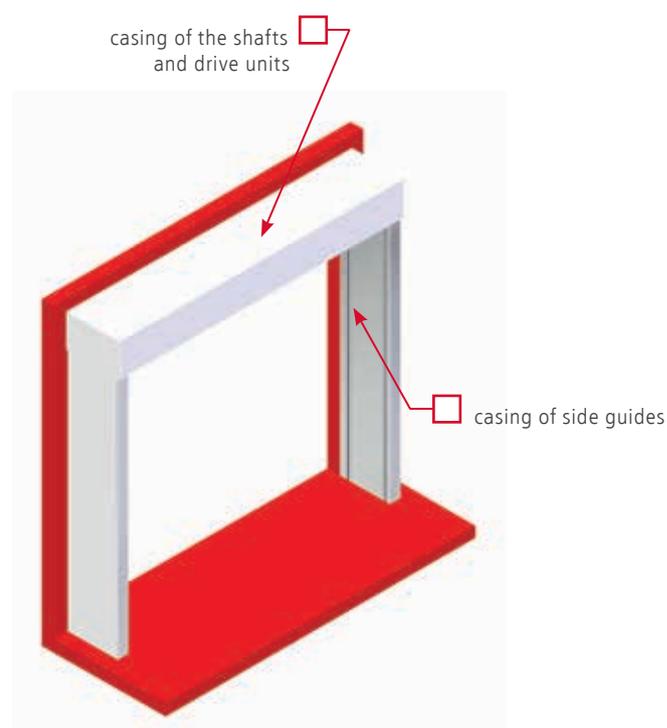


Fig. 1. Construction of the mcr EBR flexible rolling curtain

CONTROL

The mcr EBR 120 and mcr EBR 60 fire flexible rolling curtains are provided with a control system for its opening and closing, driven by a 24VDC motor. They are activated upon receipt of control signal from the main fire control room

or upon detection of fire by the detector elements incorporated into the curtain's control system. Direct motor control signal is generated by the control unit MCR 9705 16 A or 10 A.

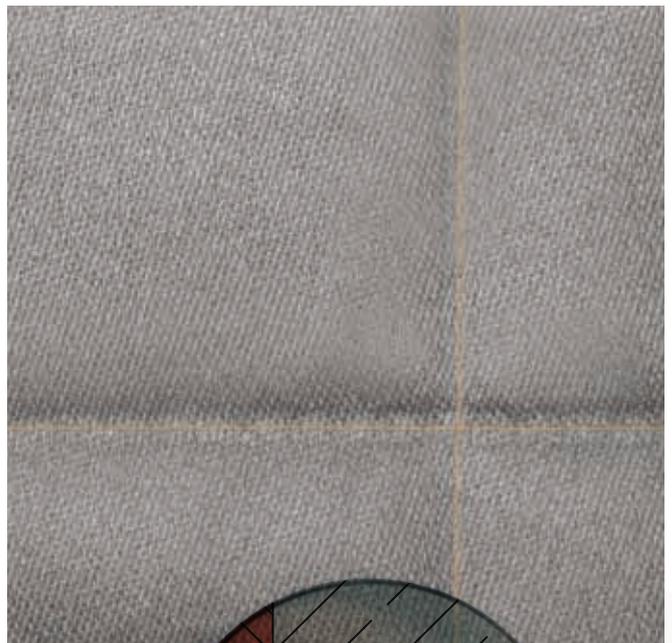


Fig. 2 Cross-section of the curtain's coat

A worker in a red shirt is operating a large industrial sewing machine. The machine has a digital display screen showing various icons and settings. The worker is focused on the task, and the machine is processing a large roll of white fabric. The background is a red wall, and the overall scene is a professional manufacturing environment.

MANUFACTURING

The mcr EBR curtains are manufactured in Mercor's production facility in Dobrzeń Wielki, Poland. Own know-how, as well as customised CNC machinery allows precise fitting of the product parameters to the expectations and requirements of our Customers.

FIRE PROTECTION SYSTEMS

- ▶ fire partitions
- ▶ smoke and heat exhausting systems
and roof skylights systems
- ▶ fire ventilation systems
- ▶ fireproof protection of building structures



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