

40 Men Blast Proof H₂S Shelter



Uniteam 40-men SIP is SIL-2 certified system and is a customized solution built for easy transportation and relocation. It is built by 2 sets of 51ft containers size consisted, fire rating A-60 and blast protected 690mbar/20msec.

The sealing between the containers is solved by Uniteam patented GSSP gaskets which gives fast deployment of the SIP on site, with minimum downtime of the ongoing production.

With compressed airbreathing system, it will protect employees for more than 2 hours during an emergency situation. F&G system with SIL-2 approval MIMIC panel will make sure your warnings are informative and correct.

The shelter with positive pressure system, main room and equipment room with pressure 50~75pa, air lock and battery room pressure is 25pa.

The 2x51ft containers are used as Muster Area (Approx. 30 Sqm, included 2 units toilet rooms). Another 51ft Container contains 3 rooms, one room used for the Breathing Air Bottle Bank, PRP Cabinet, AHU system, Power Distribution Panel and PLC system, batteries and UPS are located in one of separate room (A60 fire class). The third room is air lock, people entering the main room need to pass through this room first.

The main room has long stools for 40 men, at below of stools storage 40 sets of breathing masks, portable gas detector and first aid kit, used for emergency escape. The outdoor roof is equipped with a 360-degree rotating camera to monitor the outdoor conditions.

Specification

Structural	
2x51ft High Cube Container	Size: L x W x H 15500 x 4500 x 3000mm
Insulation	25mm B15 panel + 50mm Rockwool
Fire rating	A-60 fire class
Blast protected	690 mbar / 20msec
Doors	A-60 Heavy duty gas tight& blast
Painting	Offshore painting
Evacuation time	40 men 2 hours
Electrical	
UPS	2hour for emergency equipment
Cables	Acc. to Offshore and petroleum
ATEX zone approval	1, 2 and safe area
Instrumentation	
Detectors	Internal H2S/CH4/CO2/CO/O2/SO2/H2, External H2S/CH4
Airlock	With interlock system activated in emergency situation
Over pressure	50Pa in Muster room/Equipment room/25Pa in Air-Lock
HVAC	
Breathing Air system	2hours +20% with SIL-2 operation and manual override
HVAC system	With SIL-2 monitoring and shutdown
AC External	EX ATEX zone 1