FIRE-RESISTANT

Steel roller shutter 4020 M.2.

NEW GENERATION

FUNCTIONAL FIRE SHUTTERS CONFORM TO EN 13241-1

The shutters are designed to be installed indoors, serving as fire doors separating different areas. If the shutter is to be incorporated into the building envelope, the door must be fully protected against weather conditions, e.g. via shelters, vestibules, etc., as the characteristics regarding water-tightness, resistance to wind, heat transfer coefficient and air permeability were determined as design classification 0.

- Fire resistances EW 30, 45, 60, 90 - C2 (DP1) All categories without covers.
- Tested according to STN EN 1634-1
- Classification according to STN EN 13501-2+A1
- Classification according to STN EN 15269-10
- Fire protection closure according to STN EN 14600
- Classification according to ČSN EN 13501-2+A1
- Classification according to ČSN EN 15269-10
- Classification according to CSN 73 0810, construction type DP1
- Self-closing according to EN 12605 (C2 = 10,000 cycles).

To be used in combination with the lower safety edge.

Control unit FS 345 with a backup battery.

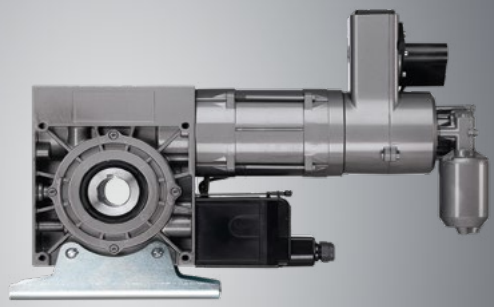
Control unit CS 310

The CS 310 control unit is a universal standard control unit for rolling shutters. Once it has been correctly set, it will operate on a fire protection basis and will initiate shutdown upon command. If you need to activate the lower safety edge during the alarm, push the shutter upwards and then it will start to close again after 30 seconds.

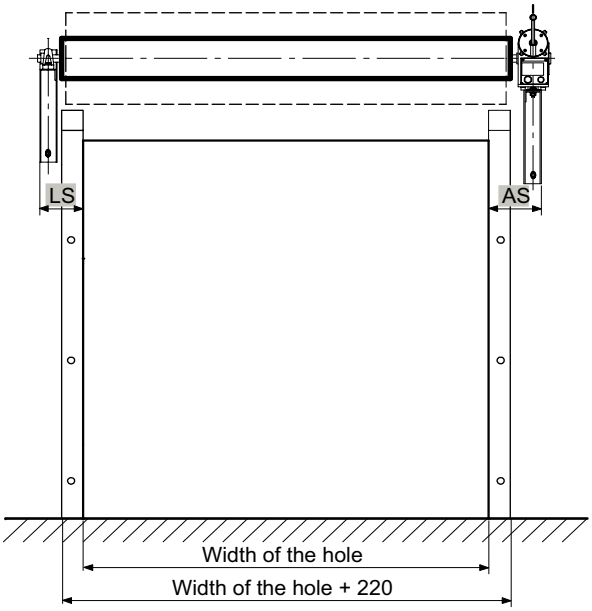
Control unit FS 345

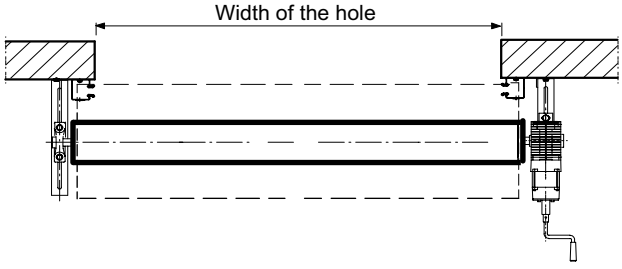
(includes platinum CS 300FS controller)

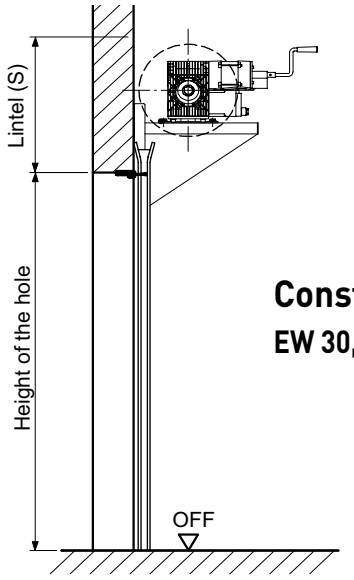
In the event of a fire and simultaneous power cut, close the shutter using the auxiliary 24 V motor with a backup battery via the control unit. The shutter will stop closing if the lower safety edge is activated during the process of closing the shutter. When the safety edge is deactivated, the shutter will start to close again with a delay of two seconds.



FDF series fire actuator.







Construction data: 4020 M.2

EW 30, EW 45, EW 60, EW 90, DP1,C2

drive	AS (mm)	LS (mm)
TAR	350 (400*)	250 (300*)
FDF	350 (400*)	250 (300*)
*cover with armor		

Specifications	
FIRE-RESISTANT ROLLER SHUTTER 4020 M.2.	
Installation	Vertical guide rails must be mounted in a fixed support structure with a minimum density of 613 kg/m3 and a minimum wall thickness of 250 mm using M10 threaded rods with maximum 750 mm spacing. The supporting brackets must be mounted in a fixed supporting structure with a minimum density of 1,200 kg/m3 and a minimum wall thickness of 250 mm using threaded rods and FISCHER chemical anchors or mechanical fasteners. Steel „U" profiles between the lintel and the plates are to be fastened using M10 threaded rods at intervals of 800-860 mm. The vertical guide rails are to be mounted under the roller shutter barrel onto a reinforced steel profile.
Door sizes	Shutter sizes: *EW 30, 45, 60, 90* Width: 2 to 5.7 m Height: 2.51 to 5.7 m
Surface	Steel profile coated with galvanised steel. Optional RAL finish (inside or outside) + anti-wear stainless steel plates.
Shutter curtain	These consist of profiles which are connected together with a special locking function.
Profiles	Galvanised steel thickness of 1 mm with mineral wool infil.
Lower finishing profile	A steel „C" profile is used to place the last profile onto the non-flammable Sico silicone profile.
Guide rails	Galvanised steel with a thickness of 2.5 mm (82 x 110 mm) with PROMASEAL foaming tape.
Roller tube	Steel tube primed on both sides and with shafts for mounting the drive and bearings.
Brackets	Made from 4 mm thick galvanised steel plate.
DRIVES	
Drives and control units	Direct drive with integrated facilities related to the roller shutter.
- Version 1 (standard)	TAR type electrical drive (socket) 400 V, 50 Hz, 60% ED, IP54, emergency release crank. Operating temperature range: -20°C to +60°C. The CS 310 control unit emits pulses via digital limit switches, IP 65, 24 V, and protection of lower edge by opto-sensors, CEE-plug 16A/5-pin. Operating temperature range: -10°C to +45 °C.
- Version 2 (Subject to surcharge):	FDF type electrical drive type (socket) 400 V, 60% ED, IP 54 incl. 24 V DC motor for closing the shutter in case of power failure. Operating temperature range: -20°C to +60°C. The FS 345 control unit emits pulses based on the CS 300FS control unit via mechanical limit switches. The FS 345 control unit with a backup battery, charger, sound signalling, and protection of lower edge by opto-sensors, CEE-plug 16A/5-pin. *IMPORTANT NOTICE! According to the manufacturer, the backup battery must be tested for functionality at least every four days!*
FURTHER DOCUMENTS	
An individual assembly drawing with specific dimensions will be created for each shutter.	

We would be happy to advise you.

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