

# UNIGUARD

## DOOR LEAF

A 40, 45 or 55mm highly finished, seamless, stainless steel clad, internal SHS framed, foam core door

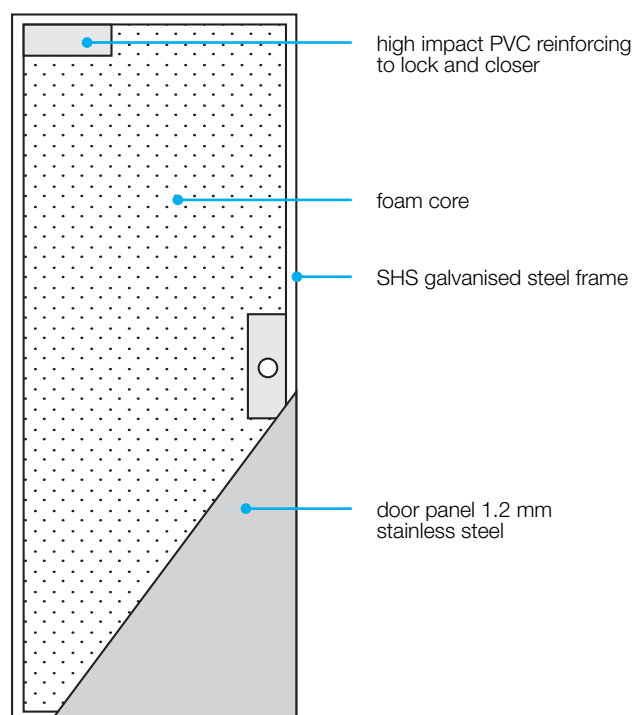


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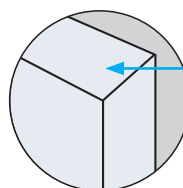
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### leaf construction detail

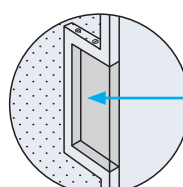


### top + bottom fixing detail



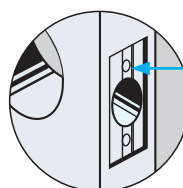
- fully welded and ground smooth with no visible joints

### alternative frame preparation for mortise lock



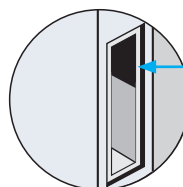
- lock block

### cylindrical lock preparation



- recess in steel surface allows latch plate to flush fit

### mortise lock preparation



- recess in steel surface allows face plate of mortise lock to flush fix

### standard specifications

- 40mm (nominal) door leaf clad both sides with 1.2mm stainless steel skins, fully welded at all joints and ground smooth to provide a seamless panel.
- External steel skins are bonded to a foam core and the internal space incorporates a fully welded 35 mm SHS galvanised steel perimeter frame with high impact PVC reinforcing blocks to lock and closer positions.
- Lock hardware latch plate is recessed into the door edge so as to be flush (or near flush) with the external edge surface of the door leaf.
- Door leaf to be finished as specified.

*Specifications subject to change without notice*

### leaf dimensions and options

Height	Width	Thickness	Options
Standard	Nominal	Nominal	
2040	716	40	45/55
2040	816	40	45/55
2040	916	40	45/55
Special Sizes up to:			
2950	1420	55	
<b>Skin Thickness</b>			
Standard: 1.2 mm		Options: up to 1.6 mm	
<b>Skin Material</b>			
Standard: stainless steel			
<b>Finish</b>			
Standard: polished stainless steel		Options: primed, wet sprayed, special PVF2 or finished stainless steel	
<b>Weight</b>			
75kg for standard 2040 x 816 x 45mm leaf			

# CLEANGUARD

## PC2 DOOR-SET

The **Sealeck** Cleanguard PC2 door set satisfies Australian requirements for PC2 (Physical Containment Level 2) and International standards BSL2 (Bio Safety Level 2)



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## CLEANGUARD PC2 DOOR-SET

The Sealeck Cleanguard PC2 door set satisfies Australian requirements for PC2 (Physical Containment Level 2) and International standards BSL2 (Bio Safety Level 2).

### Specifications (door leaf):

- Sealeck [Primaguard](#) model with Cleanguard enhancements to ensure only internal inorganic components are used.
- Clad with 0.6 mm galvabond sheet steel optionally to 1.6mm steel or 304/316 S/S 2B or linished # 4 finish.
- Maximum door leaf size is 2,900mm high x 1425mm wide.
- Surface cladding is enveloped over all faces and is lock seamed on edges with the seams silicone sealed.
- Internally a polystyrene core is fitted between welded perimeter rectangular tube framing.
- Plastic high density lock blocks are fitted at lock, closer and hinge positions.
- A wide range of lock, handle, closer and bolt hardware can be pre-fitted to suit customer requirements
- Finish is powder coated to your choice of available colours, or, for S/S materials 2B or linished to No 4 finish.

### Specifications (door frame):

- Sealeck ["R" series](#) door frame, fully welded at junctions and fabricated from 1.6mm thick galvabond steel, or, optional from 304 or 316 grade S/S.
- Frame is either three or four sided with threshold.
- Frame profile is available and recommended as a flat face channel section and uses an adjustable seal to provide the doorstop. Optionally the frame is available with conventional single or double rebated stile, and/or fully sealed back plate to prevent air leakage through hinge and strike plate apertures.
- Various fixing method options are available to suit the project's walling system.
- Pre-fitted with required qty of 100 x 100 x 3.0mm S/S ball bearing hinges screw fixed to 5mm internal hinge plates.
- Finish is powder coated to your choice of available colours, or, for S/S materials in natural 2B or linished to No 4 finish.



PC2 Cleanguard door sets with silicon seals and 30 series vision panels

### Assembly

- Sealeck Cleanguard door systems are provided pre-finished, completed and pre-hung ready for installation into the required wall system.
- The door leaf incorporates a flush fitting RP38Si or internally fitted Raven RP70Si drop down seal to seal the threshold when door is closed and RP24Si fully adjustable seals fitted to jambs & head.
- Double door meeting stiles will have a vertical RP 4T seal with aluminium "T" bar, or other treatments are available depending upon sealing needs.
- The required quantities of 100 x 75 x 3.0mm, SS ball bearing hinges are pre-fitted.
- Sealeck vision panels can also be provided pre-fitted and preglazed refer to vision panel options: [20](#) and [30 series](#).

### Description:

Sealeck PC2 Bio-Containment doors are suitable for laboratory clean room, hospital and industrial building applications which require no higher than a Bio-Containment level 2 standard. Door sets can be powder coated; pre hung in frame and pre-fitted with all hardware ready for site installation

*Specifications are subject to change without notice*

# CLEANGUARD

## PC2 TO PC3 SEAMLESS DOOR-SET

The **Sealeck** Cleanguard PC2 to PC3 seamless SS door set satisfies Australian Requirements for PC2 to PC3 (Physical Containment level 2 or 3) and International Requirements for BSL2 to BSL3 (Bio-Safety level 2 or 3)



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## CLEANGUARD PC2 TO PC3 SEAMLESS DOOR SET

The Sealeck Cleanguard PC2 to PC3 seamless SS door set satisfies Australian Requirements for PC2 to PC3 (Physical Containment level 2 or 3) and International Requirements for BSL2 to BSL3 (Bio-Safety level 2 or 3)

### Specifications (door leaf):

- Sealeck [Uniguard](#) model door leaf fabricated from 304 grade (optional 316 Grade) 1.2/1.6mm stainless steel.
- Maximum door leaf size is 2,900mm high x 1415mm wide.
- Surface cladding is enveloped over all faces, welded and then finished to a number 4 finish around seams to provide a completely seamless grained stainless steel door leaf.
- Internally a polystyrene core is fitted between welded rectangular tube framing.
- Plastic high density lock blocks are fitted at lock, closer and hinge positions.
- A wide range of lock, handle, closer and bolt hardware can be pre-fitted to suit customer requirements
- Finish is mill grade 2B finish or finished to No 4 finish.

*(NB: inorganic materials used only)*

### Assembly

- Sealeck Cleanguard door systems are provided pre-finished, completed and pre-hung ready for installation into the required wall system.
- The door leaf incorporates a flush fitting RP38Si or internally fitted Raven RP70Si drop down seal to seal the threshold when the door is closed and RP24Si fully adjustable seals fitted to jambs & head.
- Double door meeting stiles will have a vertical RP 4T seal with aluminium "T" bar, or other treatments are available depending upon sealing needs.
- The required quantity of 100 x 75 x 3.0mm, SS ball bearing hinges are pre-fitted.
- Sealeck vision panels can also be provided pre-fitted and preglazed refer vision panel options: [20 series](#), [30 series](#) and [40 series](#).

### Specifications (door frame):

- The door frame is welded at junctions and fabricated seamless from 1.6mm 304 grade S/S, or, optional from 316 S/S up to 3.0mm thick.
- Frame is either three or four sided with threshold, optional with recessed floor mounted threshold to maintain flatness for seal.
- Frame profile is available and recommended as a flat face channel section and uses an adjustable seal to provide the doorstop. Optionally the frame is available with conventional single or double rebated stile and/or with fully sealed back plate to prevent air leakage through hinge and strike plate apertures.
- Various fixing method options are available to suit the project's walling system.
- Pre-fitted with required qty of 100 x 100 x 3.0mm S/S ball bearing hinges screw fixed to 5mm internal hinge plates.
- Finish is natural 2B or finished to No 4 finish.



Cleanguard PC2 to PC3 door set with 40 series vision panel

### Description:

A Bio-Containment doorset suitable for hospital, clean room and laboratory building applications which require no higher than a Bio-Safety level 3 standard.

The door set can be purchased pre-colour finished, pre hung in frame and pre-fitted with all hardware ready to install.

*Specifications are subject to change without notice*

# CLEANGUARD

## PC2 TO PC3

### WINDOW SYSTEM

The **Sealeck** Cleanguard PC2 to PC3 window system satisfies Australian requirements for PC2 to PC3 (Physical Containment Level 2 or 3) and International requirements for BSL2 to BSL3 (Bio-Safety Level 2 or 3)



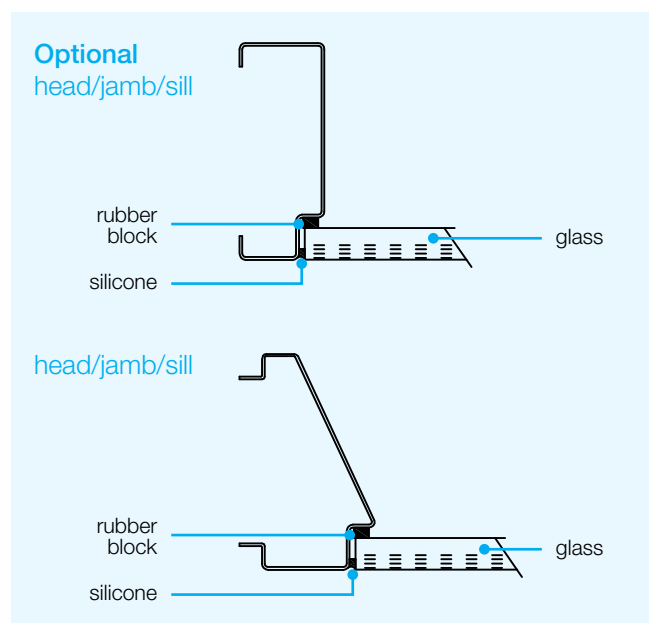
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## CLEANGUARD PC2 TO PC3 WINDOW SYSTEM

The Sealeck Cleanguard PC2 to PC3 window system satisfies Australian requirements for PC2 to PC3 (Physical Containment Level 2 or 3) and International requirements for BSL2 to BSL3 (Bio-Safety Level 2 or 3)

### Single part frame: For Build in Applications

Site glazed



#### Description:

Designed for use in Bio-Containment facilities that require prevention against the build up of surface bacteria.

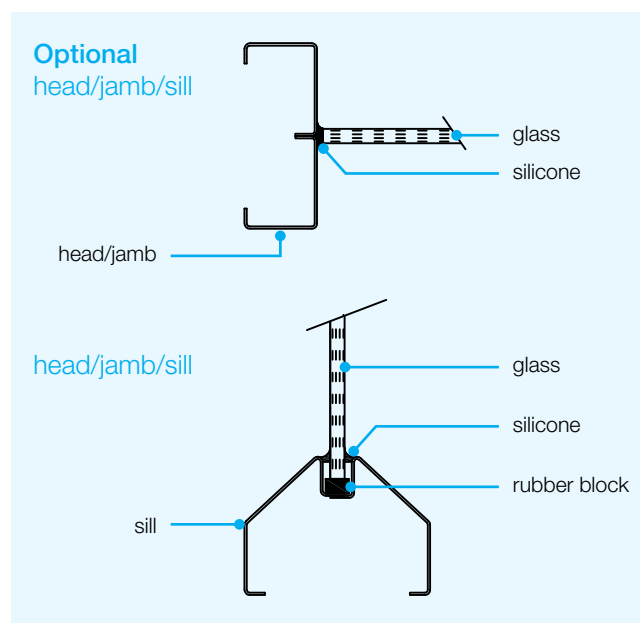
The window system is manufactured to enable installation into a sandwich panel or similar flat face wall systems. The frame can be provided as a single one piece frame and installed into walls as they are built or as a two part frame retro fitted after walls are built by pushing each section into prepared wall openings from either side then rivet fixed in the centre. Frame is flanged to go over the opening to seal flat against wall on both sides. Frame can be provided either, glazed on the centerline and sloped outwards to the wall thickness on either side to minimize dust collection on sills, or glazed to one wall face with the frame then sloped to the opposite face of the wall. The frame provides an easy to clean sealed window that meets the requirements for Bio-Containment.

Window is site glazed after frame installation.

*Specifications are subject to change without notice*

### 2 part frame: For Retro Fit Applications

Site glazed



#### Specifications:

- Four sided one or two part frame fully welded and seamless in 1.6mm galvanized steel with powder coated finish (optional 304 (316) grade S/S finished No 4).
- If one part frame supplied: ready to build into walls as walls are built.
- If two part frame supplied: ready to push in to prepared openings from each side and site join in centre.
- Ready to site glaze with 6.38mm clear laminated glass or glass to client specifications.
- Various sizes to suit client opening requirements
- Designed to suit a variety of sandwich panel (and other types) wall thicknesses (For other wall types frame may require the supply of a capped opening and packers to enable on site installation).
- To ensure leak tightness it is important to seal the joint between frame and wall with a suitable sealant during installation.
- Minimum wall thickness 75mm, maximum 150mm.



# CLEANGUARD

## PC3 TO PC4 DOUBLE GLAZED FLUSH-FACED, HIGH CONTAINMENT, STAINLESS STEEL, TWO PART FRAME WINDOW SYSTEM

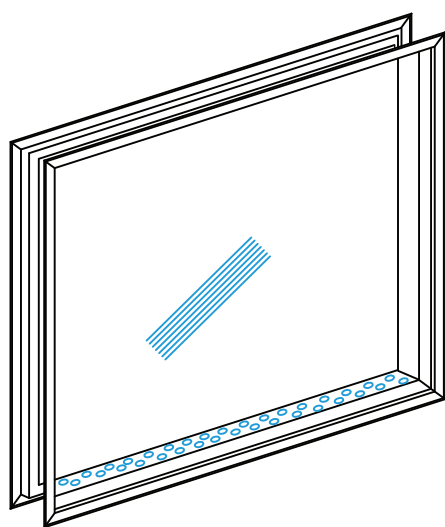
The **Sealeck** Cleanguard PC3 to PC4 window system satisfies Australian requirements for PC3 to PC4 (Physical Containment Level 3 or 4) and International requirements for BSL3 to BSL4 (Bio-Safety Level 3 or 4)



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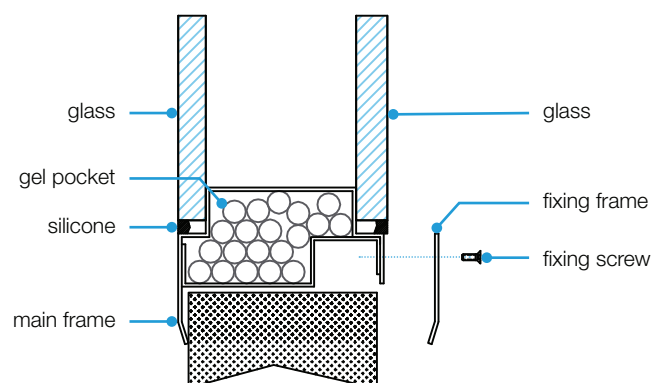
## CLEANGUARD PC3 TO PC4 DOUBLE GLAZED FLUSH-FACED, HIGH CONTAINMENT, STAINLESS STEEL, TWO PART FRAME WINDOW SYSTEM

The Sealeck Cleanguard PC3 to PC4 window system 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)



**Critical  
side**

**Non critical  
side**



### Description:

Designed for high bio-containment prevention against air leakage and ease of cleaning for example for fumigation applications, this window is designed to suit installation into sandwich panel or similar flat face wall systems; main frame is pushed into prepared wall opening and flanges protrude over the opening to seal flat against wall on critical side without seams or fixings. A secondary frame is pushed in from non-critical side and is screw fixed to the main frame. Double glazed panel is flush to each side except for 3mm thickness of retaining flange which is beaded with a sloped silicon seal. No screw fixings exist to critical side.

### Specifications:

- Four sided main frame 304 (optional 316) grade stainless steel lished to No4 finish, the main frame is folded and welded and is seamless to external surfaces and incorporates a perforated pocket for silica gel on the inner layer between glass surfaces.
- An opposite side support flanged frame in 304 (optional 316) grade stainless steel lished to No 4 finish.
- Screw fixings pre-prepared on non critical side (critical side is flush)
- The window frame is factory glazed using two layers of 6.38mm laminated safety glass on each surface to provide a flush outside face regardless of wall thickness.
- Sizes can be made to suit your specific opening requirements
- Window frame requires the provision of a capped opening and packers to enable on-site installation.
- To ensure absolute leak tightness it is important to seal the joint between frame and wall both sides with a suitable silicone sealant during installation.

*Specifications are subject to change without notice*

# CLEANGUARD

## PC3 TO PC4 INFLATABLE SEAL, HIGH CONTAINMENT DOOR-SET

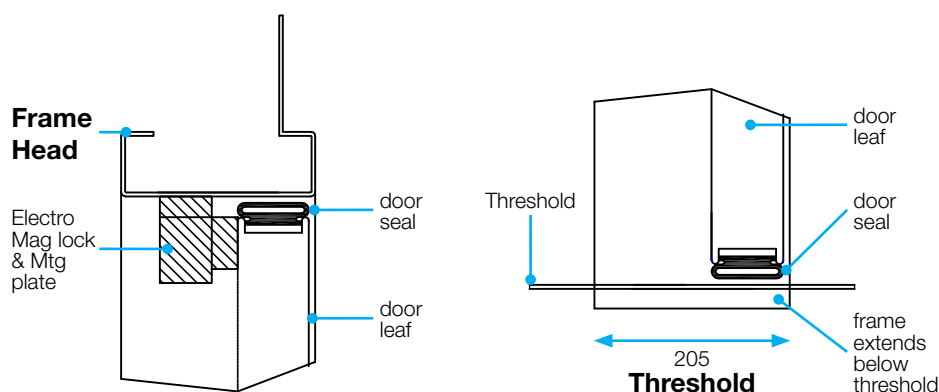
The **Sealeck** Cleanguard PC3 to PC4 door set satisfies Australian requirements for PC3 to PC4 (Physical Containment Level 3 or 4) and International requirements for BSL3 to BSL4 (Bio-Safety Level 3 or 4)



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## CLEANGUARD PC3 TO PC4 INFLATABLE SEAL, HIGH CONTAINMENT DOOR SET

Cleanguard PC3 to PC4 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)



### 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...*

## CLEANGUARD PC3 TO PC4 INFLATABLE SEAL, HIGH CONTAINMENT DOOR SET

Cleanguard PC3 to PC4 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)

### 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 solid stainless steel "D" handle is fitted to each side.
- [Sealeck 40 series](#) (as shown on cover photo) circular or [45 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".