

# PSE

MANUAL & AUTOMATIC  
HERMETIC SEALING  
HOSPITAL DOORS



## PSE

HERMETIC  
STAINLESS STEEL, FULL CLAD  
LAMINATED HPL & ANTI RX

# PSE - L

## LAMINATED HPL HERMETIC DOOR



PSE laminated special panels with design print "Bamboo"



PSE laminated and anti-shock frame with midrail protection, print "Leaves"



PSE with several options and opening buttons



PSE laminated design "Bubble" version



PSE laminated for entrance of patients and medical staff



PSE laminated panel and midrail protection frame profiles, with anti-dust inspectionable box



PSE laminated panel and personalized "Frozen" prints

Manual or automatic hermetic PSE doors are realized in one wing, with sizes which vary from 800 mm to 2000 mm and variable height till 2500 mm. The plannet automation is the PONZI PSE type, built to permit the slide of the wings and a squeezing movement and displacement in closing movement, with lifting in opening movement. The frames of the wings are realized with a specific series of 60 mm PONZI frame profiles designed to guarantee, on the 4 sides of the door, a remarkable endurance to the air and a perfect tightness, thanks to a system of rubber seals which, in the closing movement, guarantee the hermetic closing. The coplanar panel of sandwich type is fireproof, in Class 1 for the use in hospital environment and insulating (with a thickness of 60 mm) with a laminated surface HPL, of different colors, chosen from the sample case of PONZI. The finishing touches of the perimetral frames are standard in aluminium anodized silver or optionally painted RAL or polished. The system is tested for the endurance by a Testing Institute and supplied with a special test report.



# PSE - I

## STAINLESS STEEL HERMETIC DOOR



PONZI PSE stainless steel door - Automatic linear and dropping sliding - Tested tightness



PSE stainless steel door - Standard framed panel



PSE Inox - Option of the wing with inserted view



Corridor of the operating ward with PSE stainless steel doors with 45° barter suitable for cleaning

PSE stainless steel doors can be manual or automatic. They are realized with frames of containment in aluminium anodized silver and with coplanar sandwich panels, with stainless steel plate and insulating material. The doors are completed by special counterframes and perimeters realized in press-formed stainless steel frame profiles. The sliding wing, during its work, activates a double translation and realize the hermetic closing through a special production in the guide, thus providing so a barrier to the pathogenic elements in the outside. The stainless steel wing is easy to clean also with frequent washing and resistant to any eventual chemical agent.

# GLASS

## WIDE GLAZED WINDOW



Wing with full window with adjustable Venetian blind



Transparency and sterility - Isolation and hygiene



PSE GLASS in pharmaceutical area - White rooms

Ponzi PSE automatic doors can be realized even with a wide window to donate brightness in the sanitary or pharmaceutical location. Glass is a thermal and acoustic isolating material, it is hygienic, easy to clean and usable in different contexts. Upon request, special blinds can be applied also inside the glass.

# PSE IVC - FULL CLAD

## STEEL HERMETIC FLUSHED DOOR



PONZI PSE IVC door - Full Clad with glazed stainless steel finishing - Operating theater



PONZI PSE IVC door - Full Clad with RAL painted stainless steel finishing - Diagnostics room



PONZI PSE IVC door - Full Clad hermetic door paired with swing PONZI ALU IVC door

Ponzi PSE IVC is the hermetic door provided with an innovative panel wing composed by one press-formed plate, realized only with top range stainless steel, painted with powders with a total thickness of 85 micron, with later baking. Inside the panel a special insulating fireproof material is injected, which has been especially studied and realized for the use in hospital and sanitary setting. A particular care to the producing is dedicated to the processes of pressing and shaping, with the final result of a homogeneous stable plan, with uniform borders, blunted corners and lasting in time.

# X RAY

## ANTI RX SHIELDING



PSE RX - Automatic sliding doors - CAT room



PSE RX - Anti-RX sliding doors - Operating rooms



PSE RX - Filters and access control - Nuclear medicine

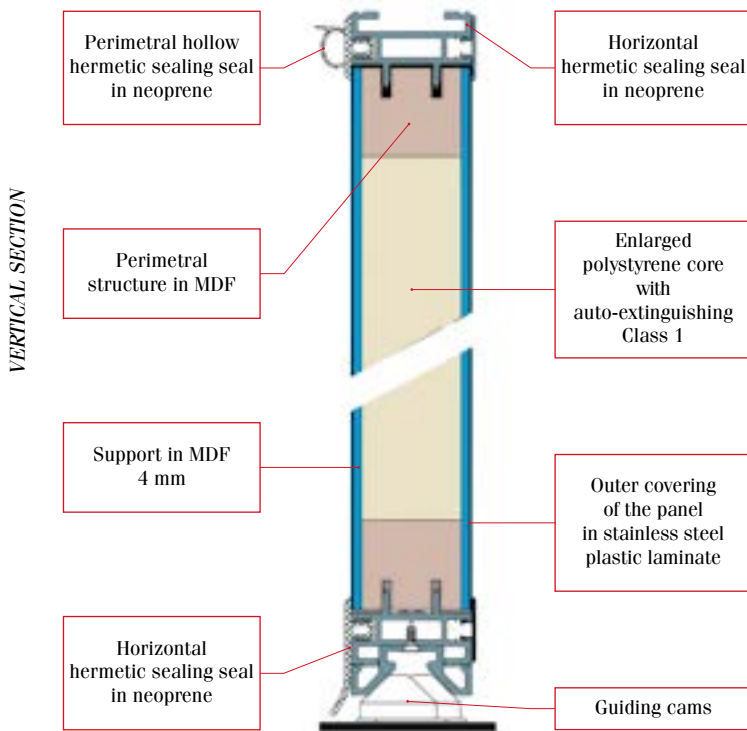


Wing panel section - Thermal/acoustic isolation

Ponzi PSE doors provided with anti RX shielding are suitable in hospital areas as radiology, diagnostics, nuclear medicine and radiotherapy. The aim is to limit the expositions to the ionizing radiations to the levels which are allowed by the current law. In the wing panel an insertion of lead sheet of 1/2/3 mm is previewed in the whole highness, in continuity with the lead insert wall.

# PSE

## TECHNICAL FEATURES



### MECHANIC FEATURES

Automatism sizes		h. mm. 175 prof. mm 230
Width of opening hole	Single wing	mm. 800 - 2000
Maximum weight of wing panel	AS standard AS MAX special	180 kg 250 kg

### ELECTRIC FEATURES

Conditions of use	Single wing	servizio continuo
Opening speed	Single wing	30-50 cm/s
Closing speed		20-35 cm/s
Electricity		230 V a.c. 50 Hz
Power		200 W
Power source		24 V c.c.

PONZI PSE doors can be realized with one wing with sizes of passage which vary from 800 mm to 2000 mm; variable standard height from 2100 mm to 2300 mm. The door can be manual or automatic with standard PONZI PSE motorization to 180 kg each single wing, or to 250 kg with PONZI PSE MAX motorization. The automation has sizes of 175 mm in height and of 230 mm in depth; for its fixing there must be masonry or adequate structural supporting element. Automations and Ponzi doors are totally made in Italy; they are realized respecting procedures and quality certifications ISO 9001, with a full correspondence to the current laws. The doors are supplied with big opening lever handles, necessary for the security of the users, to be considered to the level of planning and calculation of the passage points as they determine a contraction of the useful hole of 120 mm. Several options available, also with perimetral intradoses in aluminium or stainless steel sheet, suitable for the covering of the masonries.

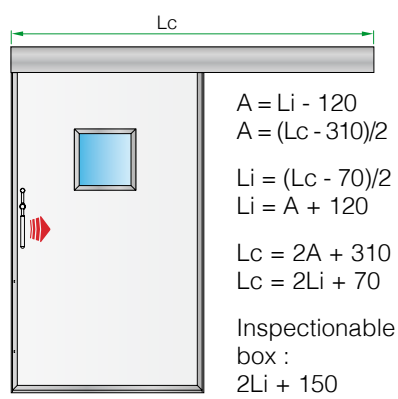
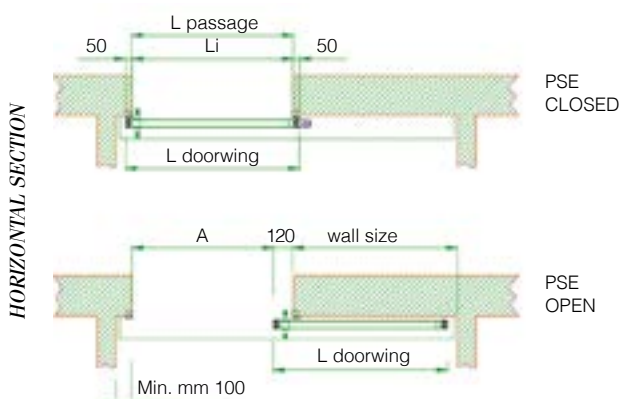
## HERMETIC CLOSURE

## TEST



The feature of PONZI PSE is the hermetic sealing on the four perimetral sides. The mobile door wing, in the final phase of the sliding, makes a matched crushing movement on the perimetral frame and a vertical translation on the floor. The seals are then sealed against the frame of the door and the floor, guaranteeing the hermetic sealing.

PONZI PSE doors are supplied with a test report, implemented by a certified laboratory, which proves the feature of full tightness, with equivalence to the class 4 of the law EN2016 (permeability to the air).



**ISTITUTO GIORDANO**

TEST REPORT No. 234567

Place and date of issue: Belluno Marina - Italy, 18/12/2007

Customer: PONZI S.p.A. - Via Gramsci, 26/A - 48010 BAGNARA DI ROMAGNA (RA) - Italy

Date test requested: 13/12/2007

Order number and date: 39485, 12/12/2007

Test date: 13/12/2007

Purpose of test: air tightness with overpressure ranging from 20 Pa to 150 Pa of an automatic sliding door used in hospitals

Test site: at Customer premises

Specimen origin: sampled and supplied by the Customer

**Specimen name:**

The test specimen is called "regimen automatico ad aria mobile compressa a tenuta ermetica realizzata con appoggio autoadattabile PONZI tipo PSE a sistema profilo PONZI serie PSE" (single automatic sliding door with using PONZI PSE door and a system of PONZI PSE profile section).

(\*) according to that stated by the Customer

TEST BY: [Signature] [Stamp]



# PSE

## COMPONENTS · ACCESSORIES · SENSORS · OPTIONS

The long experience of PONZI, gained in the sanitary and medical field, designing manual and automatic hospital doors, lets the functional requests to be satisfied, necessary for each type of operating theater. In the range of the technical and aesthetical type PSE automations with certified tightness there is a wide availability of accessories, as commanding and pulse devices, electric contacts etc. The technical and commercial office of PONZI is available to illustrate and suggest the suitable options.



Stainless steel lever handle



KS Selector function



Combined motion & safety sensor



Impulse/security sensor

As basic components of the system are the lever handle and selector function KS key switch with 5 functions: automatic, permanent manual opening, partial opening, unidirectional and lock of the wings. It is available, optionally, even the digital selector electronic version, equipped with display which allows 10 functions and the eventual alarms warning. The door is supplied with a security sensor, as requested by the current Norms EN16005, which can be inserted into the inspectionable box.



Opening elbow push button



Emergency foot push button



Opening touch push button



Recess security sensor

For the opening of PSE hermetic door it is possible to use impulse sensors. The PONZI lever handle is used in the manual doors, which allows an easy and fast opening in every situation of use. In case of automatic door it is possible to use three different devices: the elbow switch; the foot push button with surface fixing; or the Magic Switch button touch opening, which can be mounted in recess or on surface of the wall.



Windows double glazing insert



Window adjustable Venetian blinds



Laminated panels with digital print



Glass wings with digital print

The double glazing windows inserted into the panel are optional; available even the X-RAY shielding protection with equivalent degree of lead sheet. Inside windows it is possible to insert Venetian blinds with automatic or manual handling. The wing panel can be realized in different materials, finishings, colors, with the possibility of digital print.



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