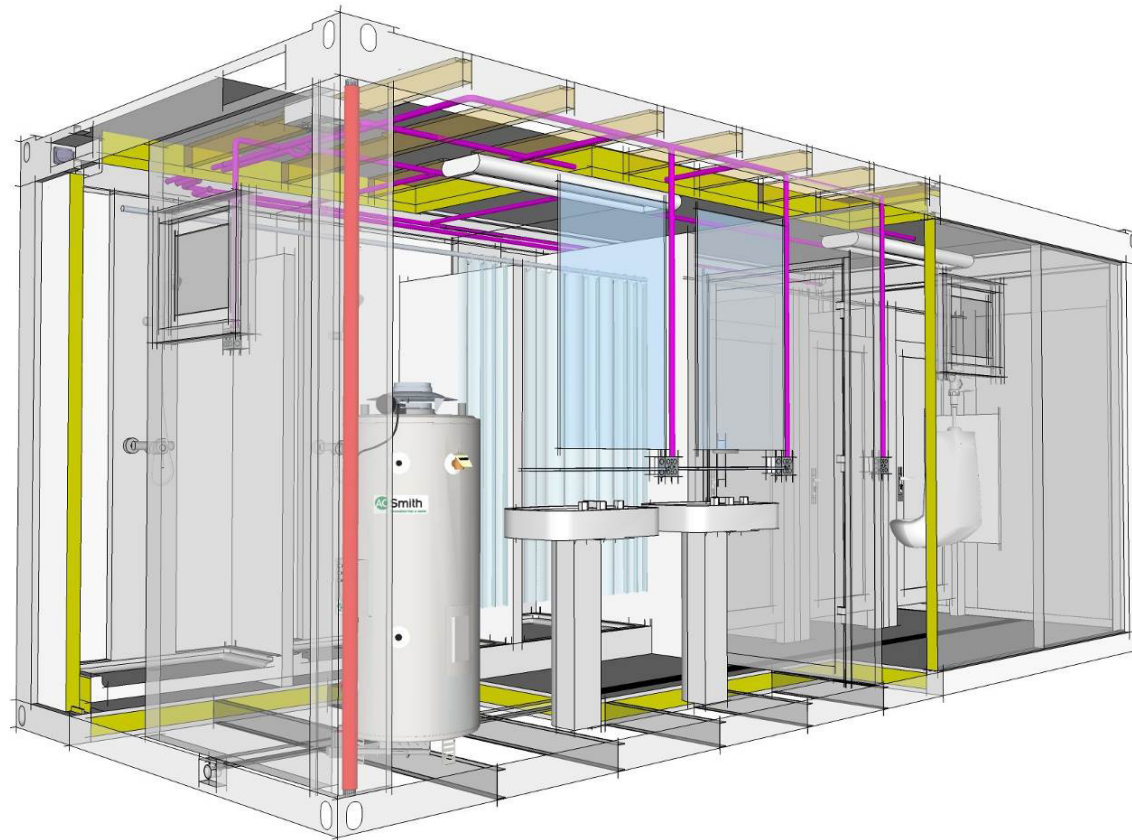




AB 102 CONTAINER SYSTEM “CLASSIC”
ABLUTION TECHNICAL SPECIFICATION
20' x 8' x 9'6" MODULAR UNIT / ABLUTION CONTAINER





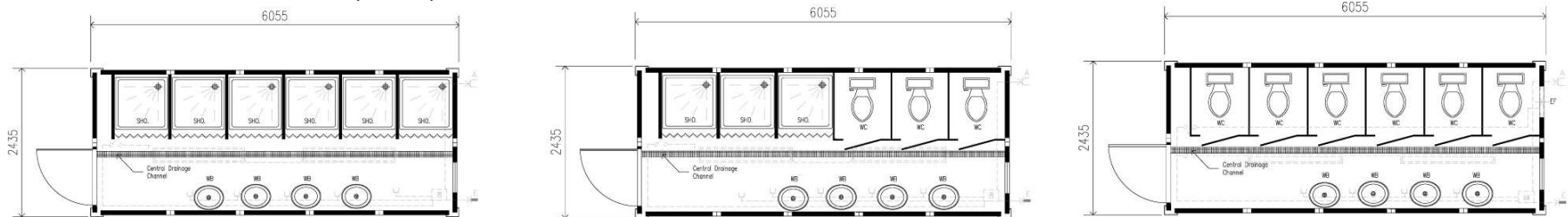
GENERAL

The Ablution Modular Unit or Container is designed as a solid construction multi house system CLASSIC consisting of floor and roof frames and corner profiles. The system enables compounding of individual containers in longitudinal and transverse directions without limits. It also enables compounding of containers in 2 floors in height (ground floor + first floor), or in 3 floors in height for warehousing of these containers (ground floor + 2 floor). Wainscots of the container are made of light insulation panels and offer pleasant climate in the interior due to their building and physical properties.

The Standard Ezy-House Ablution 20' has 3 Main Configurations:

- A2S = 6 x Showers, 4 x Wash basins
- A2C = 3 x Showers, 3 x WC + WC cabin, 4 x Wash basins
- A2W = 6 x WC + WC cabin, 4 x Wash basins

Different solutions are available upon request



DIMENSIONS and TARE (ISO Standard 1161)

- External length 20' (inner length) 20': 6.055m/(5.851m)
- External width/ (inner width): 2.435m/(2.231m)
- External height/inner height: 2.790m/(2.510m)
- Tare: 2820Kg
- Containers can be delivered assembled or individually in kits 648 mm high. 3kits can be bundled in package 2591 mm high (ISO dimensions)

STEEL FRAMEWORK

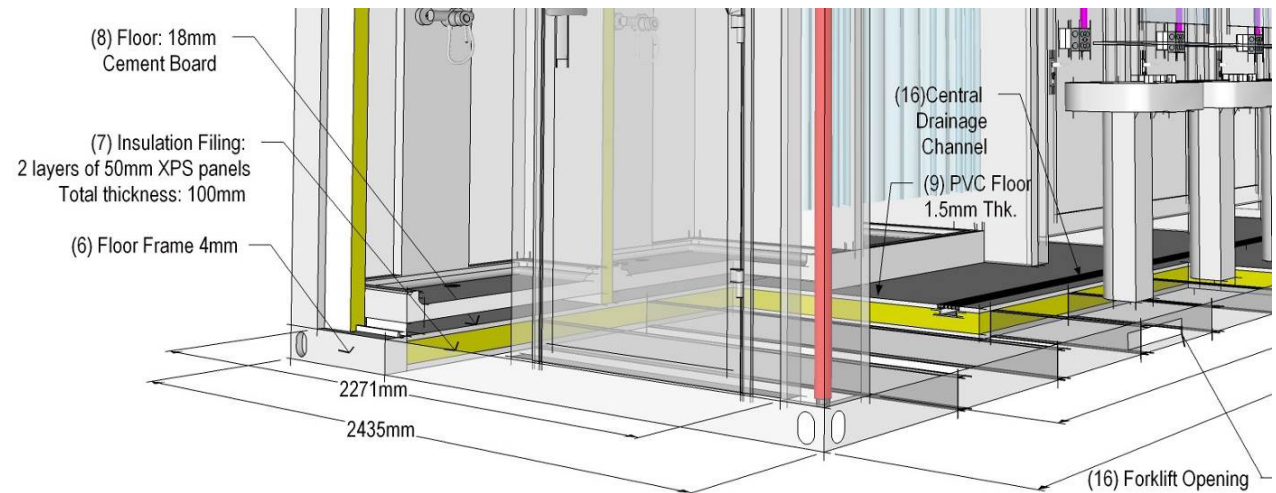
- Material: cold formed steel profiles in a thickness of 3 to 4mm (bottom rails).
- Surface working: shot blasting, epoxy ground coat in a thickness of 30µm, final vinyl acrylic coat in a thickness of 60-70µm.
- Fittings: 8 corner fittings (dimensions according to ISO standard 1161), rainwater pipe in the roof framework, plate thickness of 10mm excluding top corner fittings of the top kit of each bundle (20mm thickness)

FLOOR COMPOSITION:

- External wainscot: flat galvanized steel sheet metal in a thickness of 0.5mm.
- Insulation filling: 2 layers of XPS panels (thickness of a single panel: 50mm, total thickness: 100mm) among steel transverse supports. XPS density: 35 Kg/m³
- Steam blockade: PE foil in a thickness of 80µm

➤ Cement board:

- CCA boards (Cellulose Fiber Cement Board, Autoclaved) in a thickness of 18 mm Density: 1500Kg/ m³
- Reaction to Fire Classification:A1 certified ISO EN 13501
- PVC flooring covering in a thickness of 1.5mm
- Permitted loading: 3.5 kN/m²
- K value: 0.41 W/ m²K
- R value (Thermal Resistance) = 2.2 m²K/W



DRAINAGE:

- Ablution containers have been fitted with an oversized central drainage channel covered by a heavy duty PVC grille. The drainage channel collects water that is drained out by a 1.5 inch steel pipe welded to the container frame as per enclosed picture.



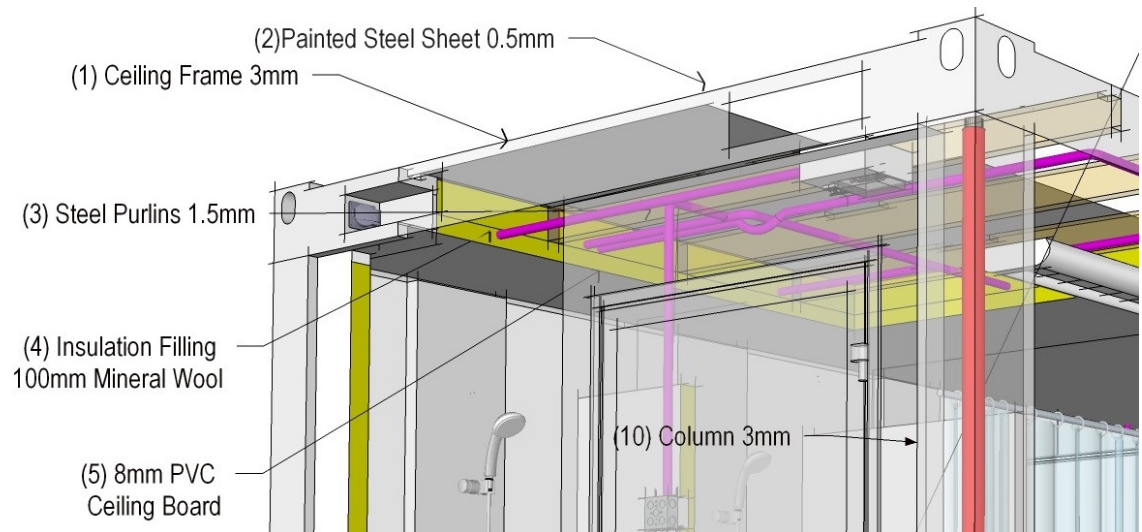
CEILING COMPOSITION:

➤ PVC 8mm boards

- External wainscot: flat galvanized and painted steel sheet metal in a thickness of 0.5mm or as an option, 1.6 mm thick corrugated “ISO” roof, CORTEN made, and shot blasted & painted.
- Insulation filling: noncombustible mineral wool in a thickness of 100mm among a double layer of 30X50X2 mm steel square bars. Mineral wool density: 60 Kg/m³
- Steam blockade: PE foil in a thickness of 80µm
- inner wainscot: PVC boards in a thickness of 8 mm and width of 180 mm; white colour; joining of PVC boards through connection of male and female profile on boards' sides;
- Permitted loading (standard roof): 2.8 KN/m²

- Meteor water outlet: 4 each of PVC rainwater pipes, diameter 50mm in corner pillars
- K value: 0.45 W/ m²K
- R value (Thermal Resistance) = 2.2 m²K/W

- ❖ Galvanized and painted steel sheet metal on both sides. Steel thickness: 0.5mm, white color
- ❖ Insulation filling: mineral wool in a thickness of 60mm, density 120 Kg/m³
- ❖ Permitted loading (standard roof) : 2.1 KN/m²



FACADE WALLS

➤ **Sandwich Mineral Wool**

- Side panels' width: 1140mm; total panel thickness: 60mm.
- Five panels fit into the long side and two panels fit into the short side of container and they are fully interchangeable
- Composition:

External wainscot:

- ✓ Galvanized and painted steel sheet metal in a thickness of 0.5mm, white color
- ✓ Insulation filling:
- ✓ Mineral wool in a thickness of 60mm

Inner wainscot:

- ✓ Galvanized and painted steel sheet metal in a thickness of 0.5mm, white color.
- ✓ Permitted loading: 1.0 kN/m²
- ✓ Mineral wool density: 120 Kg/m³
- ✓ K value: 0.71 W/ m²K
- ✓ Fire rating: 36 minutes according to GB 12955-91 and 20 minutes according to BS 476



DOORS

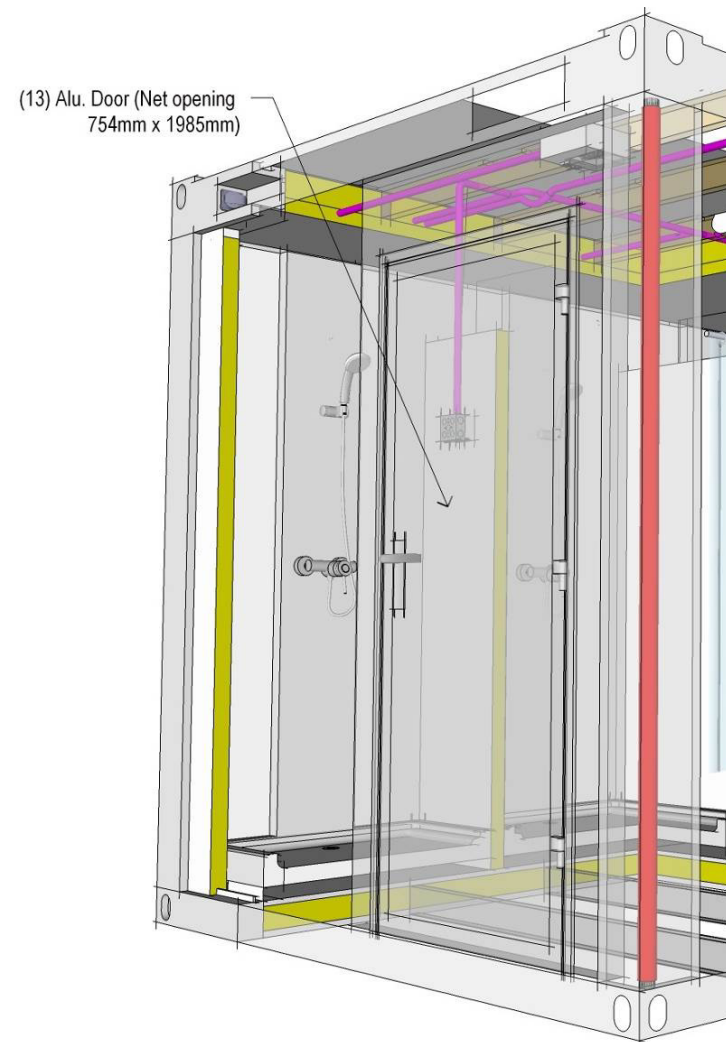
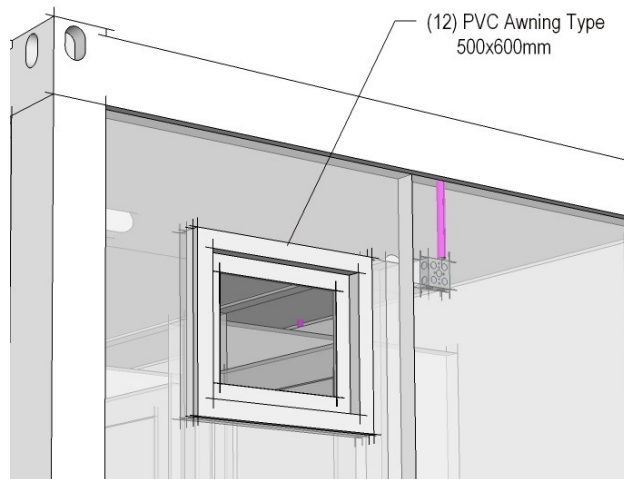
- Standard external **Aluminum door**.

Single fold, 40mm thick, made of:

- a frame in pre painted aluminum
- hot galvanized and pre painted steel sheets (inside and outside)
- insulated with PL (polystyrene)
- Net opening dimensions: 754 x 1985 mm; furnished with a handle lock with 3 keys.

WINDOWS

- Made of PVC, white color, with dimensions 500×600mm,
- Glazing: Single layer glass in a thickness of 4mm, with “tilt” mechanism.



TOILET FITTINGS:

Water Closet:

Details

- WC set dimension: 360mm width x 470mm length x 415mm height;
- Material: WC set: Ceramic
- WC sewage internal diameter: 75 mm

Water Closet Cubicle:

Details:

- Dimensions: length 900 mm, width 1070 mm, height 2000 mm
- EPS sandwich panels 40 mm thick,
- ALU door of cabins opening outwards; equipped with stainless steel hinges, external knob and a locking pin inside



HOT / COLD WATER SUPPLY AND SEWAGE PIPING

- WATER CLOSET
 - Piping in: Dimensions: Φ 25 mm, suitable length depending on fittings' layout; Thickness: 4 mm; Material: PPR
 - Piping out: Dimensions: Φ 110 mm suitable length depending on fittings' layout; Thickness: 2 mm; Material: PVC

Shower Base:

Details:

- Base dimensions: 900 x 900 mm
- Material: Glass Reinforced Plastic

Shower Cubicle:

Details

- Height: 2000 mm
- EPS sandwich panels 40 mm thick



HOT / COLD WATER SUPPLY AND SEWAGE PIPING

- SHOWER
 - Piping in: (A) Hot water; Dimensions: Φ 25 mm, suitable length depending on fittings' layout; Thickness: 4 mm; Material: PPR
(B) Cold water; Dimensions: Φ 25 mm, suitable length depending on individual shower fittings' layout; Thickness: 4 mm;
Material: PPR
 - Piping out: Dimensions: Φ 50 mm suitable length depending on fittings' layout; Thickness: 2 mm; Material: PVC

Wash Basin:

Details

- Dimensions: D=440mm x W= 500mm x H=845mm
- Material: Ceramic, white

HOT / COLD WATER SUPPLY AND SEWAGE PIPING

- WASH BASINS
 - Piping in: (A) Hot water; Dimensions: Φ 25 mm, suitable length depending on fittings' layout; Thickness: 4 mm; Material: PPR (B) Cold water; Dimensions: Φ 25 mm, suitable length depending on fittings' layout; Thickness: 4 mm; Material: PPR



Urinal:

HOT / COLD WATER SUPPLY AND SEWAGE PIPING

- URINALS (if supplied)
 - Piping in: Dimensions: Φ 25 mm, suitable length depending on fittings' layout; Thickness: 4 mm; Material: PPR
 - Piping out: Dimensions: Φ 50 mm suitable length depending on fittings' layout; Thickness: 2 mm; Material: PVC

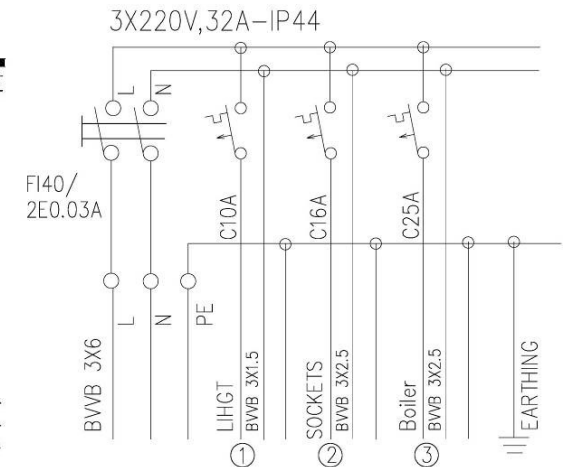
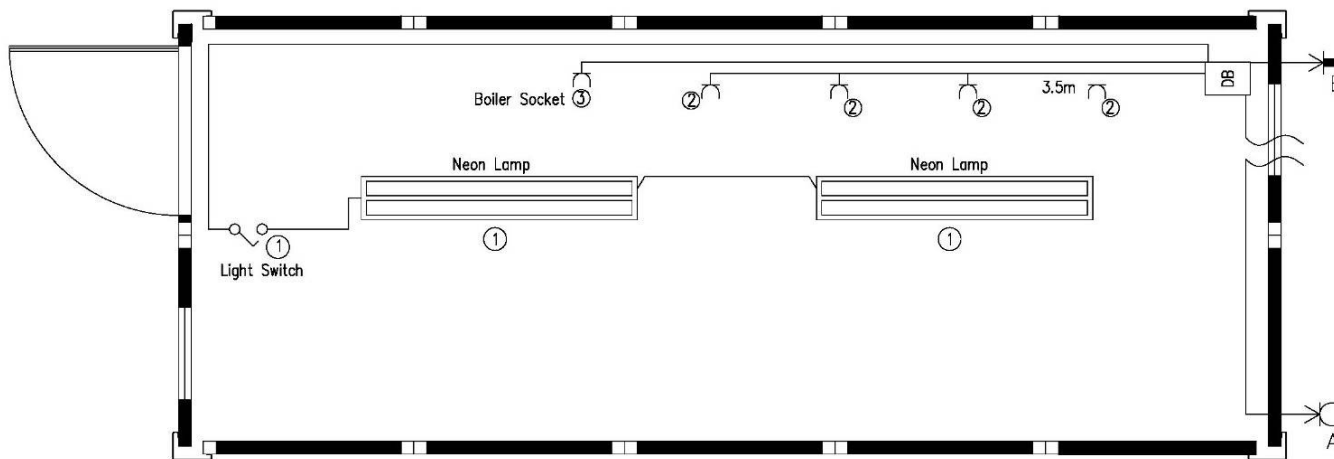


ELECTRICAL INSTALLATIONS

The container is equipped with the following items (according to CE regulations)

- **Voltage:** 220/380 V, 50 Hz
- **Network connections:** CEE-connection plug/socket, 3-pole 32 A, 220V~, mounted on the top frame in upper corners of a shorter side wall
- **Protection:** protective current switch (40/2E-0,03A), automatic fuses (C-characteristics) of suitable power (1 x 10A, 1 x 16A, 1 x 25A). IP rated distribution board
- **Earthing:** galvanized connector with a steel plate of dimensions 30x80mm welded on the bottom frame
- **Neon lights:** double fluorescent lights 2x36W 220V IP 65– 2 each
- **Switch:** surface-mounted switches 220 V – 1 each
- **Inner distribution system:** BVVB cables of suitable dimensions (6, 2,5, 1,5 mm), surface-mounted
- **Sockets:** surface-mounted sockets 220 V (“SHUKO” type) with waterproof IP rated covers – 7 each

Remark: Number and arrangement according to container types.





POSSIBILITIES OF CONTAINER MOUNTING

- On a flat solid surface (asphalt, concrete,)
- On point foundations (concrete cubes, dimensions 30/30/30cm, 6 pc/20' container)
- On band foundations (concrete band, 30cm wide, on the container circumference)
- ❖ **Certification:** Dimensions, weight, payload and stacking are RINA certified. Certificates available for components.
- ❖ **Delivery:** Containers can be delivered assembled or individually – in kits 648 mm high. 4 kits can be bundled in packages 2591 mm high (ISO dimensions)
- ❖ **Remark:** Rights to technical changes are reserved.

