

# les portes étanches

joint s gonflables

## airtight doors - inflatable seals

Designed to comply with requirements for perfect air-tightness, our "Tixan'Air" inflatable seal doors, tested and approved, offer the integrity you need, particularly against formaldehyde or where pressurisation constraints must be maintained. They are complementary to our fixed seal laminated doors.

The air-tightness and the integrity of moving mechanical parts has always been a source of concern. A fast, reliable and effective solution using "Tixan'Air" pneumatic seals, inflatable and retractable, solves the numerous problems of fixed or dynamic sealing faced by industry.

The Tixan'Air seal works by external radial expansion against doorframe. The frame is made of 304L stainless steel. The rounded angles ensure uniformity in the plane of the seal.

The seal ensures air-tightness between the door and the frame. The seal is in one of two positions:

### ① AT REST (RETRACTED)

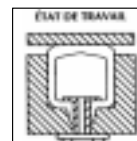
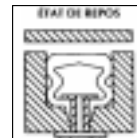
The seal is inside its housing, thereby enabling the door to move. For safety reasons, the seal is always fitted slightly recessed from the groove.

### ② OPERATIONAL (EXPANDED)

The seal expands by inflating, thereby ensuring:

- an airtight seal between the door and frame
- the door leaf is blocked from opening.

The seal works by means of the elastic properties of the gasket, the geometry of the door and frame profiles and the inflation pressure.



### DIMENSIONS

#### • Leaf height 2040

Nominal leaf width

800 900 1000 1100

### STAINLESS STEEL DOORSILL

#### Raised sills

For use in radioactive classified zones, or to create containment between areas by retaining spillage etc.

#### Flush sills

Will not hinder the passage of trolleys.

**THE FRAME** is hollow and contains the technical functions: interlocking, automation, access control, emergency exit. The door leaf is faced with HPL, side edges are Corian resin, polyamide hardware, vision panel flush on both sides.

### OPTIONS

- Emergency stop button
- Panic bar/emergency exit
- Flush emergency exit indication
- LED rack
- Contact lock with key
- Flush electric bolt
- Electric door catch
- Access control

In compliance with the requirements of GMP/BPF.  
Explosion-proof classification and suitability for foodstuff applications.



### The reasons for this choice

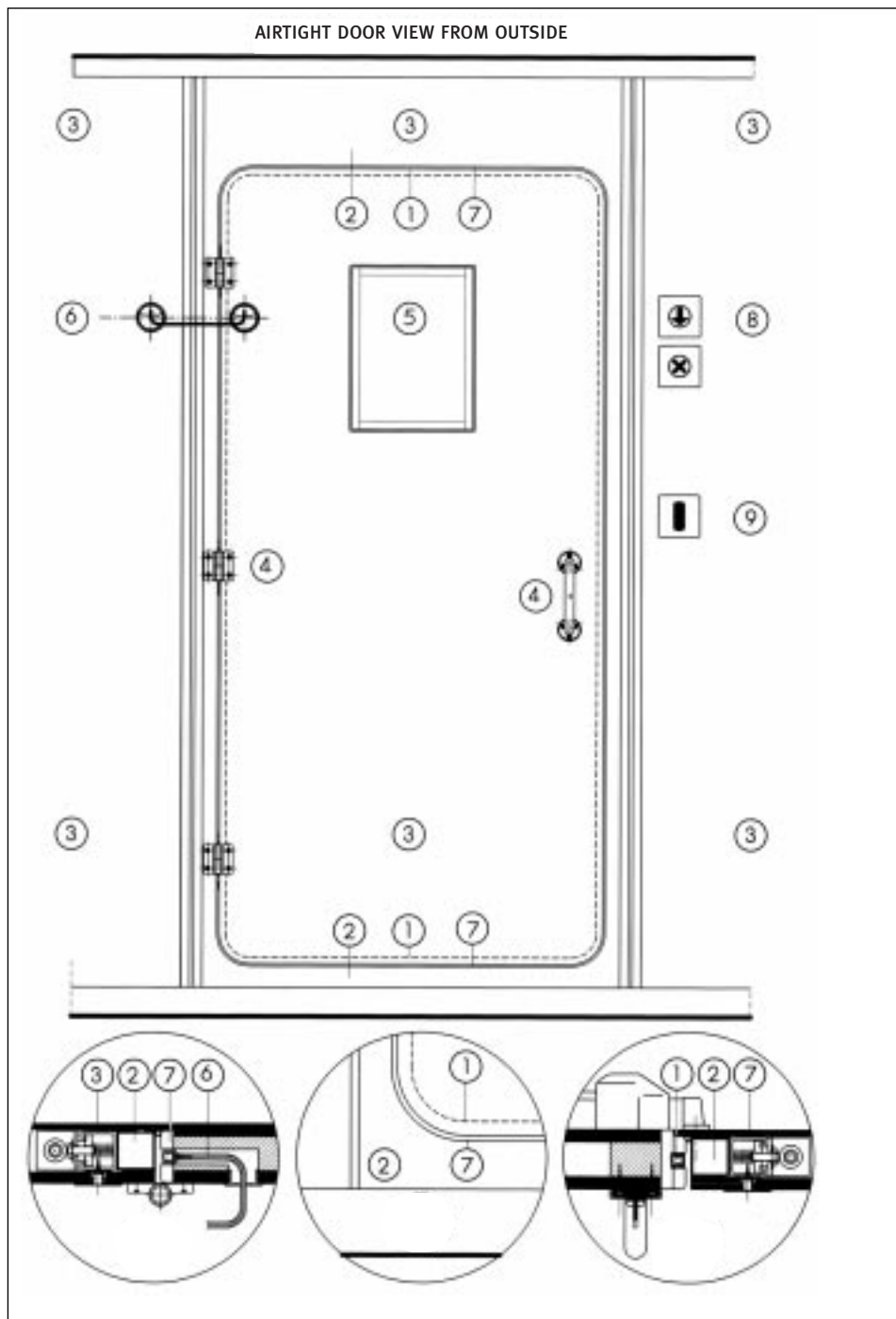
- ① simple to operate
- ② suit frequent use applications
- ③ accomodates considerable tolerance
- ④ easy to install
- ⑤ no maintenance
- ⑥ inert to formaldehyde and UV
- ⑦ explosion-proof classification for the whole compressed air system



# les portes à joints gonflables

dessins techniques

## doors with inflatable seals - technical drawings



- |   |                             |
|---|-----------------------------|
| ① INFLATABLE SEAL / TIXAN <sup>®</sup> AIR <sup>®</sup> | ⑥ COMPRESSED AIR CONNECTION |
| ② STEEL / STAINLESS STEEL FRAME                         | ⑦ CORIAN RESIN              |
| ③ HPL FACING  | ⑧ INDICATOR LAMPS           |
| ④ POLYAMIDE HARDWARE                                    | ⑨ CONTROL                   |
| ⑤ VISION PANELS, FLUSH ON BOTH SIDES                    | ⑩ CONTACT                   |

### OPERATION

#### 1) Equipment

- 1 Red indicator
- 1 Green indicator
- 1 "Open Door" button
- 1 Rebated contact (NO)
- 1 inflatable seal

#### 2) Operation

##### a) At Rest

The inflatable seal door is closed:

- the door is locked
- the seal is inflated
- the red indicator is lit
- the green indicator is off

##### b) to open the door:

Press the button to open door:

- the red indicator lamp flashes
- the seal deflates for 5 seconds
- after 5 seconds: the seal is deflated the door unlocks the green indicator lights the red indicator is off

You may then enter.

There are two options:

##### 1. You open the door, then

- close it behind you:
- the door locks
- the seal inflates for 5 seconds
- the red indicator lights
- the green indicator is extinguished.

##### 2. You do not open the door.

After 5 seconds, the door automatically locks

- the seal is inflated for 5 seconds
- the red indicator lights
- the green indicator is extinguished.

N.B.: to enter, press the Open Door button again.

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