

OHD-C EI(1) 60 / EW 90

fire resistant sectional door



Fire resistant sectional doors provide an excellent solution for compartmenting or closing off spaces and making them fireproof in several industrial applications. Due to the high fire-resistance of 60 minutes (in compliance with the EI(1) criteria) and 90 minutes (in compliance with the EI(2) and EW criteria), based on two-sided testing according to the European norm EN 1634-1, this door is very suitable for areas that require a high fire-resistance. It is also very suitable for facilities in which substances, dangerous for the environment, are stored.

Door armor

The door leaf of the sectional door consists of unique, fire resistant, composite sections (standard color white) with a thickness of 42mm. The bottom side of the armor is finished with a galvanized U-profile that is attached to the bottom section using pop rivets. The door leaf has a weight of 32 kg per m² and a theoretical insulation value (U value) of 1,99 W/m²K.

Side guides and top connection

The sectional door is fitted with a horizontal door fitting, high lift if necessary, or fully vertical fitting with steel wheels, made from high-quality galvanized steel. The top connection consist of a galvanized steel profile that is partially filled with fire resistant and intumescent (in case of heating) material.

Motion system

The motion system is composed of two galvanized steel or painted brackets. The brackets are attached to the wall using bolts and washer plates. The drive shaft, located between the brackets, is fitted with two aluminum cable drums which attach the steel cables to the door panel. The entire unit is secured by cable break protection.

The sectional door is constructed with horizontal fittings, with a high lift if necessary, or fully vertical, making this door suitable in spaces with the most diverse built-in situations. For mounting purposes, the construction wall must consist of concrete, aerated concrete or sand-lime brick.

Because the panels of the sectional door meet the fire class B-s1, d0, this door is particularly suitable for use in protected escape routes.

Drive

The fire resistant sectional door is standard equipped with a 400 V failsafe chain wheel motor, a control box and a safety catch device. In case of a power failure, the sectional door will close controlled by gravity due to this failsafe motor.

Control

The roller shutter is standard equipped with a control box and optionally 2 optical/acoustic signals, including a back-up system.

On the control box a variety of applications can be connected, such as key switches, smoke and temperature detectors, or a fire alarm system. Optionally, a set of light curtains can be connected to the control box for safe operation of the door.

Options

The sections of the door can be painted in a RAL color of choice by wet painting or wrapping. The fire resistant sectional door can be fitted with a liquid barrier in height 300mm or 500mm. The electrical components (motor and control box) and accessories (safety catch device, up-stop-down switch) are available in an explosion-proof (ATEX) version.



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classification	fire rating	max. width	max. height	max. opening
EI(1)	60 minutes	5.175 mm	6.967 mm	23,5 m ²
EI(2)	90 minutes	5.175 mm	6.967 mm	23,5 m ²
EW	90 minutes	5.175 mm	6.967 mm	23,5 m ²

Classificatie volgens:

- EN 13501-1 B-s1, d0
- EN 13501-2 EI160-C0 (C2-pending)
- EN 13501-2 EI290-C0 (C2-pending)
- EN 13501-2 EW90-C0 (C2-pending)

Report number:

- 2020-Efectis-R000946

The CE marking is provided according to the EN 16034, certificate no. 1812-CPR-1787.

These doors are delivered based on wind class 0. If it concerns an exterior shutter (inside/outside situation), wind class 2 is minimally required. Optionally these doors can be delivered up to wind class 4/5. Optionally these doors can be delivered up to wind class 4/5.



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