


**EXCEPTIONAL
HYGIENE**

***Sectional
Doors***







Sectional doors are applicable in areas such as factories, warehouses, logistics centers and show rooms. 45 mm thick panels filled with foam insulation are designed to avoid thermal and provide strong wind resistance.

Sectional doors are available for dimensions up to 12 meters in height and 8 meters in width.

All security requirements have been taken into consideration in the design phase of sectional doors with supreme security features. For enhanced visibility and natural lighting, windows are offered as an option.

Sectional doors also offer integrated personnel doors as an option.

Door Panels

- Door panels are designed with finger trap protection.
- Sectional door panel with foam insulation between two steel sheets.
- 45 mm insulation thickness and insulation coefficient $K = 0.4 \text{ W / m}^2 \text{ }^\circ\text{C}$ (CFC Free).
- High efficiency of thermal insulation is achieved due to thermal breaks between inner and outer surfaces of the panel.
- Panel height is 625 mm.
- Steel /aluminum reinforcements embedded into the panel increase wind load and impact resistance.
- Sound insulation is 24 dB.
- Resistance to water penetration: Class 2 (may vary depending on the presence of personnel doors)
- Air permeability: Class 2 (may vary depending on the presence of personnel doors)
- Class 4 wind load resistance for doors up to 3.500 x 3.000 mm.
- Class 2 wind load resistance for doors up to 12.000 x 8.000 mm.

Safety equipment

- Safety brake system: It prevents panels from falling down by activating a steel rope catching them.
- Pneumatic safety system: It stops the door closing if there is an obstacle in the operation path, preventing risk of injury and property damage.
- All systems are manufactured and tested in accordance with the European norm EN 1-13241.

Equipment

- Hinges are made of stainless steel, all other hardware parts are made of galvanized steel.
- Plastic wheels with reinforced sealed bearings are used.
- Galvanized torsion springs produced for standard 20.000 opening-closing cycles
- Torsion spring mechanism balances the weight of the door, allowing the door to be opened and closed easily by hand in case of power failure.

Differences from compe tors



Anti-corrosive motor



Stainless steel accessories



Galvanized steel safety brake



Stainless steel hinges

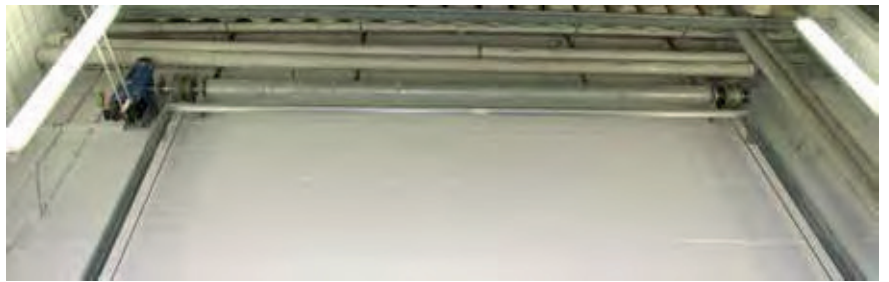
Tube-shaft system

Torsion springs, which are crucial to sectional doors are optimal up to a certain door weight. The dimension issue has been solved with a system called "Tube shaft".

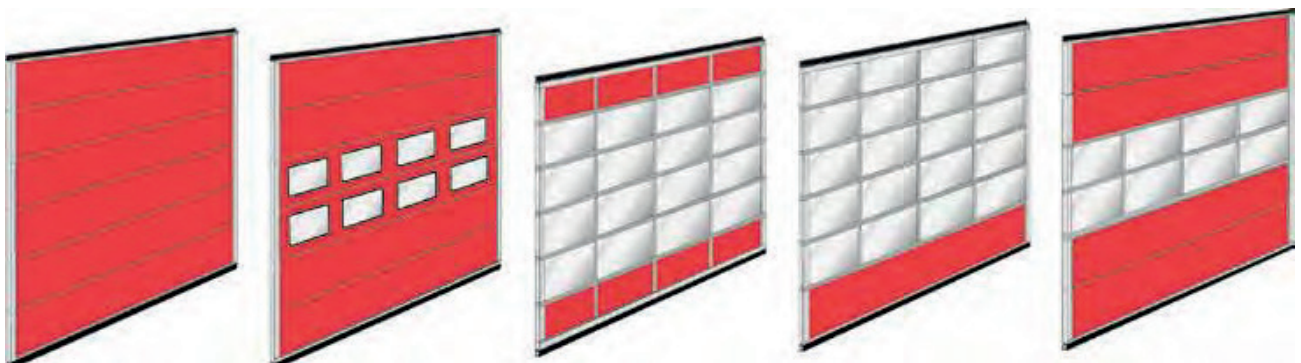
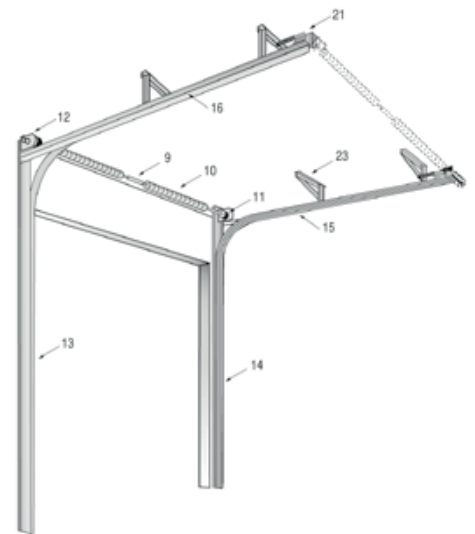
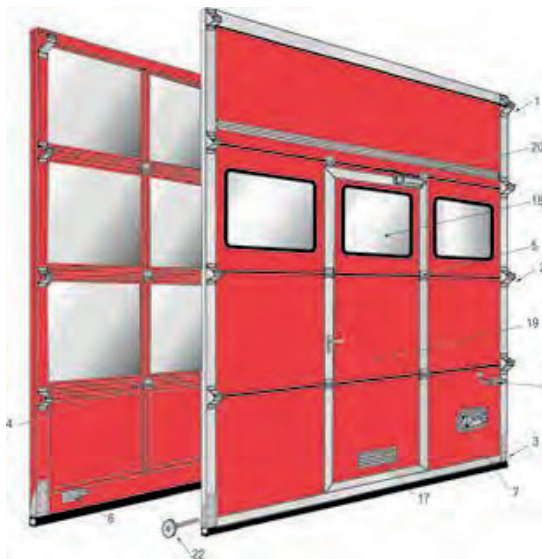
It is a solution used when it is no longer practical to balance large doors with a spring.

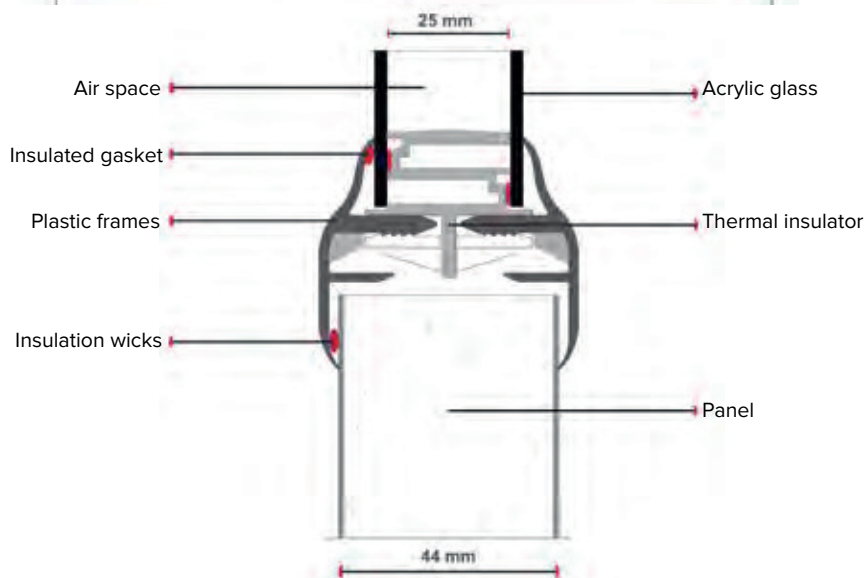
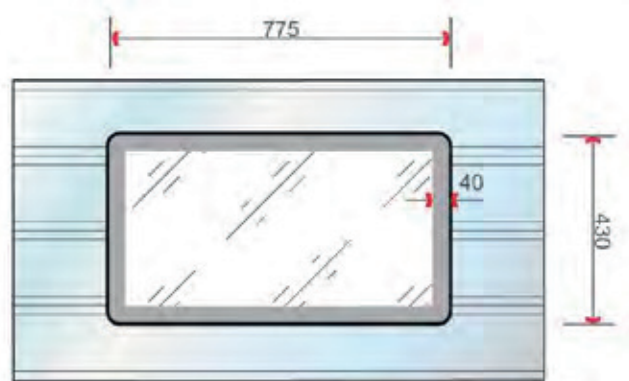
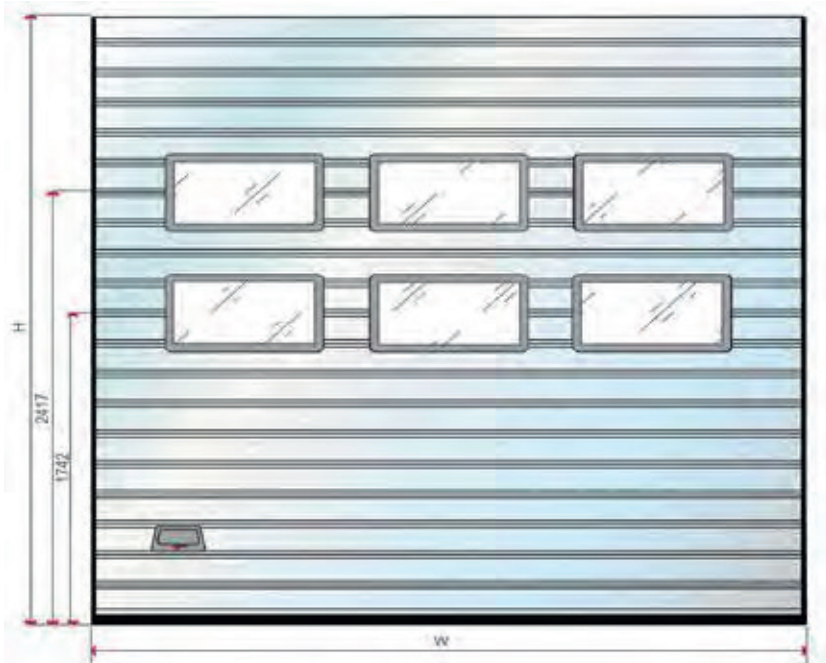
Tube shaft systems have anti-corrosive properties and a longer life cycle than torsion springs.

Due to their anti-corrosive properties, they require less maintenance than traditional springs, making them more cost effective for the end-user.



1. Top hinges
2. Side hinges
3. Rope holder
4. Middle hinge
5. Man door hinge
6. Foot press
7. Opening handle
8. Lock
9. Connection coupling
10. Torsion spring
11. Drum support
12. Bearing
13. Wall guide
14. Wheel guide
15. Guide support
16. Wheel guide
17. Ventilation
18. Window
19. Man door
20. Door closer
21. Pusher spring
22. Wheel
23. Ceiling connection profile

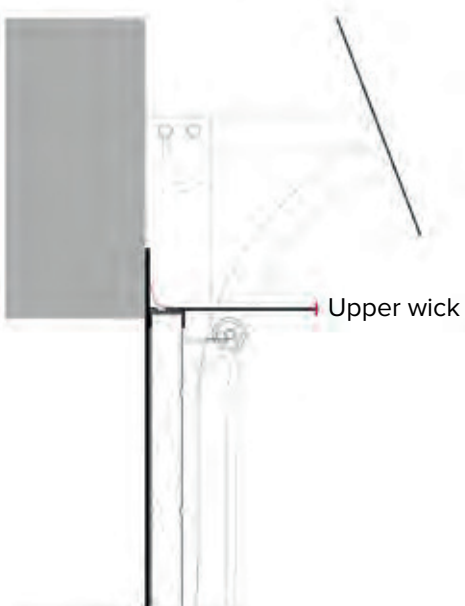
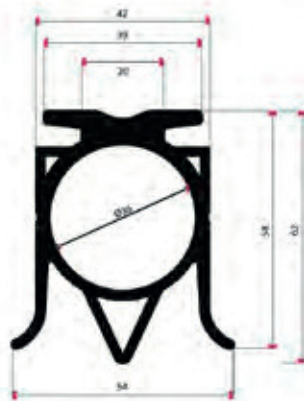




Window quantity	Applicable door dimensions(mm)
1	1.500 - 1.999
2	2.000 - 2.999
3	3.000 - 3.999
4	4.000 - 4.999
5	5.000 - 5.999
6	6.000 - 6.999
7	7.000 - 7.999
8	8.000 - 8.999
9	9.000 - 10.000



Upper and Bottom wicks



Narrow upper wick



Wide upper wick



Pedestrian side doors

Pedestrian doors are available for easy access into buildings with sectional doors.

They can be integrated into the sectional door leaf as well as on the side of the door.

In door-side personnel door applications, an identical panel to the sectional door is used and the upper area is covered with the same panel to ensure the integrity of the facade.





Double shaft system

In cases when it is not possible to fit balancing springs into the door width, a double shaft system is used as an alternative solution.

Shafts are connected to each other by a chain transmission, thus, making it possible to balance heavy doors with the appropriate number of springs.





Hydraulic Sectional Doors

Hydraulic opening system

Telescopic adjustable hydraulic opening systems for sectional overhead doors facilitate easy and safe installation.

The hydraulic opening system encases a power unit, a hydraulic motor and a cylinder in a single casing for doors with an opening width between 2.100-5.000 mm and an opening height of up to 5.000 mm.

The hydraulic opening system grants an unrivaled lifetime and total opening cycles; proven by thousands of installations. While saving considerable cost and effort on periodical maintenance of springs and showcasing a clean aesthetic, it also provides an ideal solution for the food industry due to the absence of polluting components. Together with the optional interlock (the leveler operates only when door is totally open) it avoids collisions between the bottom panel and operators resulting from insufficient door opening that may occur with unloaded springs.


Above all, the hydraulic opening system eliminates many installation problems and allows the installation of panels with varying weights (such as personnel door panels and full-vision panels) without balancing problems.




The convenience of the system is especially evident when combined with dock levelers (top image).



Routine inspection is reduced to a simple oil level check inside the wall-mounted console 1,5 m above the ground.

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