



## **26FT X 10FT WELFARE UNIT SPECIFICATIONS**

### **Structure**

The basic building frame is formed from heavy gauge mild steel sections, each fully welded to form a rigid framework into which the wall panels, doors and windows are fitted.

The base rail is a 3mm thick 'z' section, which is fully welded into the corner posts. The floor joists are welded inside the base rail at 406mm centres on all products up to 10' in width to form the floor frame. On 12' wide units the floor joists are fixed at 203mm centres. The corner posts support the 50mm x 10mm flat bar which runs around the top of the wall panels to form a rigid section onto which the roof panels are fitted. Reinforcing sections are welded inside the flat bar both across the unit width and also longitudinally to complete the framework. This section sits underneath the roof panels to provide additional support to help prevent roof damage and improve water drainage.

The frame is completed by 6mm top plates and 10mm base plates which are welded to each of the four corner posts. These are fitted with a basic hole and pin to provide a positive initial location when the units are stacked and matching connection slots to ensure the required long term stability.

Four high level lifting points are fitted along the side sections of the roof and four low level lifting points are fitted along the side sections of the floor to allow the simple lifting of the unit by a suitable crane. The floor side sections are fitted with fork pockets to allow lifting and movement of the unit by a suitable fork truck. The four low level lifting eyes also act as lashing points to allow the product to be easily secured to the delivery vehicle whilst in transit.

### **Floor**

15.5mm WBP plywood is fixed to the 100mm x 50mm heavy gauge joists at 406mm centres on units up to 10' in width and at 203mm centres on 12' wide units using self drilling screws to form the floor deck.

The floor is finished with 2mm vinyl complete with white PVCu interior trims.

### **Walls**

1.6mm thick corrugated steel panels are fully seam welded to each other and the unit framework to form an extremely robust and rigid wall section.

The standard internal lining is 4mm pre finished plywood wallboard complete with white PVCu interior trims. The lining sheets are mounted onto an internal framework of 70mm x 34mm timber at 406mm centres, which also encloses the 80mm Superglass Mat 40 insulation.

## Roof

1.6mm thick profiled self supporting roof panels are fully seam welded to each other and the framework.

The standard internal ceiling is 4mm white pre-finished board supported by 70mm x 34mm timber at 406mm centres. This also supports the 80mm Superglass Mat 40 insulation. The void between the roof and ceiling is ventilated by hidden vents down each side of the unit to reduce the build up of condensation.

## Doors

The robust door is formed from a 2mm external steel skin welded to an internal 1.2mm skin. Anti-jemmy protection is provided down the closing edge, top and bottom of the door with welded escutcheon plates for additional security against drill attack.

Stainless steel lift-off hinges have been incorporated into the standard design in order to allow the door to be removed quickly and easily when required. The pioneering magnetic door retaining system is used for day time closing whilst a pair of suited 5 lever deadlocks have been fitted for secure locking. The deadlocks and anti-jemmy bolts close into the pre-formed 3mm mild steel door frame and combine to provide an advanced locking system. The door frame also incorporates a high performance rubber door seal for draught exclusion and additional protection against the weather.

The door is fitted externally with a round steel door handle, designed to reduce the possibility of use in an external attack on the locked door, and internally with a welded pressed steel handle.

## Windows

The window shutter frame is formed from 6mm thick rolled steel angle with fully welded corners and is designed to house a 915mm x 915mm aluminium framed sliding window as standard.

3mm thick mild steel pressed shutter leaves are welded to the frame with full length continuous pre galvanised piano hinges complete with a stainless steel pin which allow the shutters to open and close freely. When closed two spring bolts fitted to each shutter leaf are used to secure the leaves at the top and bottom of the frame whilst the interlocking leaves are protected from jemmy attack by a central 5mm tee-bar. An additional fifth spring bolt locks the shutter leaves together for additional attack protection and to complete the creation of a highly secure locking mechanism.

Externally the shutter provides an aesthetically pleasing flush finish with innovatively designed security features to increase resistance to attack. When open each leaf of the shutter can be held in position using the anti-luce retainer.

## Surface Treatment

All external wall surfaces are manually scraped down to remove welding spatter and then all surfaces are degreased thoroughly. An etch primer is applied to all areas followed by the addition of a high build primer to the welded seams and other relevant parts.

The internal and external surfaces are then given one coat of high build anti corrosive compliant paint to the specified finish colour except for the corner base plates. Internal faces of doors and window shutters are also painted to match the external colour. The whole system is applied using an air assisted airless system to provide an excellent surface finish.

The standard paint finish is a single colour of your choice from the [BS 4800](#), [BS 381C](#) or [RAL](#) colour ranges.

## 'U' Values

The thermal performance 'U' values for this product are as follows:

External Wall – 'U' Value of 0.45 W/m<sup>2</sup>K

Roof – 'U' Value of 0.44 W/m<sup>2</sup>K

Floor – 'U' Value of 3.364 W/m<sup>2</sup>K

Door – 'U' Value of 3.2 W/m<sup>2</sup>K

Window – 'U' Value of 5.7 W/m<sup>2</sup>K



- DISTRIBUTION BOARD
- CONVECTOR HEATER
- TUBULAR HEATER
- HIGH LEVEL FAN HEATER
- FLUORESCENT LIGHT
- BULK-HEAD LIGHT
- WATER HEATER
- 13A TWIN SOCKET - LOW
- 13A TWIN SOCKET - HIGH
- WALL LIGHT SWITCH
- PULL LIGHT SWITCH
- THERMOSTAT
- EXTRACTION FAN
- COOKER POINT
- SHOWER HEATER
- COAT HOOKS
- SLIDING WINDOW COMPLETE WITH SHUTTER

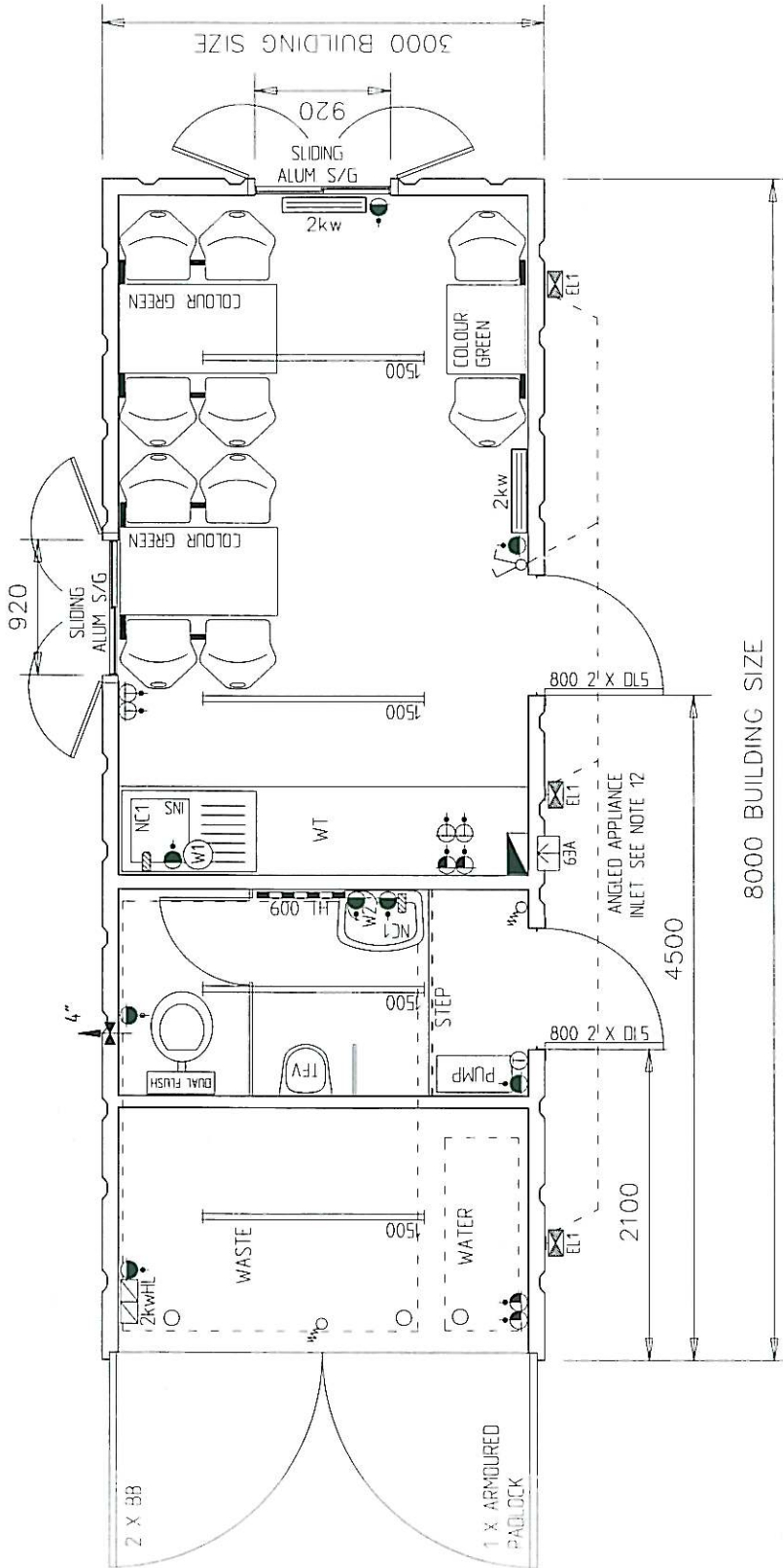
- HL HIGH LEVEL
- TOV TOP OPENING VENT
- WT WORKTOP
- ML MORTICE LOCK
- BL BATHROOM LOCK
- DL5 5 LEVER DEADLOCK
- RL ROLLER LATCH
- BB BARREL BOLTS

UNLADEN WEIGHT (KG)	4925
MAXIMUM LADEN WEIGHT (KG)	7700
MAXIMUM LIFT WEIGHT (KG)	7700
Product Code	

Project  
26' X 10' STEEL WELFARE UNIT

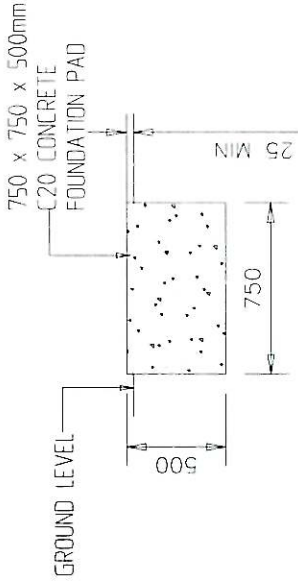
Title  
PLAN LAYOUT

Date	16/02/11	Scale	1:50	Drawn By	MJC
Drawing / Unit No.			32109		
Rev.			-		

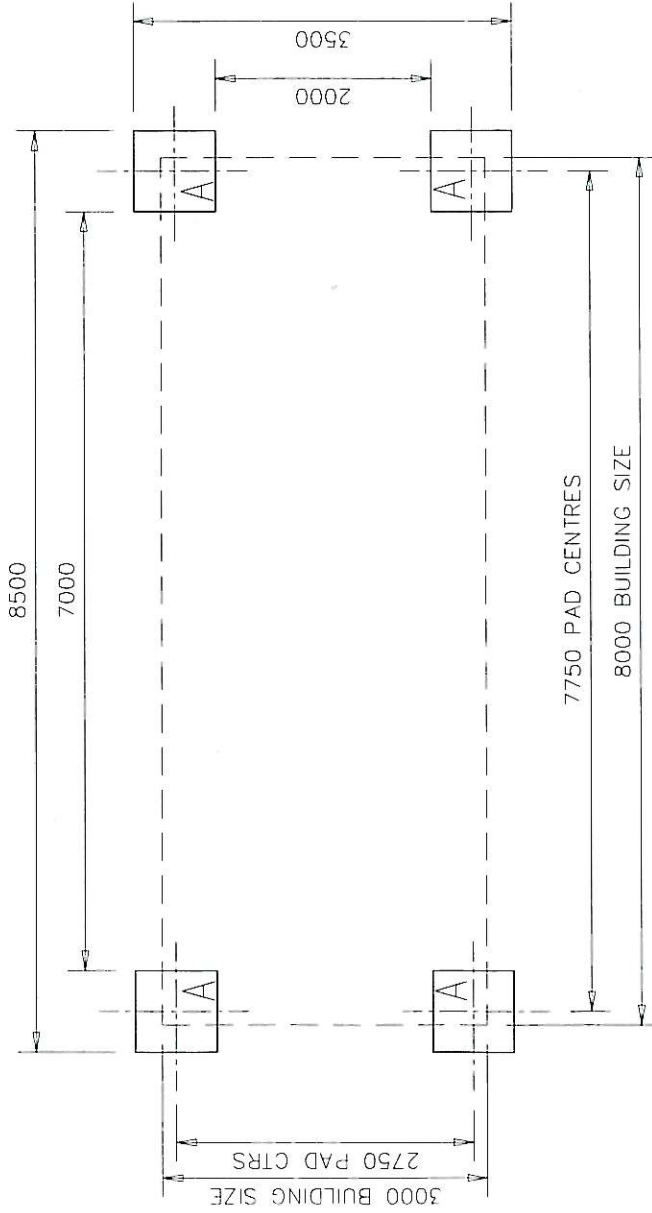


NOTES

1. THIS UNIT IS BASED ON OUR STANDARD PRODUCT SPECIFICATION AVAILABLE FROM WWW.SIM.CO.UK/SPECIFICATION.
  2. COLOUR SPECIFICATION - GREEN (RAL 6029)
  3. UNIT COMPLETE WITH FORK LIFT TUNNELS
  4. WC & TANK AREAS ONLY ARE TO BE UNDERDRAWN WITH 16mm GALVANISED STEEL WITH 80mm SUPERGLASS MAT 40
  5. 910 LITRE SPECIAL FRESH WATER TANK C/W LEVEL GAUGE AND DRAIN OFF POINT
  6. 1450 LITRE SPECIAL WASTE TANK C/W LEVEL GAUGE AND AIR ADMITTANCE VALVE
  7. CANTEN & TOILET AREAS TO HAVE STANDARD VINYL FLOOR COVERING OVER PLYWOOD TANK AREA TO HAVE PLYWOOD FLOOR ONLY
  8. TIMBER PARTITION WALLS TO BE FULLY LINED & INSULATED
  9. TANK AREA DOORS TO BE FULLY INSULATED WITH 80mm SUPERGLASS MAT 40
  10. RUBBER SEAL TO TOP OF TANK AREA DOORS (NOTCHED AROUND CLOAK & JEMMY)
  11. NON-CONCUSSIVE COLD TAPS FITTED TO WASH HAND BASIN AND STAINLESS STEEL SINK
  12. 63AMP ANGLED APPLIANCE INLET ENCLOSED WITHIN 400x400mm STEEL ENTRY FLAP @ LOW LEVEL C/W DEADLOCK & RUBBER MEMBRANE IN UNIT
- \*PLEASE NOTE\* JACK LEGS CANNOT BE FITTED DUE TO UNIT DESIGN



PAD A (N.T.S.) - 4No



NOTES

- 1/ FOUNDATION DESIGN IS FOR A LEVEL SITE WITH A GROUND BEARING CAPACITY OF 110 KN/M SQ. AND A BUILDING FLOOR LOADING OF 3 KN/M SQ
- 2/ DEPTH OF FOUNDATIONS IS DEPENDENT ON LEVEL OF GROUND BEARING STRATA ON SITE OR AS REQUIRED BY LOCAL AUTHORITY  
A MINIMUM DEPTH OF 500mm IS REQUIRED TO JUSTIFY THE LOAD PRESSURE
- 3/ DETAILS AS SHOWN ARE FOR A SINGLE UNIT, IF AN ADDITIONAL DOUBLE STACKED UNIT (SAME SIZE) IS REQUIRED THEN THE FOUNDATION PADS SHOULD BE MADE 1000 X 1000 X 500mm



Product Code

Project  
26' X 10' STEEL UNITS

Title  
FOUNDATION DETAIL -  
SINGLE STACKED

Date 18/02/11  
Scale 1 : 70  
Drawn By MJC

Drawing No. 32109-F1  
Rev -