



# EFFERTZ®

## Products:

We offer you a maximum of quality, most advanced technology and a diversity of products that can hardly be found elsewhere. Our doors stand out for troublefree operation for many decades.

## Account and customer service:

Finding the optimum solution for your individual problems is our aim. We are prepared to assist you already in the planning phase.

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## Short delivery terms:

Thanks to our very flexible organisation, we can grant unbeatably short delivery terms. Agreed terms are equivalent to promises and promises are kept!

## For your safety:

For more than 120 years, we have been developing and constructing doors, as well for special applications. Even after decades, we will deliver the spare parts.

Effertz Sales Partner



Single-Curtain  
Fire Resistant Rolling  
Door T30 Type II  
and T30 Type II UD  
according to DIN 4102



This patented single-curtain fire resistant rolling door which is very easy to install is available exclusively from Effertz. As with all our fire resistant doors, this type has also been subjected to a function and fire test, including opening and closing 10,000 times, in order to ensure the high standard of quality. With the general approval of the German certification body for clear dimensions (width x height) from 1,200 x 1,400 mm up to 6,000 x 5,500 resp. 12,000 x 4,500 mm (other dimensions possible).  
Fire resistant T30 to DIN 4102.

## Note for our customers

If necessary, an escape door with the corresponding fire class must be provided in the vicinity of the fire resistant rolling door and marked accordingly.  
The supply and installation of the anchored welding plates for installation of the doors

in accordance with our instructions.  
All steel parts can also be secured with through-bolts. The mounting surfaces for the rolling door parts must then be smooth.  
Minimum strength of the walls in which the doors are to be installed:  
Concrete or steel-reinforced concrete to DIN 1045, strength class B15, wall thickness  $\geq 140$  mm, masonry to DIN 1053, bricks of strength class 12 MN/m<sup>2</sup>, mortar group III, wall thickness  $\geq 240$  mm.  
Tolerance for all installation dimensions + 10 mm.  
The testing and responsibility for the statics of the parts to which the mounting of the doors is to be made lies with the customer.



### Effertz T30 Type II UD

Special design with horizontal shutter,  
only 350 mm lintel height

## Description of Scope of Supplies and Services

- ◇ Single-curtain fire resistant rolling door T30 EFFERTZ Type II (Approval No. Z-6.3-1085) in the form approved by the German Institute for Construction Engineering (DIBt), Berlin in accordance with DIN 4102. With only one fire resistant insulated roller shutter.
- ◇ Roller shutter made from hot galvanized steel main and outer profiles with insulating mat hooked permanently between the profiles, including similar insulation under the cover profile.
- ◇ Material thickness of each of the rolling door profiles 1 mm.
- ◇ The roller shutter is equipped with a safety contact strip as sensitive edge.
- ◇ Guides of zinc coated steel with at least 80 mm depth.
- ◇ Shaft with corrosion inhibiting primer coating, self-aligning ball bearings.
- ◇ Type tested arrestor.
- ◇ Plastic chain guard.
- ◇ Welded bearing consoles with primary paint coating.
- ◇ Roll cover designed as a frame construction of hot galvanized steel with fire resistant lining
- ◇ Special electric drive with centrifugal brake which limits the closing speed when tripped to 15 cm/s.
- ◇ Supply voltage 400 V 3-phase AC, including reversing contactor control and alarm
- ◇ Approved release system in lockable steel cabinet with transformer, 24 V DC power supply unit with back-up batteries, battery charger with monitor, optical and acoustic fault indication with fault display via LEDs.
- ◇ Operation of the door with key-operated switch of surface-mounted design, prepared for profile cylinder lock (dead man's control).
- ◇ In the event of danger, the door can be tripped via an emergency hand switch behind glass or via smoke detectors which have to be installed on the ceiling on both sides of the rolling door.
- ◇ The number of smoke detectors used (detection radius = 2000 mm) is determined by the width of the door (on both sides of the opening in each case). If necessary, the additional use of temperature-sensing detectors is possible. With lintel heights of more than 1000 mm, one or more additional smoke detectors must be installed on the underside of the lintel.





As specialists for fire protection, smoke protection, sound insulation and large doors, we make a major contribution to meeting our customers' demands for safety and protection.

Our lead lies in more than 120 years' experience. Our know-how is always your guarantee for innovative and unique solutions.

## Extract from our reference list

A Boet, Villeneuve (France)  
 Airport "Spata", Athens (Greece)  
 Audi, Istanbul (Turkey)  
 BASF (Spain)  
 Bayer Hellas, Athens (Greece)  
 Bonset, Amsterdam (Netherlands)  
 Citi Bank, Warszawa (Poland)  
 Cuhadaroglu, Sisli-Istanbul (Turkey)  
 Culture Center, Llsalmi (Finland)  
 Edolas, Tokyo (Japan)  
 Euro-Tunnel, (France, GB)  
 European Southern Observatory (Chile)  
 HAFA, Budapest (Hungary)  
 Hoogovens, Ijmuiden (Netherlands)  
 Hotel Glärnicher Hof, Zürich (Switzerland)  
 KPN (Netherlands)  
 Migros, Zürich (Switzerland)  
 Metro, Vienna (Austria)  
 Nederlandse Nationalbank, Amsterdam (Netherlands)  
 Opel, Szentgotthard (Hungary)  
 Opel, Antwerp (Belgium)

Opéra de Bastille, Paris (France)  
 Port of Piräus, Athens (Greece)  
 Praktiker Markets, Istanbul (Turkey)  
 Praktiker Markets, Ankara (Turkey)  
 Quiring, Esch Sur Alzette (Luxembourg)  
 Real-Markets, Izmir (Turkey)  
 Real-Markets, Bursa (Turkey)  
 Real-Markets, Ankara (Turkey)  
 Real-Markets, Istanbul (Turkey)  
 Siemens plc, Sunbury on Thames (GB)  
 Town Hall, Oslo (Norway)



## Effertz Release System

The central control unit of any Effertz fire resistant rolling door is the Effertz release system. Sophisticated electronics ensure that the fire resistant rolling doors close reliably in the event of an alarm or fault. If a smoke detector trips or the emergency hand switch is actuated, the power supply to the retaining electromagnet is interrupted at the drive and the drive brake is released. The shutter closes, regulated by a centrifugal brake in the drive, under its own weight, irrespective of any power supply. The safety contact strip allows the closing door to be stopped if a body or obstacle blocks the opening. When tripped, this safety device is controlled by the low-voltage brake on the drive and held in readiness (24 V DC battery power supply). The drive of the fire resistant rolling door has an electric alarm which sounds if the release system is tripped. Every fire resistant rolling door with general approval of the German certification body has a matching release system which is also approved in its own right. Effertz fire resistant rolling doors hold both approvals and thus satisfy all the safety requirements.

### Terms of Delivery / Terms of Installation

Terms of Delivery / Terms of Installation:  
We quote for all doors - unless otherwise expressly stated - ex works (EXW)  
Mönchengladbach (Germany).

### Packaging

The goods are packed by us for transport by truck. On request we can also quote prices for packaging in seaworthy crates or special packagings.

### Freight

The customer always states the freight carrier and also places the order directly with the freight carrier. On request, however, we can also provide a freight carrier. In such cases, we will quote for the freight rates separately.

### Installation

Unless otherwise expressly stated, our prices do not include site installation. If you wish for a supervisor to oversee the installation or a complete installation by specialist fitters, please request a separate quotation.

Effertz fire resistant rolling door shutters T30 have a sound insulation value of approx. 30 dB. As a special option, Effertz fire resistant rolling doors can be supplied with a system which allows the holding magnets to be easily engaged again after an alarm door tripping (e.g. after a test of the release system).



## Important Notes

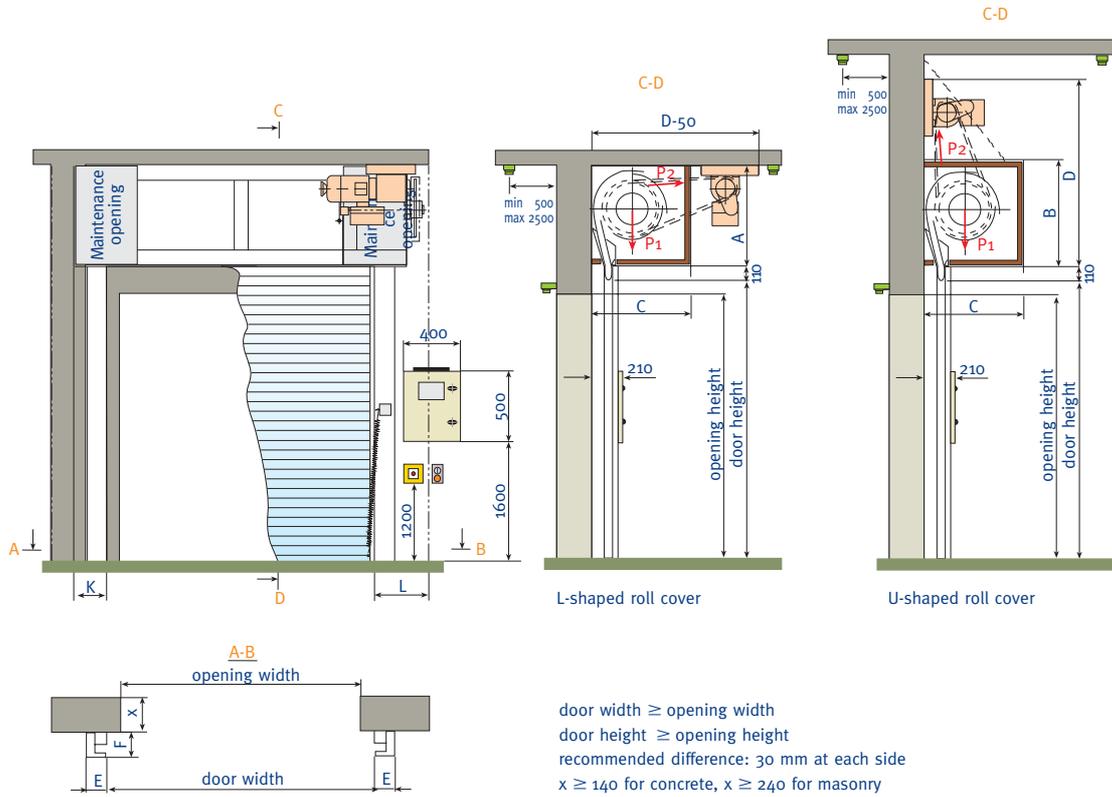
Fire resistant rolling doors are designed for a service life of around 30 years, whereby it is assumed that not more than approx. 10,000 opening and closing cycles take place during this period. Fire resistant rolling doors are not designed as service doors which are opened and closed several times a day. This is not expedient either because fire resistant rolling doors open and close very slowly, and repairs are several times more expensive than on standard rolling doors. In such cases, Effertz recommends the combination of a fire resistant rolling door which remains open constantly with a standard rolling door which is opened and closed as and when necessary.

If several fire resistant rolling doors are installed in one firewall, the customer has to decide whether the doors should close together (normal situation) and whether this common closing should be triggered by a fire alarm system or by a controller to be supplied by Effertz.

Where suspended ceilings are installed, flaps or removable ceiling elements of an adequate size must be provided for inspection, service and repair work.

Effertz fire resistant rolling door T30 Type II offers outstanding benefits:

1. The door has the general approval of the certification body in Germany for sizes up to 12 m width and 4.5 m height.
2. The function test (opening and closing 10,000 times) ensures that all the quality demands are satisfied.
3. Neither stops nor overhangs are necessary for the installation. This simplifies the installation and considerable costs for installation on site
4. Effertz fire resistant rolling doors comply with the European safety regulations (EN 12453 and 12604).
5. Effertz fire resistant rolling door shutters T30 have a sound insulation value of approx. 30 dB.
6. With the Effertz fire resistant rolling door you acquire at the same time the technical know-how of a leading company in the rolling door sector with more than 120 years' experience.



clearance width	clearance height	P1 support kN	P2 chain pull kN	lintel height A	B	C	D	E	F	K	L
1200 - 6000	1400 - 2750	4,8	8,4	$\geq 710$	750	700	1350	138	184	$\geq 200$	$\geq 300$
6001 - 7000	1400 - 2750	5,6	9,7	$\geq 710$	750	700	1350	178	184	$\geq 250$	$\geq 350$
7001 - 8000	1400 - 2750	6,4	11,0	$\geq 710$	750	700	1350	178	184	$\geq 250$	$\geq 350$
8001 - 9000	1400 - 2750	7,2	12,4	$\geq 760$	800	750	1500	178	184	$\geq 300$	$\geq 400$
9001 - 10000	1400 - 2750	8,0	13,7	$\geq 760$	800	750	1500	178	184	$\geq 300$	$\geq 400$
10001 - 11000	1400 - 2750	8,8	15,0	$\geq 760$	800	750	1500	178	184	$\geq 300$	$\geq 400$
11001 - 12000	1400 - 2750	9,8	16,5	*	*	*	*	178	*	*	*
1200 - 6000	2751 - 3500	6,3	10,8	$\geq 760$	800	750	1500	138	184	$\geq 200$	$\geq 300$
6001 - 7000	2751 - 3500	7,3	12,5	$\geq 760$	800	750	1500	178	184	$\geq 250$	$\geq 350$
7001 - 8000	2751 - 3500	8,3	14,2	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
8001 - 9000	2751 - 3500	9,3	16,0	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
9001 - 10000	2751 - 3500	10,4	17,7	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
10001 - 11000	2751 - 3500	11,4	19,4	*	*	*	*	178	*	*	*
11001 - 12000	2751 - 3500	12,4	21,1	*	*	*	*	178	*	*	*
1200 - 6000	3501 - 4500	7,8	13,4	$\geq 860$	900	850	1500	138	204	$\geq 200$	$\geq 300$
6001 - 7000	3501 - 4500	9,0	15,6	$\geq 860$	900	850	1500	178	204	$\geq 250$	$\geq 350$
7001 - 8000	3501 - 4500	10,3	17,8	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
8001 - 9000	3501 - 4500	11,5	20,0	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
9001 - 10000	3501 - 4500	12,8	22,0	$\geq 860$	900	850	1600	178	184	$\geq 300$	$\geq 400$
10001 - 11000	3501 - 4500	14,0	24,2	*	*	*	*	178	*	*	*
11001 - 12000	3501 - 4500	15,3	26,4	*	*	*	*	178	*	*	*
1200 - 6000	4501 - 5500	9,3	16,0	$\geq 910$	950	900	1550	138	204	200	$\geq 300$

\* = Tandem-drive, measurements by demand · All measurements in mm