20 Men Blast Proof H₂S Shelter



This 20 Men Blast Proof H2S Shelter from Uniteam is a customized solution for easy transport and relocation. It is built by 1x50' container with A-60 fire rating and blast proof protection with 690mbar for 20msec.

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

The Shelter consists of Airlock Area and Battery Room with 25~50Pa overpressure, Muster Room and Equipment Room with 50~75Pa overpressure.

Muster Room is approx.16.5 Sqm and equipped with 2 toilets and long stools where stores SCBA, portable gas detectors and first aid kits for 20 men using in an emergency evaquation. Equipment Room is used for installing Breathing Air Bottle Bank, PRP Cabinet, Power Distribution Panel and PLC system, Batteries are located in a separate room which is A60 fire rating.

People are requested to enter Airlock area first before going to the Muster room in case of bring in toxic gas.

A 360-degree rotating camera on the roof can monitor the external environment timely.



Specification

Structural	
1x50ft High Cube Container	Size: L x W x H 15000 x 3000 x 3000 mm
Insulation	25mm B15 panel + 50mm thickness Rockwool
Fire rating	A-60 fire rating
Blast protected	690 mbar / 20msec
Doors	A-60 Heavy duty gas tight & blast
Painting	Offshore painting
Evacuation time	2 hours + 20%
Electrical	
UPS	2 hours 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/Smoke detector
Airlock	With interlock system activated in emergency situation
Over pressure	50~75Pa in Muster room/Equipment room, 25Pa~50Pa in Air Lock and Battery room
HVAC	
Breathing Air system	2hours +20% with SIL-2 operation and manual override
HVAC system	Split AC unit & fresh air fans (redundant)
AC External	EX ATEX zone 1

