

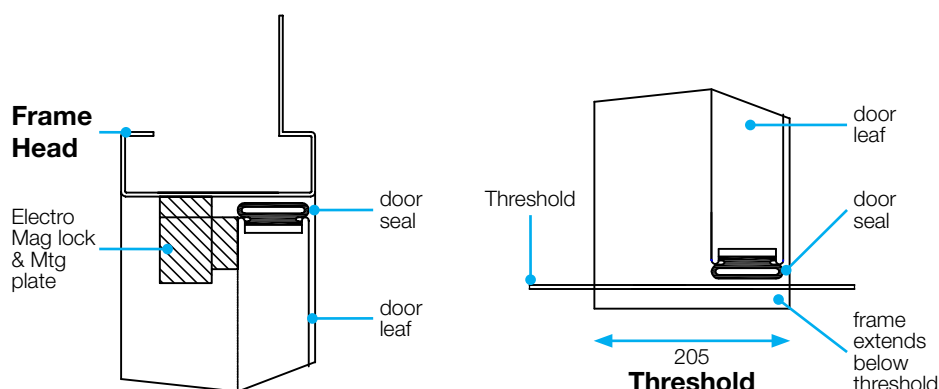
SEALECK INFLATABLE SEAL HIGH CONTAINMENT DOOR SETS

The **Sealeck** inflatable seal high containment door set satisfies Australian requirements for PC3 to PC4 (Physical Containment Level 3 or 4) and International requirements for BSL3 to BSL4 (Bio-Safety Level 3 or 4)



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Description:

An inflatable door seal high containment door set, designed for maximum leak tight capabilities suitable for fumigation or critical airlock applications. The door set is supplied with or without full operational and interlocking control systems.

Specifications (door frame):

- The Sealeck Inflatable seal doorset is an integrated door & frame product which incorporates radiused corners and threshold sections. The frame is a one-piece four sided frame section of 3mm 304 (optional 316) grade stainless steel flanged at sides, head and bottom to enable bolting to a support structure.
- The frame incorporates a 3mm thick x 250mm wide flat threshold section across its full width.
- The frame is designed to be inserted into a full width floor recess. It is pushed into the wall opening from one side and fixed to a structural support system provided by others.
- The frame incorporates an internal reinforced section to limit flexing during operation.
- The frame section incorporates an air supply line exiting the frame head - allowing connection to wall conduit (by others).

- Frames can be supplied for connection to masonry, stud framework or sandwich panel wall systems.
- The frame is fitted with Stainless Steel block hinges and these provide subsequent vertical adjustment of the installed door panel.
- Optionally the frame can be supplied complete with 304 grade (optional 316) S/S shroud plates that enable connection of the frame to an adjacent sandwich panel wall system (each side and above the door head). The shroud plates that are provided for both sides of the door system also cover the structural support framework that the door frame is fastened to, and these can be varied in width and height to meet individual requirements.

Specifications (door leaf):

- The Sealeck Inflatable seal doorset incorporates a channel section around the perimeter of the door leaf to facilitate the use of an inflatable seal. Inflating to seal the opening when the door is closed, the seal provides a leak tight sealed door to 500Pa differential pressure.
- The door leaf is fabricated from 304 grade (optionally 316 grade) finished No 4 stainless steel, is completely seamless and features an internal sealed manifold that connects to the perimeter inflatable seal.
- The seal utilizes a vulcanized hose connection which enters the door leaf beneath the seal and connects to the internal manifold. Air is supplied via a connection at a removable flange on the door surface and connects to a braided stainless steel hose (cover photo) which in turn connects to an air line within the door frame.

Specifications continued overleaf...

SEALECK INFLATABLE SEAL, HIGH CONTAINMENT DOOR SET

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Specifications (door leaf) continued...

- Available standard leaf sizes are:
 - 2150mm high x 900mm wide
 - 2150mm high x 1200mm wide
 - 2450mm high x 1200mm wide
 - Other sizes refer to Sealeck.
- An integrated welded and sealed 25mm Dia solid stainless steel "D" handle is fitted to each side.
- [Sealeck BVP40 series](#) (as shown on cover photo) circular or [BVP45 series](#) square/rectangular is a flush glazed vision panel, and is provided upon request. Refer to Vision panel data sheets.
- An electromagnetic lock is pre-fitted and eliminates the need to have a through door leaf lock assembly aperture and thereby prevents leakage. The electromagnetic lock is mounted on a purpose built S/S reinforced mounting block that combines a soft mounting door stop at the head of the door frame. The lock uses 12VDC or 24VDC input voltage.
- A proximity switch is supplied and enables the control system to respond to doors being opened and closed.
- Air Pressure required for this doorset is 1.0 bar operating pressure to 1.5 bar test pressure and usage is approx. 2.0 litres of air per pressurization cycle (per door).

(NB: inorganic materials used only)

Specifications are subject to change without notice



Optional control system for door lock operation with 30 series vision panel

Inflatable seal Doorset Control System:

- The standard doorset is supplied without a control system to operate it but comes complete with electromagnetic lock, proximity switch and a 6mm low pressure airline connection to the inflatable seal.
- Sealeck also provide a drawing showing typical airline and electrical circuits for the provision of a control system which can then be customized to suit individual customer requirements such as the following: where it is desired to incorporate control systems that will operate a number of interlocked doors, connect to Building Management systems and in some cases combine with fumigation system requirements.
- If required Sealeck can provide a complete control system including interlocking requirements and combining fail safe emergency exiting functions. Please contact Sealeck and request our document titled "Standard Operating sequence control system for Inflatable seal interlocked doorsets".