

jansnel

FLEXIBEL BOUWEN



CORE VALUES

- **Innovation**
- Partnership/collaboration
- Relief
- Commitment
- Quality
- Durability/sustainability

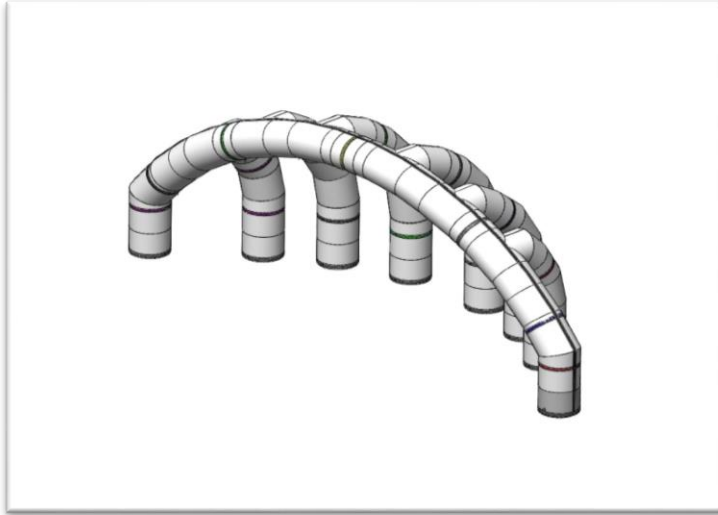
PARTNERS/COLLABORATION



BLAST RESISTANT SHELTERS



FABRICATION



Air Filled

“Skeleton” of the structure

Color coded

Number coded



Independent columns

Connected by redundant
manifold system

Virtually airtight

FABRICATION

Flooring options include:

- Dynamic Stage Flooring

- Wood flooring

- Concrete pad

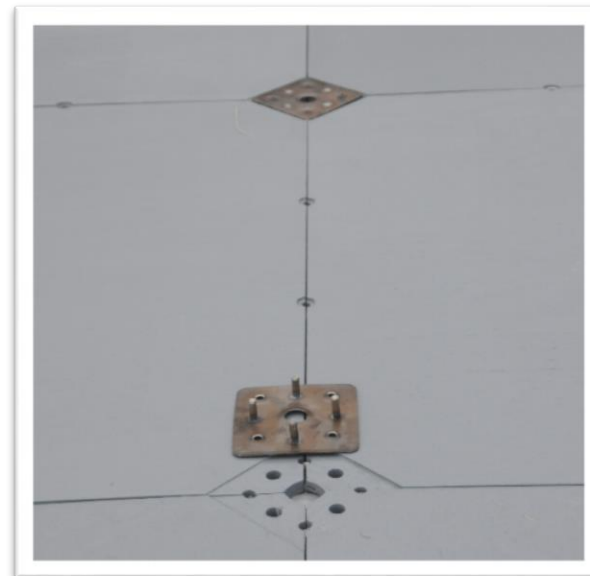
- Existing surface

Stage flooring

- Highly portable and

- re-usable

- Blast Resistant



FABRICATION

All Lights in the shelters are:

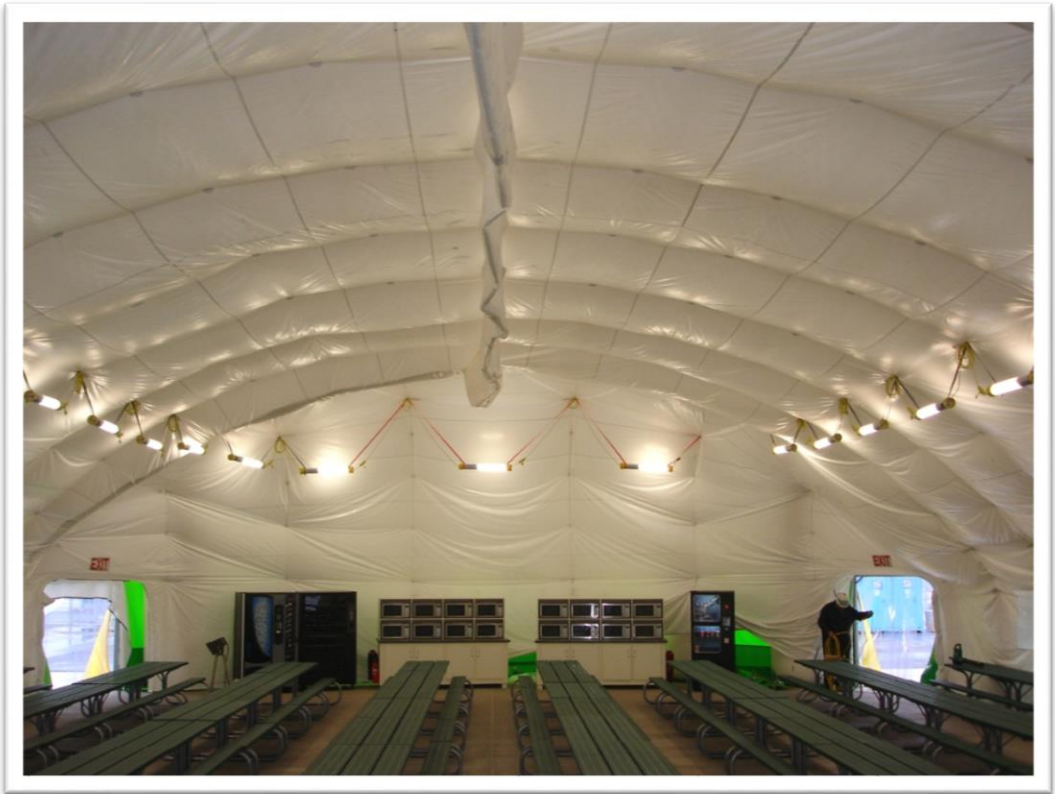
Shatterproof

Approved for Industrial Use

Designed to give proper luminosity as required by building codes

Secured without the need for rigid components

Can be hung without the use of ladders or man lifts



INTERNAL VIEW

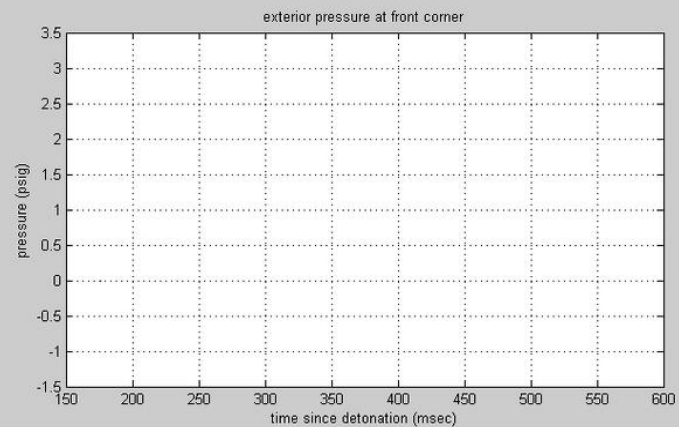
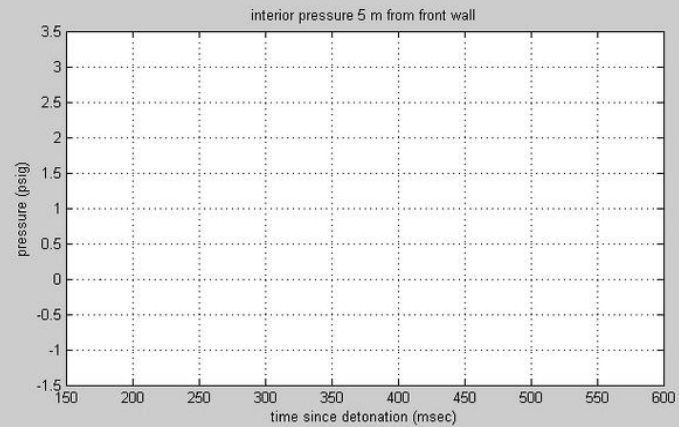


CAPABILITIES



Fuel Air Explosion (FAE) – 1,000 kg of nitromethane
5.9 PSI, 36ms (407 millibars)

CAPABILITIES



SHELTER IN PLACE



PROTECTION FOR YOUR WORKFORCE

The Dynamic Air Shelters 62' x 95' toxic gas shelter in place (SIP) consists of an industrial inflatable air beam shelter manufactured of a gas impermeable reinforced vinyl fabric with systems to monitor gas concentration and exposure, provide alarm and control signals, and provide heating, cooling, and ventilation with air treated by activated carbon filter banks. The major functional systems include:

1. The industrial inflatable air beam shelter
2. Air locks for entry and egress
3. Toxic and flammable gas detection, indication, alarm, and control
4. Interior stand alone carbon filter recirculation units
5. Exterior deep bed activated carbon filter modules
6. Skid mounted HVAC system and associated flow control dampers
7. Emergency backup generator and associated switchgear and automatic transfer switch

SHELTER IN PLACE

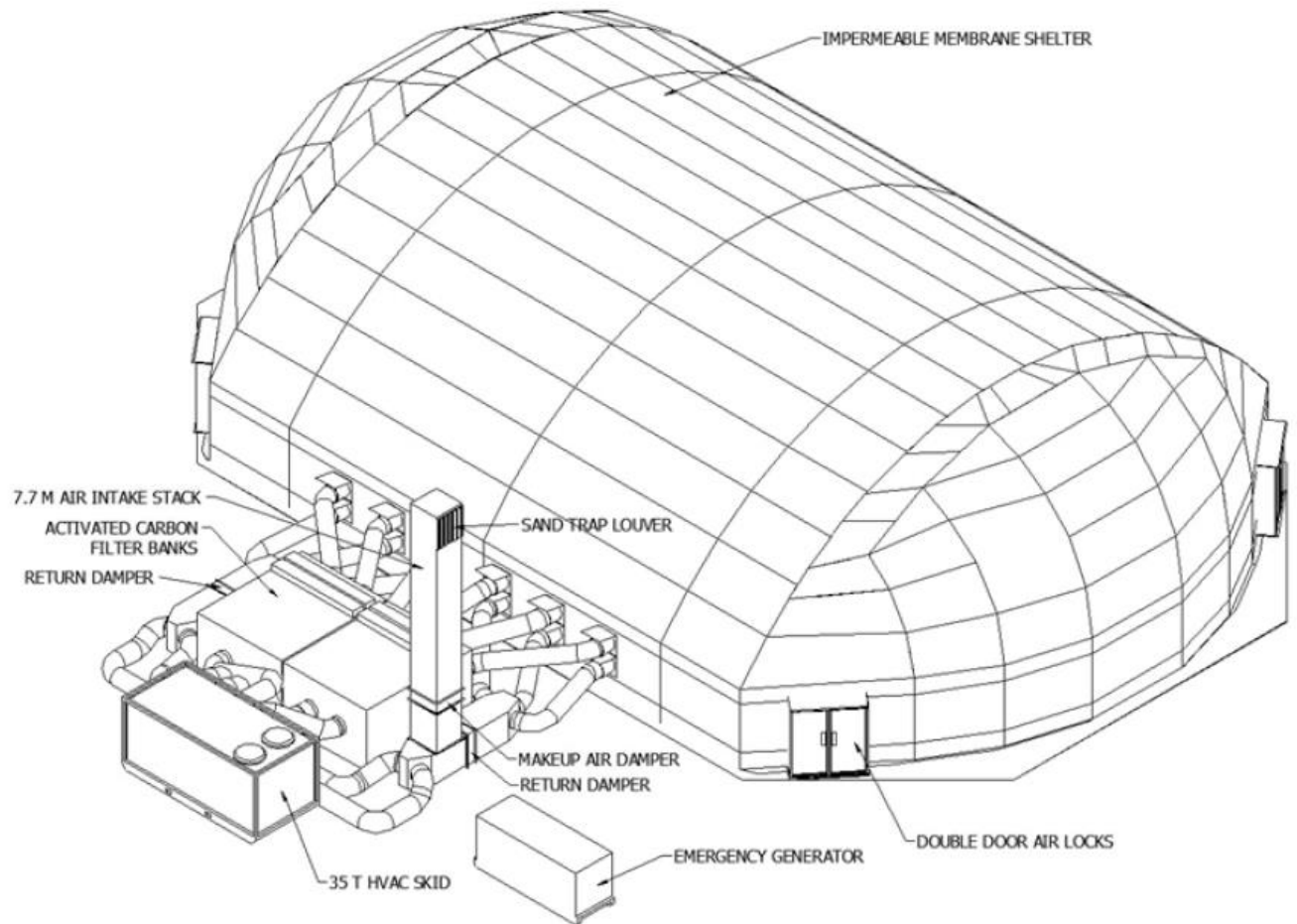
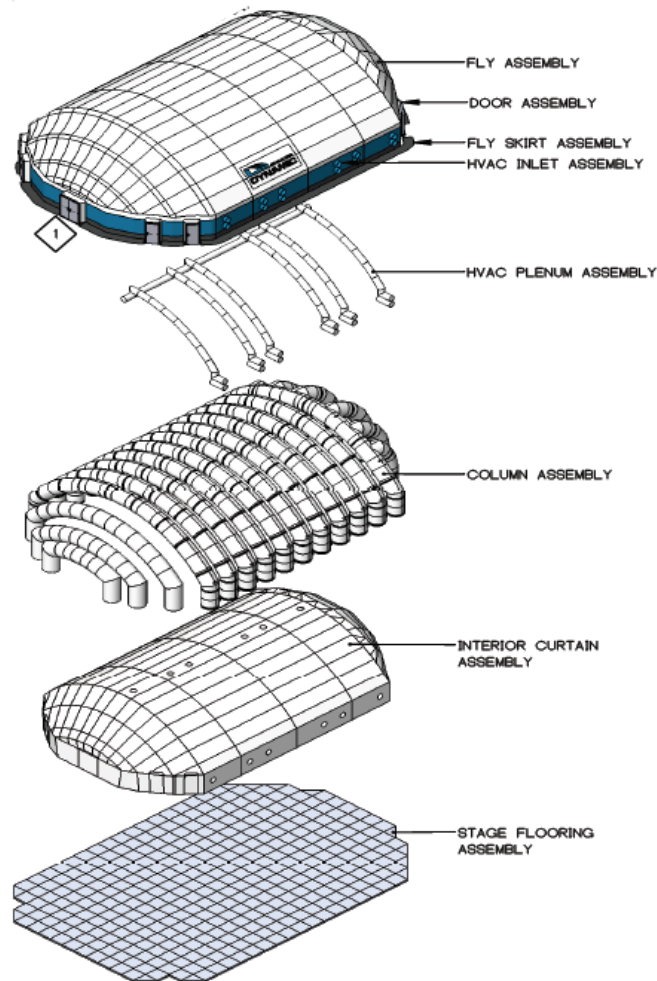


Figure 1: SIP general arrangement

SHELTER IN PLACE



The figure below illustrates the construction of the 62 ft x 95 ft industrial air beam shelter:



SHELTER IN PLACE

Figure 3 illustrates the construction and dimensions of the air lock doors.

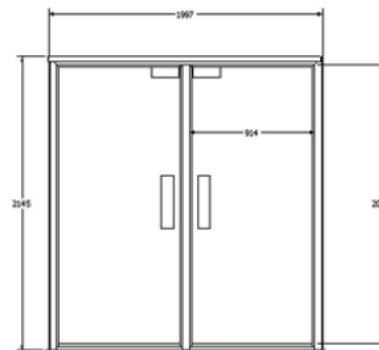
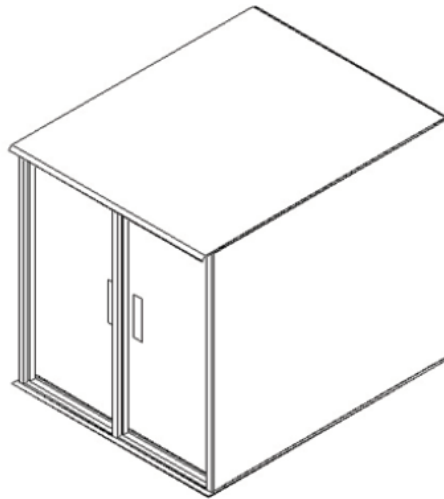


Figure 3: Air lock arrangement

SHELTER IN PLACE



SYSTEM OPERATION

The system operates in three modes:

Normal mode:

The fresh air makeup flow control damper is set to provide the makeup fresh air required by occupancy. All air supplied to the shelter, recirculated plus fresh air passes through the in line activated carbon filter bed. The shelter is pressurized by the installed HVAC system.

Emergency mode:

When an exterior toxic gas alarm is received the fresh air makeup flow control damper closes down to restrict fresh air makeup to the minimum allowed for occupancy in the emergency mode (2 l/s per person). The system continues to provide this lower amount of outside makeup air while maximizing recirculation. All air passes through the in line activated carbon filter beds. The shelter is pressurized by the installed HVAC system.

Emergency recirculation mode:

When an alarm is received (7 ppm) in any HVAC system duct or inside the shelter or any airlock the system goes into emergency recirculation mode. The HVAC system will shutdown and the fresh air makeup flow control damper will fully shut to seal off the outside air. The return dampers will also shut. The two installed Purafil CA 4000 units will start and the shelter operates on internal recirculation without pressurization.

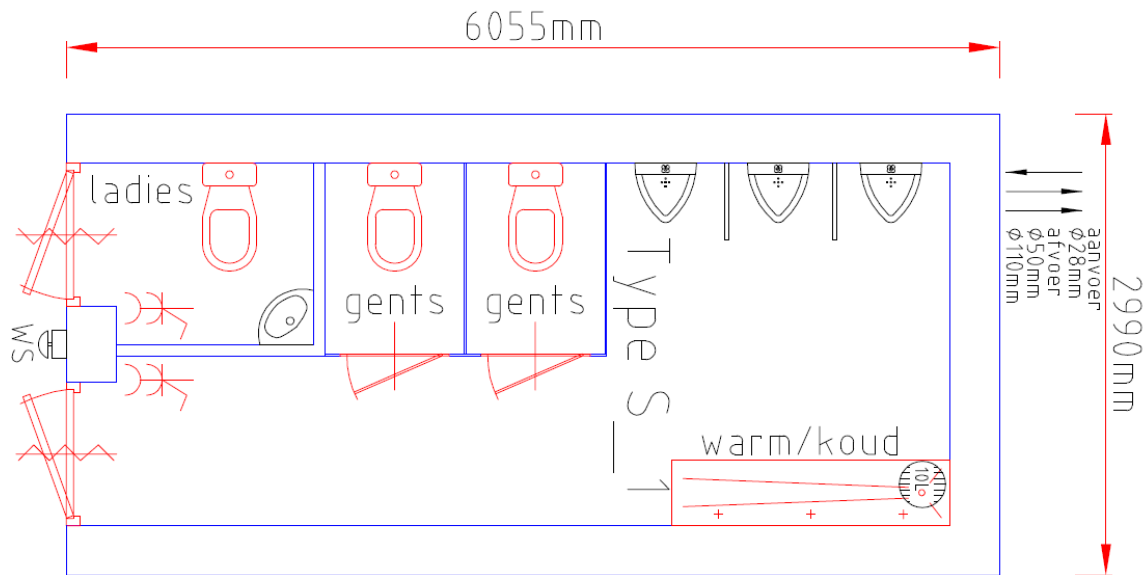
HUNTER BUILDINGS



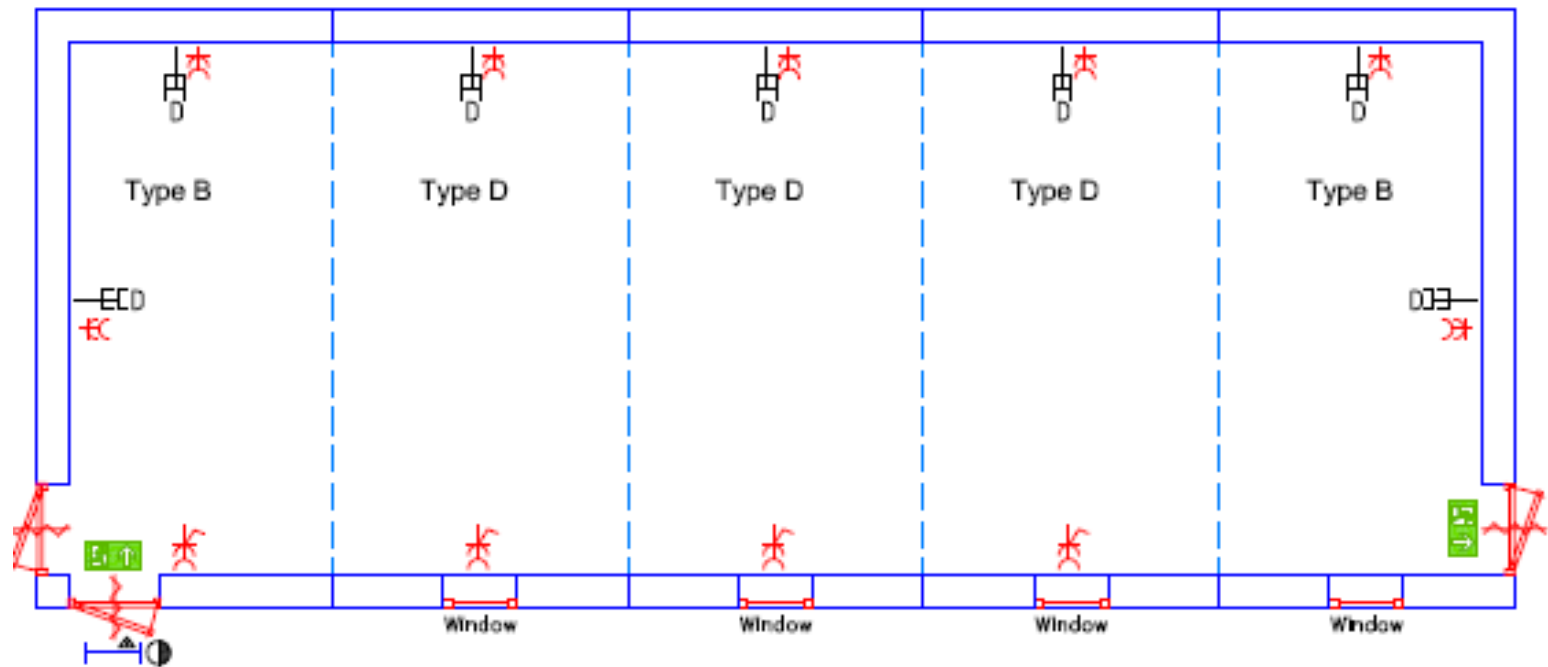
BLAST RESISTANT MODULES

- Blast-free around all zones
- First in Europe to offer them on a rental basis
- 4 data and telephone connections cat. 6 inside ready to plug and play, installation only outside to be connected.
- HVAC
- Electrical safety switch
- The module requires no foundation only industrial tiles
- Windows allowing daylight in the module
- Stand-alone or multi-unit flexible layout designs

LATEST DEVELOPMENTS BR RENTAL FLEET



LATEST DEVELOPMENTS BR RENTAL FLEET



Flexibel bouwen, goed geregeld en snel!

