

# Deployable Infrastructure



[marshallgroup.com](http://marshallgroup.com)



**MARSHALL**



## Overview

Marshall's deployable infrastructure products are designed and built to support a broad range of military, humanitarian and civilian missions in even the most extreme operating environments.



MILITARY



HUMANITARIAN



CIVIL



All of our containers are designed for mobility: in addition to being transportable by air, sea, road and rail, they can be stacked in accordance with ISO1496 for ease of storage and movement, and are rapidly deployable once on site.

Built from our highly standardised design principles, our containers offer a wide range of size and equipment choices during initial configuration, while their modular design supports rapid reconfiguration and greatly reduces the complexity of maintenance and repairs in the field.

All our containers are CSC certified, comply with standards in the most highly regulated markets, and have a baseline 20 year service life that can be extended through our overhaul programmes.

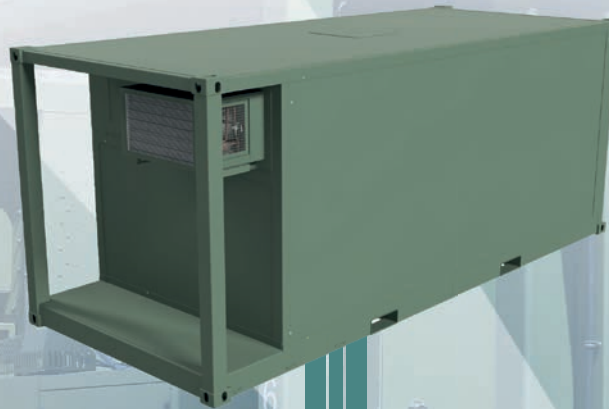


# Deployable Infrastructure Base Platforms Overview

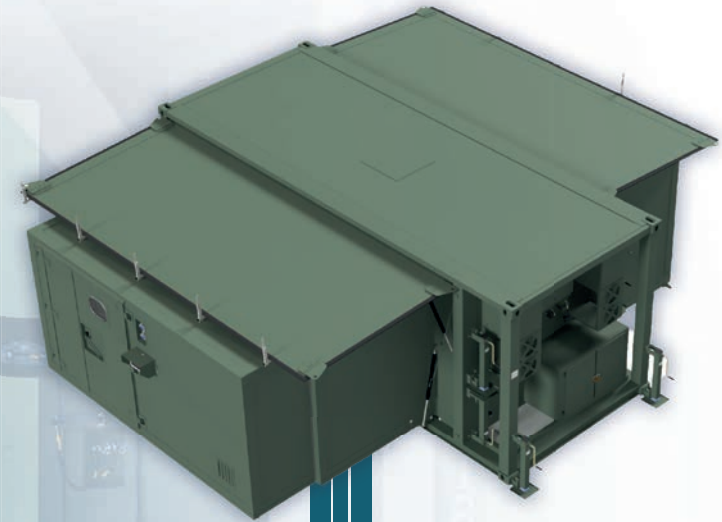
Marshall Deployable Infrastructure solutions are designed from our three core base platforms



10 ft ISO



20 ft ISO



20ft Expandable ISO





# Deployable Infrastructure Modularity & Standardisation

Marshall Deployable Infrastructure incorporates modularity and standardisation throughout the Product range

- ISO 668 external dimensions
- Modular Technical End and Subsystems (HVAC, Diesel Heater, CBRN, Generator, Storage Lockers)
- Modular Electrical, EMC/RF Shielding and Lighting System options
- Modular Interior Equipment attachment system & Multiple Internal configuration options
- Standard Door and Platform Options

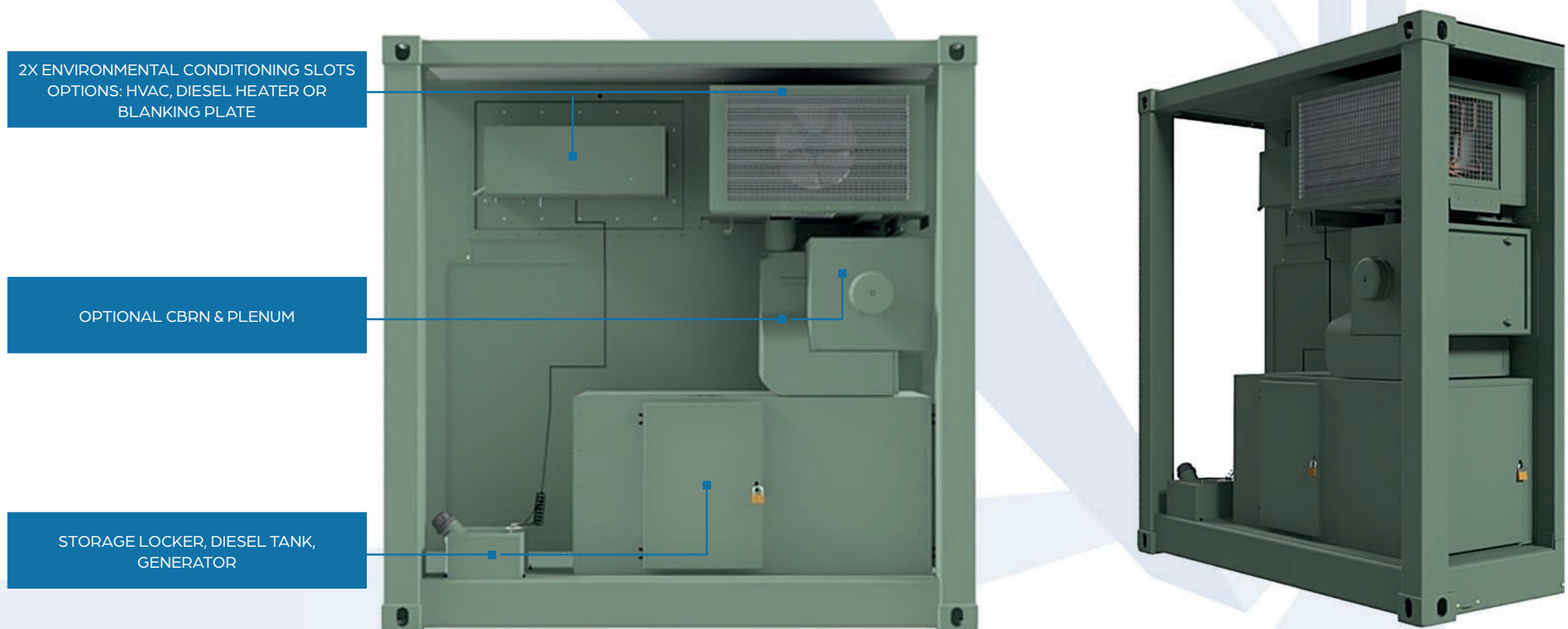


# Deployable Infrastructure

## Modularity – Technical End

Technical End:

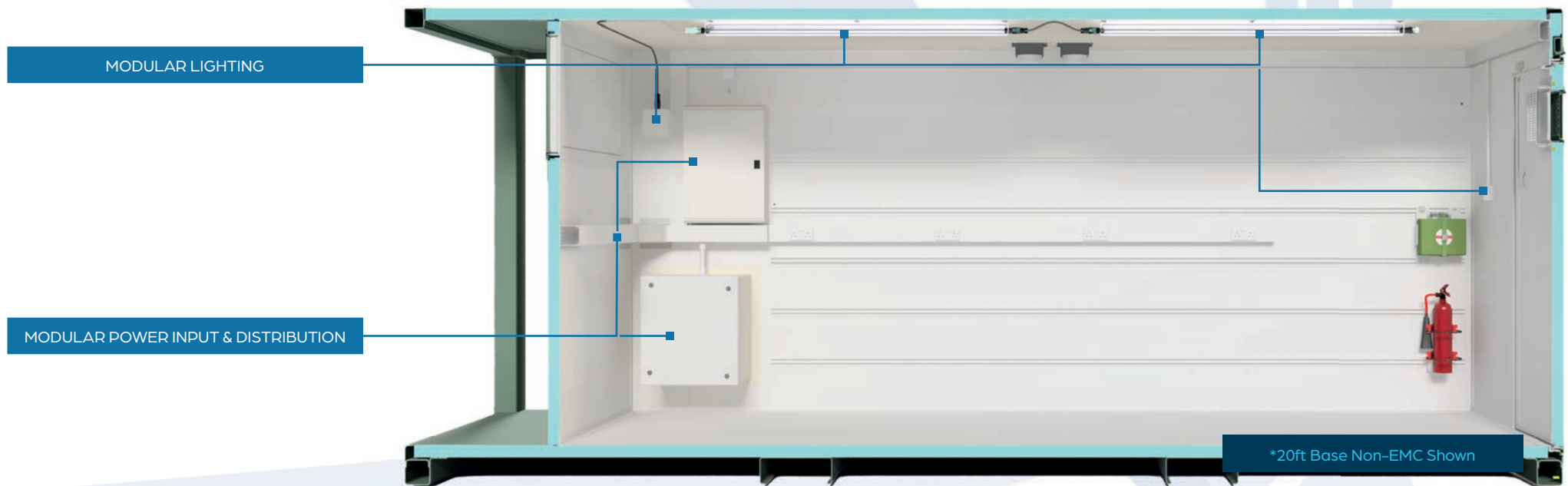
- The Technical End is designed to enable reconfigurability and modularity of sub-systems options.
- Two size Technical ends are available; 750mm & 1000mm.
- The Technical end ensures all sub-systems remain inside the "ISO Envelope", whilst maximising internal container space
- The 1000mm Technical End provides all the modularity of the 750mm, whilst also supporting an 18kW Generator option



# Deployable Infrastructure Modularity – Electrical

Modular Electrical, EMC/RF Shielding and Lighting System options:

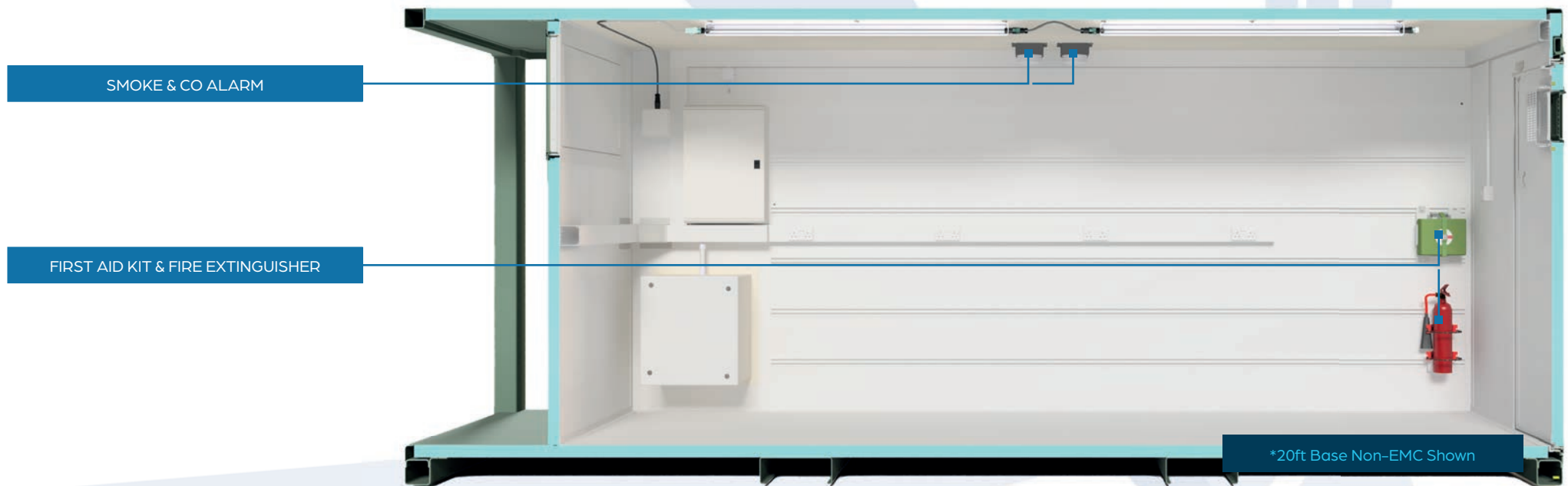
- 32A, 63A, 125A, 400VAC 50hz, 3 Phase Electrical Systems – EU\*
- Modular Socket Circuits with regional outlet options
- Modular “Plug and Play” Lighting System, Options for additional Lighting, Tactical & Emergency Lighting
- Provisions for EMC Power Filtration and Structural EMC Sealing



# Deployable Infrastructure Modularity – Safety

Safety Systems are fitted as standard:

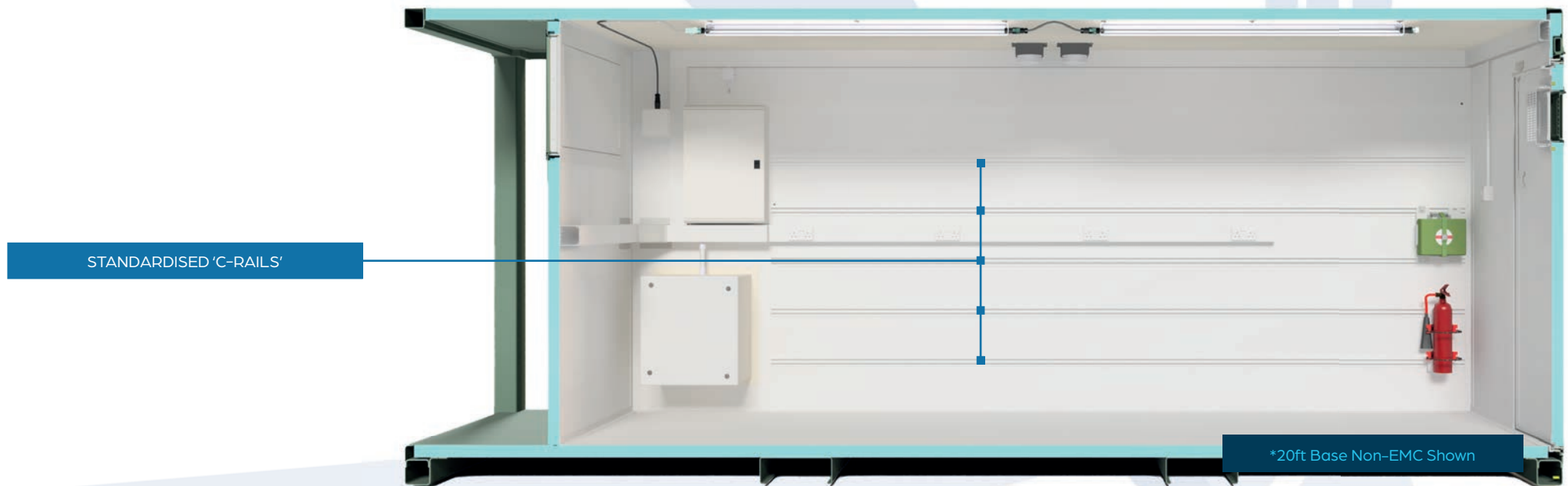
- ■ Smoke and Carbon Monoxide Detector
- ■ First Aid Kit
- ■ Fire Extinguisher – Regional Specific



# Deployable Infrastructure Modularity – Internal Fit

The Marshall Modular Mounting System enables reconfiguration of internal layouts:

- ■ Standard Pitch 'C-Rails' on the side wall and floor of the container
- ■ All Marshall Interior designs are standardised to utilise the Modular Mounting System





# Deployable Infrastructure Modularity – Doors & Platforms

Marshall offer two door sizes as standard

- 900mm door for personal access
- 1200mm door for pallet and personal access – EU Pallett
- Platform with steps available\*



# Deployable Infrastructure Base Platforms Overview

Marshall Deployable Infrastructure Base Platforms are preconfigured with subsystems based on 75 years of NATO proven capability.

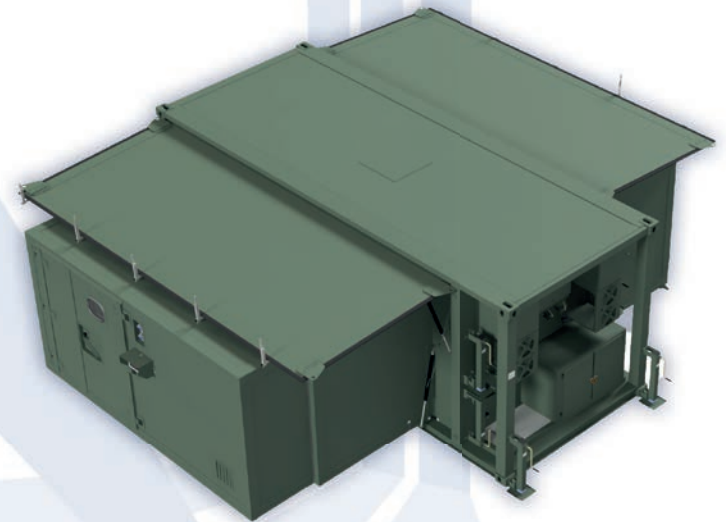
- Base containers offer all the essential sub systems ready for customer interior fit out:
- Main Structural configuration including Modular Mounting System
- Environmental Conditioning Systems
- Electrical Power Distribution and Lighting
- Safety Systems



10 ft ISO 1D



20 ft ISO 1C

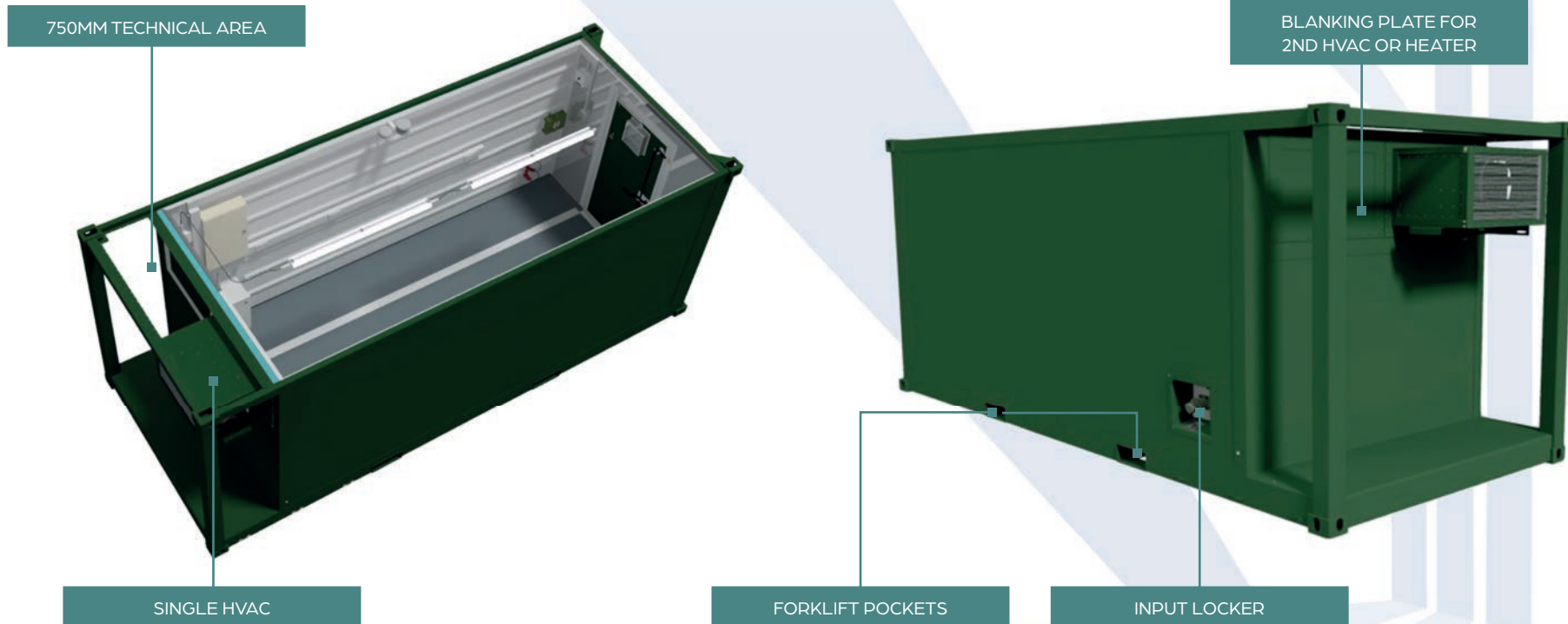


20ft Expandable ISO 1C

# Deployable Infrastructure Base Platform (20ft) 1C

Part Number S4005418

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## ELECTRICAL POWER OPTIONS

- 32A – Power Pack – Lite
- ☐ 63A – Power Pack – Base
- 125A – Power Pack – Plus



## ELECTRICAL SYSTEMS OPTIONS

### Power-outlets

- ☐ Power-outlet Pack – Base
- Power-outlet Pack – Plus



### Lighting

- ☐ Lighting Pack – Base
- Tactical Pack – Base
- Lighting Pack – Plus
- Tactical Pack – Plus



## SAFETY SYSTEM OPTIONS

- ☐ Emergency Lighting
- ☐ Smoke Detection
- ☐ Carbon Monoxide Detection
- ☐ Fire Extinguishing Equipment



### Key

- ☐ Standard with base Product
- Option



FRONT VIEW



INSIDE LHS



INSIDE RHS



REAR VIEW

## STRUCTURAL CONFIGURATION OPTIONS

### Doors

- ☐ Single 900mm wide
- Single 1200mm wide
- Double Door



### Technical Compartment Options

- None
- ☐ 750mm Deep
- 1000mm Deep



### Modular Wall-mount System

- C-Rail Pack – Base
- ☐ C-Rail Pack-Plus



## ENVIRONMENTAL SYSTEM OPTIONS

### Climatic Control

- Climate Pack – Lite
- ☐ Climatic Pack – Base
- Climatic Pack – Plus



### CBRN

- ☐ None
- Integrated CBRN Pack\*
- Standalone CBRN Pack



### Fresh Air Fan

- ☐ Fan Pack-Lite
- Fan Pack – Base
- Fan Pack – Plus



\*Available with Climatic Pack – plus



## **SHELTER**

- Exterior Dimensions 6058mm L x 2438mm W x 2438mm H
- Interior Dimensions 5004mm L x 2260mm W x 2148mm H
- 9 – High Stackability
- 750mm technical area
- Fire retardant walls with <100mm/min propagation speed
- Rear door 1900mm H x 900mm W
- Rear door lock with 3 point mechanism
- Door opening allows full access to door aperture
- 176mm Recessed end wall for optional operating platform
- Exterior paint to withstand Class C medium corrosion
- Compliant for use with EPLS

## **ELECTRICAL**

- 400Vac 63A 50Hz 3 Phase with capability to 125A
- 17kW available power with container systems powered
- Lightning strike protected
- Integrated surge suppressor
- 4 total double sockets (2 per wall)
- LED ceiling lighting with shock and vibration resistant lights

## **MISCELLANEOUS**

- Provisioned for emergency lighting
- CO2 Fire extinguisher
- First aid kit
- CO / Smoke alarm
- Approx. weight 2,300kg
- Transportable by Air, Sea, Road and Rail
- CSC certified
- 20 year service life with life extending repairs or modifications possible
- Designed for, but not fitted with, roof restraint system installation

## **ENVIRONMENTAL**

- Operational in NATO climate conditions A1 (49C) to C1 (-32C)
- Withstands salt spray, driving rain, sand, and snow
- Withstands wind gusts of 180kph (storage) and 108kph (operating)
- Capable of roof loading up to 370kg/m2 (snow loading)
- 5.5kW cooling capacity for internal temp of 18-25C
- Working area noise <65dBA
- Air filter E10 – Course 60%
- Optional CBRN filtration

# Deployable Infrastructure Base Platform (10ft) 1D

Part Number S4002318

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## ELECTRICAL POWER OPTIONS

- 32A – Power Pack – Lite
- ☐ 63A–Power Pack–Base
- 125A – Power Pack – Plus



## ELECTRICAL SYSTEMS OPTIONS

### Power-outlets

- ☐ Power-outlet Pack–Base
- Power-outlet Pack – Plus



### Lighting

- ☐ Lighting Pack–Base
- Tactical Pack – Base
- Lighting Pack – Plus
- Tactical Pack – Plus



## SAFETY SYSTEM OPTIONS

- ☐ Emergency Lighting
- ☐ Smoke Detection
- ☐ Carbon Monoxide Detection
- ☐ Fire Extinguishing Equipment



### Key

- ☐ Standard with base Product
- Option



FRONT VIEW



REAR VIEW

## STRUCTURAL CONFIGURATION OPTIONS

### Doors

- ☐ Single 900mm wide
- Single 1200mm wide
- Double Door



### Modular Wall-mount System

- C-Rail Pack – Base
- ☐ C-Rail Pack–Plus



## ENVIRONMENTAL SYSTEM OPTIONS

### Climatic Control

- Climatic Pack – Lite
- ☐ Climatic Pack – Base
- Climatic Pack – Plus



### CBRN

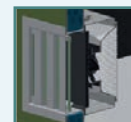
- ☐ None
- Standalone CBRN Pack



### Fresh Air Fan

- ☐ Fan Pack – Lite
- Fan Pack – Base
- Fan Pack – Plus

\*Available with Climatic Pack – plus





### SHELTER

- Exterior Dimensions 2991mm L x 2438mm W x 2438mm H
- Interior Dimensions 2812mm L x 2260mm W x 2144mm H
- 3 – High Stackability
- Structure EMC rated to 60dB
- Fire retardant walls with <100mm/min propagation speed
- Rear door 1900mm H x 900mm W
- Rear door lock with 3 point mechanism
- Exterior paint to withstand Class C medium corrosion
- Compliant for use with EPLS

### ELECTRICAL

- Compatible with Marshall Standard Electrical Architecture
- Lightning strike protected
- Integrated surge suppressor
- 4 total double sockets (2 per wall)
- LED ceiling lighting with shock and vibration resistant lights

### MISCELLANEOUS

- Provisioned for emergency lighting
- Fire extinguisher
- First aid kit
- CO / Smoke alarm
- Approx. weight 1200kg
- Transportable by Air, Sea, Road and Rail
- CSC certified
- 20 year service life with life extending repairs or modifications possible
- Designed for, but not fitted with, roof restraint system installation

### ENVIRONMENTAL

- Operational in NATO climate conditions A1 (49C) to C1 (-32C)
- Withstands salt spray, driving rain, sand, and snow
- Withstands wind gusts of 180kph (storage) and 108kph (operating)
- Capable of roof loading up to 370kg/m2 (snow loading)
- 4kW cooling capacity for internal temp of 18-25C
- Working area noise <65dBA
- Single ACU installation

# Maintenance Range





# Light Workshop Overview

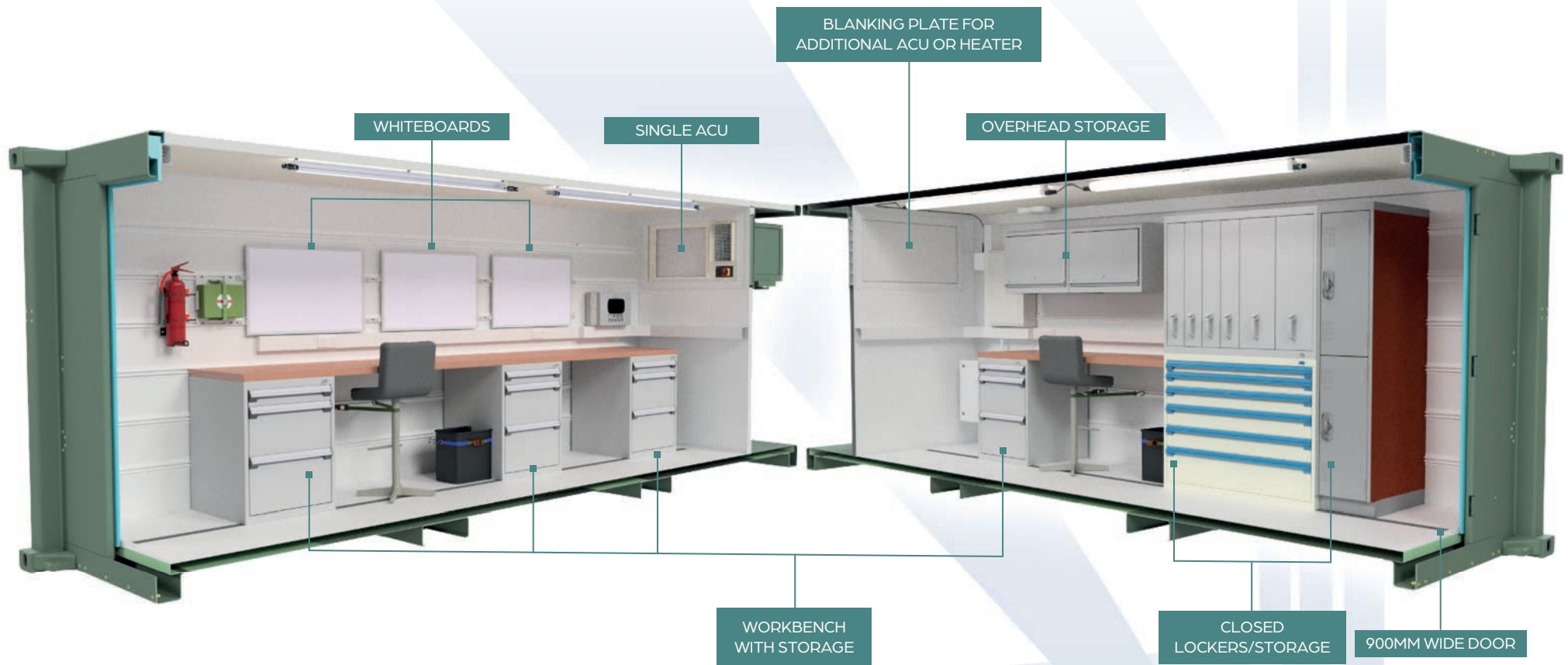
## S4001479 (20ft)

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# Light Workshop Default Layout S4001479 (20ft)

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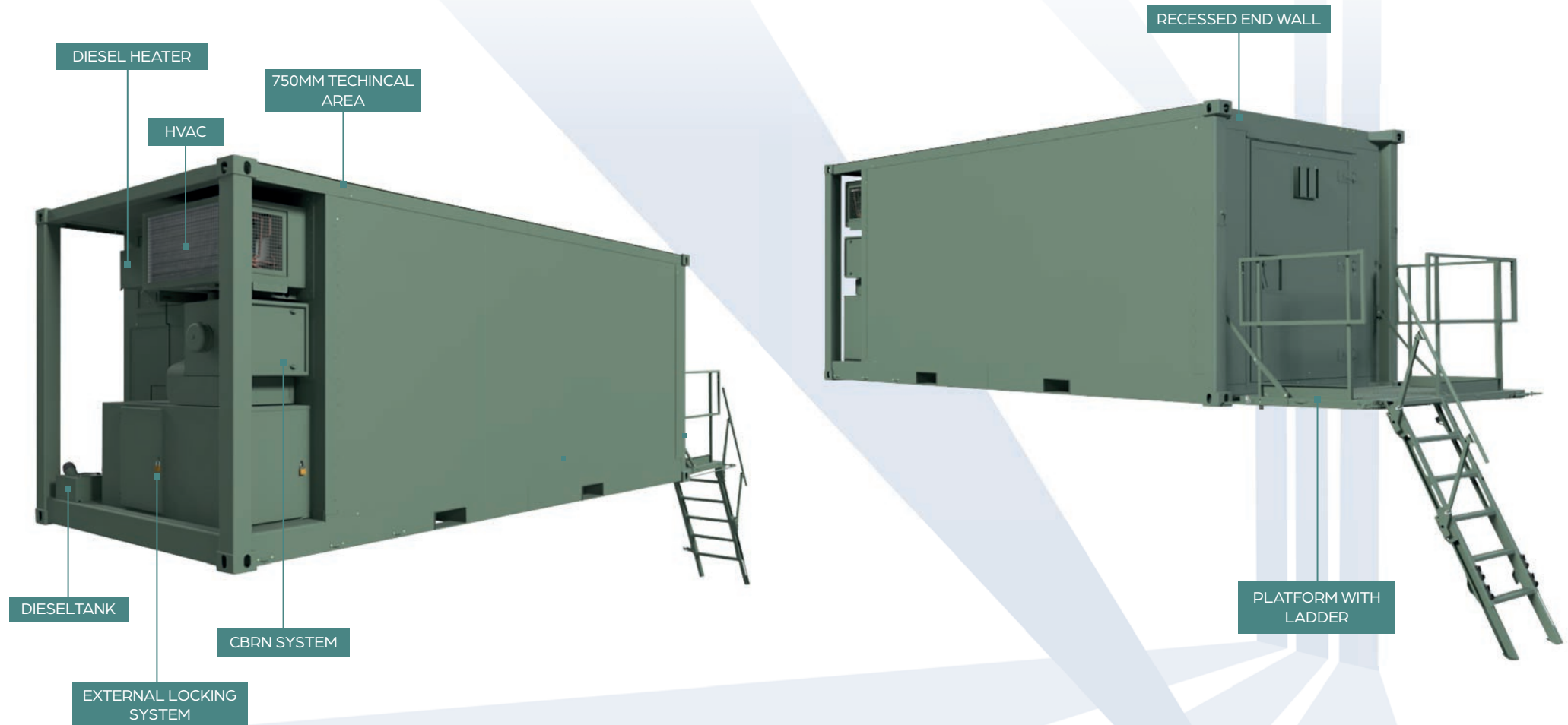
# Light Workshop Default Layout

## S4001479 (20ft)

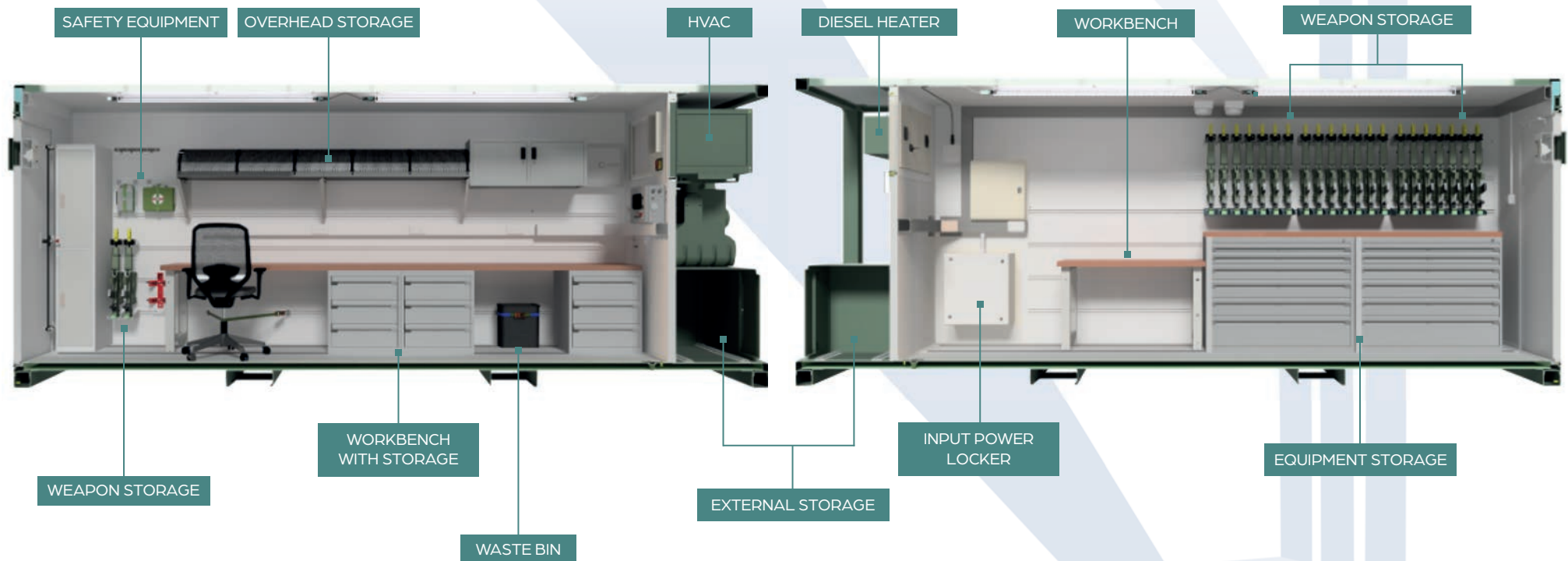
<b>SHELTER</b>	Base Container structure
	Single ACU
	750mm technical area
	400Vac 63A
	176mm Recessed end wall
	Fresh air sufficient for 3 occupants
<b>FURNISHING</b>	Equipment and furnishing designed for 5th percentile female and 95th percentile male in accordance with DEF STAN 00-251
	4 UK double sockets (2 per side)
	Provisioned for emergency lighting
	Lighting provides at least 540 Lux at working height
<b>MISCELLANEOUS</b>	Provisioned for emergency lighting
	CO2 Fire extinguisher
	First aid kit
	CO / Smoke alarm
	Maximum weight below 4500kg



# Armourer Repair Exterior Layout S4004285 (20ft)



# Armourer Repair Workshop Default Layout S4004285 (20ft)



# Armourer Repair Workshop Layout

## S4004285 (20ft)

**SHELTER**

- Base Container structure
- Access ladder and platform
- 400Vac 32A 3 Phase
- Single ACU and Diesel Heater
- 750mm technical area
- CBRN filtration system

**FURNISHING**

- Overhead cabinet 530h x 760w x 350d (mm)
- Floor cabinets 965h x 1200w x 610d (mm)
- Floor cabinets 965h x 1200w x 610d (mm)
- Floor cabinets 710h x 610w x 610d (mm)

**MISCELLANEOUS**

- CO2 Fire extinguisher
- First aid kit
- Eye wash station
- CO / Smoke alarm

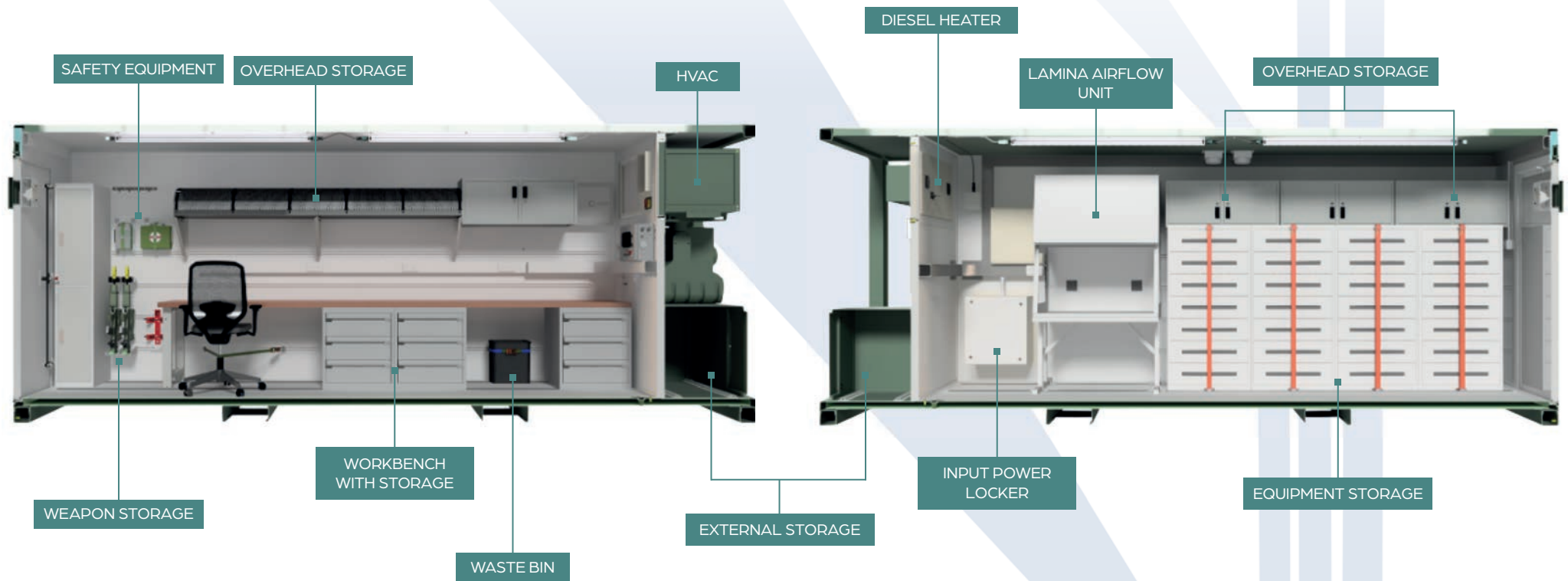
# Optics Workshop Exterior Layout S4004284 (20ft)





# Optics Workshop Interior S4004284 (20ft)

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# Optics Workshop Layout

## S4004284 (20ft)

**SHELTER**

- Base Container structure
- Access ladder and platform
- 400Vac 32A 3 Phase
- Single ACU and Diesel Heater
- 750mm technical area
- CBRN filtration system

**FURNISHING**

- Overhead cabinet 530h x 760w x 350d (mm)
- Floor cabinets 1930h x 380w x 606d (mm)
- Floor cabinets 1470h x 760w x 610d (mm)
- Floor cabinets 710h x 610w x 610d (mm)

**MISCELLANEOUS**

- CO2 Fire extinguisher
- First aid kit
- Eye wash station
- CO / Smoke alarm

# Technicians Module Workshop Exterior Layout S4004286 (20ft)



# Technicians Module Workshop Overview

## S4004286 (20ft)







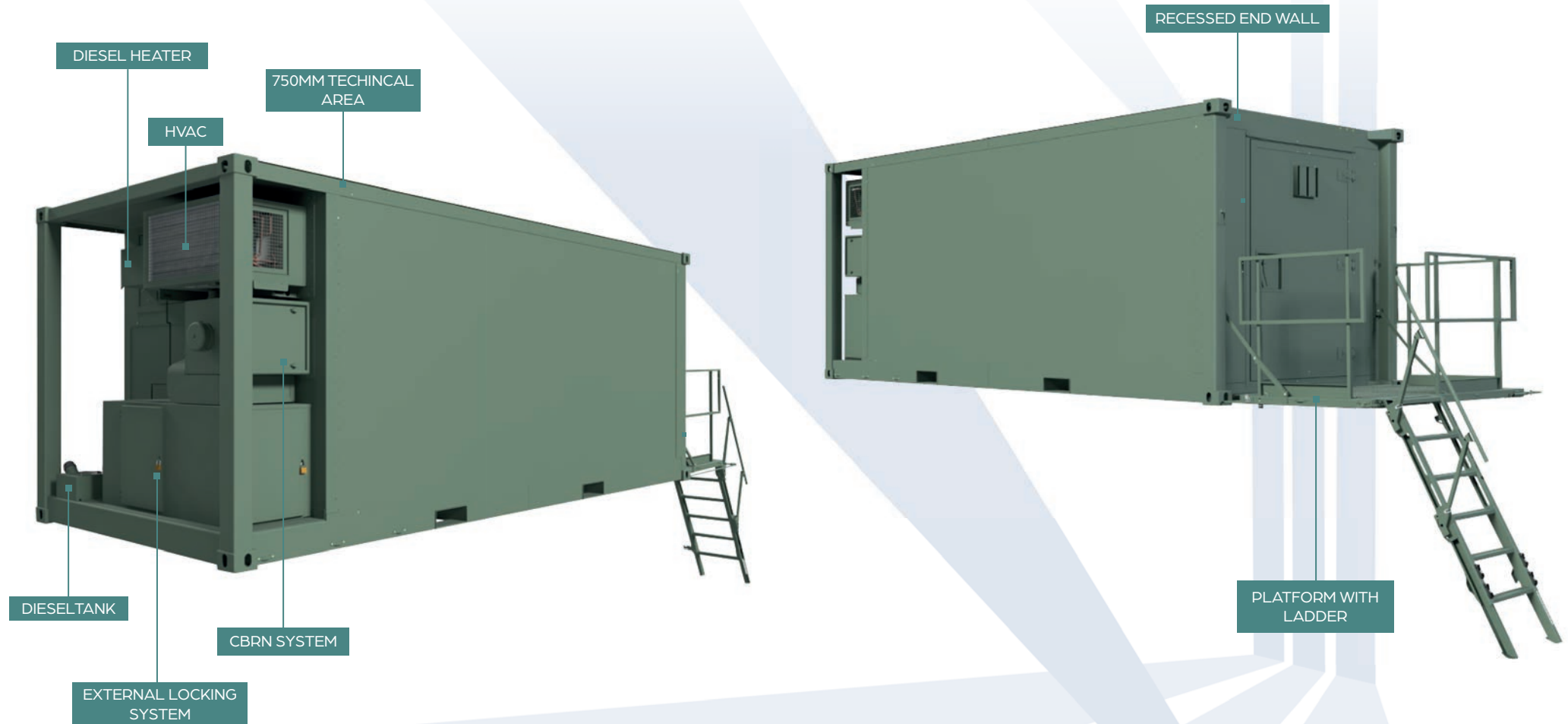
# Technicians Module Workshop Layout

## S4004286 (20ft)

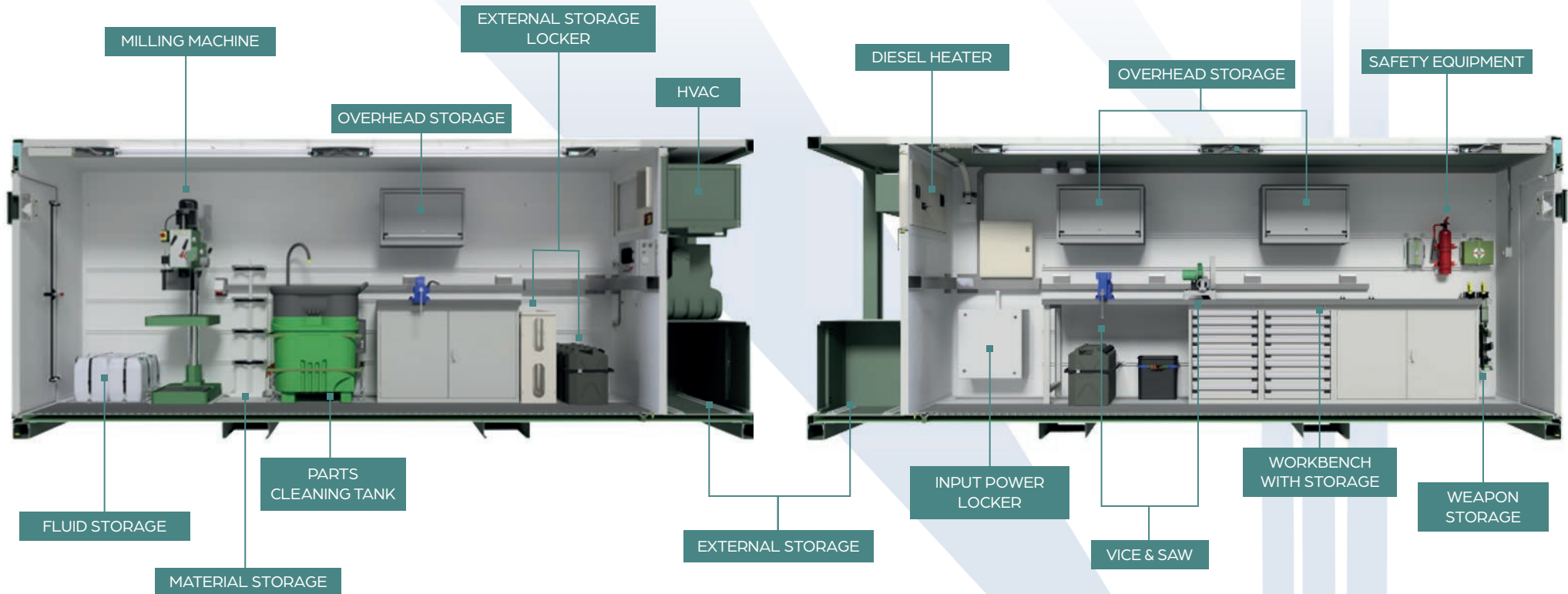
SHELTER	Base Container structure
	Access ladder and platform
	400Vac 32A 3 Phase
	Single ACU and Diesel Heater
	750mm technical area
	CBRN filtration system
FURNISHING	Overhead cabinet 530h x 760w x 350d (mm)
	Floor cabinets 1930h x 380w x 606d (mm)
	Floor cabinets 1470h x 760w x 610d (mm)
	Floor cabinets 710h x 610w x 610d (mm)
MISCELLANEOUS	CO2 Fire extinguisher
	First aid kit
	Eye wash station
	CO / Smoke alarm

# Heavy Repair Workshop Overview

## S4004713(20ft)



# Heavy Repair Workshop Internal S4004713(20ft)





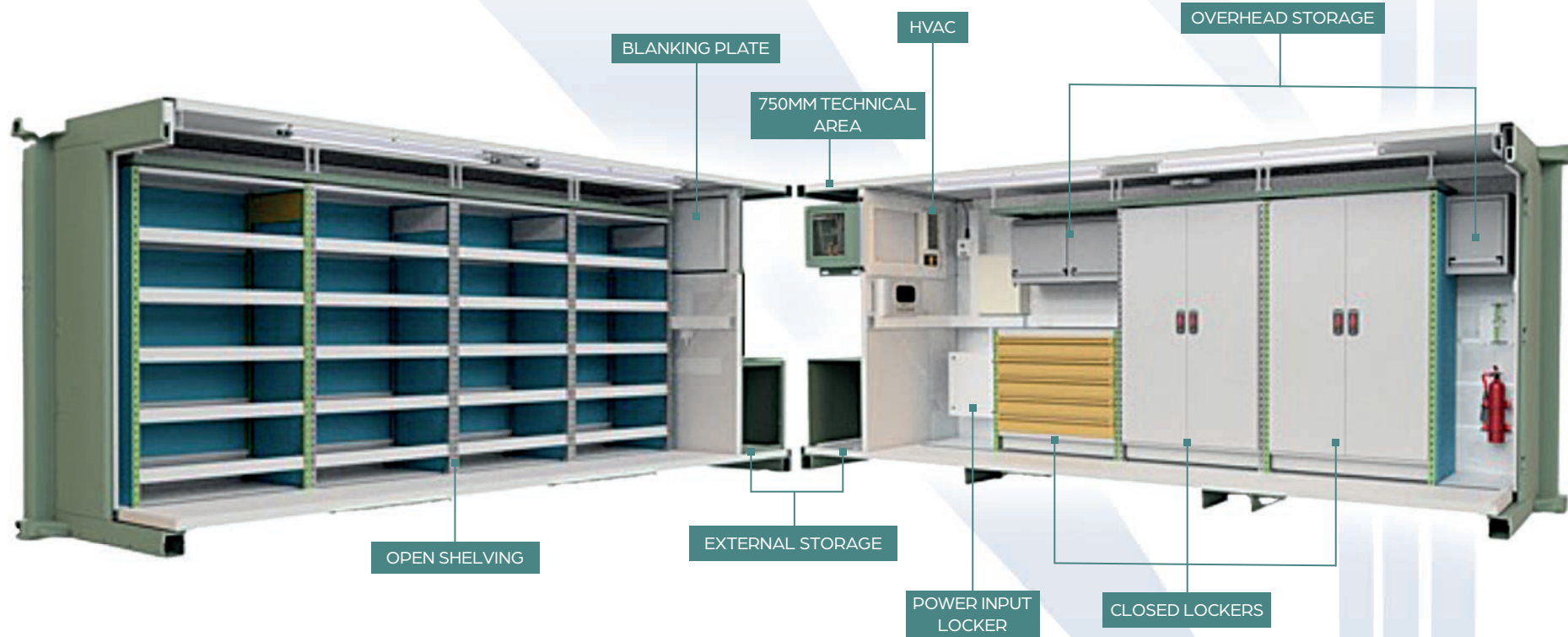
# Heavy Duty Default Layout

## S4004713 (20ft)

<b>SHELTER</b>	Base Container structure
	Access ladder and platform
	400Vac 32A 3 Phase
	Single ACU and Diesel Heater
	750mm technical area
	CBRN filtration system
<b>FURNISHING</b>	Overhead cabinet 530h x 760w x 350d (mm)
	Floor cabinets 860h x 1220w x 610d (mm)
	Floor cabinets 860h x 610ww x 610d (mm)
	Floor mounted Milling Machine
	Cut off saw & Vice x2
	Bench mounted grinder
<b>MISCELLANEOUS</b>	CO2 Fire extinguisher
	First aid kit
	Eye wash station
	CO / Smoke alarm



# Storage Workshop Default Layout S4002386 (20ft)



## DOORS

- Single 900mm wide
- Single 1200mm wide
- Double Doors



## SIDE DOOR OPTIONS

- Single Door Egress
- Double Door Egress

## TECHNICAL COMPARTMENT OPTIONS

- None
- 750mm Deep
- 1000mm Deep



## ENTRY END

- None
- 176mm recessed wall
- 176mm recessed wall and platform

## MODULAR WALL MOUNT SYSTEM (MWS)

- C-Rail Pack-Base
- C-Rail Pack-Plus



- MLS modular Structural Configuration provides flexible options for customisation Including:
- Door sizes
  - 900mm Wide x 1900mm high (approx. 2'11 x 6'2) Single Door
  - 1200mm Wide x 1900mm high (approx. 3'11 x 6'2) Single Door – Pallet Access
  - Double Door
- Side Door Options
  - Single door egress on one wall
  - Double door egress on one expansion wall
- Technical Compartment Options
  - No technical compartment
  - 750mm (approx. 2'5) deep area for HVAC, exterior storage, CBRN, etc.
  - 1000mm (approx. 3'3) deep area for generator installation
- Entry End
  - No recess
  - 176mm (Approx. 7") recessed end wall for optional platform but platform is not installed.
  - 176mm (Approx. 7") recessed wall and folding platform installed
- Modular Wall-mount System enables for rapid re-configuration of internal "rolefit" capabilities utilising "Interior Packs"
  - Base pack: 6 rails per wall and 2 on floor
  - Plus pack: c-rails added to ceiling and end walls.

## Key

- Standard with base Product
- Option

## INPUT POWER

- 32A-Power Pack-Lite\*
- 63A-Power Pack-Base\*
- 125A-Power Pack-Plus\*



## POWER-OUTLETS

- Power-outlet Pack – Base
- Power-outlet Pack – Plus



## LIGHTING

- Lighting Pack – Base
- Tactical Pack – Base
- Lighting Pack – Plus
- Tactical Pack – Plus



- ☐ Emergency Lighting
- ☐ Smoke Detection
- ☐ Carbon Monoxide Detection
- ☐ Fire Extinguishing Equipment



- Mil-Standard connectors, with RCCB Circuit Protection, Overcurrent and Earth leakage protection and Modular Distribution Board.
- Base electrical system designed for 400VAC 50Hz or 208VAC 60Hz
- Power pack with regional specific outlets
- Base Pack: 4 double outlets – 8 outlets total
- Plus Pack: 8 double outlets – 16 outlets total
- White light only and optional Tactical Lighting configurations providing >540lux at working height
- Base pack: Two ceiling mounted Lights (20') or one ceiling mounted light (10')
- Plus pack: Three ceiling mounted Lights (20') or three ceiling mounted lights (10')
- Tactical Packs: Regional Tactical Lighting Configured
- MLS Safety Systems are fitted as standard and provide certified equipment for Emergency Lighting, Smoke Detection & Carbon Monoxide
- Regional specific certified Fire Extinguishers are fitted as standard

## Key

- ☐ Standard with base Product
- Option

## CLIMATE CONTROL

- Climate Pack – Lite
- Climate Pack – Base
- Climate Pack – Plus



## CBRN

- None
- Integrated CBRN Pack\*
- Standalone CBRN Pack



## FRESH AIR FAN

- Fan Pack – Lite
- Fan Pack – Base
- Fan Pack – Plus



\*Available with Climatic Pack – Plus

- Climatic Control\*
  - Lite – Single HVAC Non-Integrated CBRN C1 (–32°C) to A1 (+49°C)
  - Base – Integrated CBRN available C1+ (–40°C) to A1 (+49°C)
  - Plus – Dual HVAC Integrated CBRN available C2 (–46°C) to A1 (+49°C)
- Chemical, Biological, Radiological and Nuclear Protection
  - None – Designed for but not fitted with
  - Integrated – Contained inside ISO envelope
  - Standalone – Deployed outside ISO envelope
- Fresh Air Fan Systems are available to suit CBRN and EMC applications depending on Product configuration
  - Lite – Non-EMC, Non-CBRN
  - Base – EMC, Non-CBRN
  - Plus – EMC, CBRN

## Kit, Loose items, General tools, Heavy workshop

### Issue 1, D0062329

Name	Qty (each loose item)
Makita Cordless toolkit	1
Additional chargers	1
Additional batteries	7
LED Worklight	1
115mm Standard Vice	1
Removable Revolving head vice	1
Mechanic toolset + box Clarke CHT634	1
Metric Tap and Die Set CHT303	1
UNC Tap and Die Set CHT302	1
Imperial socket set	1
Imperial spanner set	1
Drill vice 6"	1
Drill Vee vice	1
Drill Compound table	1
Drill Cutting oil	1
Drill headsrock lubricant	1
Metal drill piece set CHT384	2
Metal milling piece set	2

Cut off Metal Saw Blade 305mm x 25.4mm 60T	2
115mm Angle Grinder Cutting Discs	20
115mm Angle Grinder flap discs	20
Makita Jigsaw blades	30
Recoprocating Saw Blades	30
165mm Circular saw blades	2
20L Jerry Cans	8
PPE Safety Glasses	4
PPE Cut Gloves	10
Battery Mounts (6 pack)	2
32A 230VAC 25m extension lead	0
0.9mm Flux Coated Welding Wire	10
Mig Tips	30
PPE Welding mask	1
Multitool Accessories	2
PPE Safety Goggles	4
ROWASH 03 General Degreasing Solution 20L	4
ROWASHER Filter Mat (box of 12)	1



**Kit, Loose items, General tools, Armour workshop**  
**Issue 1, D0062335**

Name	Qty
Armourers Tool case	1
ARMOURERS DRIFT No 2	1
ARMOURERS DRIFT No 5	1
Glock Advanced Armourer Kit	1
Cleaning Rods	1
L85/SA80 Weapons Cleaning Kit	1

Kit, Loose items, General tools, Engine and maintenace

Issue 1, D0062328

Name	Qty
LED Worklight	6
Additional chargers	2
Additional batteries	12
PPE Safety Goggles	1
Vehicle Mechanic Toolbox	2
TOOLBOX	2
PADLOCK	2
INSERT	2
HACKSAW SMALL	2
BLADE HACKSAW 6" (XX)	2
CIRCUIT TESTER (AFG1043)	2
TORCH	2
INSERT	2
EXTENSION 1/4 SQ DR 150mm	2
SPANNER OPEN 10 x 11mm	2
SPANNER OPEN 13 x 17mm	2
SPANNER OPEN 7/16x1/2	2
SPANNER OPEN 9/16x5/8	2
ADAPTOR 1/4-3/8 SQ DR	2
SOCKET 1/4DR 3/16 AF	2
SOCKET 1/4DR 7/32 AF	2
SOCKET 1/4DR 1/4 AF	2
SOCKET 1/4DR 5/16 AF	2
SOCKET 1/4DR 11/32 AF	2
SOCKET 1/4DR 3/8 AF	2
SOCKET 1/4DR 4mm	2
SOCKET 1/4DR 5mm	2
SOCKET 1/4DR 6mm	2
SOCKET 1/4DR 7mm	2
SOCKET 1/4DR 8mm	2
SOCKET 1/4DR 9mm	2
SOCKET 1/4DR 10mm	2
RATCHET 1/4IN SQ DR	2
ADAPTOR 3/8-1/2 SQ DR	2
SOCKET 3/8DR 7/16 AF	2

SOCKET 3/8DR 1/2 AF	2
SOCKET 3/8DR 9/16 AF	2
SOCKET 3/8DR 5/8 AF	2
SOCKET 3/8DR 11/16 AF	2
SOCKET 3/8DR 3/4 AF	2
SOCKET 3/8DR 11mm	2
SOCKET 3/8DR 12mm	2
SOCKET 3/8DR 13mm	2
SOCKET 3/8DR 14mm	2
SOCKET 3/8DR 15mm	2
SOCKET 3/8DR 16mm	2
SOCKET 3/8DR 17mm	2
UNIVERSAL JOINT	2
SOCKET 3/8DR 7/8 AF X-DEEP	2
EXTENSION 3/8DR 75mm	2
RATCHET 3/8IN SQ DR	2
KNUCKLE BAR	2
EXTENSION 3/8DR 300mm	2
EXTENSION 3/8DR 150mm	2
INSERT	2
SPANNER COMBI 8mm	2
SPANNER COMBI 9mm	2
SPANNER COMBI 10mm	2
SPANNER COMBI 11mm	2
SPANNER COMBI 12mm	2
SPANNER COMBI 13mm	2
SPANNER COMBI 14mm	2
SPANNER COMBI 15mm	2
SPANNER COMBI 16mm	2
SPANNER COMBI 17mm	2
SPANNER COMBI 18mm	2
SPANNER COMBI 19mm	2
INSERT	2
SPANNER COMBI 1/4 AF	2
SPANNER COMBI 5/16 AF	2
SPANNER COMBI 3/8 AF	2

SPANNER COMBI 13/16 AF	2
SPANNER COMBI 7/8 AF	2
SPANNER COMBI 15/16 AF	2
INSERT	2
SCREWDRIVER ELEC	2
SCREWDRIVER INSULATED	2
SCREWDRIVER PHILLIPS STUBBY	2
SCREWDRIVER FLAT STUBBY	2
SCREWDRIVER PHILLIPS No2	2
HANDLE FILE No 4	2
FILE ROUND	2
PUNCH 4mm	2
PUNCH 3mm	2
SCREWDRIVER LARGE FLAT	2
SCREWDRIVER SMALL FLAT	2
SCREWDRIVER PHILLIPS No1	2
HANDLE FILE No 6	2
FILE HALF ROUND	2
PUNCH 5/16	2
PUNCH 6mm	2
INSERT	2
BRASS DRIFT SMALL	2
BRASS DRIFT LARGE	2
PLIERS	2
NIPPERS	2
PLIERS SNIPE NOSE	2
CHISEL LARGE	2
CHISEL SMALL	2
PUNCH CENTRE	2
MOLE GRIPS	2
ADJUSTABLE 12"	2
ADJUSTABLE 4"	2
PIPE WRENCH	2
INSERT	2
RULE	2
HAMMER	2
HACKSAW LARGE	2

## Kit, Loose items, General tools, Engine and maintenace

### Issue 1, D0062328

BLADE HACKSAW 12" (EA)	2
HANDLE BIT SET	2
ADAPTOR BIT SET	2
SCREWDRIVER BIT 3mm	2
SCREWDRIVER BIT 4mm	2
SCREWDRIVER BIT 5mm	2
SCREWDRIVER BIT No1 PZD	2
SCREWDRIVER BIT No2 PZD	2
SCREWDRIVER BIT No3 PZD	2
HEX BIT 3mm	2
HEX BIT 4mm	2
HEX BIT 5mm	2
HEX BIT 6mm	2
HEX BIT 3/32	2
HEX BIT 1/8	2
HEX BIT 5/32	2
HEX BIT 3/16	2
HEX BIT 1/4	2
KNIFE	2
BLADE KNIFE	2
FEELER GAUGE MET	2
FEELER GAUGE IMP	2
Vehicle Mechanic Toolbox – Supplemental	2
TOOLBOX	2
PADLOCK	2
INSERT	2
RETRIEVAL TOOL	2
INSERT	2
UNIVERSAL JOINT	2
RATCHET 1/2 SQ DR (QTY 2)	2
ADAPTOR BIT SET 14mm	2
HEX BIT 5mm	2
HEX BIT 6mm	2
HEX BIT 8mm	2
HEX BIT 10mm	2
HEX BIT 12mm	2
HEX BIT 14mm	2

HEX BIT 3/16 AF	2
HEX BIT 7/32 AF	2
HEX BIT 1/4 AF	2
HEX BIT 5/16 AF	2
HEX BIT 3/8 AF	2
HEX BIT 1/2 AF	2
HEX BIT 9/16 AF	2
HEX BIT P21	2
HEX BIT P22	2
HEX BIT P23	2
HEX BIT P24	2
HEX BIT FLAT TIP 5.5mm	2
HEX BIT FLAT TIP 6mm	2
HEX BIT FLAT TIP 6.5mm	2
SOCKET 13/16 AF X-DEEP	2
SOCKET 14mm	2
SOCKET 13mm	2
SOCKET 12mm	2
SOCKET 11mm	2
SOCKET 10mm	2
EXTENSION 3in (QTY 2)	2
KNUCKLE BAR	2
SOCKET 20mm	2
SOCKET 19mm	2
SOCKET 18mm	2
SOCKET 17mm	2
SOCKET 16mm	2
SOCKET 15mm	2
SOCKET 27mm	2
SOCKET 26mm	2
SOCKET 24mm	2
SOCKET 23mm	2
EXTENSION 5in (QTY 2)	2
SOCKET 15/16 AF	2
SOCKET 7/8 AF	2
SOCKET 13/16 AF	2
SOCKET 3/4 AF	2

SOCKET 11/16 AF	2
SOCKET 5/8 AF	2
SOCKET 9/16 AF	2
SOCKET 1/2 AF	2
SOCKET 7/16 AF	2
SOCKET 3/8 AF	2
SOCKET 1" AF	2
SOCKET 1 1/16 AF	2
SOCKET 1 1/8 AF	2
SOCKET 1 3/16 AF	2
SOCKET 1 1/4 AF	2
EXTENSION 10in (QTY 2)	2
INSERT	2
F TYPE SPANNER	2
TAPE MEASURE	2
BRUSH FILE	2
SPANNER COMBI 1"	2
SPANNER COMBI 1 1/16"	2
SPANNER COMBI 1 1/8"	2
SPANNER OJ 19 x 22mm	2
SPANNER OJ 24 x 27mm	2
SPANNER OJ 30 x 32mm	2
SPANNER OJ 1 5/16 x 1 1/2"	2
SPANNER OJ 1 1/4 x 1 7/16"	2
SPANNER OJ 36 x 41mm	2
PLIERS SLIP JOINT	2
PLIERS RING RETAINING	2
INSERT	2
TORQUE WRENCH	2
FLAT BIT 8mm	2
FLAT BIT 10mm	2
FLAT BIT 13mm	2
PHILIPS BIT No 1	2
PHILIPS BIT No 2	2
PHILIPS BIT No 3	2
PHILIPS BIT No 4	2
NUT SPLITTER 9-12mm	2

## Kit, Loose items, General tools, Engine and maintenace

### Issue 1, D0062328

NUT SPLITTER 12-16mm	2
NUT SPLITTER 16-22mm	2
NUT SPLITTER 22-27mm	2
BRASS DRIFT	2
CLUB HAMMER	2
WIRE TWISTER PLIERS	2
BODY IMPACT DRIVER	2
ADAPTOR IMPACT DRIVER	2
HAMMER PLASTIC	2
FACE HAMMER (QTY 2)	2
PUNCH TAPER	2
INSERT	2
ADAPTOR 5/16 AF	2
TORX BIT TX 20	2
TORX BIT TX 25	2
TORX BIT TX 30	2
TORX BIT TX 40	2
TORX BIT TX 45	2
TORX BIT TX 50	2
TORX BIT TX 55	2
HACKSAW	2
BLADE HACKSAW	2
FILE RETREADING UNF	2
FILE RETREADING MET	2
HANDLE FILE No 9	2
FILE HALF ROUND 12"	2
HANDLE FILE No 4 (QTY 3)	2
FILE SECOND CUT 6"	2
FILE SMOOTH 6"	2
FILE HALF ROUND 8"	2
SCREWDRIVER PHILLIPS No 4	2
SCREWDRIVER PHILLIPS No 3	2
SCREWDRIVER POZI 3PT	2
SCREWDRIVER POZI 2PT	2
SCREWDRIVER POZI 1PT	2

Kit, Loose items, General tools, Armour Workshop

Issue 1, D0062331

Name	Qty
LED Worklight	1
Additional chargers	1
Additional batteries	2
RS PRO 88 Piece Electricians Tool Kit with Case, VDE Approved	2
RS PRO 78 Piece Mechanical Toolkit with case	2
REME Armour Toolkit	1
TOOLBOX	1
PADLOCK	1
INSERT	1
TOOLBAG	1
INSERT	1
PLIERS CIRCLIP 140mm	1
PLIERS COMBI 200mm	1
PLIERS SNIPE NOSE 115mm	1
TWEEZER	1
PLIERS FLAT NOSE	1
PLIERS COMBI 160mm	1
PLIERS SNIPE NOSE 140mm	1
MOLE GRIPS	1
SPANNER OJ 11/16x3/4	1
SPANNER OJ 13/16x7/8	1
SPANNER OJ 7/16x1/2	1
SPANNER OJ 3/16x1/4	1
SPANNER OJ 9/16x5/8	1
SPANNER COMBI 24mm	1
SPANNER COMBI 17mm	1
SPANNER COMBI 23mm	1
SPANNER COMBI 16mm	1
SPANNER COMBI 22mm	1
SPANNER COMBI 15mm	1
SPANNER COMBI 21mm	1
SPANNER COMBI 14mm	1
SPANNER COMBI 20mm	1
SPANNER COMBI 13mm	1
SPANNER COMBI 19mm	1

SPANNER COMBI 18mm	1
SPANNER COMBI 10mm	1
SPANNER COMBI 12mm	1
SPANNER OJ 7x8mm	1
SPANNER OJ 5/16x3/8	1
SPANNER OJ 8x9mm	1
INSERT	1
PUNCH 150 x 3mm	1
PUNCH 1/4 PARALLEL	1
PUNCH 150 x 4mm	1
PUNCH 150 x 6mm	1
PUNCH 3/16 PARALLEL	1
PUNCH 3/16 TAPER	1
PUNCH 1/4 TAPER	1
PUNCH 3/8 TAPER	1
PUNCH 5/16 PARALLEL	1
DRIFT 1"	1
DRIFT 3/4"	1
DRIFT 5/8"	1
DRIFT 3/8"	1
DRIFT 1/2"	1
PUNCH CENTRE	1
PUNCH PARALLEL 2mm	1
CHISEL 14mm	1
PUNCH PARALLEL 2.5mm	1
PUNCH 1/16 TAPER	1
CHISEL 10mm	1
SCRIBER DOUBLE END	1
RULE	1
ALLEN KEY SET IMP	1
SPANNER SET BA	1
KNIFE	1
ALLEN KEY SET MET	1
TAPE MEASURE 2M	1
EYEGLASS	1
SQUARE	1
FEELER GAUGE MET	1

Kit, Loose items, General tools, Armour Workshop

Issue 1, D0062331

FEELER GAUGE IMP	1
MAGNETIC PICK UP TOOL	1
RATCHET 1/4IN SQ DR	1
RATCHET 3/8IN SQ DR	1
SOCKET 1/4DR 9mm	1
SOCKET 1/4DR 10mm	1
SOCKET 1/4DR 11mm	1
SOCKET 3/8DR 12mm	1
SOCKET 3/8DR 13mm	1
SOCKET 3/8DR 14mm	1
SOCKET 3/8DR 15mm	1
SOCKET 3/8DR 16mm	1
SOCKET 3/8DR 17mm	1
SOCKET 1/4DR 14mm	1
SOCKET 1/4DR 13mm	1
SOCKET 1/4DR 12mm	1
SOCKET 1/4DR 8mm	1
SOCKET 1/4DR 7mm	1
SOCKET 1/4DR 6mm	1
SOCKET 1/4DR 5.5mm	1
SOCKET 1/4DR 5mm	1
SOCKET 1/4DR 4.5mm	1
SOCKET 1/4DR 4mm	1
ADAPTOR 1/4 x 3/8 DR	1
HEX BIT 10mm	1
HEX BIT 8mm	1
HEX BIT 6mm	1
HEX BIT 4mm	1
HEX BIT 3mm	1
HEX BIT 5mm	1
SOCKET 3/8DR 11mm X-DEEP	1
PUNCH PARALLEL 3/32	1
SPINNER HANDLE	1
T-BAR 1/4DR	1
EXTENSION 1/4DR 100mm	1
EXTENSION 1/4DR 200mm	1

SOCKET 1/4DR 9mm	1
SOCKET 1/4DR 10mm	1
SOCKET 1/4DR 11mm	1
SOCKET 3/8DR 3/8 AF	1
SOCKET 3/8DR 7/16 AF	1
SOCKET 3/8DR 1/2 AF	1
SOCKET 3/8DR 9/16 AF	1
SOCKET 3/8DR 5/8 AF	1
SOCKET 3/8DR 11/16 AF	1
SOCKET 3/8DR 3/4 AF	1
SOCKET 3/8DR 13/16 AF	1
KNUCKLE BAR 3/8DR	1
SOCKET 3/8DR 7/16 X-DEEP	1
EXTENSION 3/8DR 150mm	1
UNIVERSAL JOINT	1
EXTENSION 3/8DR 75mm	1
EXTENSION 3/8DR 100mm	1
INSERT	1
BLADE HACKSAW 12" (10)	1
HACKSAW 12"	1
HACKSAW 6"	1
BLADE HACKSAW 6" (10)	1
HANDLE FILE No 9	1
HANDLE FILE No 6 (2)	1
HANDLE FILE No 4	1
HANDLE FILE No 3.2 (6)	1
FILE BASTARD 10"	1
FILE SECOND CUT 8"	1
FILE HALF ROUND BASTARD 8"	1
FILE HALF ROUND SMOOTH 6"	1
FILE SQUARE BASTARD 8"	1
FILE ROUND BASTARD 8"	1
STONE 3 SQUARE	1
STONE TRIANGULAR	1
BRUSH WATCHMAKER	1



Kit, Loose items, General tools, Armour Workshop

Issue 1, D0062331

BLADE HACKSAW 6" (10)	1
HANDLE FILE No 9	1
HANDLE FILE No 6 (2)	1
HANDLE FILE No 4	1
HANDLE FILE No 3.2 (6)	1
FILE BASTARD 10"	1
FILE SECOND CUT 8"	1
FILE HALF ROUND BASTARD 8"	1
FILE HALF ROUND SMOOTH 6"	1
FILE SQUARE BASTARD 8"	1
FILE ROUND BASTARD 8"	1
STONE 3 SQUARE	1
STONE TRIANGULAR	1
BRUSH WATCHMAKER	1
WALLET NEEDLE FILE	1
FILE NEEDLE HALF ROUND	1
FILE NEEDLE KNIFE C2	1
FILE NEEDLE ROUND	1
FILE NEEDLE ROUND C2	1
FILE NEEDLE SQ C2	1
FILE NEEDLE 3 SQ	1
FILE NEEDLE WARDING	1
FILE ESCAPEMENT	1
BRUSH VARNISH 25mm	1
FILE 3 SQ SMOOTH 4"	1
FILE PILLAR SMOOTH 4"x 3/8	1
FILE ROUND SMOOTH 4"	1
FILE ROUND SMOOTH 6"	1
FILE HAND SMOOTH 6"	1
FILE SECOND CUT 6"	1
FILE BASTARD 6"	1
FILE HALF ROUND SMOOTH 4"	1
FILE TAPER SAW REGULAR 4"	1
FILE KNIFE BASTARD 4"	1
FILE WARDING BASTARD 4"	1
INSERT	1

SCREWDRIVER ELEC	1
HAMMER	1
GAS SOLDERING IRON	1
ADJUSTABLE 4"	1
ADJUSTABLE 8"	1
HAMMER PLASTIC	1
FACE HAMMER (QTY 2)	1
PLIERS SLIP JOINT 250mm	1
SCREWDRIVER FLAT 8x150mm	1
HAMMER JOINERS	1
SCREWDRIVER FLAT 6x100mm	1
SCREWDRIVER PHILLIPS No 1	1
SCREWDRIVER 6.5mm TIP	1
SCREWDRIVER INSULATED	1
SCREWDRIVER PHILLIPS No 2	1
SCREWDRIVER FLAT 5mm	1
SCREWDRIVER PHILLIPS No 3	1
SCREWDRIVER FLAT STUBBY	1
SCREWDRIVER SET	1
CIRCUIT TESTER	1
VICE	1
DRILL BIT SET	1
Drill vice 6"	1
Drill Vee vice	1
PPE Safety Goggles	4

Kit, Loose items, General tools, Tech Workshop

Issue 1, D0062332

Name	Qty
Electrostatic mats	4
ESD ground strap & Cord	4
ESD earth bonding plug	4
ESD Strap tester	1
LED Worklight	1
Additional chargers	1
Additional batteries	2
RS PRO 88 Piece Electricians Tool Kit with Case, VDE Approved	2
Fluke 115 – TLK-225 Multimeter Kit	2
Basic Electronic Toolkit (Lindstrom)	2
Round nose pliers	2
Wire strippers	2
Wire strippers	2
Scissors (for heatshrink)	2
Large wire cutters	2
Soldering Iron for electronics	2
Soldering Iron for power cables	2
Desoldering tool	2
Hot air gun for soldering	2
Hot air gun for heatshrink	2
Crimp tool insulated terminals	2
crimp tool universal	2
die sets for the above	2
Crimp tool Mil 22520/1	2
Universal postioner	2
Crimp tool Mil 22520/2	2
Universal postioner	2
Crimp tool for copper tube terminals	2
Contact insertion / extraction tool R/W	2
Contact insertion / extraction tool G/W	2
Contact insertion / extraction tool B/W	2
cable tie gun	2
cable sleeving tool	2
ESD Wrist straps and cables	2
ESD earth bonding points	2

ESD Tester	2
Digital Storage Oscilloscope	2
Power supply, 5V, ±15V	2
Power Supply 24V, 10A	2
Pulse Generator	2
Frequency Timer Counter	2
4mm test leads	2
Coax cable test leads	2
Drill vice 6"	1
Drill Vee vice	1
Multitool Accessories	2
PPE Safety Goggles	4

Kit, Loose items, General tools, Optics Workshop

Issue 1, D0062332

Name	Qty
LED Worklight	1
Additional chargers	1
Additional batteries	2
Drill vice 6"	1
Drill Vee vice	1
Multitool Accessories	2
PPE Safety Goggles	4
RS PRO 88 Piece Electricians Tool Kit with Case, VDE Approved	2
RS PRO 78 Piece Mechanical Toolkit with case	2
CET REME Toolkit	1
TOOLBOX	1
TOOL ROLL	1
TOOL BAG	1
PADLOCK	1
HEAT SINK	1
HACKSAW 6"	1
BLADE HACKSAW	1
CONTACT FILE HANDLE	1
BLADE CONTACT FILE (10)	1
KNIFE TECH	1
HAMMER	1
RETRIEVING TOOL	1
GAS SOLDERING IRON	1
FORCEPS	1
RULE	1
CIRCUIT TESTER	1
TORCH	1
BA SPANNER SET	1
SCREWDRIVER SET	1
SOCKET SET 1/4 SQ DR	1
SCREWDRIVER STUBBY FLAT	1
SCREWDRIVER RATCHET	1
MIRROR INSPECTION	1
WIRE STRIPPER	1
CRIMPING TOOL HAND	1

SCREWDRIVER RATCHET	1
MIRROR INSPECTION	1
WIRE STRIPPER	1
CRIMPING TOOL HAND	1
CRIMPING TOOL RATCHET	1
FILE HANDLE WOOD	1
FILE HALF ROUND 150mm	1
FILE DOUBLE CUT 8"	1
FILE ROUND	1
NUT SPINNER SET	1
SCREWDRIVER ALLEN KEY MET	1
SCREWDRIVER ALLEN KEY IMP	1
ALLEN KEYS METRIC	1
ALLEN KEYS IMPERIAL	1
PUNCH 2mm	1
PUNCH 2.5mm	1
PUNCH 40mm	1
PUNCH 1/8"	1
NIPPERS	1
MOLE GRIPS	1
NEEDLE NOSE PLIERS	1
PLIERS ENG	1
PLIERS LONG NOSE	1
PLIERS SLIP JOINT 4 1/2"	1
PLIERS SLIP JOINT 9 1/2"	1
ADAPTOR 1/4-3/8 SQ DR	1
RATCHET 3/8IN SQ DR	1
KNUCKLE BAR	1
EXTENSION 3/8DR 75mm	1
EXTENSION 3/8DR 300mm	1
EXTENSION 3/8DR 150mm	1
UNIVERSAL JOINT	1
SOCKET RAIL x 2	1
SOCKET CLIP x 15	1
SOCKET 3/8DR 7/16 AF	1
SOCKET 3/8DR 1/2 AF	1

Kit, Loose items, General tools, Optics Workshop

Issue 1, D0062332

SOCKET 3/8DR 9/16 AF	1
SOCKET 3/8DR 5/8 AF	1
SOCKET 3/8DR 11/16 AF	1
SOCKET 3/8DR 3/4 AF	1
SOCKET 3/8DR 11mm	1
SOCKET 3/8DR 12mm	1
SOCKET 3/8DR 13mm	1
SOCKET 3/8DR 14mm	1
SOCKET 3/8DR 15mm	1
SOCKET 3/8DR 16mm	1
SOCKET 3/8DR 17mm	1
ADJUSTABLE 4 1/2"	1
ADJUSTABLE 8"	1
SPANNER HOOK TYPE	1
SPANNER COMBI 7mm	1
SPANNER COMBI 8mm	1
SPANNER COMBI 9mm	1
SPANNER COMBI 10mm	1
SPANNER COMBI 11mm	1
SPANNER COMBI 12mm	1
SPANNER COMBI 13mm	1
SPANNER COMBI 14mm	1
SPANNER COMBI 15mm	1
SPANNER COMBI 16mm	1
SPANNER COMBI 17mm	1
SPANNER COMBI 18mm	1
SPANNER COMBI 19mm	1
SPANNER COMBI 20mm	1
SPANNER COMBI 1/4 AF	1
SPANNER COMBI 5/16 AF	1
SPANNER COMBI 3/8 AF	1
SPANNER COMBI 7/16 AF	1
SPANNER COMBI 1/2 AF	1
SPANNER COMBI 9/16 AF	1
SPANNER COMBI 5/8 AF	1
SPANNER COMBI 11/16 AF	1

SPANNER COMBI 11/16 AF	1
SPANNER COMBI 3/4 AF	1
SPANNER COMBI 13/16 AF	1
SPANNER COMBI 7/8 AF	1
SPANNER COMBI 15/16 AF	1
Digital Storage Oscilloscope	1

