

FIRE DOORS

INDUSTRIALS, COMMERCIALS AND RESIDENTIALS



www.davdoorsolutions.com

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Energy and movement



CERTIFICATES

TYPE APPROVAL CERTIFICATES				
LAB CERTIFICATE NUMBER	REPORT DATE	PRODUCT CHARACTERISTICS	STANDARD CLASSIFICATION	
1  6106/03-1-C1	09-10-03	Hinged metal double door with panic bar, automatic door closer and panel closing switch.	UNE- EN- 13501-2, 2002 El₂-60	
2  6860/05-9-C1	15-06-05	Hinged metal double door with panic bar.	UNE- EN- 13501-2:2004 El₂-60	
3  6861/05-4-C1	15-06-05	Hinged metal single door with panic bar.	UNE- EN- 13501-2:2004 El₂-60	
4  7523/07-3	10-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₁-60	
5  7523/07-7	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂-60	
6  7626/08-4	22-01-08	Hinged metal double door with surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂-60	
7  7627/08-4	23-01-08	Metal double door with hidden hinges, surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂-60	
8  8190/10-2	24-06-10	Metal single or double sliding door.	UNE- EN- 13501-2:2009 A1:2010 El₂-60	
9  6106/03-2-C1	09-10-03	Hinged metal double door with panic bar, automatic door closer and panel closing switch.	PR EN-13501-2:2002 El₂-60	
10  7523/07-10	11-05-11	Metal single door with spy-hole, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂-60	
11  6860/05-8-C1	15-06-05	Hinged metal double door with panic bar.	UNE- EN- 13501-2:2004 El₂-90	
12  6861/05-03-C1	15-06-05	Hinged metal single door with panic bar.	UNE- EN- 13501-2:2004 El₂-90	
13  7523/07-4	10-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₁-90	
14  7523/07-8	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂-90	
15  7626/08-5	22-01-08	Metal double door with hidden hinges, surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂-90	
16  7627/08-5	23-01-08	Metal double door with hidden hinges, surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂-90	
17  8190/10-3	24-06-10	Metal single or double sliding door.	UNE- EN- 13501-2:2009 A1:2010 El₂-90	
18  7523/07-11	11-05-11	Metal single door with spy-hole, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂-90	
19  6860/05-7-C1	15-06-05	Hinged metal double door with panic bar.	UNE- EN- 13501-2:2004 El₂-120	

CURRENT TYPE APPROVALS AND CERTIFICATES IN FORCE
AND ADAPTED TO THE NEW **El₁** AND **El₂** REGULATIONS

TYPE APPROVAL CERTIFICATES

LAB CERTIFICATE NUMBER	REPORT DATE	PRODUCT CHARACTERISTICS	STANDARD CLASSIFICATION
20  6860/05-6-C1	15-06-05	Hinged metal double door with panic bar.	UNE- EN- 13501-2:2004 El₂ -180
21  6860/05-1	15-06-05	Hinged metal double door with panic bar.	UNE- EN- 13501-2:2004 RF-240
22  7523/07-5	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₁-120
23  7523/07-9	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂ -120
24  7626/08-6	28-04-09	Hinged metal double door with surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂ -120
25  8190/10-4	24-06-10	Metal single or double sliding door.	UNE- EN- 13501-2:2009 A1:2010 El₂ -120
26  7523/07-12	11-05-11	Metal single door with spy-hole, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 A1:2010 El₂ -120
27  8190/10-5	24-06-10	Metal single or double sliding door.	UNE- EN- 13501-2:2009 A1:2010 El₂ -180
28  7931/09	21-06-10	Hinged metal single door.	UNE- EN- 14600:2006 C5
29  10/101149-120	11-03-10	Hinged metal double door.	UNE- EN- 14600:2006 C5
30  7523/07-2	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₁-45
31  7523/07-2	14-01-08	Hinged metal single door with surrounding frame, panic bar and hidden door closer.	UNE- EN- 13501-2:2004 El₂ -45
32  7626/08-2	28-04-08	Hinged metal double door with surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₁ -45
33  7626/08-3	28-04-08	Hinged metal double door with surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂ -45
34  7627/08-2	28-04-08	Metal double door with hidden hinges, surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₁-45
35  7627/08-3	28-04-08	Metal double door with hidden hinges, surrounding frame, panic bar, spy-hole and hidden door closer with built-in panel switch.	UNE- EN- 13501-2:2004 El₂ -45
36  8190/10-6	24-06-10	Metal single or double sliding door.	UNE- EN- 13501-2:2009 A1:2010 El₂ -180

Single or double standard hinged fire doors

El₁ - El₂ - 60 - 90 - 120 - 180 C/5



INSULATION:
according to El₁ and El₂ 60-90-120-180/C5 fire rating, a combination of a rockwool panel, M-0 fireproof, and 15 mm thick fireproof plasterboard panels.

SUPPLIED AS STANDARD:
Intumescent seal
Cold Gas Seal
Lock
Cylinder and 3 keys
Non-slag handle

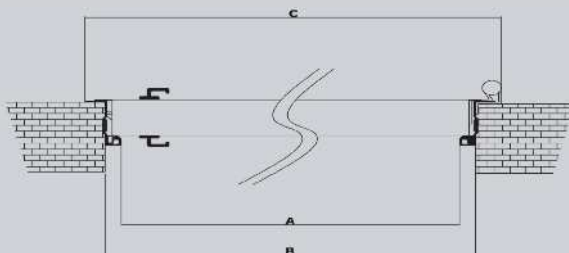


**Door with
C/5
durability
guarantee
200,000 cycles**

Door characteristics:

FRAME:
made from laminated steel profiles, 2.5 mm thick, cold-shaped in the form of a 'Z', electro-welded on the upper corners. Special fitting in the profile itself to house and protect the intumescent seal. It also has a fireproof PVC seal all around the perimeter.

PANELS:
made of a 1 mm thick galvanised steel sheet box and top, folded and electro-welded to form a self-bearing unit. Internal insulation appropriate to its fire rating.



Single fire door

Standard measurement, single door

MODEL	ROUGH OPENING (B)	CLEARANCE (A)	FRAME TOTAL (C)
6300	770 X 2090	700 X 2050	820 X 2160
6301	870 X 2090	800 X 2050	920 X 2160
6302	970 X 2090	900 X 2050	1020 X 2160
6303	1070 X 2090	1000 X 2050	1120 X 2160
6304	1170 X 2090	1100 X 2050	1220 X 2160



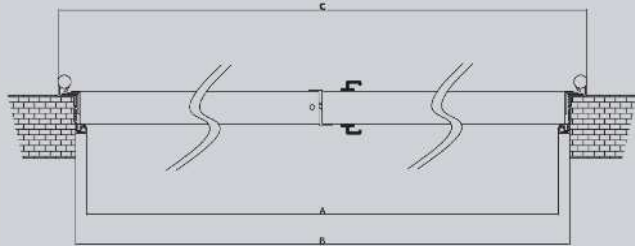
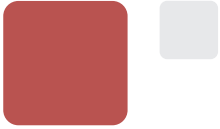
AIRTIGHT SEAL
patented system
"Smoke blocking airtight sealing device for fire doors"
Cold gas seal: specially structured PVC perimeter profile. Fireproof to 130°C. M-1 (Non-flammable) fire rating.
Intumescent seal - Hot and cold gases: 13 x 2 mm "Palusol" perimeter seal lined with self-adhesive fireproof PVC, 1/10 expansion capacity up to 130°C. M-1 (Non-flammable) fire rating.

FINISH:
Grey primer - RAL 7001

ACCESSORIES:
see the section on hinged door accessories.



**Always
in stock,
standard
measurements**



Double fire door

Standard measurement, double door			
MODEL	ROUGH OPENING (B)	CLEARANCE (A)	FRAME TOTAL (C)
6310	1270 X 2090	1200 X 2050	1320 X 2160
6320	1470 X 2090	1400 X 2050	1520 X 2160
6330	1670 X 2090	1600 X 2050	1720 X 2160
6340	1870 X 2090	1800 X 2050	1920 X 2160
6350	2070 X 2090	2000 X 2050	2120 X 2160

Single or double hinged fire doors - special measurements

EI₁ - EI₂ - 60 - 90 - 120 - 180 C/5



approval stating its composition.

Our production lines are capable of offering the production of hinged doors with special measurements. We guarantee firm delivery deadlines. They are built with the same materials and components as standard production. This allows us to fit type-approved accessories and components on our doors as a unit.

Due to the large demand and small supply in the market, DAV Door Solutions has specialised in special and large-sized doors in order to meet the needs of our customers and the market.

The results our fire doors have achieved in fire resistance tests allow us to extrapolate the total

measurements tested along both width and height. When the requested measurements fall outside of the permitted extrapolation, the same manufacturing parameters and quality processes are followed as for the tested doors. A certificate is provided together with the type

We produce hinged fire doors to special measurements on order. If the dimensions so require, we produce specially shaped frames suited to the doors' measurements.

Door with
C/5
durability
guarantee
200,000 cycles



**Immediate
shipment**



C-5:
Auto-closing durability test
according to UNE-EN 1191 and
C-5 classification (200,000
cycles) according to UNE-EN
14600. For single and double
doors.

Our doors meet the requirements
of the Spanish Technical Building
Code, have passed the fire
resistance tests according to the
UNE-EN-16341 standard and
meet the standard classification
13501-2 EI₂ (E= Integrity, I₂=
Insulation). All parts and
accessories marked "CE" have
received type approval together
with our doors.



Hingeless fire doors

El₂ - 60 - 90 C/5



The SB63 has been created to fill a gap in the market. This door model is the result of our entire team's effort to develop a different model of door to anything previously available in the market. It is hingeless and has hidden mechanisms. It is specially designed for public areas and has features that simplify panelling made from other materials.



The SB63 panel is made from an DX51-D+Z quality galvanised sheet and the standard surrounding frame is made of a sheet 2.5 mm thick. The main features of this door are that the panels turn on hidden ball-bearing axes and the face of the door is completely aligned with the front edge of the frame.

a galvanised sheet coated in primer or A316LSAT quality stainless steel.

PATENT:
Utility Model number
200800544 dated 06/08/2008

OPTIONAL

- Door closer fitted (hidden) inside the panels and the frame.
- Exposed overhead door closer.
- Door closer switch fitted (hidden) inside the frame for double doors.
- Stainless steel finish.
- Spy-holes.
- Panic bar.



It is available in two types of finish:

Door with
C/5
durability
guarantee
200,000 cycles



Single or double stainless steel hingeless fire doors

El₂ - 45 - 60 - 90 - 120 El₄₅



A NEW metal fire door, recently developed and granted type approval for El₂ 45, 60, 90 and 120 and El₄₅ at AfitiLico's labs in Madrid.

CHARACTERISTICS:

- Single or double fire door.
- Surrounding frame 2 mm thick.
- Hidden hinges.
- Hidden door closer.
- The panels turn on hidden axes with ball-bearings in the upper and lower corners.
- Hidden panel switch.
- Double panic bar with handle.
- UNE-EN 13501-2:3005 standard type-approved product according to the Spanish Technical Building Code (CTE) El₁-El₂-45-60-90-120 classification
- Custom made to order.
- Also made of steel.
- Stainless steel roses, spy-holes, handles and panic bar.



The most novel feature these doors have is a front and back view in which the front of the panel is totally in line with the front edge of the frame. Neither hinges, nor any part of the door closer nor the closing switch can be seen, as shown in the photographs.



Hinged door accessories

Type-approved accessories



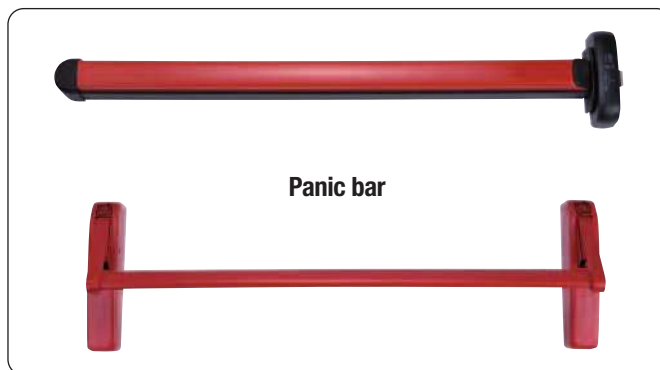
both panels close perfectly.

ELECTROMAGNETS:

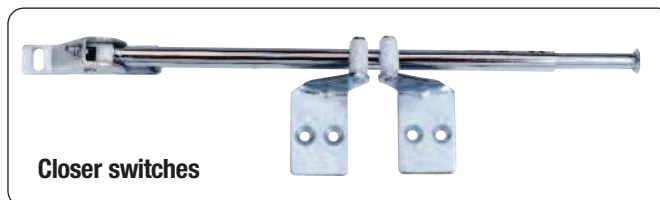
These hold the panels open until a signal releases the door so it closes.

DOOR CLOSERS

Our hinged doors can also be adapted with type-approved accessories fitted on the doors as a unit:



- Panic bar for single or double doors.
- Panic bar for stainless steel single or double doors.
- Crash bar for single or double doors.
- Fireproof glass spy-holes.
- EL₂-60-90-120 fireproof glass spy-holes
- Electromagnets with or without a button.
- Overhead door closers.
- Hidden door closers.
- Panel switches for double doors.
- Stainless steel handles.
- Skeleton locks.
- Intumescent bars.
- Door closer unit with a panel switch built-in and electromagnets.
- Inverse door closers.



SPY-HOLES:

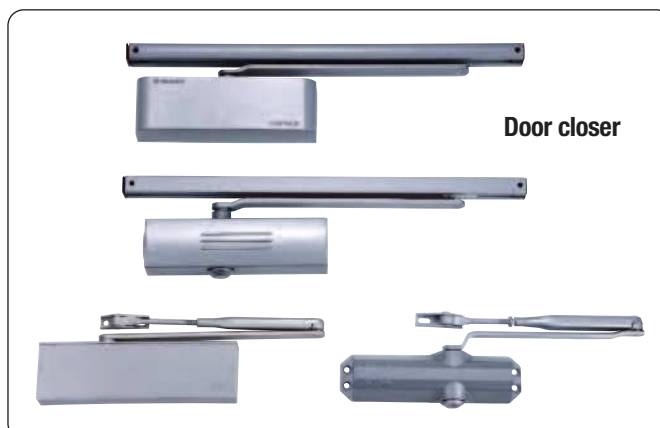
Standard 300 mm diameter. Fireproof glass and EL₂ 30 - 60 - 90 - 120 glass can be used. We can produce spy-holes with different shapes and sizes to meet the customer's needs.

PANIC BARS:

Crash bars for single or double doors.

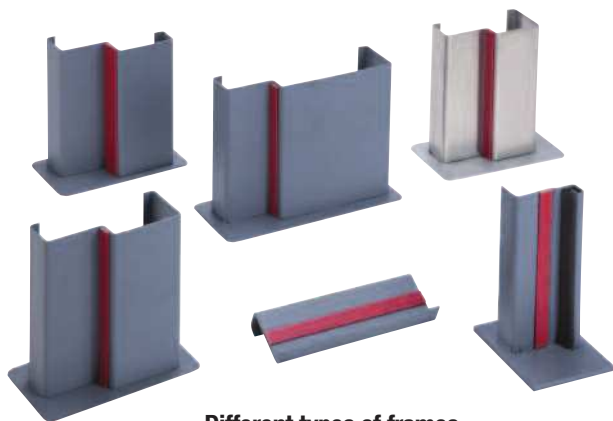
PANEL SWITCHES:

Fitted on double doors. They allow the active panel to be selected so



Special frames and glass

**Type-approved
frames and glass**



Different types of frames

We make special frames of the built-in, surrounding type, etc. to order according to building needs.



EL₂ glass



Hinges

Intumescent bar



Stainless steel handles



GLASS EL ₂		
TYPE-APPROVED	CLASSIFICATION	THICKNESS
LGAI 09/100451-1031	EL- 30	15 M/M
LGAI 09/100451-1032	EL- 60	23 M/M
LGAI 09/100451-1034	EL- 90	39 M/M
LGAI 09/100451-1033	EL- 120	47 M/M

Standard UNE-EN - 13501-2/ 2004 marked CE

Single or double sliding fire doors

El₂ - 60 - 90 - 120



TYPE APPROVAL:
El₂ 60 - 90 - 120 classification

STANDARDS:
UNE-EN-13501-2:2009

CERTIFICATES:
They meet the fire protection conditions in the Spanish Technical Building Code Royal Decree 314/2006 of 17 March 2006, AFITI LICO F laboratory. Our certificates cover the entire unit (door and accessories)

TECHNICAL CHARACTERISTICS:
Made of brushed steel and RAL 7001 fireproof paint. Unit of

assembled sheets, joined together and welded to the surrounding U-shaped join, 40 x 80 x 40 x 3 mm thick, forming a rigid unit. 25 x 2 mm self-adhesive fireproof intumescent airtight seal all around the perimeter; 1/10 expansion capacity from 130°C, non-flammable. 75 mm thick basalt rockwool insulation, incombustible 145 Kg/m³ density. Ω-shaped upper rails with steel pipe profile for top sliding with rollers (two per panel). This unit can bear a weight of up to 2500 kg per panel. Bracket supports are

supplied for fitting and anchoring on site.

Top sliding with lubricated ball bearing units to allow sliding inside the rails. The height can be adjusted for a better upper and lower fit. Depending on the door size, this equipment bears maximum weights of 300/400/500/750/1200/2500 kg per door panel. Adjustable spring pulley to pull the door,

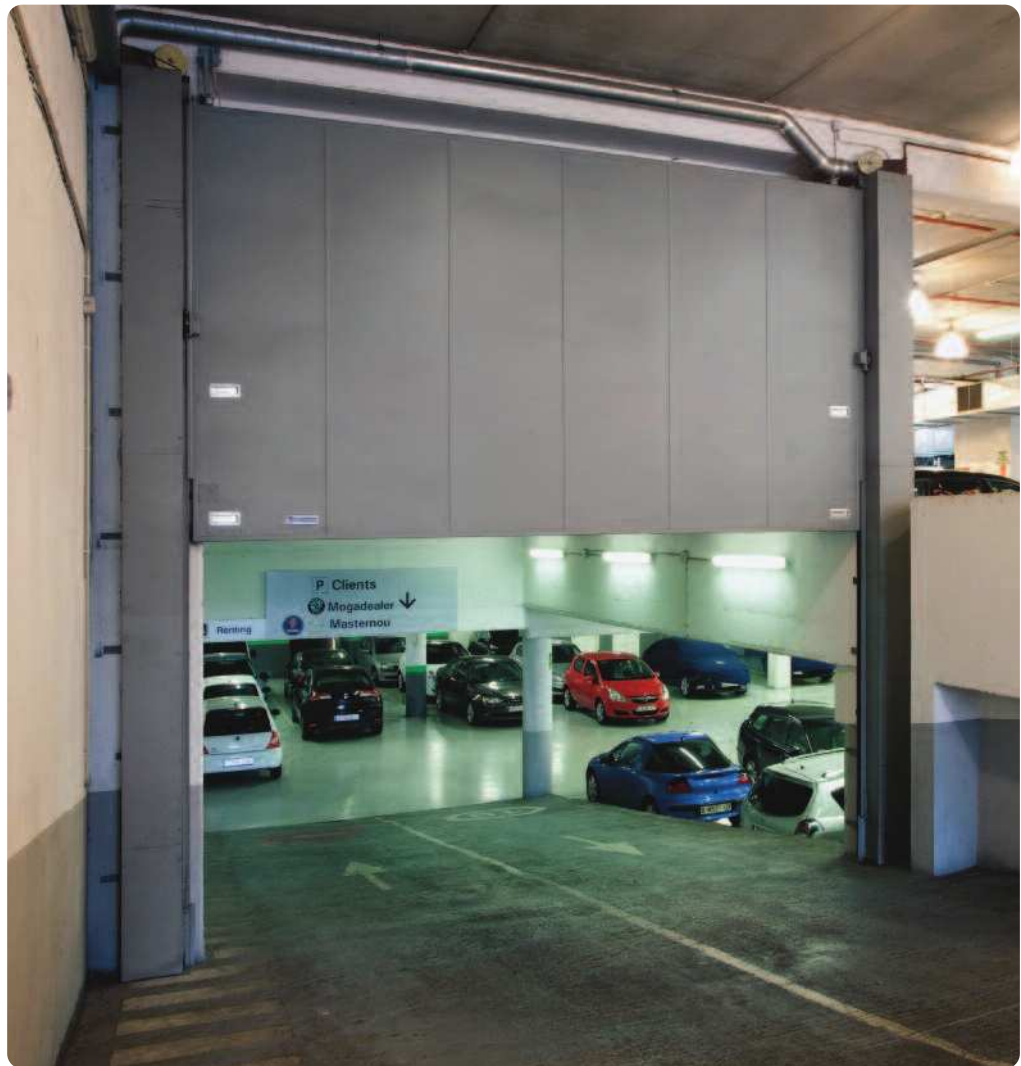


**Immediate
shipment**

which avoids using counterweights. Speed reduction gear, which controls speed in a constant, uniform manner. Hydraulic shock absorber to gently adjust door closing. Electromagnet to hold the door in the open position. Thermal fuse holding the door open, which releases the door once the temperature reaches 70°C.

ACCESSORIES:

Spy-holes
Electromagnet
Pulled by a spring pulley
Speed reduction gear
Hydraulic shock absorber
Thermal fuse



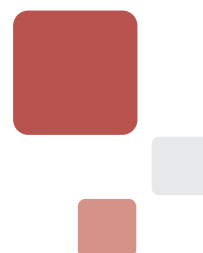
Sliding fire doors and unit

EI - 60 - 90 - 120 - 180

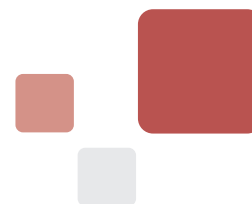
In areas in which fire safety requires the fitting of an EI-60-90-120-180 sliding fire door, we offer insulation of the fast door and sliding fire door unit. This is ideal for dividing areas into separate compartments; industrial units and large spaces. It enables a twofold effect: insulation and fire resistance.



The fast door, which is highly robust and durable, is silent. The folding area is small and it is commonly used to create compartments as passageways for people or vehicles. The sliding fire door remains open and only acts in case of emergency, in accordance with the European EI fire prevention regulations. The single or double sliding door is made of panels that are assembled and electro-welded with Z-shaped fittings. Our certificates are covered by the Spanish Technical Building Code. EI-60-90-120-180 type-approved sliding fire door.



Sliding door accessories



Spring pulley



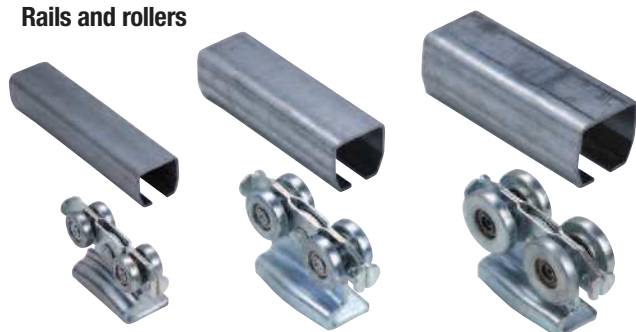
Hydraulic shock absorber



Speed reduction gear



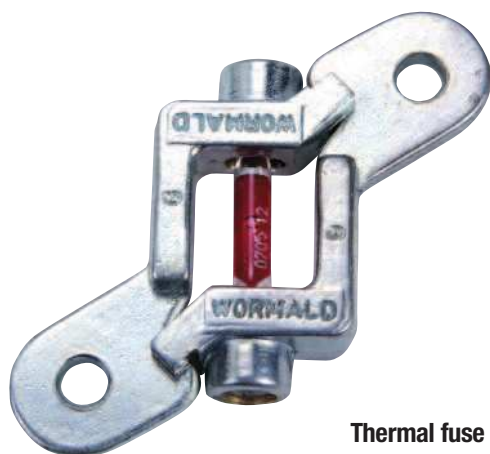
Rails and rollers



Electromagnets



Thermal fuse



Fire-resistant roller shutters

El₁ - 60 El₂ - 60



TYPE APPROVAL No.:
216/C5a/2007/0111

CLASSIFICATION:
El₁60/ El₂60

LABORATORY:
PAVUS, AS

STANDARDS:
CSM EN 1634 1:2000
CSM EN 13501-2:2003

TECHNICAL CHARACTERISTICS:
PVC strips with a wood interior coated in fireproof resin, 36 mm thick. 1/10 expanding perimeter intumescent seals. Grey RAL 7047 fireproof paint finish. Galvanised steel rails to allow sliding with a minimum of friction. Installed on a sub-frame. Completely sealed tubular steel roller axle. 380V three-phase geared motor for regular use with front displacement and no spring offsetting. Manual manoeuvring available. Manoeuvring box ready for connection to fire prevention systems with a 24V battery connected to an additional single-phase motor to automatically shut in response to an emergency signal.

**We tailor
production
to your needs**

Sectional fire doors

El₁ - 60 El₂ - 60



TYPE APPROVAL No.:
2007249 August 2007

CLASSIFICATION:
El₁60/ El₂60

LABORATORY:
EFFECTIS, NETHERLANDS

STANDARDS:
CSM EN 1634 1:2000 CSM EN
13501-2:2003

TECHNICAL CHARACTERISTICS:
PVC panels with a wood interior
coated in fireproof resin, 40 mm
thick 1/10 expanding perimeter
intumescent seals. Grey RAL
7047 fireproof paint finish.
Special configuration rails made
of 3 mm thick galvanised steel to
slide on internal bearings.

Completely tubular steel roller
axle, spring offsetting system,
safety system for equipment and
cable breakage. 380V three-
phase motor directly attached to
the axle. Manual manoeuvring
available. Manoeuvring box ready
for connection to fire prevention
systems with a 24V battery
connected to an additional three-
phase motor to automatically
shut in response to an
emergency signal.





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