

PROTEC
industrial doors



Fire doors - fire-resistant overhead door - Efectis (TNO) & Peutz



Options - liquid retention barrier - PGS-15 in explosion-hazard environment



Sound-insulating overhead doors - theatre



Special doors - theatre



Burglar-resistant overhead doors - military applications



Hinged doors - fire- and sound-insulating

Protec Industrial Doors

Protec Industrial Doors, a market leader in the field of industrial doors, provides a range of services that includes development, engineering, consultancy and the sale of special doors. Protec Industrial Doors recently developed a new line of fire-resistant and sound-insulating doors which are produced in-house. The quality of our products is guaranteed through compliance with the latest European standards, certified by Peutz, Efectis and Warrington, and proof of conformity demonstrated by the CE Marking. Every door in our product range meets these stringent quality requirements.

At Protec Industrial Doors we never stop innovating and redeveloping our products, so we always have new solutions to offer our clients.

Our clients, many of which are active in the construction industry and which also include architectural firms, depend on our experience and expertise to help them solve problems and know they can count on our dedication to provide them with the best service.



Production - loaded on an international scale



Production - production machinery overhead doors

Fire doors

Tested by Efectis TNO – NEN-EN 1634-1, EI,-60

In recent years, the fire door has undergone considerable development. As a result of increasingly strict fire safety requirements, fire doors are required in more situations than ever before. Requirements imposed by regulations and those that arise from practical, daily use are often at odds with one another. Therefore Protec Industrial Doors has developed a new type of fire-resistant overhead door that hardly creates any limitations during use, yet still complies with the latest standards and requirements.

We recently developed a unique fire-resistant door and had it tested at TNO/Efectis for certification in accordance with NEN-EN 1634-2:2008 and NEN-EN 13501-2. The door has also met the requirements for classification EI,-60 and is therefore suitable for both the domestic and international markets. At Warrington in Gent, the fire-resistant overhead door also underwent an endurance test in accordance with EN1191:2000 and 14600:2000 in which it was opened and closed 5500 times.

Fire-resistant overhead door without limitations

Fire-resistant overhead doors function in the same way as standard overhead doors, both when used in fire-retarding walls and in outer walls. As a result, you are not limited in your operational process, and you will comply with all applicable requirements.



Fire-resistant overhead door - beginning of the test



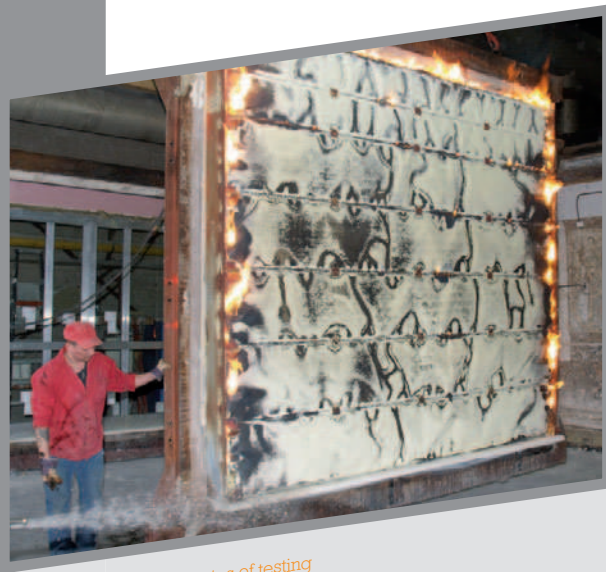
Fire-resistant overhead door - during the test

Explosion safety, liquid-retention barrier and ATEX 137

Our fire-resistant overhead door has the necessary certification to make it perfectly suited for ATEX 137 areas. Additional requirements, such as a liquid-retention barrier or explosion safety, are also possible in combination with our overhead doors. The explosion safety doors, with their EI₁-60 classification, can even be used in those areas where the highest demands are placed on explosion safety. Our fire-resistant overhead doors also meet the EI₁ requirement – the most demanding thermal insulation standard.

Most important features of the fire-resistant overhead door:

- The revolutionary structure and production process allow us to sell this fire-resistant overhead door for a very attractive price
- Tested according to the latest European standards (EN 1634-1)
- Can be used in explosion-proof areas (ATEX 137)
- Integrated liquid-retention barrier possible up to a height of 1000 mm
- Can be used as a normal door, with virtually no hindrance
- Suitable for use in outer walls
- Certified for use even with large dimensions, up to 10,000 x 8,000 (WxH)
- Can also be used to meet sound-insulating requirements



Inside door - after 95 minutes of testing



Inside door - after cooling with water

Sound-insulating overhead doors

Protec Industrial Doors has developed a range of sound-insulating doors, recently tested at Peutz acoustic laboratory, that meet even the strictest requirements for sound insulation and protection of people and the environment.

The sound-insulating doors are available in 4 models:

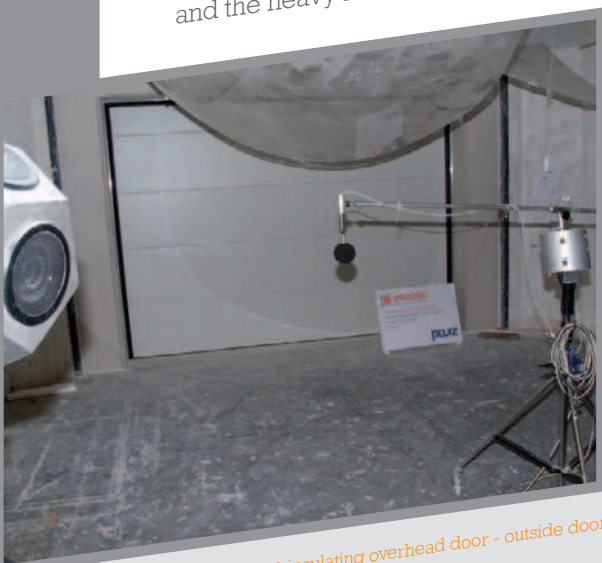
- 32 dB certified by Peutz in accordance with ISO 140-3:1995
- 35 dB certified by Peutz in accordance with ISO 140-3:1995
- 38 dB certified by Peutz in accordance with ISO 140-3:1995
- 45 dB certified by Peutz in accordance with ISO 140-3:1995

Special models certified up to 56 dB are possible as well

Protec Industrial Doors has tested the sound-insulating overhead doors as a complete door structure and not just the panels. As a result, you have the assurance that the door will also provide the specified sound insulation in its practical application. At the same time, these sound-insulating doors have no limitations with regard to use or area of application. The sound-insulating doors can also be used in outer walls.

In addition to this range of certified sound-insulating overhead doors, our engineers can also provide specially modified versions to meet the desired/required sound levels (dB) at various frequencies in consultation with acoustic laboratory Peutz.

Areas of application include: theatres, cultural centres, music halls, enclosures and the heavy industries.



Sound-insulating overhead door - outside door



Sound-insulating overhead door - inside door

Certified combination sound & fire

Protec Industrial Doors has succeeded in developing a fire-resistant overhead door with sound-insulating properties and having it certified as a complete door construction that meets both requirements. With this unique certified combination, the application of double door constructions is no longer necessary. This results in enormous benefits, such as reduced space requirements, more convenient daily use and lower costs for purchase and maintenance. These models have been tested and certified by Efectis/TNO and Peutz laboratories.

Hangar doors

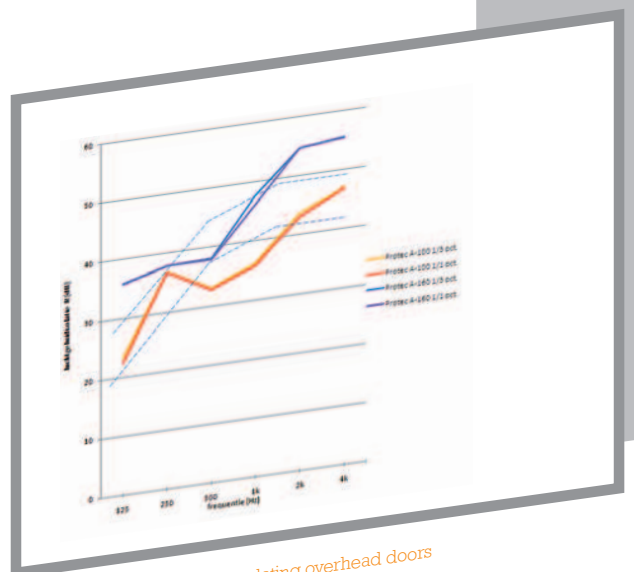
The Protec hangar door is the insulated hangar overhead door for very large sizes. Depending on application, frequency of use, wind load and the total dimensions of the opening, various hangar door designs are available.

Benefits in comparison with alternative solutions, such as large sliding doors or other special doors for large openings:

- No operating restrictions during high wind loads
- No guides necessary in the floor
- High insulation values
- Low maintenance costs
- Low replacement costs in the event of damage, due to the modular structure
- Can be divided into separately moving hangar doors



Sound-insulating door - water purification plant



Measuring results - sound-insulating overhead doors

Burglar-resistant overhead doors

Protec Industrial Doors has various burglar-resistant overhead doors in its product range.

- Protec B1 through B6 – suitable up to resistance class 6

The burglar-resistant doors can be produced and delivered in accordance with European standard EN 1627 (NEN 5096). Because we have our own engineering department, an advanced production process and extensive know-how, we are able to develop and produce client-specific doors. Furthermore, we can deliver burglar-resistant overhead doors that exceed the requirements of the EN1627 standard. Such requirements are generally specified for military applications and for the storage of extremely valuable goods, where doors that provide protection exceeding resistance class 6 are needed.

Hinged doors

The hinged doors are an add-on feature for our various overhead doors. Through the combination of both doors, we can provide you with a comprehensive package for fire-resistant, sound-insulating and burglar-resistant doors. We can provide you with the following certified hinged doors:

- Fire-resistant doors
- Sound-insulating doors
- Burglar-resistant doors
- A combination of the above-mentioned doors



Fire-resistant doors - commercial units



Burglar-proof - military applications

Special doors

Protec Industrial Doors has many options to turn your specific wishes into a wide variety of special doors. Our engineering department can convert new designs and ideas into aesthetically pleasing, functional and specific doors. Our extensive expertise, know-how and unrivalled production facilities make it possible to manufacture the special (overhead) doors completely according to your wishes. Examples include insulated door structures with outer wall and/or other plating that can also be flush with an outer wall. In this way you can create a smooth outer wall appearance. Instead of the materials usually applied, it is also possible to supply complete glass doors, doors with concrete plating or doors with grilles or other kinds of materials for example. We supervise and carry out the entire process in consultation with you and handle everything, so you have nothing to worry about. These types of special doors and overhead doors are mainly used in situations where standard solutions are inadequate to provide the required functionality or where there are special architectural requirements.



Special door - same material as and flush with the outer wall



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