



TOS TT

**thermal break
sliding
door**

**automatic
doors
with patented
anti-panic
device**

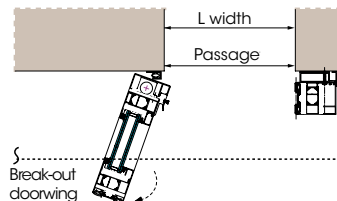
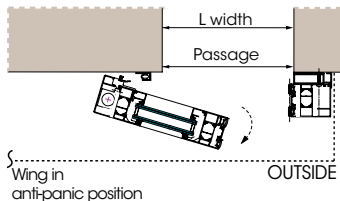
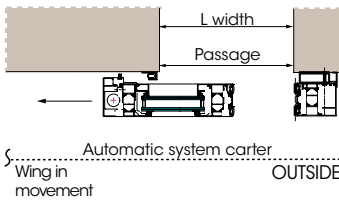
TOS T.T. 1

ANTI-PANIC SLIDING LEAF



PONZI TOS TT 1R,

is the automatic linear sliding anti-panic door with a single mobile leaf, with the anti-panic device integrated in the vertical mullion of the leaf, with thermal break profiles and sealing gasket system. The system is suitable for use in public environments where the access door or internal compartmentation is classified as an anti-panic emergency exit, according to current regulations. The TOS (Total Opening System) device allows the movable leaf to be opened swing by simple manual pressure exerted at any point of the door, even if in motion, completely freeing the passageway and thus allowing an easy way escape in emergency situations.



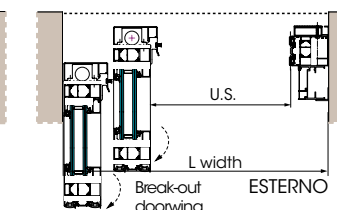
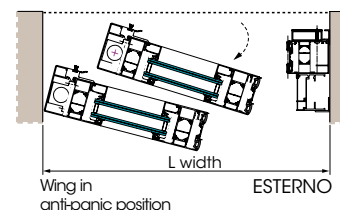
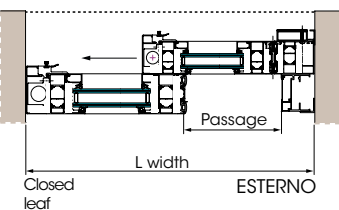
TOS T.T. 1+1

ANTI-PANIC SOLUTION FOR SMALL SPACES



PONZI TOS TT 1+1,

realized with two leaves, of which the movable sliding leaf overlaps the lateral semi-fixed one. The advantage of this solution compared to the TOS TT 1 version is the positioning of the automatism inside the building compartment. The leaves, made with thermal break profiles and safety insulating glass, can be broken out by simple manual pressure, in whatever running position they are in, they swing outwards, thus completely freeing the door compartment. The anti-panic device is inserted in the vertical mullions. In this way the system is able to satisfy the increasingly pressing requests for thermal performance, being in compliance with the energy decrees in force regarding external perimeter fixtures, and at the same time fulfilling the rules and decrees relating to the functionality and use of automatic doors installed on escape routes.



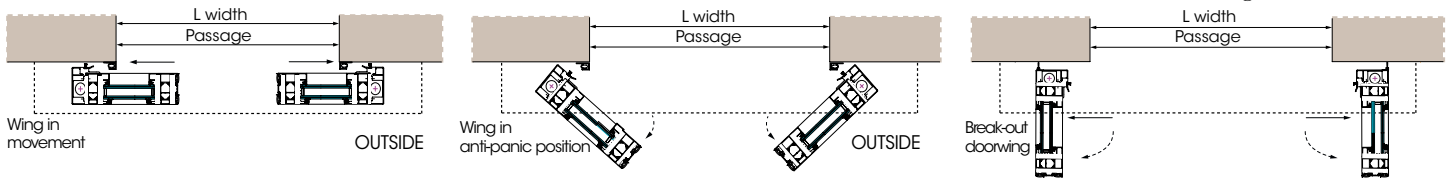
TOS T.T. 2

DOUBLE LEAVES ENTRANCE FOR LARGE SPACES



PONZI TOS TT 2R,

is the automatic anti-panic sliding door realized with two leaves, now with the new Ponzi T.T. thermal break system with profiles of 65 mm and dedicated opening software. The sliding doors overlap glazed and panelled masonry. The conditions must exist for the doors to slide, taking into account the overall dimensions of the length of the opening mechanism, which must be positioned outside the compartment, to allow anti-panic opening of the integral breakout.



PONZI PATENT / BREVETTO



The Ponzi TOS T.T. device is an innovative and patented system which allows for the creation of automatic entrances with thermal break and high energy savings, with an anti-panic system for use on escape routes. Ponzi TOS T.T. automatic doors are enabled for anti-panic exits through notified laboratory tests, which prove their use on escape routes through a specific quality procedure and relative certification, ISO 9001 standard, in compliance with the guidelines indicated on the entrances and in compliance with Community directives and European laws.

THERMAL TRANSMITTANCE



- Zone A
- Zone B
- Zone C
- Zone D
- Zone E

"Table 4 - Appendix B - MINISTERIAL DECREE MINIMUM REQUIREMENTS"	MD 26th June 2015 from 1st July 2015	MD 26th June 2015 minimum requirements from 1st January 2021	NEW ECOBONUS from 6th October 2020
Climate zone A	≤ 3,20 W/m ² K	≤ 3,00 W/m ² K	≤ 2,60 W/m ² K
Climate zone B	≤ 3,20 W/m ² K	≤ 3,00 W/m ² K	≤ 2,60 W/m ² K
Climate zone C	≤ 2,40 W/m ² K	≤ 2,00 W/m ² K	≤ 1,75 W/m ² K
Climate zone D	≤ 2,10 W/m ² K	≤ 1,80 W/m ² K	≤ 1,67 W/m ² K
Climate zone E	≤ 1,90 W/m ² K	≤ 1,40 W/m ² K	≤ 1,30 W/m ² K

Globally addressing the issue of energy saving in an automated pedestrian entrance means examining and solving topics related to: thermal insulation, functionality, aesthetics, availability as an escape route. This type of entrance, including a breakout escape route, responds positively to the requirements defined by the most recent decrees on energy saving relating to doors and windows (Ministerial Decree Minimum Requirements - 26th June 2015), being able to satisfy the defined thermal performance by the decree (compliance with the thermal transmittance value) for the Italian climatic zones A, B, C, D, E. Specifically, the issue of thermal insulation was addressed with the design of thermal break profiles with high insulation characteristics, created for the construction of automatic pedestrian entrances with high energy savings.

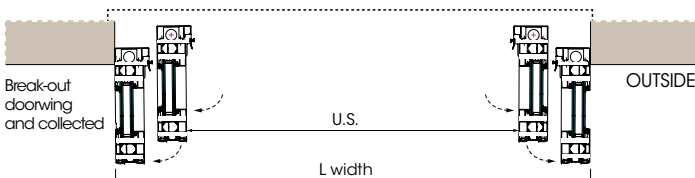
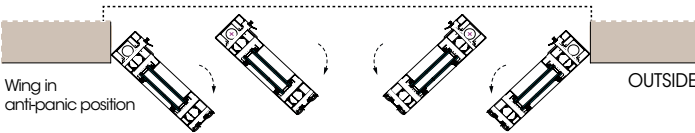
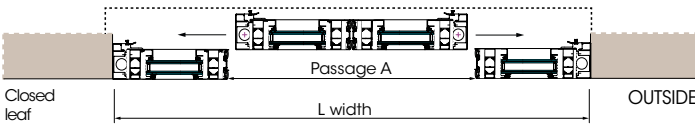
TOS T.T. 4

HIGHLY ENERGY SAVING FOR SUSTAINABLE BUILDINGS



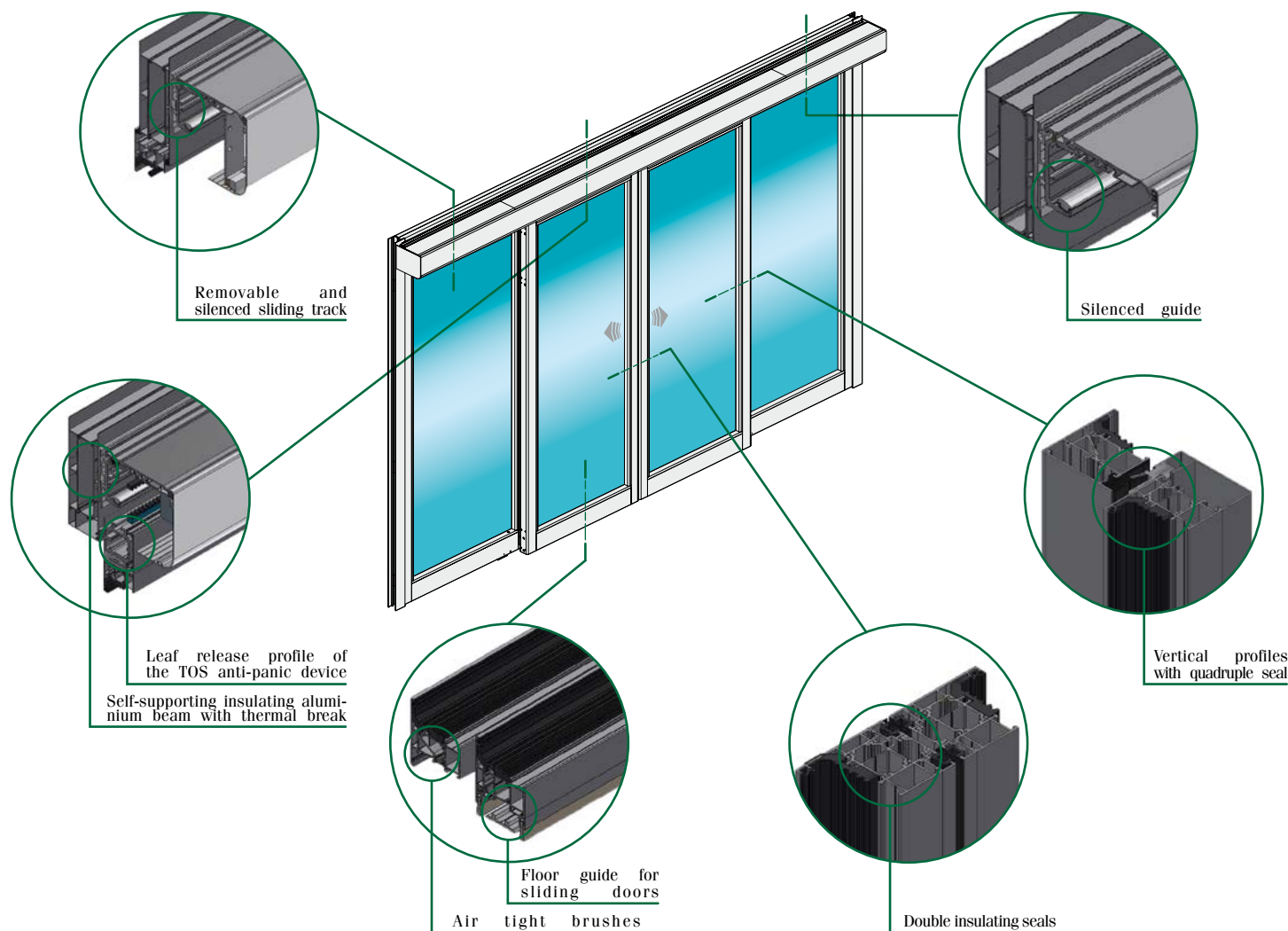
PONZI TOS TT 4,

is the automatic anti-panic door with thermal break made in four leaves, suitable for buildings with various intended uses, shopping centres, hotels, hospitals, airports, offices, etc. It is equipped with an integral anti-panic device, which is activated by manual pressure at any point on the leaves, even when in motion. The break out involves the outwards swing opening of the leaves, freeing up the compartment and allowing the use of the doors also for unloading goods. The automation is designed to integrate with Ponzi thermal break profiles with a 65 mm section, with a sealing gasket system. Ponzi TOS T.T. automatic doors are enabled for use on escape routes, through tests in a notified laboratory, which prove their use in these areas, complete with certification of suitability for use. They comply with the Community directives and European laws in force regarding automatic pedestrian closures (EN 16005) and built according to the procedures indicated by the ISO 9001 quality standard, installed and maintained by the Ponzi after-sales service.



PONZI TOS THERMAL BREAK

EXPLODED VIEW · TECHNICAL DETAILS



DESCRIPTIVE OF SPECIFICATIONS

AUTOMATIC SLIDING DOOR PONZI TOS THERMAL BREAK realized with four leaves of which the lateral ones are semi-fixed and the central ones can be opened automatically. The leaves are manufactured with thermal break extruded aluminium profiles of mm 65, exclusive PONZI series, specially designed for use in automatic doors. Surface finish made with RAL painting or anodic treatment (colour to be chosen by our chart), safety insulated glass with total thickness up to 45 mm, in composition correlated to the required thermal performance. Complete with special gaskets.

The drive unit is composed of:

- N°1 Low voltage geared motor
- N°1 Stabilized power supply
- N°1 Microprocessor control board
- N°1 Rail in extruded aluminum
- N°2 Trailer carriages
- N°1 Adapter profile for leaf suspension
- N°1 Multifunction battery group
- N°1 Bi-stable electrical lock

N°1 Inspectionable box in extruded aluminum (h = mm.155)

N°1 Function selector with 5 positions (KS)

N°2 Combined Radar (motion and presence sensor)

TOS ANTI-PANIC DEVICE WITH TOTAL BREAK-OUT: in case of emergency the central sliding leaves and the lateral semi-fixed ones will break-out with a simple manual pressure in any stroke position they are found, even during its movement. The automatic system, thanks to the floor guides, allows the lateral collection of the four leaves (two on each side) with deactivation of the automatic function until the restoration of the operating function and is completed by sturdy interlocking profiles with release along the entire length of the leaf (not via contact bridges). This opening system, made with exclusive PONZI thermal break profiles and covered by a patent, assumes the function of an anti-panic device and emergency exit and has been tested by Istituto Giordano S.p.A. resulting in compliance with the most recent regulations on automatic pedestrian closures installed on escape routes. (pr. EN 16005).

— | CUSTOMIZED SOLUTIONS FOR DIFFERENT USES AND FUNCTIONS | —

OUT DOORS



🛒 Retail - PONZI TOS THERMAL BREAK 1+1, customer passage



🏥 Hospital - PONZI TOS THERMAL BREAK 4 leaves, opening phase



🏨 Hotel - PONZI TOS THERMAL BREAK 4 leaves, main entrance - lounge bar



🏪 Pharmacy - PONZI TOS THERMAL BREAK 4 leaves, controlled opening



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