

## Protection System AS-D

*The safe protection  
against falling door systems  
and guards*

**BUTZBACH**  
MADE IN GERMANY

## Protection System AS-D

Approved Safety

- Universally Applied



### Field-proven Safety Technology

The question of safety is a criterion that cannot be ignored whatever the type of door. According to the European Standards for doors (Directive for building products), all manually and power-operated doors that have a vertical movement must be fitted with an approved anti-falling device.

The Butzbach Protection System provides an ideal safety system for many types of doors.

Simple installation allows trouble-free fitting to:

- Stacking doors
- Hinged doors
- Counter-balanced doors
- Sectional doors
- Roller doors
- Roller shutter doors
- Noise protection doors
- Powered windows
- Machinery guards



They can be fitted to both new door installations or retro-fitted to existing doors.



## Decisive Advantages

- The integrated self-monitoring feature guarantees that the system is always in working order.
- Falling door panels or guards are always arrested and held by the Butzbach Protection System whatever the cause is (e.g. broken chain, drive failure, material fatigue).
- The forces generated during sudden braking are taken by the fall arrester and are minimised by the integral shock absorber (only valid for types 200-D and 400-D). The remaining forces are directed to the foundation via the tracks so that the supporting construction is not under load.
- A built-in lock prevents the pendulum stop from disengaging unintentionally after it has been activated.
- After a fall, the repaired door panel can be raised normally. After it has been checked, the Protection System is ready for operation again.
- The Protection System can be installed easily and requires little maintenance.



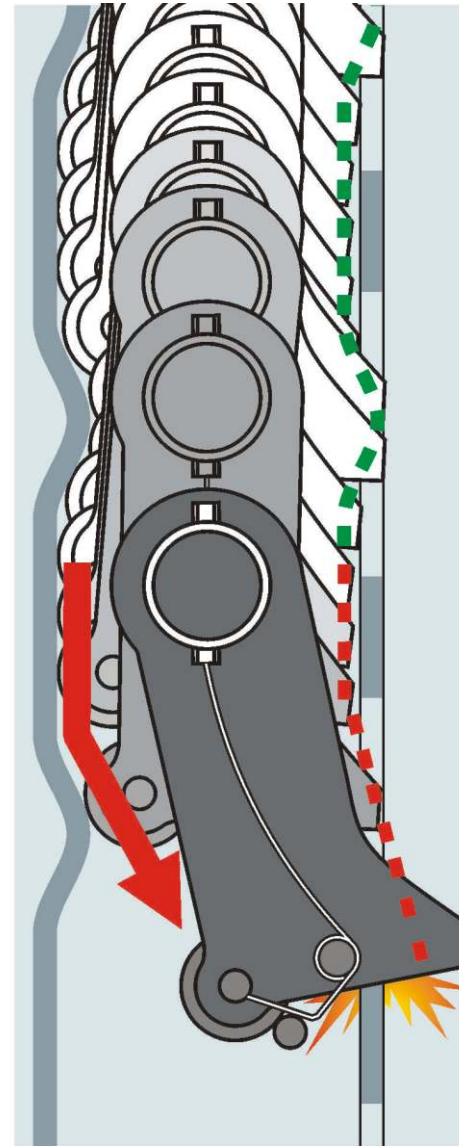
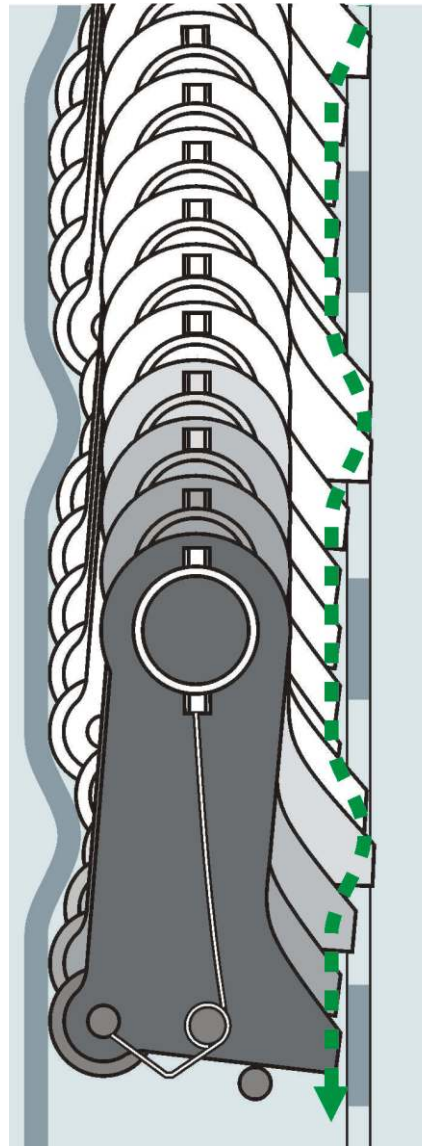
The Butzbach Protection Systems are approved by TÜV, according to the current regulations and meet the requirements.



## Normal Operation

The pendulum stop in the fall arrester swings evenly, following a wave motion, in the correspondingly shaped guide channel.

This guides the pendulum stop in and out of the slots in the safety rails.



## Sequence When a Door Falls

If the regular speed of descent is exceeded, the arc of the pendulum stop increases so much that it is arrested by the next slot in the safety rail.

The falling door is caught within a split second. The momentum is absorbed by the shock absorber system\*.

At the same time, the drive unit is switched off by the limit switch in the safety rails.

\* only valid for types 200-D and 400-D

## Easy Installation

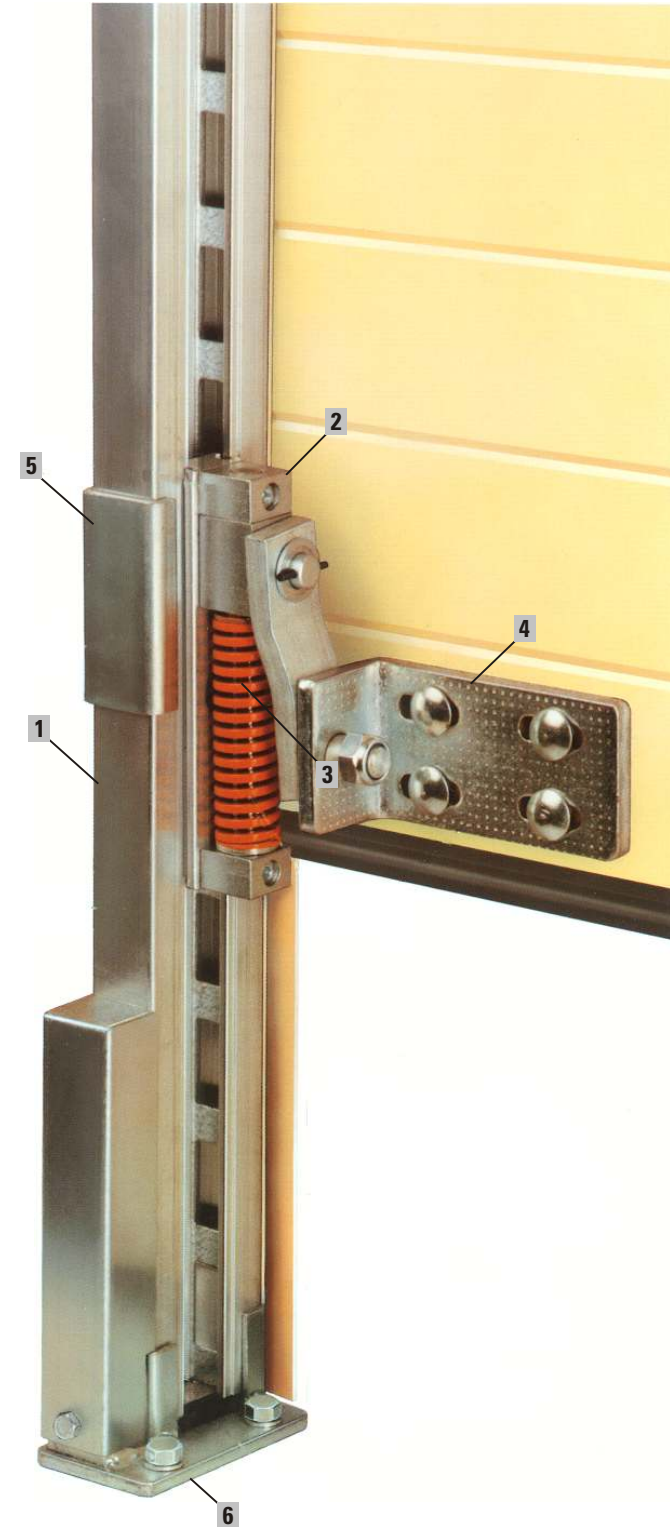
Butzbach Protection Systems are self-supporting and can be installed easily on all types of doors without any need for alterations to the door construction or the static of the building. Their compact, straightforward design facilitates rapid functional testing. The integrated switch-off mechanism has no need of spiral cable.

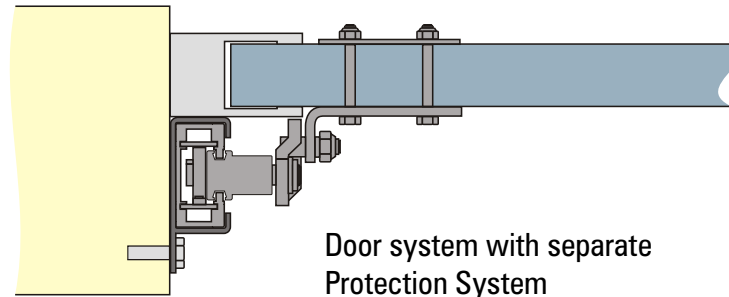
The Protection System can be retro-fitted to existing doors without any difficulties. Furthermore, it is possible to use the safety rail and the guide channel as guide rail.

The Protection System is delivered ready for installation and comprises one pair of aluminium safety rails with switch-off mechanism, one pair of fall arresters as well as mounting fittings, if required.

Conventional doors require no switch-off mechanism.

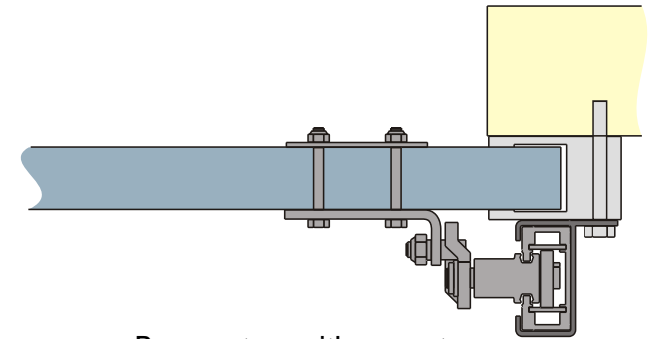
- 1 Safety rail including guide channel and support rail
- 2 Fall arrester with pendulum stop
- 3 Shock absorber
- 4 Mounting bracket with counter-plate (also used as drilling template)
- 5 Mounting fitting
- 6 Switch-off mechanism





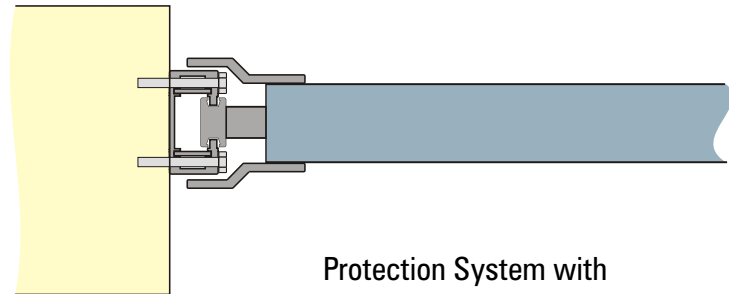
Door system with separate Protection System

Attachment between the wall with fixing plates



Door system with separate Protection System

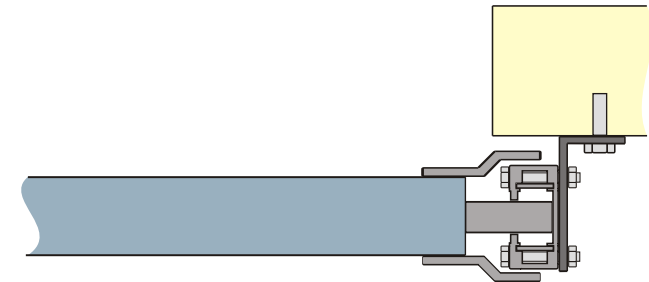
Attachment behind the wall with fixing brackets



Protection System with integrated panel guide

Partial view with fall arrester

Direct attachment between the wall



Protection System with integrated panel guide

Partial view with slide block

Attachment behind the wall at any sub-construction

## Safety for Each Door Type

The Butzbach Protection System is available in various models to suit the weight of the door: AS 200-D, AS 400-D, AS 800, AS 1000 and AS 2000.

The model numbers relate to the permitted total weight of the door panel or the guard in kg.

Protection Systems for doors with a low opening height are available upon request.

Type	AS 200-D	AS 400-D	AS 800	AS 1000	AS 2000
TÜV Certificate No.	Tor FV 8/136	Tor FV 8/136	Tor FV 8/137	Tor FV 4/027	Tor FV 6/093
Max. operating speed	0.5 m/s	0.5 m/s	0.5 m/s	0.5 m/s	0.5 m/s
Permitted panel weight per pair	204 kg	428 kg	818 kg	1000 kg	2000 kg
Arresting strength per fall arrested	5 800 N	12 180 N	43 964 N	40 850 N	73 000 N
Safety rails (dimensions)	31 x 67 mm	31 x 67 mm	104 x 46 mm	52 x 124 mm	52 x 124 mm

Safety rail surface finish: Aluminium mill finished or anodised  
Integrated switch-off mechanism on both sides or as required.  
Mounting fittings included in the delivery contents.

Subject to technical alterations!

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