

# MOVABLE SMOKE CURTAINS

## GSF KDR

Movable smoke curtains **GSF KDR GLOBAL SYSTEM** are intended to be used in buildings as barriers dividing space into smoke compartments. Their primary functions include:

- creating smoke compartments by containing and limiting the movement of smoke,
- redirecting the movement of smoke,
- preventing and delaying any influx of smoke into other areas or into air gaps.

Due to their design, smoke curtains can be combined modularly, allow to create security measures of unlimited dimensions. The curtains are suitable for a wide variety of applications in both public and commercial buildings.



### TYPES OF SMOKE CURTAINS GSF KDR GLOBAL SYSTEM

- **Classified by fire resistance class**

**D<sub>600</sub>181** - smoke curtain in temperature 600°C shows resistance up to 181 minutes

**DH60** - smoke curtain according to the standard heating curve EN 1363-1 shows resistance up to 60 minutes

**DH133** - smoke curtain according to the standard heating curve EN 1363-1 shows resistance up to 133 minutes

- **Classified by operating principle**

**ASB1** The curtain descends as a result of activation or power outage, at a speed range of 0,06 – 0,30 m/s, no lower than 2,5 meters from the floor

**ASB2** The curtain descends as a result of activation at a speed range of 0,06 – 0,30 m/s, no lower than 2,5 meters from the floor

**ASB3** The curtain descends as a result of activation or power outage, at a speed range of 0,06 – 0,15 m/s, at any height

**ASB4** The curtain descends as a result of activation at a speed range of 0,06 – 0,15 m/s, at any height

### GSF KDR MOVABLE SMOKE CURTAINS CONSTRUCTION

Movable smoke curtain consists of: curtain coat – made of fire-resistant fabric, shaft housing, ballast bar, tubular motor.



Limits the spread of smoke ✓



Limits the spread of smoke ✓

Creation of smoke tank ✓

Smoke direction ✓

### ADDITIONAL INFORMATIONS

The **movable smoke curtain coat** is wound on the shaft and kept in the open position by electric motor. In the event of a fire hazard, the curtain coat is released. Curtain control is carried out by control center.

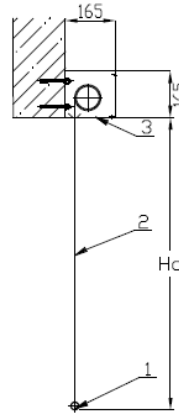
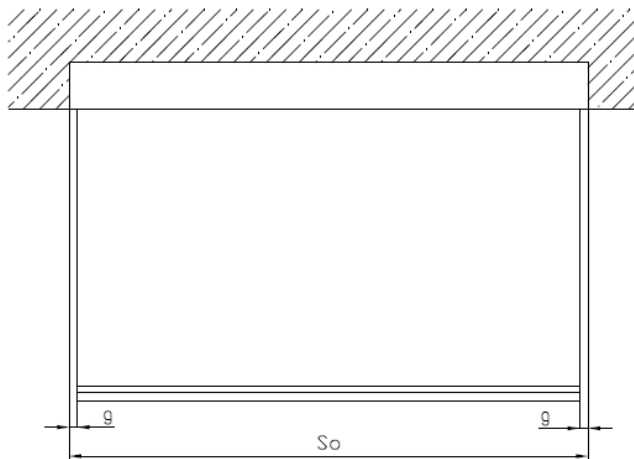
Smoke curtains **GSF KDS GLOBAL SYSTEM** are made in accordance with the harmonized standard: **EN 12101-1:2005 + A1:2006** Smoke and heat spreading system, Part 1: Technical requirements for smoke curtains.

## CONSTRUCTION CONDITIONS

### GSF KDR D<sub>600</sub>181, GSF KDR DH60, GSF KDR DH133

The installation conditions specify the space required for the smoke curtains installation. All unrecognized dimensions in terms of construction conditions should be agreed individually.

#### WALL MOUNTING

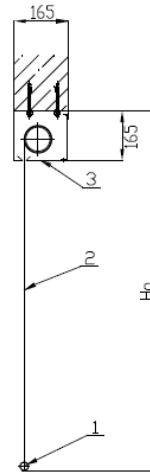
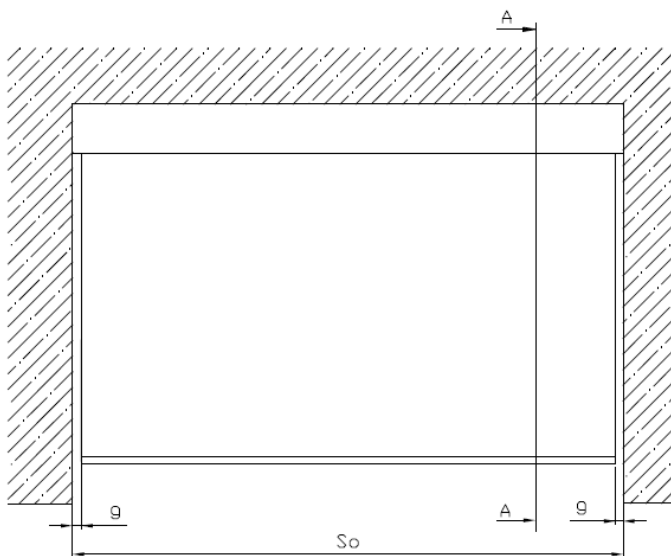


Class	Maximum module width [mm]	Maximum height [mm]
D <sub>600</sub> 181	5250	7200
DH60	5250	4950
DH133	5250	10350

g = 20 mm for Ho ≤ 2000 mm  
 g = 40 mm for Ho > 2000 mm ≤ 6000 mm  
 g = 60 mm for Ho > 6000 mm

1. Ballast
2. Coat
3. Winding shaft housing

#### CORRIDOR MOUNTING



Class	Maximum module width [mm]	Maximum height [mm]
D <sub>600</sub> 181	5250	7200
DH60	5250	4950
DH133	5250	10350

g = 20 mm for Ho ≤ 2000 mm  
 g = 40 mm for Ho > 2000 mm ≤ 6000 mm  
 g = 60 mm for Ho > 6000 mm

1. Ballast
2. Coat
3. Winding shaft housing

#### Warning:

The surface for mounting the smoke curtains must be vertical and even (smooth), tolerance +/-1mm/m. Otherwise, the customer is obliged to level the surface before installation. The documentation made by GLOBAL SYSTEM is protected by copyright. The manufacturer has the right to change the dimensions of the development during the execution of the order. The manufacturer reserves the form of legalization of the product in case of order.

All additional information to be agreed with the GLOBAL SYSTEM Technical Department.