

شركة امياتيت عمان ش.م.م

Amiantit Oman Company L.L.C.

Glass Fibre Reinforced Polyester (GRP) Division
Specialist in High quality GRP Products

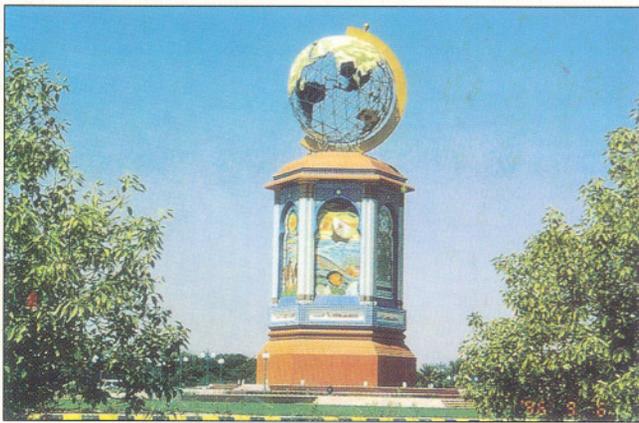
Amiantit Oman, established in 1976 by a Royal Decree, is now a fully owned Omani Company belonging to Suhail and Saud Bahwan and the Omzest Group of Companies.

Amiantit Oman is the country's premier manufacturer of GRP. Amiantit Oman also manufactures GRC products, HDPE, UPVC, Fibre Cement and Rotationally Moulded polyethylene Products.

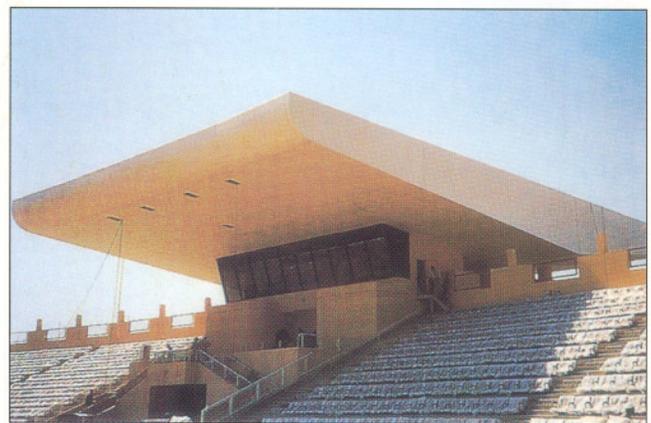
Amiantit Oman was selected as one of the best five factories in the Sultanate and has received His Majesty's Cup in 1993 and in the year 2000. Over the years the Company has put GRP to a large variety of uses in the Sultanate. It has successfully executed various prestigious projects in the Sultanate, its neighbouring countries and abroad. Amiantit Oman has been consistently entrusted with several projects as part of the Muscat city and interior beautification programmes.

All projects are undertaken by us to the highest quality standards and our satisfied customers bear testimony to this commitments.

The photographs presented in this brochure shows a cross section of Amiantit Oman's GRP works in various projects and applications.



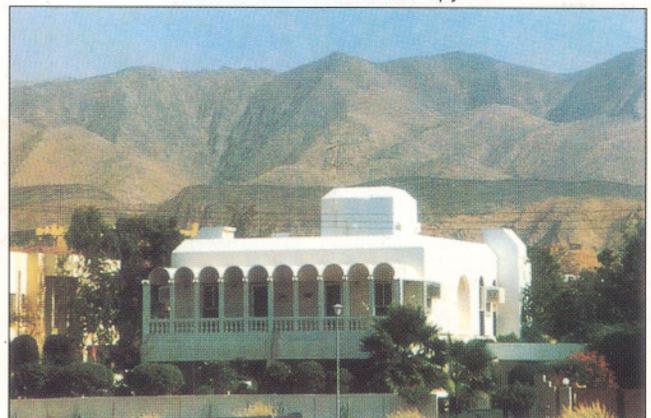
Globe at Sohar - Continent Panels and C arm cladding



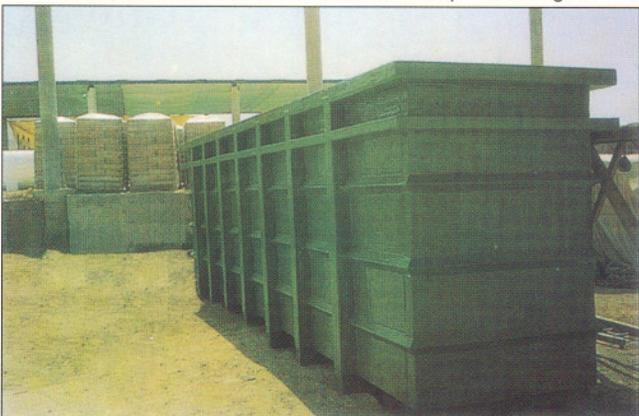
Sohar Stadium-Roof canopy



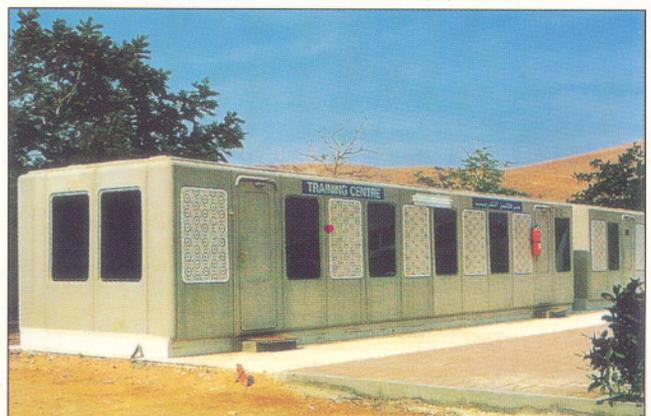
Children's Science Museum - Domeshaped building



Barrel vaults in a villa front



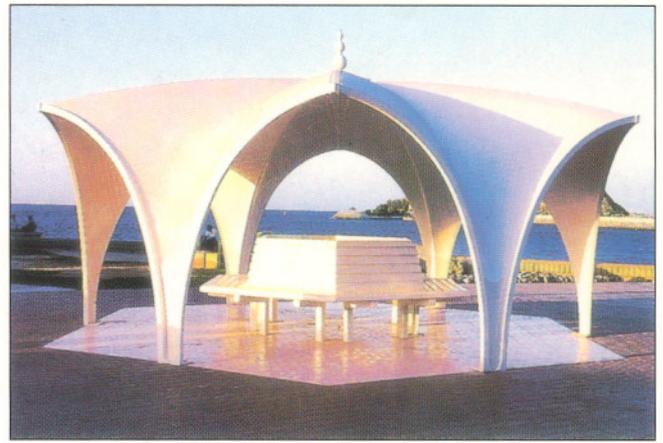
Special anodising tank



GRP modular building



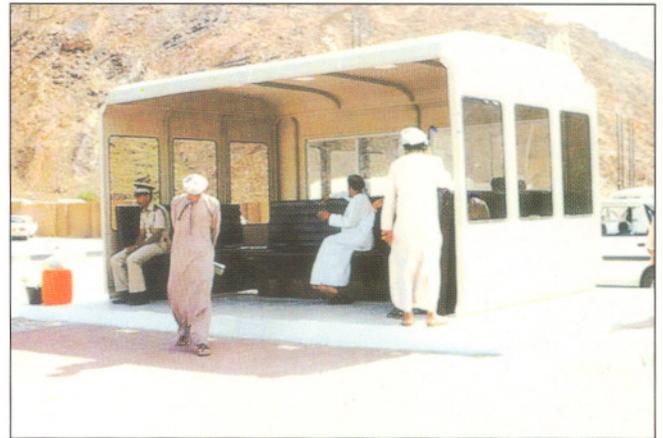
Vending Kiosk



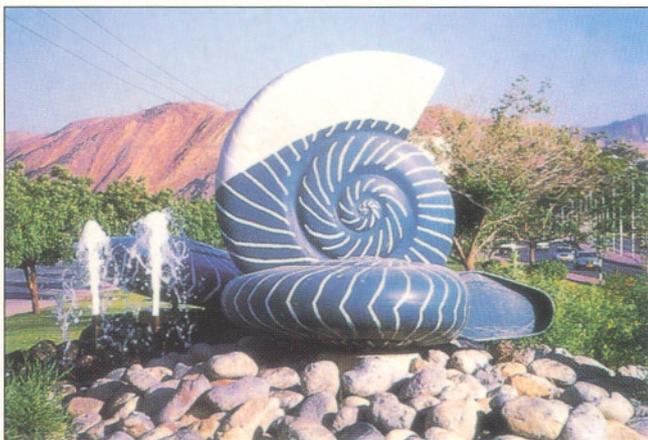
Gulwing shaped Shade structure



GRP jewellery and box



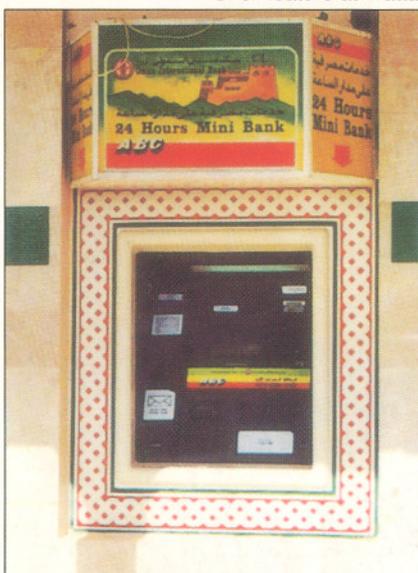
Passenger shelter



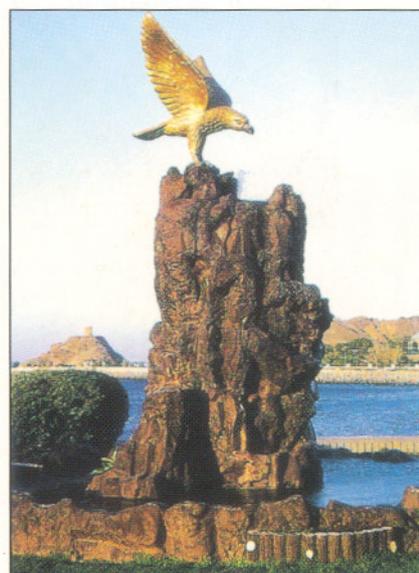
Shell feature at Wattaya



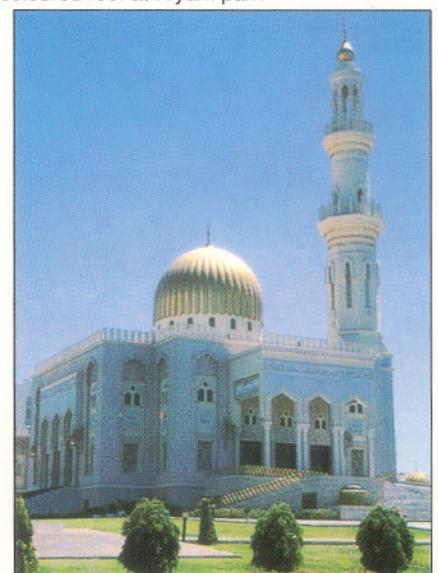
Multicoloured roof at Riyam park



Decorative borders for OIB, ATM



Golden eagle at Muttrah corniche



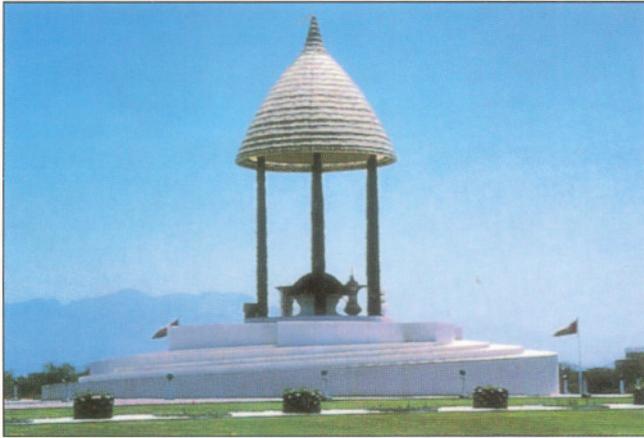
Zawawi Mosque - Golden Dome



Shell and Pearl at Sohar



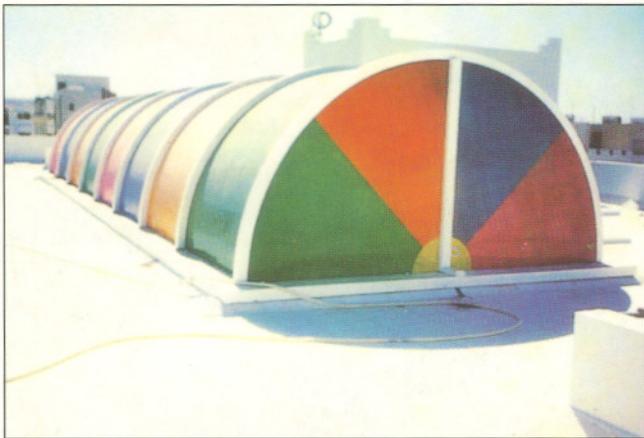
Decorative dome at Sultan roundabout



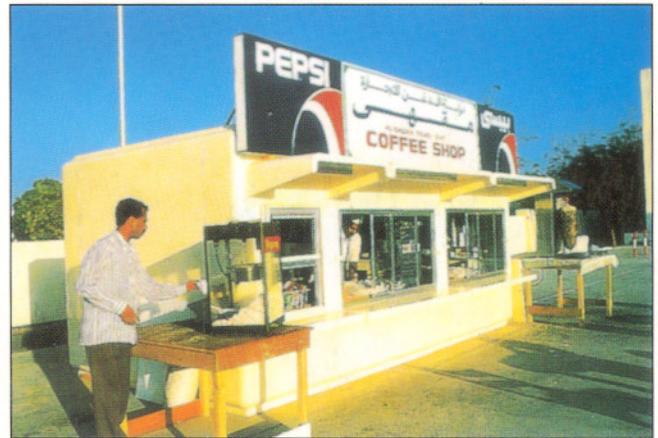
'Shat' feature at Naseem park roundabout



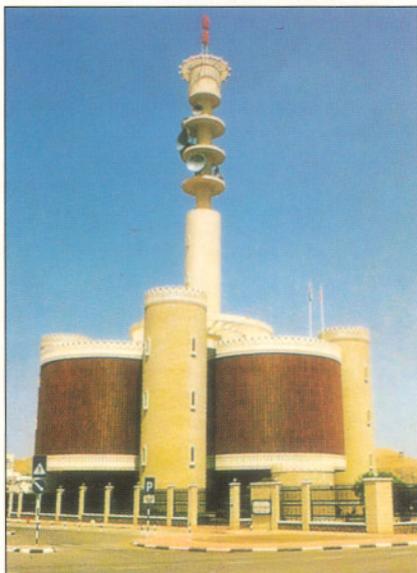
Lion fountain



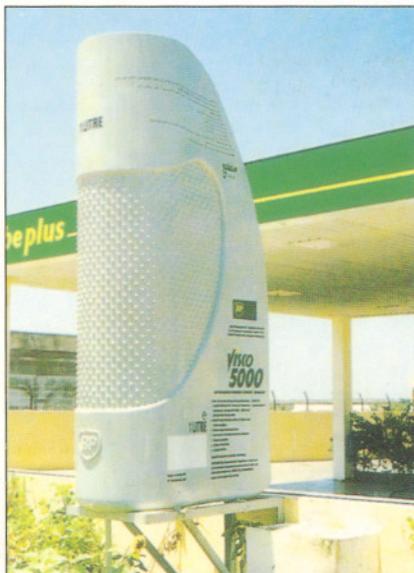
Multicoloured barrel vault roof



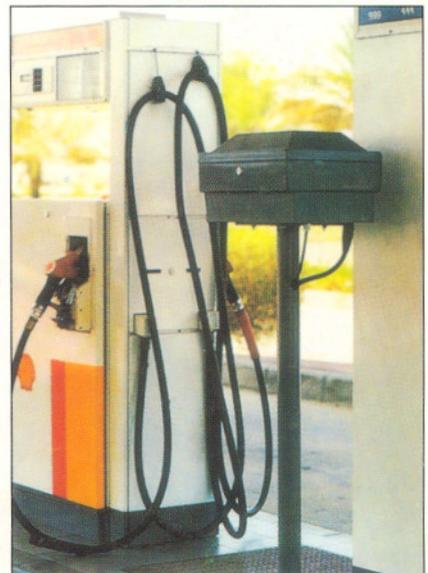
Cafeteria



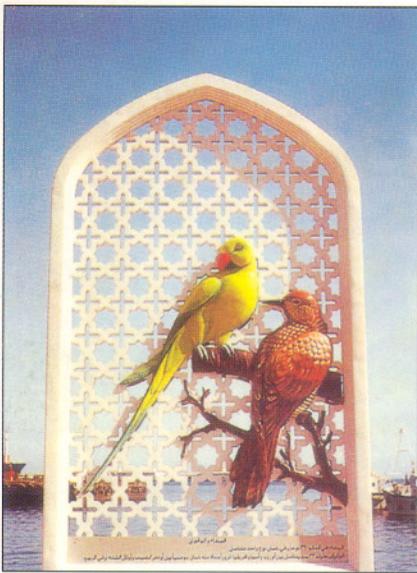
GTO building - Fort feature



Giant oil can for B.P.



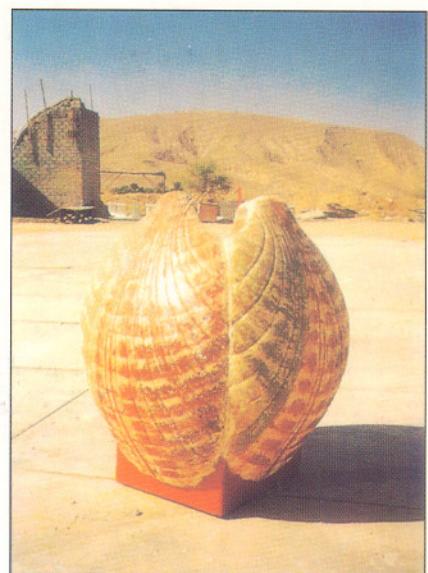
Card reader box for Shell



Decorative panels at Muttrah cornice



Model of a large Harp Supplied to ROSO



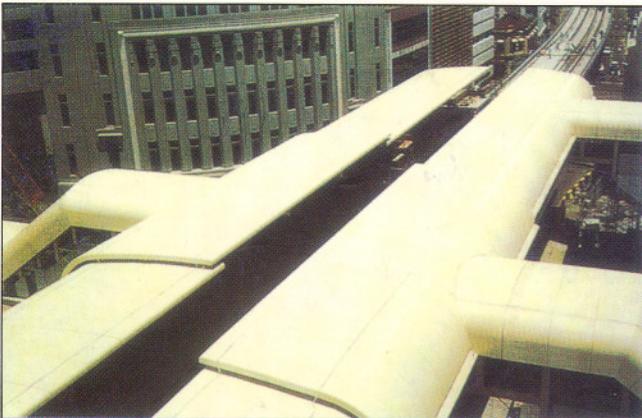
Shell Shaped litterbin

Some of the Export orders

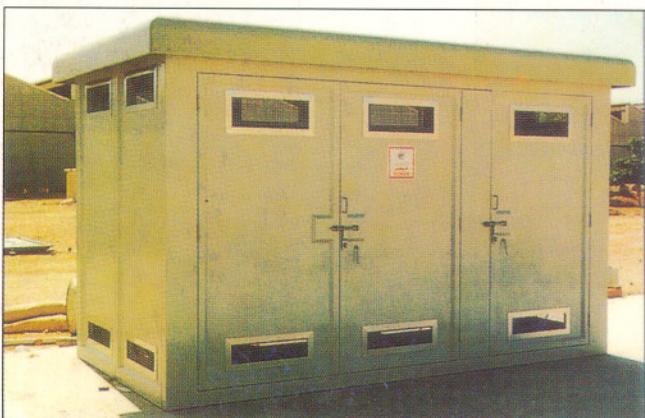
Amiantit is now geared to undertake projects outside the Sultanate also. Some of the projects already undertaken are pictured here.



Peace Monument at Qatar



GRP Roof for Starlight Rail transit system - Masjid Jamaek Station Malaysia



Substation Kiosks for Dubai Electricity and water authority



Trough moulds for Hong Kong Airport

GRP Products in construction industry

GRP (Glass Reinforced Polyester) has several advantages which make it particularly suitable for numerous applications in the construction industry. GRP is ideal for producing Architectural components to create striking elevational features in a building.

Mouldability:

GRP can be moulded to a wide range of shapes and sizes. Where higher structural Strength is required special profiles and ribs can be incorporated in the design to attain self supporting characteristics.

Light weight:

The component weight achieved with GRP are 1/8th to 1/10th of an equivalent. concrete element. These advantages offer substantial savings.

Corrosion and weathering resistance:

GRP is resistant to a wide spectrum of chemicals and marine environment. Structures manufactured with the right materials indicate no deterioration even after several years of usage.

Thermal insulation:

GRP has low thermal conductivity (3.5 W/m² deg. C. for a 5mm thick laminate). This can be further reduced to 1.4 W/m² deg. C. by incorporating PU foam or wood as a sandwich core material in a GAP laminate which will also increase the structural rigidity.

Structural Strength:

Strength/Weight ratio of GAP is several times higher than steel.

Fire Rating:

Whenever required Amiantit can manufacture GRP products which possess a fire retardancy confirming to BS:476 parts 3, 5, 6, & 7 of 1971 and a surface spread of flame of class1.

Acoustic insulation:

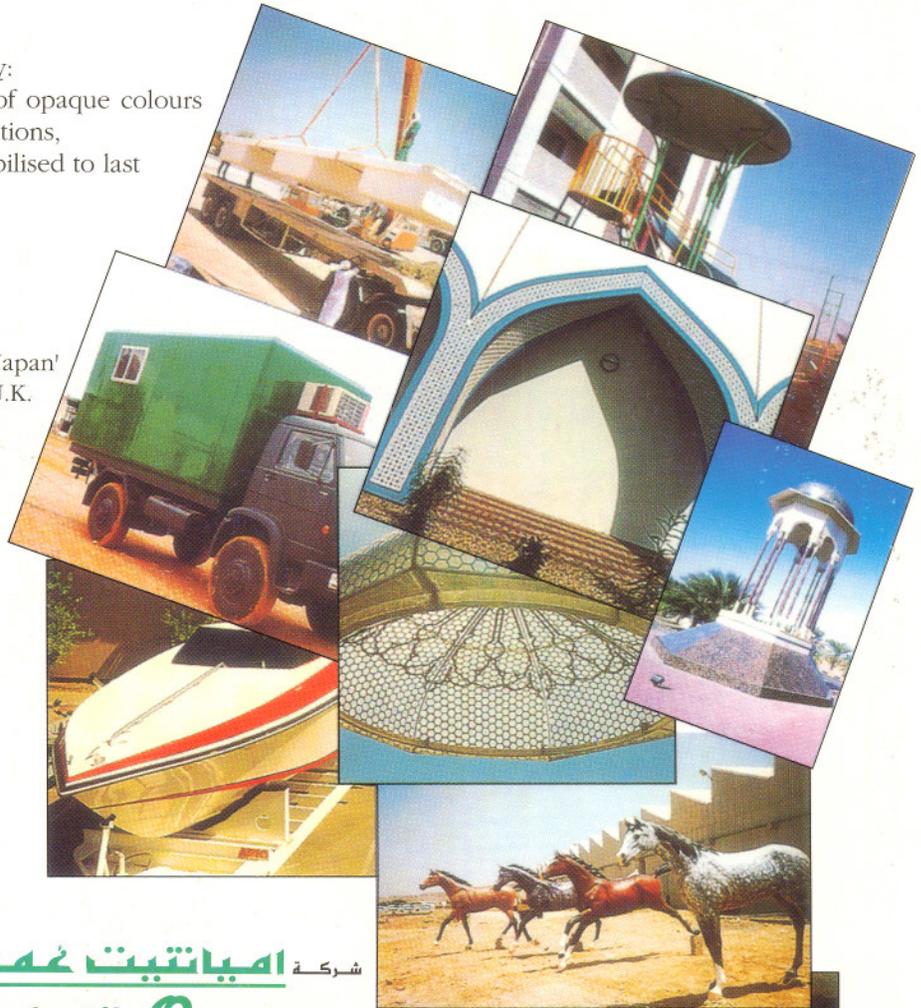
GRP offers good sound reduction properties.

Availability in varied colours and translucency:

GRP can be manufactured in a wide range of opaque colours and translucent shades to suit various applications, Gelcoat colours used at Amiantit are U.V. stabilised to last for several years of exposure.

Some of the GRP products manufactured at Amiantit

Fishing boats under license from 'Yamaha Japan'
Modular building under licence from Glasdon U.K.
GRP pontoons (floating bridge Platforms)
Water and other liquid storage tanks
Septic tanks & Sewage holding tanks
Manhole chambers
GRP ladders
Moulds for concrete casing
Gratings
Domes
Finials
Fascias
Roof sky lights
Equipment housings
Architectural shade structures
Roofing and cladding sheets
Models and monuments
Logos & Lettering
Furniture
Insulated Vehicle bodies



شركة امياتيت عمان ش.م.ع

Amiantit Oman Company L.L.C.

P.O. Box 417
Central Post Office
Postal Code 111
Sultanate of Oman
Tel: 626600/22/626077/626324 Fax: 626611
Email: amian@omzest.com

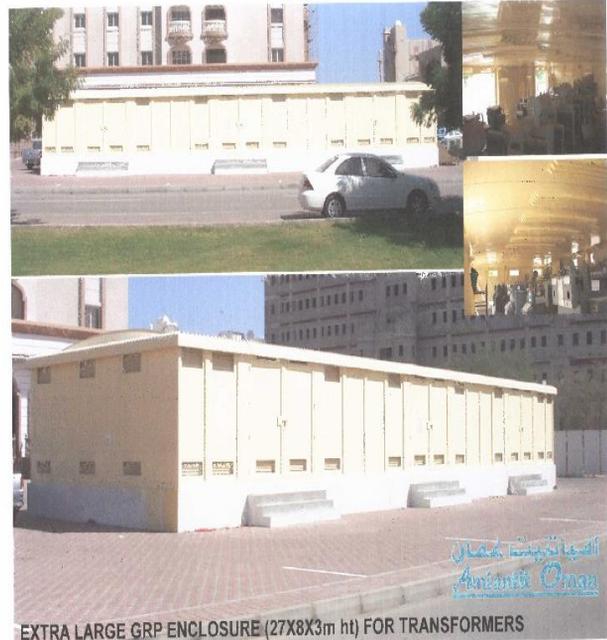




FGRP SUBSTATION KIOSK for MEDC SAOC

Features:

- All GRP Construction
- Corrosion / Maintenance Free
- Water / Weather Proof
- Warrington Fire UK approved for Fire Retardancy test.
- Microbe / Termite / Rodent / Vermin proof.
- Withstands 125km/hr wind speed, heavy rain and heat generated by substation.
- Modular in construction.
- Transported in a CKD kit form.



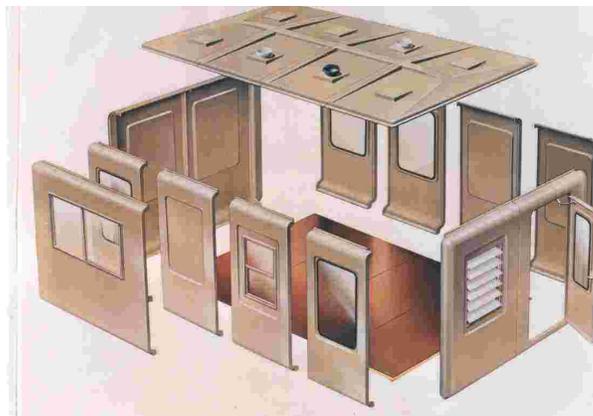
GRP Substation Kiosk for MEDC

Amiantit Multipurpose Modular Buildings manufactured from Glass-Reinforced Polyester (GRP) composite material.

Multipurpose Modular Building System, manufactured by **Amiantit Oman** is suitable for a wide range of applications like Accommodation cabins, Offices, Tourism information Kiosks, Product display rooms, Guard houses, Pump rooms, Equipment housings, Ablution units, etc.

Modular Buildings manufactured by **Amiantit Oman** consists of Side and Roof panels, designed to satisfy a diverse range of needs. The system consists of a number of standard Wall panels and a choice of many optional features from which it is possible to compose well designed permanent buildings. These buildings are presently available in 1.5m, 2.5m, 2.8m, 3.8m, 5.0m, 6.0m and 7.6m widths with practically no limitations in the length. The length of the buildings can be increased any time by bolting additional Side and Roof panels.

Small sized buildings are normally delivered fully assembled and off loaded by vehicle mounted crane, ready for simple Base fixing and occupation. Alternatively, in situations where size or site access restrictions exist, Buildings are delivered in panel form for on-site assembly and erection. Normally, these buildings are erected on a Concrete plinth of minimum 150 mm thick and the same will serve as the floor of the building. Where there is a need for frequent shifting of the building is required, the building can be mounted on a steel skid with in-built Floor panels for the convenience of portability.



Advantages of GRP Modular buildings over Conventional Porta Cabins :

1. GRP being water and moisture resistant has a long life span and hence serves the purpose of permanent buildings with additional value for money spent.
2. Aesthetic design and appearance enables construction approvals from Government and other Authorities for all locations.
3. Available in U.V. stabilized built-in colours without having the need for repainting even after several years of use.
4. Light in weight and hence no need for any heavy foundation or plinth.
5. Can be transported in knocked down condition and can be easily installed and relocated with minimum manpower.
6. Light weight panel construction provides for future modifications, relocation and expansion of Cabin sizes in 1.0m increments.
7. Thus, GRP Modular Cabins can be virtually custom built for any conceivable application.

Please see the attached images showing some of the typical applications.

For further information on the above product please feel free to contact Amiantit Oman Co. LLC., P.O. Box 417, PC 111, Sultanate of Oman, Telephone No. 24446600, Mob#95474543 Fax No: 24446611 email: avesh_amiantit@omzest.com website: www.amiantitoman.com



Accommodation Units-Dimaniyat Island



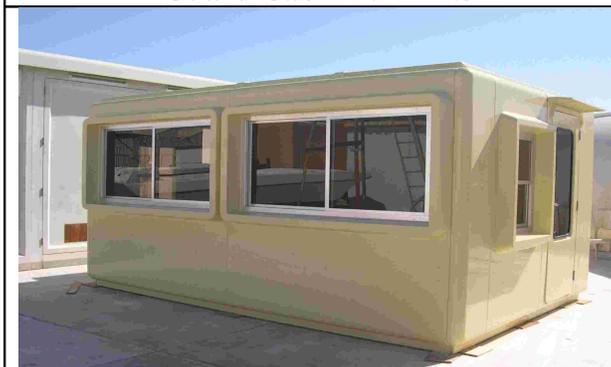
Mobile Toilet Units for MOD.



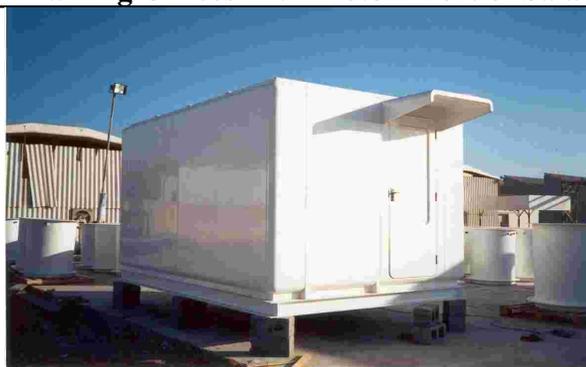
Guard Cabin-2.2mx1.5m



Training Offices-14.2mx3.8m Port of Salalah



Guard House-4.2mx2.5m



Equipment Housing-4.2mx2.8m-PDO



Gas Analyser Housing-OLNG Sur



Office Cabins at Port of Salalah 12.2mx6m



Accommodation Units-12.2mx3.8m



3.2M long Cabin being lifted for transport

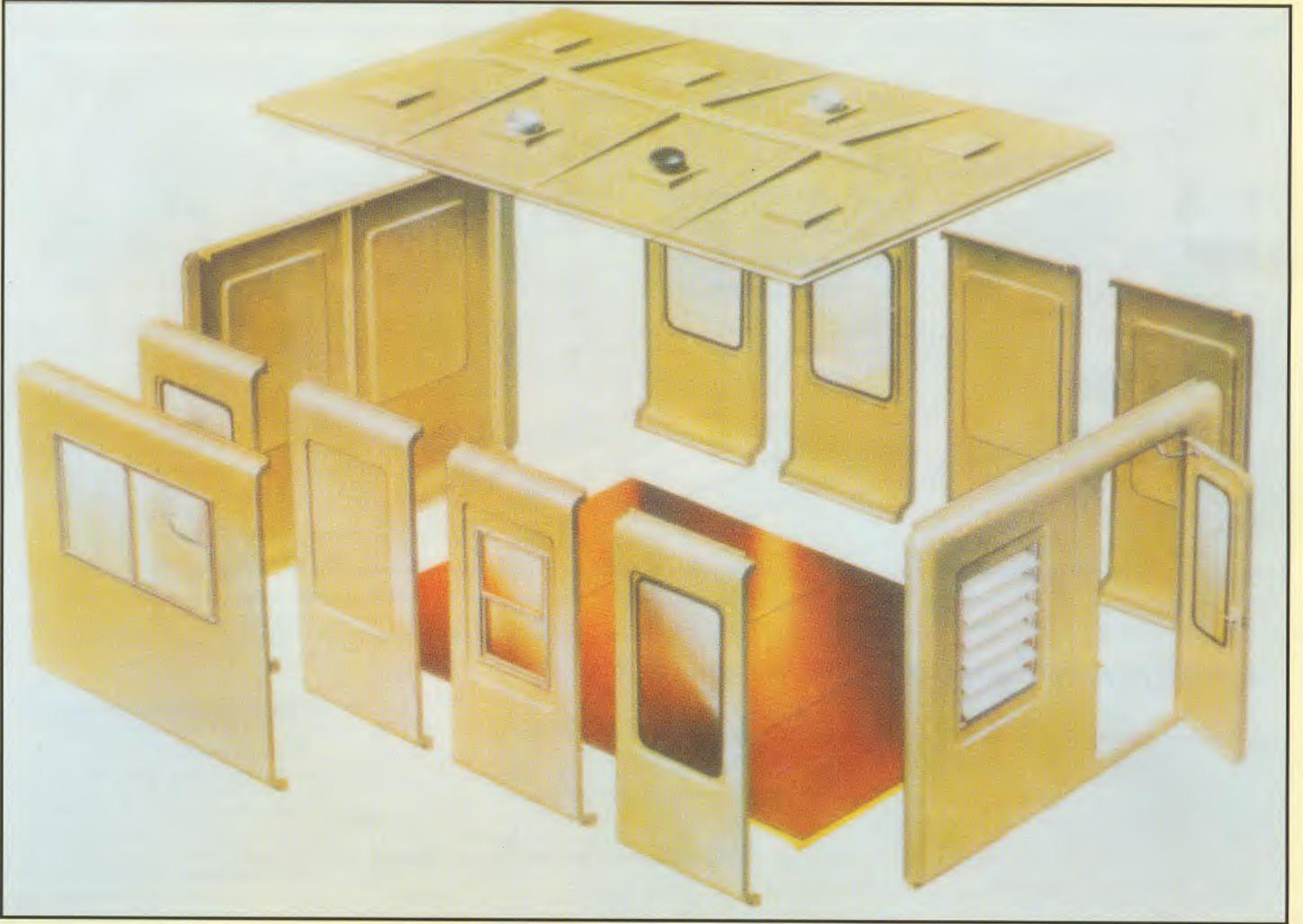


Multipurpose, Modular Building System By Amiantit Oman

أغراض متعددة
مباني جاهزة
من الوايبرجلاس

Multi Purpose
**MODULAR
BUILDINGS**

In (GRP)
FIBREGLASS



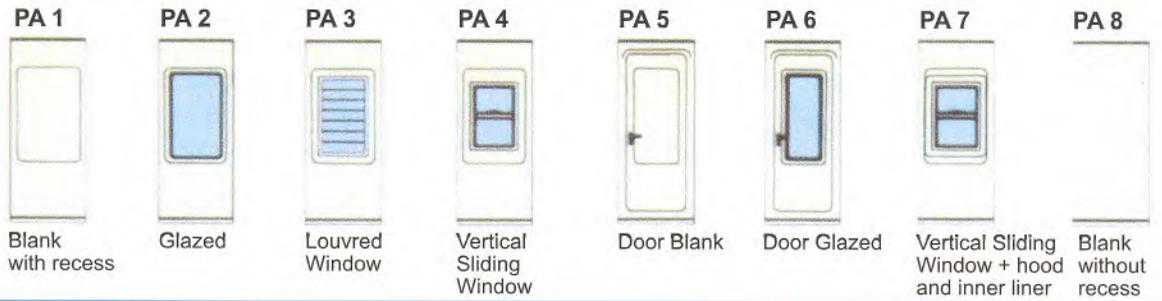
Amiantit Oman Company LLC.

شركة **امياتنيت عُمان** ش.م.م.

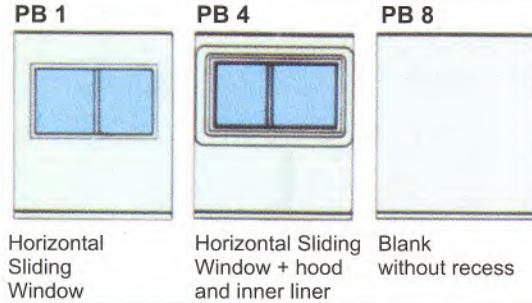
P.O. Box 417 , Central Post Office
Postal Code 111, Sultanate of Oman
Tel.: (968) 24446600 (6 Lines)
Telex : 5304 AMIANTIT ON - Telex : 24446611
E-mail : amian@omzest.com
Website : www.amiantitoman.com

ص.ب : ٤١٧ ، البريد المركزي
الرمز البريدي : ١١١ - سلطنة عُمان
هاتف : ٢٤٤٤٦٦٠٠ (٩٦٨)
تلكس : ٥٣٠٠٤ امياتنيت - تلكس : ٢٤٤٦٦١١
البريد الإلكتروني : amian@omzest.com
www.amiantitoman.com

1.0 m Side Panels



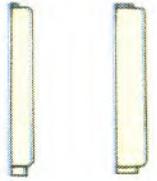
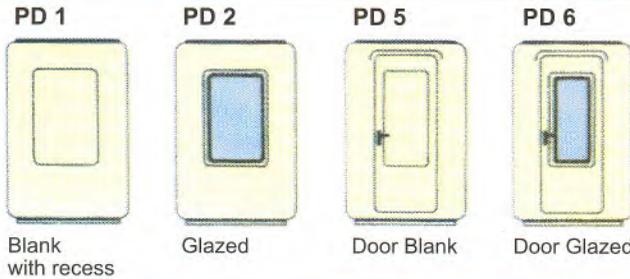
2.0 m Side Panels



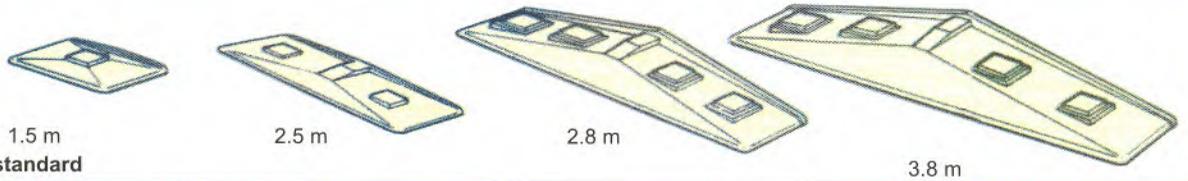
ADVANTAGES

- *Light in weight*
- *High in strength*
- *Water resistant*
- *Easy to install*
- *Can be supplied with*
- *Fire retardant resin*

1.5 m End Panels



Roofs



Fully insulated as standard

Additional Features (Optional)

- | | | |
|--|---|--|
| Ref.1 Nest of three adjustable shelves (810mm x 305mm) 15mm white plastic coated chipboard. | Ref.4PP Additional 13 amp plug point. | Ref.11 Electric fan convector heater. 3kW, 3 speed, wall mounted, wired integrally to switched socket. |
| Ref.2A Worktop with lockable drawer (810mm x 380mm) 15mm white plastic coated chipboard. | Ref.5 Hit-and-Miss ventilator. (230mm x 150mm). For low level ventilation to panels or doors. | Ref.12 External GRP shutters for glazed areas. |
| Ref.2B Worktop with lockable drawer (1800mm x 380mm) 15mm white plastic coated chipboard. | Ref.6 Electrically operated ventilators suitable for roof or wall mounting. Extractor rate 260m ³ /hr. | Ref.14 Additional timber reinforcement within double skin GRP 18mm ply. |
| Ref.3 Additional thermal insulation 18mm fire retardent polyurethane foam. | Ref.7 Manually operated clear acrylic double skin roof ventilator (360mm x 360mm) | Ref.15 Internal partitioning. Twin 12mm plywood panels on 50mm x 38mm timber studding, Solid, glazed and door panels. |
| Ref.4A Electric light and power point. Includes one 4ft 40 watt fluorescent light fitting wired integrally to fused switch box and 13 amp plug socket ready to receive mains supply. | Ref.8 Antisun Solar Control Glass (Grey) | |
| Ref.4LF Additional 4ft 40watt fluorescent light fitting. | Ref.9 Double glazing. Hermetically sealed toughened glass. | |
| | Ref.10 Obscure glazing. Standard toughened glass, sandblasted. | |

External G.R.P. shelves (400mm projection)



1.0m
Ref.18A



2.0m
Ref.18B

External G.R.P. canopies (700mm projection)



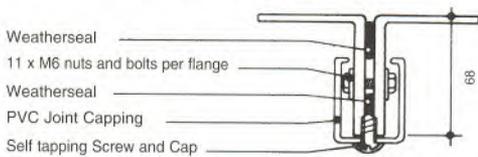
1.0m
Ref.19A



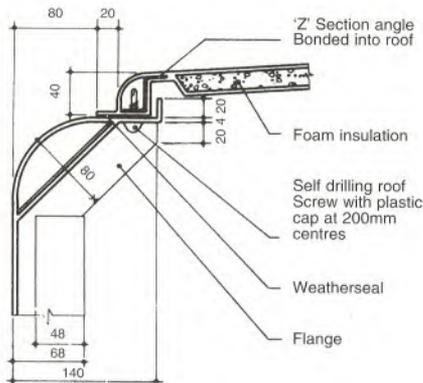
2.0m
Ref.19B

Length variable to suit panel widths

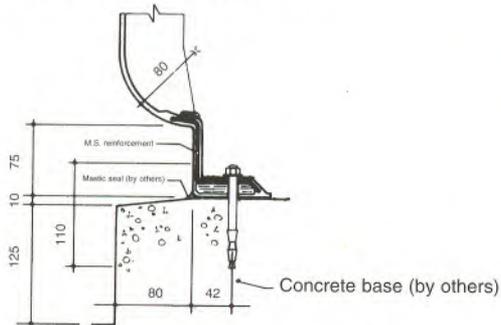
Side Panel Fixing Detail



Roof Fixing Detail



Base Fixing Detail



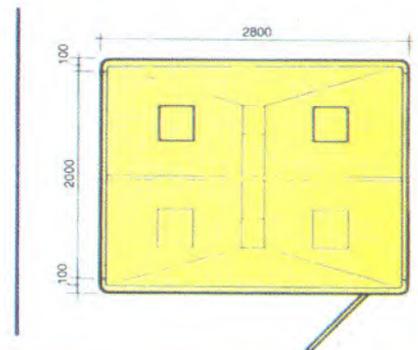
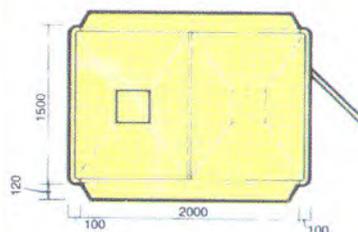
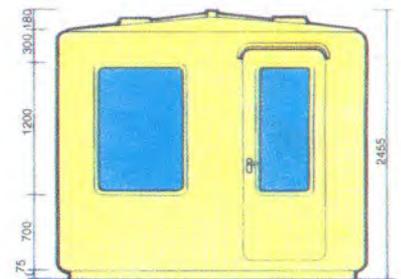
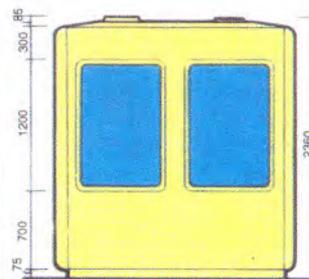
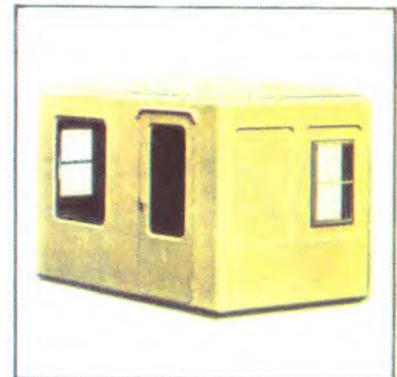
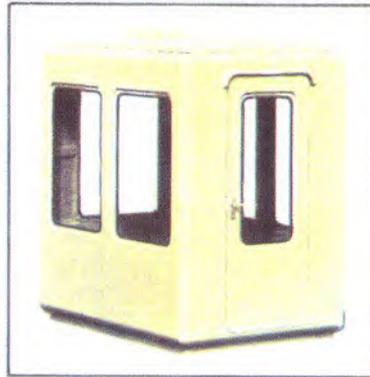
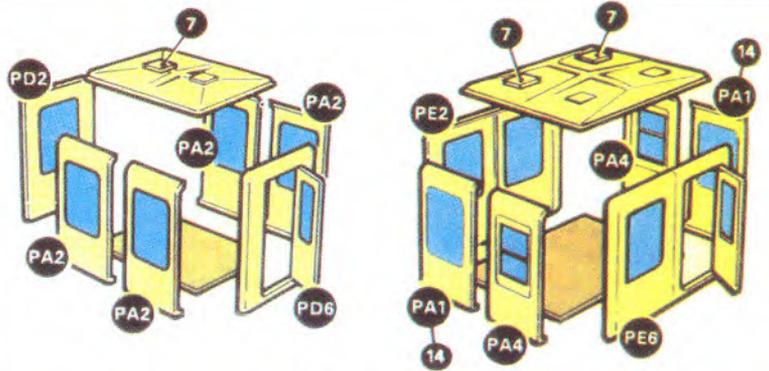
Base fixing accomplished by means of Torgrip 10 expansion bolts (see Additional features Ref. 17).
Tensile force 9.0kN. Shear force 7.0kN.
Ref: M10 x 110/S hot dipped galvanised
Drill diameter: 10mm
10mm holes to be drilled on site, through pre-drilled holes in kiosk base, to a minimum depth in the concrete base of 90mm
2 no. for each 1m side panel
3 no. for each 2.8m end panel
4 no. for each 2.0m side panel

Base Dimensions

Assuming no suitable existing surface, base to be a minimum thickness of a 125mm concrete on to hardcore, preferably base should be raised slightly above surrounding ground level.

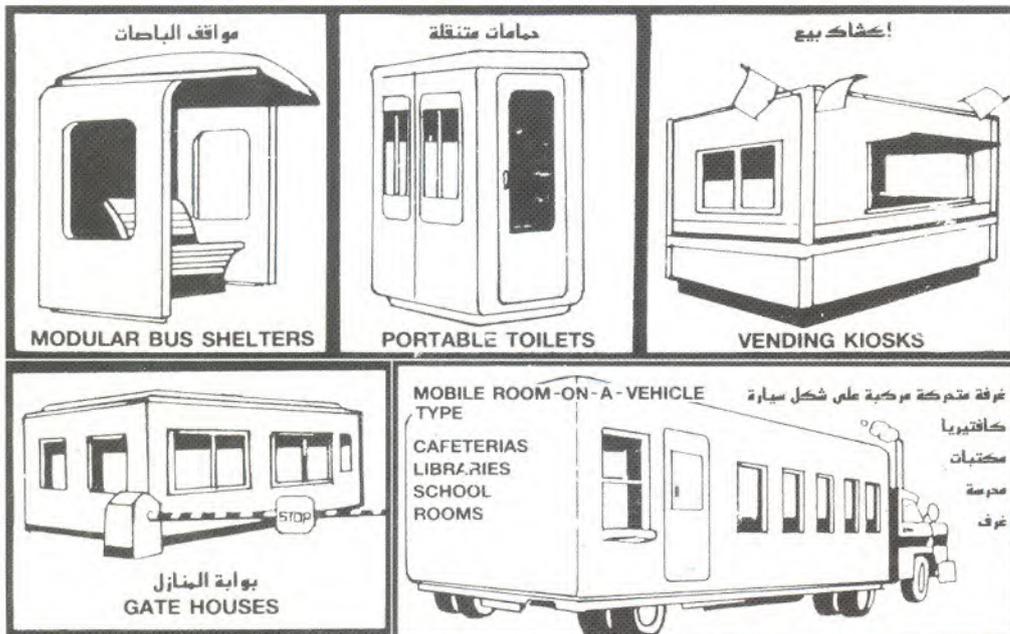
NOTE:

In accordance with our policy of continuous development and improvement we reserve the right to make changes in design and specification without notice. We reserve the right to amend our prices without notification.



Technical Information

| | | |
|------------------------------------|--|---|
| Panel Make-up | External finish GRP Laminate Internal finish | Isophthalic polyester pigmented resin (gelcoat) General purpose polyester resin and glass reinforcement Washable, pigmented resin coat. |
| Glazing | Fixed window, Door window Sliding window Display glazing - 1m, 1.5m panels Display glazing - 2m, 2.8m panels | 4mm toughened glass secured in rubber gasket 4mm toughened glass in aluminium frame 6mm plate glass secured with aluminium frames 10mm plate glass secured with aluminium frames |
| Alternative Galzing | 6mm Georgian wired glass Double glazing (Hermetically sealed). (Ref. 9) Antisun solar control glass (Grey). (Ref. 8) | Available as an alternative in fixed glazed sections only (with rubber gasket) Available in fixed glazed sections only (with rubber gasket) Available for any glazing |
| Insulation | 'U' value (standard panel) Additional thermal insulation (optional) 'U' value (where additionally insulated) | 1.0 BTU/ft ² °F (5.6W/m ² °C) 18mm fire retardant polyurethane foam 0.2 BTU/ft ² °F (1.12W/m ² °C) |
| Timber Reinforcement | 18mm plywood between GRP skins 18mm plywood between GRP skins 18mm plywood between GRP skins. (Ref.14) | Lower half of all panels as standard PA8, PB8, PC8, PD8, and PE20 over entire area as standard Upper and lower sections of blank panels, where additional reinforcement specified by client |
| Doors | Standard Door Alternative Standard Door (2.8m panel) Extra wide Door Roller shutters to door and window openings | 750mm width. Right hand hung, outward opening All standard external doors fitted with door closer and check strap Left hand hung and/or inward opening Situating in right hand half of panel only 1075mm width (1.5m panel only) Extruded PVC metal reinforced Alternative anodised aluminium |
| Roofs | Unit width 1m, 1.5m, 2.5m, 2.8m, 3.8m | Roof made up in 1m sections |
| Floor panels | Normally not supplied | Concrete base to act as the building floor. Floor finishes can be provided to client's specification at extra cost |
| Standard Electrics (Ref.4A) | Socket Circuit Light Circuit Power Supply | One 13 amp 3 pin socket outlet One 4ft fluorescent light fitting wired to 5 amp fuse through rocker switch. Two way consumer unit with 30 amp and 5 amp fuse. All wiring carried out with surface mounted 20mm plastic conduit. Connection to mains supply through base of building by others. |
| Colours | Standard production colour alternative colour of customers' choice Internal finish | Beige BS 2600 range, 4048 (Nearest equivalent BS 4800 10 B 17) Available at additional cost Beige Portaflek (Fire rating BS 476, Parts 6 and 7 Class 1) OR pigmented resin flocoat. |
| Weights | Examples: | 1m x 1.5m unit - 215 Kg (473 lbs) 2m x 1.5m unit - 450 Kg (990 lbs) 2m x 2.8m unit - 550 Kg (1120 lbs) 4m x 2.8m unit - 1014 Kg (2230 lbs) |
| Sound Reduction | Average Sound Reduction of a typical unit | 10-15 dB in the 100-5000 cps, range |
| Fire Reduction (optional) | Fire retardancy (resin) Fire retardancy (gelcoat) For special applications a Class 1 gelcoat may be used | BS 476 Part 3, 5, 6 and 7 1971. Surface spread of flame Class 1 Class 2 of the above BS specifications |
| Wind Loading | | Wind loading /unglazed panels - approximately 6,000N/m ² Wind loading /glazed panels - approximately 3,000N/m ² |
| Availability | Average manufacturing time required | Approximately 4-8 weeks |



Amiantit Oman Company LLC.

P.O. Box 417, Central Post Office
Postal Code 111, Sultanate of Oman
Tel.: (968) 24446600 (6 Lines)

Telex : 5304 AMIANTIT ON - Telex : 24446611

E-mail : amian@omzest.com

Website : www.amiantitoman.com