

TSA

TELESCOPIC
AUTOMATIC
DOORS



TSA·TOS·RID

TELESCOPIC
ANTIPANIC
ESCAPE ROUTE

MONOLATERAL

THE LARGEST PASSAGE IN A LIMITED SPACE

MONOLATERAL automatic sliding doors are the ideal solution for small room entrances where traditional automatic sliding doors can't slide over a fixed wall. They are particularly suitable in situations such as internal doors or main entrances. This kind of doors can be manufactured in different types: 2 leaves sliding on a wall or 3 leaves of which 2 mobiles and gathering on the fixed one: in this way the opening space is cleared for 2/3 of the total width, creating a suitable entrance for disabled people and demolishing the architectural barriers. The doorwings are realized with PONZI series aluminium profiles and available in 20, 30 or 50 mm sections with rounded edges to prevent possible accident or injures to people; all of them are provided with a sealing gasket in special Dutral material for tightness. Aluminium profile can be finished in RAL painting or anodized colour. Only for small section profiles 20/30 mm is available a cladding over the aluminium frame with stainless steel, bronze, brass and corten. Automatic drive operators are manufactured with the latest technology, complying with the European standard EN 16005, with dual-track drive, variable speed with a very silent operation due to a silent rail profile. The standard capacity load of the automation is 75 kg each wing for 2 leaves door, clear opening passage from mm 800 to mm 2000.

TSA MONOLATERAL PONZI SLIM PROFILES SECTION MM 20/30, 2 MOBILE WINGS



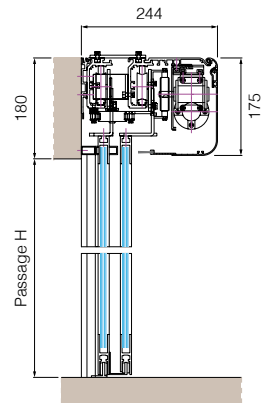
TSA MONOLATERAL closed wings



TSA MONOLATERAL moving position



TSA MONOLATERAL opening wings



VERTICAL SECTION

TSA MONOLATERAL PONZI ROUND PROFILES SECTION MM 50, 2 MOBILE + ONE FIXED WING



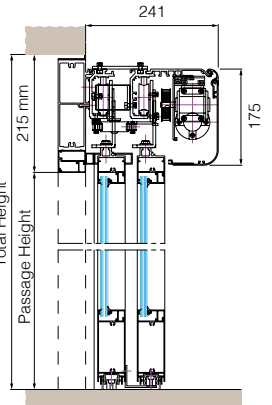
TSA 2+1 sliding wings closed



TSA 2+1 sliding wings moving position

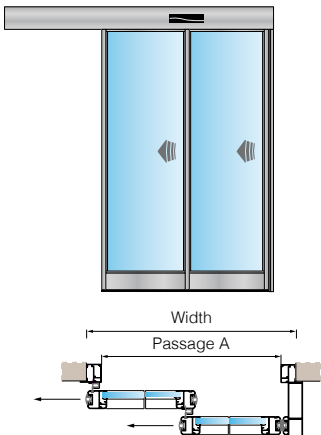


TSA 2+1 opening wings behind fixed wing

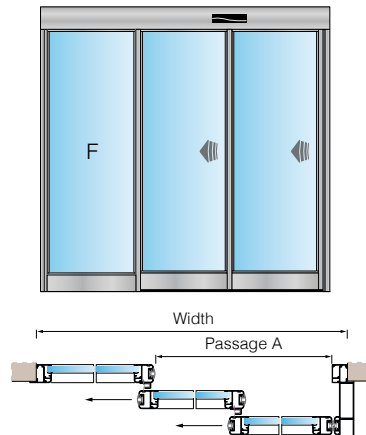


VERTICAL SECTION

MONOLATERAL 2 WINGS



MONOLATERAL 2 + 1 WINGS



PONZI PROFILES

PONZI frame profiles are made of aluminium alloy in various sections: slim 20 mm for tough glass max. 10 mm thickness, reduced 30 mm for insulating glass max. 20 mm thickness, and rounded 50 mm with hollow up to mm 36 of glass. Accident preventing 50 mm series is suitable for high traffic flows, resistant to impact with charts and trolleys. All PONZI profile wings are completed of insulation gaskets for good air-tightness.



Profiles 20 mm



Profiles 30 mm



Profiles 50 mm

BILATERAL

THE LARGEST OPENING PASSAGE AVAILABLE

BILATERAL telescopic automatic doors solve the problem of large clear opening passage. They are the ideal solution for hotels, offices, hospitals, shopping centers, airports, car showrooms, shops, etc. There are available with 4 or 6 door leaves and suitable for the transit of carriages, furniture, motor vehicles for exhibition, etc. With the quick movement, they are also recommended for high traffic flows. They are made with special extruded profiles in aluminium alloy, with 50 mm rounded PONZI series or 20/30 mm slim and reduced sections, with special finishing in RAL painting or anodized treatment. A special designed sealing system completes the finishing and ensures a perfect thermal acoustic sealing of the door. Automatic drives are manufactured according to European Safety Standards EN 16005. The high quality of products is guaranteed by ISO 9001 certification on the entire production cycle. The automatism is suitable for a clear passage from mm 1200 to a max opening of mm 3000. Automation has a load capacity up to 60 kg each wing in the standard version, up to 85 kg each wing in the MAX version. PONZI telescopic doors are produced in accordance with the highest standards to meet even the heaviest operating conditions and are very pleasant due to their smooth movement and very silent operator drive.

TSA BILATERAL PONZI PROFILES SECTION MM 20/30

TSA BILATERAL PONZI PROFILES SECTION MM 50



TSA TELESCOPIC BILATERAL 4 WINGS (closing position)



TSA TELESCOPIC BILATERAL 6 WINGS (closing position)

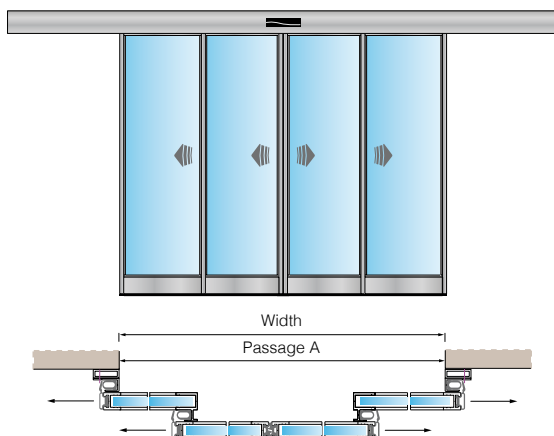


TSA TELESCOPIC BILATERAL (4 mobile wings opening on wall)



TSA TELESCOPIC BILATERAL (4 mobile wings opening over 2 fixed wings)

TSA BILATERAL 4 MOBILE WINGS



TSA BILATERAL 6 WINGS (4 MOBILE + 2 FIXED)



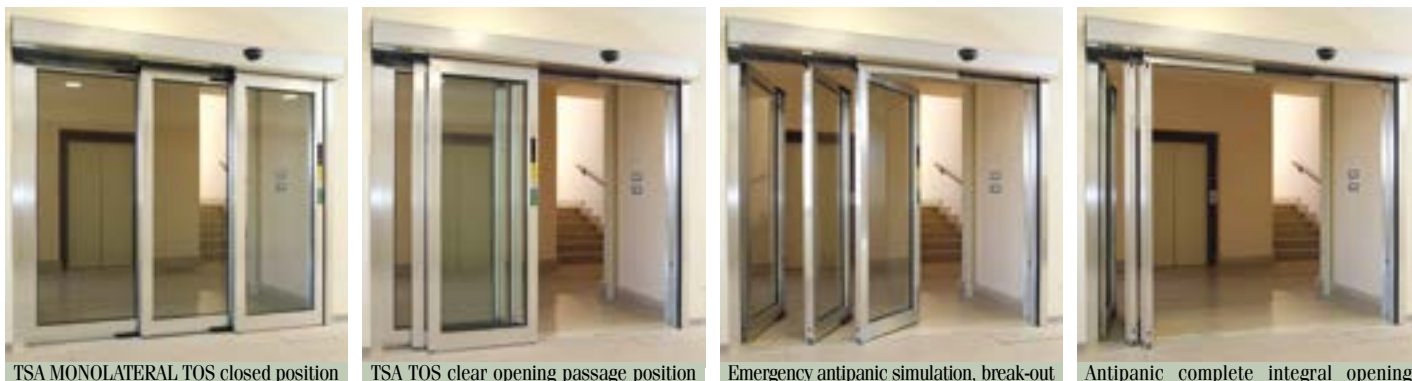
— | SUITABLE FOR FAST PASSAGE AND SUSTAINABLE INPUTS | —

TSA TOS

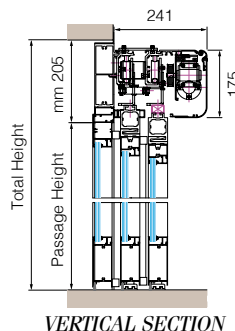
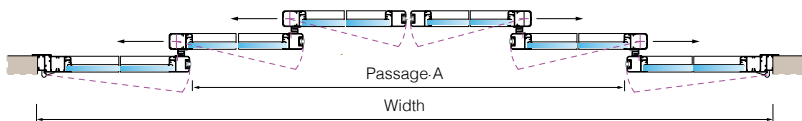
THE INNOVATIVE CERTIFIED ANTIPANIC DISPOSAL

TSA TOS door is suitable for entrances where the Emergency Exit or Way Out is required. TOS Antipanic telescopic door is the best solution also for entrances where it is required a large clear opening space. The use of TOS (Total Opening System) disposal inserted into rounded 50 mm accident prevention PONZI profiles is the ideal combination of elegance, functionality, security and safety for every entrance or context. The TOS system turns entrances into escape routes and emergency exit thanks to a simple manual pressure on any point of the door wing, much more easily than with a standard antipanic handle. When pushed, the wing doors open and swing outwards. This innovative device also allows a greater use of automatic telescopic doors in case of large passage and in the presence of high flows of people. The restart of the sliding operation of the door takes place with the repositioning of the door wings, with a simple manual pressure, quickly and safely. The automation is easy to use and lends itself to meet the specific needs of the building where it is placed. Several options as impulse sensors are available upon market request; volumetric radars, active and passive infrared sensors, elbow buttons, external control panel, badge readers, key pads etc.

TSA TOS MONOLATERAL TELESCOPIC DOOR WITH TOS BREAK-OUT DISPOSAL IN DIFFERENT POSITIONS OF OPERATION



TSA TOS MONOLATERAL and TSA TOS BILATERAL versions allow the creation of customized solutions, suitable for the passage of bulky machinery, cars, furniture, etc., in compliance with the current regulations about to escape way out route in demand of break-out T.O.S. (Total Opening System) disposal.

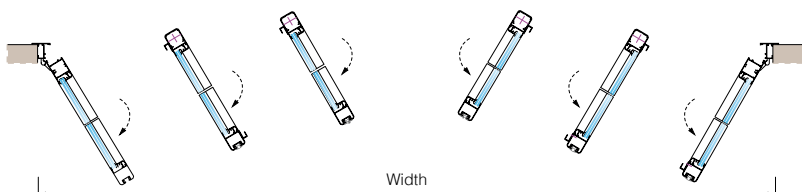


TSA TOS MONOLATERAL Break-out, antipanic simulation

TSA TOS BILATERAL SIX WINGS (4 mobile + 2 semifixed)



TSA TOS BILATERAL (4 mobile wings + 2 semifixed) for emergency way out



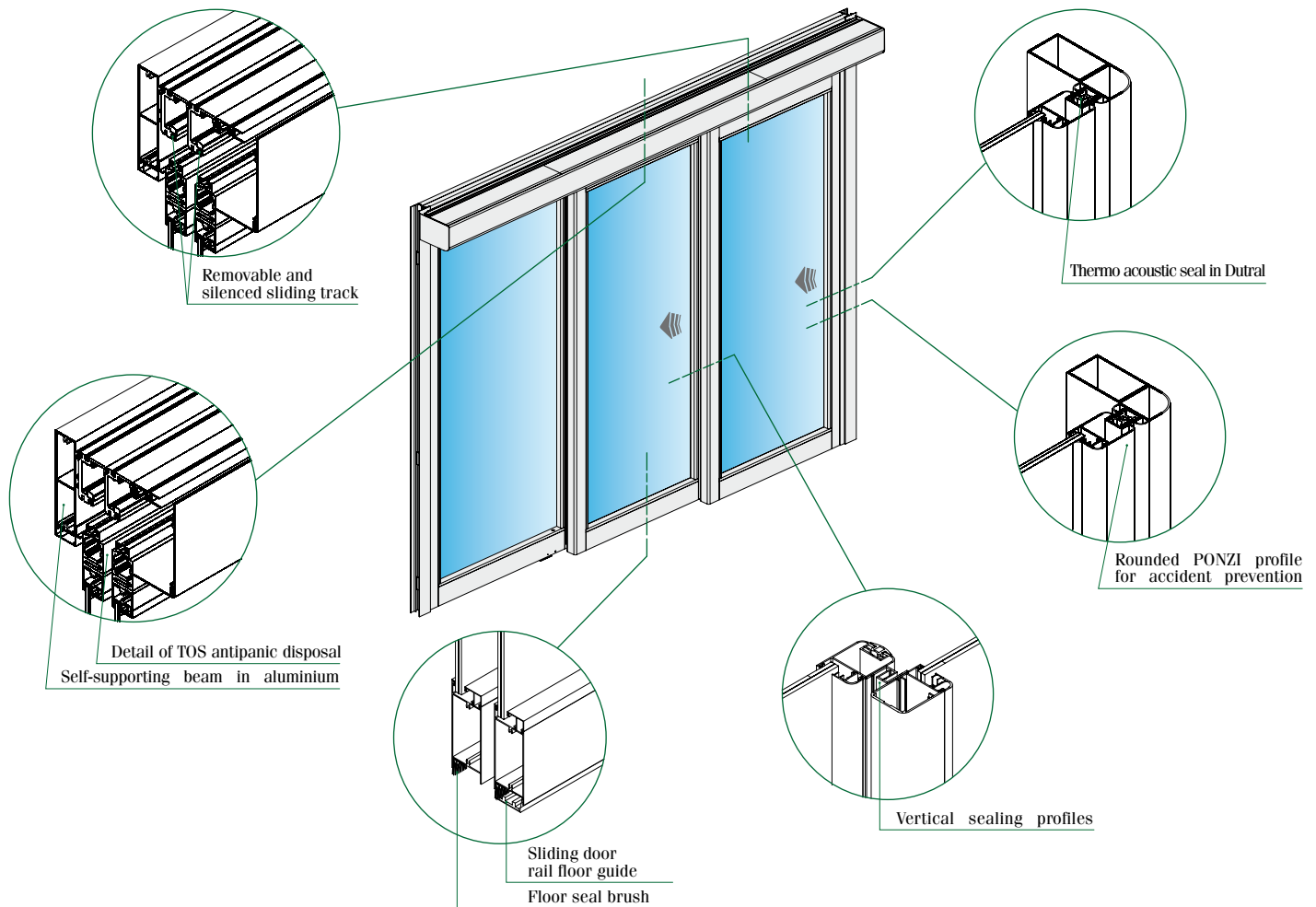
PONZI TSA TOS Total Opening System are manufactured and installed following the latest automatic doors standards, also in conformity to procedure of total quality ISO 9001 and relative certificate in our possession. The disposal system TOS (Total Opening System) developed by PONZI is a complete antipanic and an integral doorwings break-out. This product can be also customized for specific market and target requests. The innovative specific round-edge aluminium profiles PONZI 50 mm are built for inserting the device and heavy to resist to a massive traffic of trolleys, charts, luggages in different contexts such as: shopping centers, hospital, hotels, airports, etc. PONZI doors comply to European standard related to Machinery Directory EN 16005.

TSA TOS TEST REPORT U.S.



PONZI TSA TOS

DRAWING WITH TECHNICAL DETAILS



TENDER DESCRIPTION SPECIFICATIONS

PONZI TSA TELESCOPIC AUTOMATIC SLIDING DOOR (TOS antipanic) MONOLATERAL or BILATERAL, made of 3 or 6 door wings: the lateral ones are semi-fixed and the central ones run parallel and simultaneously on the semi-fixed lateral ones. The doorwings are with aluminium round-edge accident prevention PONZI series profiles of 50 mm, with surface finishing with RAL painting or anodic treatment (colour choice from PONZI range) - safety laminated glass consisting of two 4 mm clear transparent float with 0.76 mm PVB film. Automation for 2 or 4 sliding wings doors in continuous operation with management through board and microprocessor, self-learning of characteristic parameters, real-time motion control, supervision of the automation features, failures and malfunctions diagnosis, electrical and electronic overload protection and short circuit. A low voltage reduction unit, double cogged belt transmission. Large diameter sliding runners with three nylon wheels. A wide range for height and depth adjustment of the door wings. Double supporting guide with sliding rails in very hard aluminium silenced with sound proof seal. Easy possibility to adjust the doorwings in height and depth. Double silent rails in aluminium and special gasket to avoid noise and vibrations of the trolleys movements.

The automation consist of:

- N°1 Low voltage gearmotor
- N°1 Stabilized power supply
- N°1 Micropocessor control board with self-diagnosis and continuous verification of all the functions of the door
- N°1 Aluminium track replaceable with noise-reduced gasket
- N°2 Trolleys each wing, with n°2 bearings and a central balance wheel
- N°1 Adapter profile for leaf suspension
- N°1 Multifunctional rescue battery pack with 30 minutes of continuous duty, or 100 opening cycles
- N°1 Bistable electric lock controlled by the easily accessible switch and emergency release
- N°1 Inspectionable box in aluminium (h = mm 155)
- N°1 Function selector KS with 5 position
- N°2 Combined dual technology sensors

TOTAL BREAKING ANTIPANIC TOS DISPOSAL: in case of emergency the door wings - in normal operation - will open swinging towards the direction of escape with a simple touch on any point of the wings, even in sliding motion. During the breaking, the automatic function is off till the reestablishment of the operating function. This opening system allows therefore the antipanic device function and the security exit function and has been tested to comply with the latest regulations regarding pedestrian automatic doors installed on escape routes (Pr. En 16005).

PONZI TSA RID

ANTIPANIC DEVICE FOR REDUNDANT TECHNOLOGY

In order to enable escape access, PONZI TSA Automatic Doors, can also use redundant technology, entrusting safety to automation, so that door openings in case of emergency are secured. In case of danger, smoke or fire, doors open up, allowing people to escape, thanks to this specific kind of technology. RID system is used when TOS system may create danger and risk of hurt to people who transit in proximity areas, during the operation of break-out. The mechanism is available for clear opening passage from mm 800 up to mm 2000 (Bilateral), from mm 800 up to mm 1200 (Monolateral); the maximum load capacity of each mobile leaf is kg 60. The redundant system use a dual technology with the presence of an additional set of components needed to control and check the safety and emergency opening in case of danger, smoke or fire, as required by the current European Standard EN 16005. It is easily combined with of thermal break profile series as by PONZI experience. The automation unit dimension, with the RID device, remain the same of the standard operator PONZI, only some components change internally but with no effect on sizes and aesthetic appearance of the inspectionable box.



Redundant mechanism system whose security is guaranteed by the simultaneous opening of the doors. The automatic door is unlocked

EXTERNAL COMPONENTS FOR AUTOMATION RID

The electronic selector enables the activation of various functions: automatic, permanent and unidirectional opening, only one way exit. The press of emergency button guarantees the antipanic opening of the escape route. The combined sensors perform the function of the opening and detecting presence, (EN 16005). The internal sensor is monitored and mandatory.



TSA RID - 4 wings PONZI frame profile section mm 50 with laminated panel



TSA RID - Activating panic system trough push emergency button



Electronic operator ES selector



Emergency push button



Impulse monitored safety sensor



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PONZI²