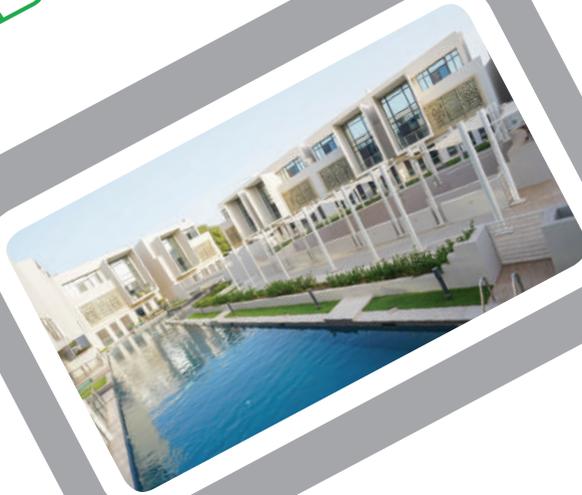


**GREEN IDEAS FOR A
BETTER TOMORROW**

أفكار خضراء لغد أفضل



▶ ABOUT US

Horizons Industrial Development Co. L.L.C. (HIDC) with exclusive manufacturing rights of the Glass Fiber Reinforced Gypsum Panels commercially known as Rapidwall®.

Rapidwall® Building Systems by Horizons Industrial Development Co LLC is a new age solution to current day construction constraints like shortage of manpower, excess usage of water, spiraling cost of steel, cement. Rapidwall®, is an energy efficient green building material with huge potential for use as load bearing wall. In the last 12 years in Oman market, Rapidwall® panels has been successfully used to build Villas, Office buildings, Commercial buildings, Industrial warehouses and boundary walls. In current competitive market, investors can bring their projects to the market almost 50% ahead of target date at a reduced cost.

OUR HISTORY

Horizon Industrial Development Company L.L.C. (HIDC) is a grade One Oman based company, established in 2008. Our product Rapidwall is fully manufactured in Oman and proudly an Omani product. The production facility based in Sohar industrial Area Phase-3. Our high quality and reliable Production, as well as 12 years of experience in Oman market makes us as unique partner. We are trusted by leading developers in middle east.

OUR VALUES



Innovation

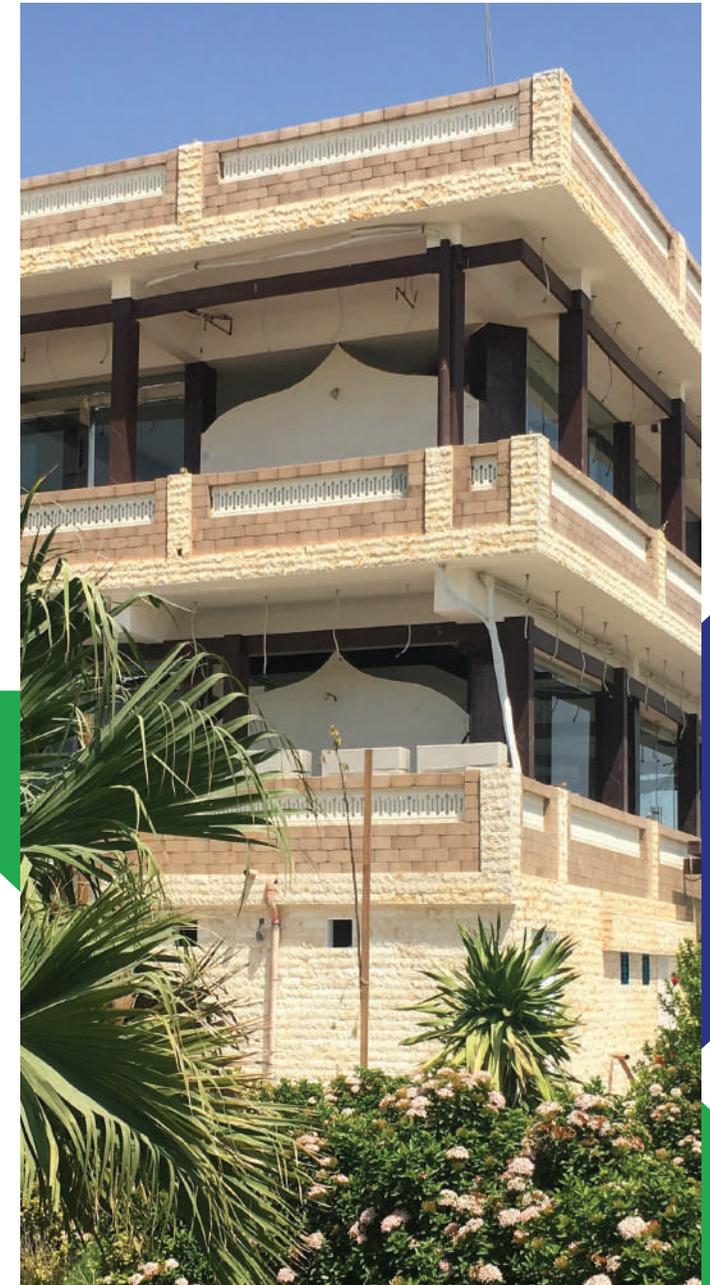
Omanization

Professionalism
& Quality

Safe, Health
& Happy
Staff

Beneficial
Partnership
with client

Social
Responsibility

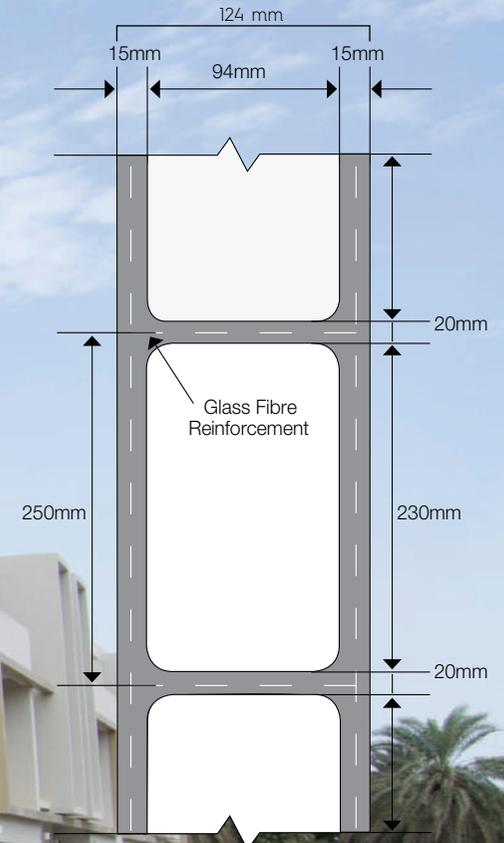
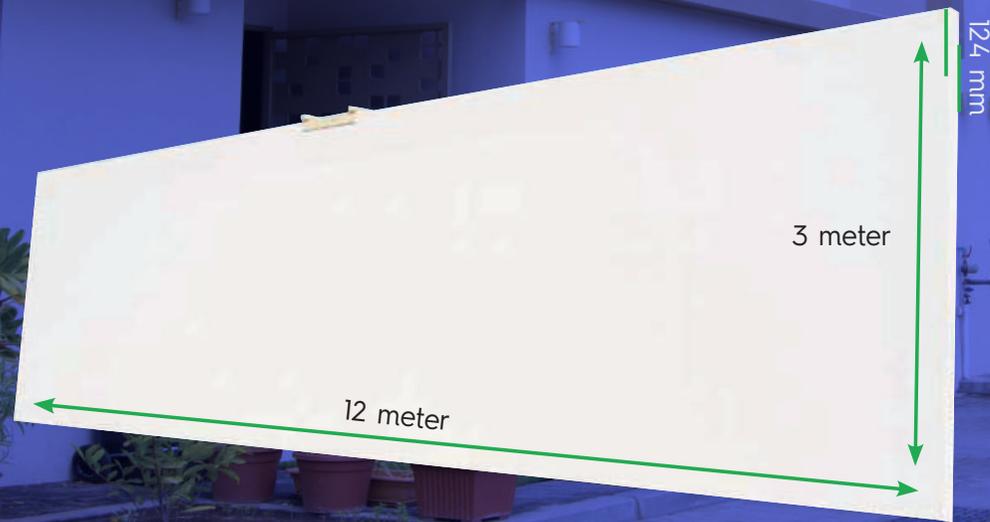


SUPERIOR BUILDING MATERIAL

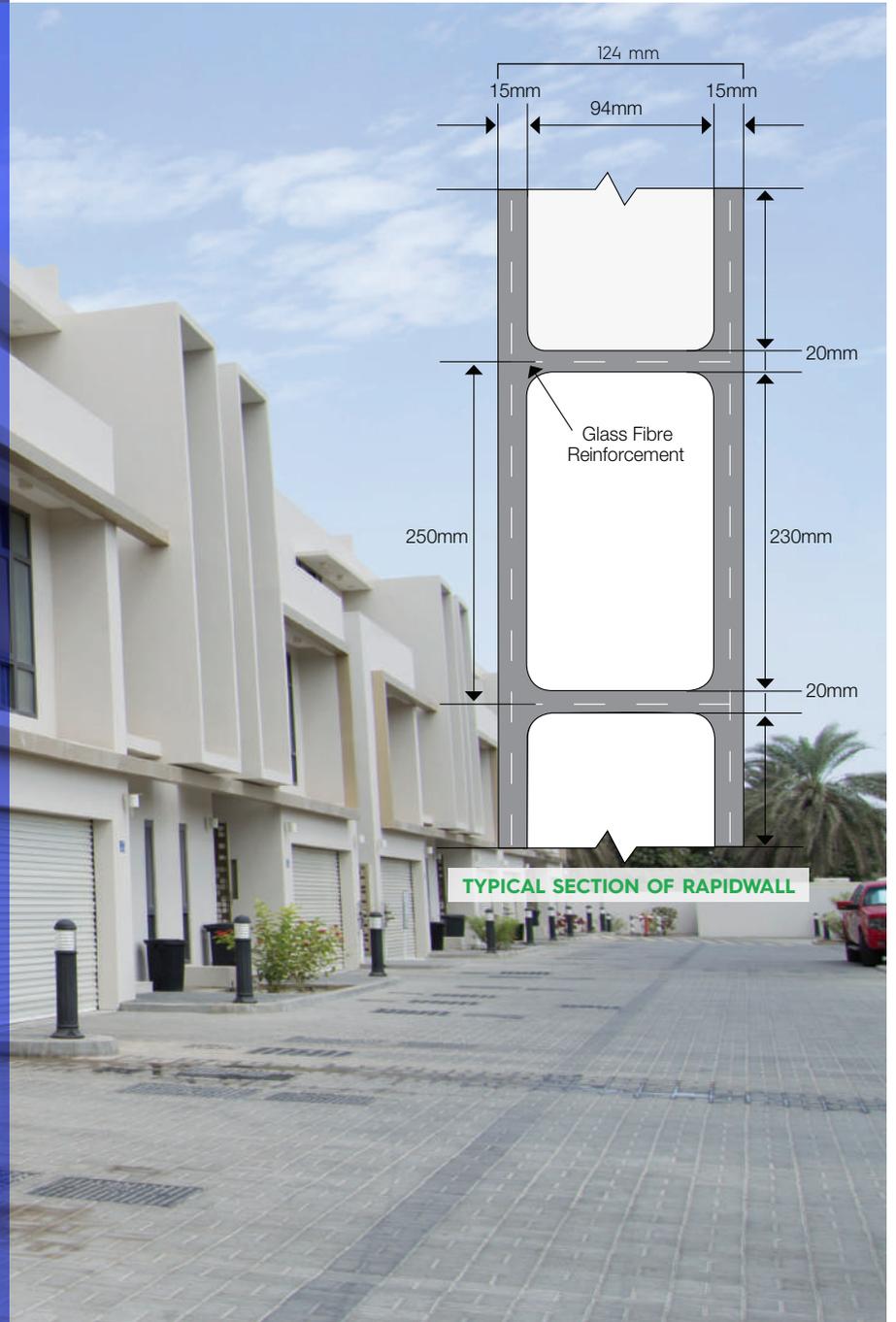
Rapidwall® is a revolutionary, low cost pre-fabricated, load bearing walling product suitable for use in high-rise residential, commercial and industrial building construction.

Rapidwall® is manufactured in an automated moulding process, using glass fiber reinforced, water resistant gypsum plaster. After removal from the casting table the flat, single sized, panels are air dried. The technically advanced manufacturing process provides a durable walling product with structural properties that makes Rapidwall® panels load-bearing & well suited for use in earthquake-prone areas.

All panels are 12mtr long and 124mm thick and can be produced in heights of 3mtr. Construction using the precise Rapidwall® panels is very fast, low cost and eliminates the need for brick, blocks, wall framing and wall-board. Rapidwall® can be used as floor / roof slab.



TYPICAL SECTION OF RAPIDWALL



LOAD - BEARING

Rapidwall® is lightweight, (only 40kg/m² or approximately 12% of the weight of a concrete or brick wall) and is stronger than conventional materials. Furthermore, it is load-bearing and can be used for external & internal walls as well as for roofs or floors in combination with reinforced concrete cavities. Rapidwall® is a system that has been proven in exhaustive scientific testing to withstand considerable loads and is therefore ideal in earthquake prone areas; can be constructed to withstand high winds, such as cyclones and hurricanes; uses natural gypsum and is recyclable; can be used in load-bearing buildings of up to 15 storeys is ideal for repetitive design construction and can be erected in a fraction of the time of other building methods.

RAPIDWALL® FOR AFFORDABLE QUALITY CONSTRUCTION

Rapidwall® Panel provides a new method of building construction in fast track, Fully utilizing the benefits of prefabricated, light weight large panels with modular cavities and time tested conventional cast-in-situ constructional use of concrete and steel reinforcement. By this process, man power, cost and time of construction is reduced. Conventional construction involves various cumbersome and time consuming processes. In contract, Rapidwall® construction is much faster and easier. There will be no debris left at site. Rapidwall® enables load-bearing wall by wall construction. Rapidwall® also does not require framed structure construction and wall plastering, as Rapidwall® both surfaces are smooth and ready to receive paint.

RAPIDWALL® BUILDING / HOUSING IS COOLER

A comparative research study, found that in summer indoor temperature of Rapidwall® building is cooler by 2 to 5 degrees Celsius as compared to concrete building. The high thermal resistance of Rapidwall® will keep interiors cooler in summer and warmer in winter, saving substantial recurring energy use.

SUPERIOR FINISH

The finish of Rapidwall® is smoother and flatter than equivalent pre-cast concrete, in-situ concrete or masonry walls. Rapidwall® provides the ideal green structural walling material for contemporary architectural designs. Rapidwall® panels can be finished in a range of decorative texture finishes and can include bands, quoins and rendered finishing.



EARTHQUAKE RESISTANT

When used as load-bearing shear walls Rapidwall® exhibits superior ductile qualities that makes it safer and effectively stronger than reinforced masonry. Its mechanical properties make Rapidwall® a superior earthquake resistant structural walling product for both vertical and lateral loads.

WATER & FIRE RESISTANT

Rapidwall® provides essential protection against fire and water. Rapidwall® buildings will have two, four hour fire resistance once filled with insulation and concrete respectively. Rapidwall® panels are manufactured with water repellent additives which makes the product as water resistant. Rapidwall® panels absorb water Less than 5% of its weight when completely immersed in water for 48 hours.



LIGHT WEIGHT & ACCURATE

Compared to other building materials each lightweight Rapidwall® panel can be easily installed with a small crane (maximum lift 1.5 tonnes) and because of the reduced weight, savings can also be made on the cost of foundations. A similar (12mtrx3mtrx124mm) concrete wall panel weights over 10t in comparison with Rapidwall® which weigh only 1.5t. A normal truck can transport upto 450m² Rapidwall® panels compared to 125m² of Precast concrete blocks.



ECONOMICAL

Rapidwall® has an installed cost considerably lower than that of an equivalent standard precast concrete wall. Rapidwall® costs less than equivalent masonry walling over which it also enjoys an up to 10% spacesaving. Because Rapidwall® is quicker and easier to erect, projects are finished faster and development funds are tied up for shorter periods. Rapidwall® can eliminate the need for bricks, timber walls, frames and plaster board linings.

ACCOMMODATE BUILDING SERVICES

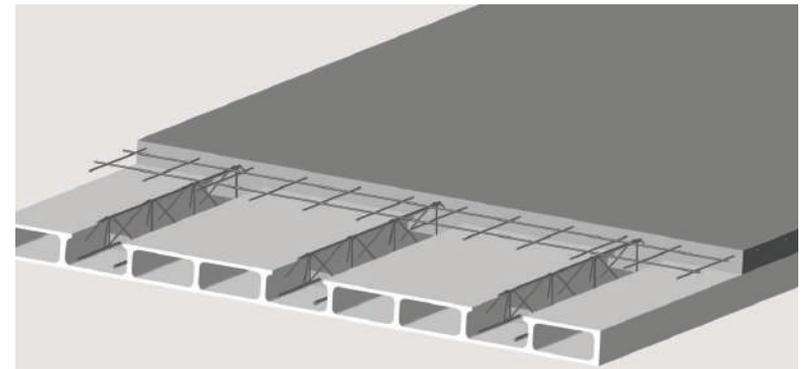
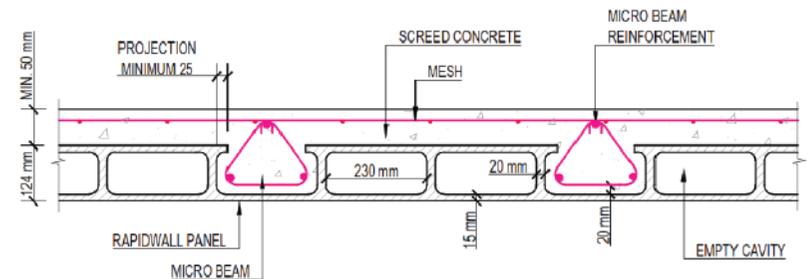
The cellular panels can be used to accommodate building services such as plumbing & electrical conduits. They can be left empty or filled with insulation for increased thermal performance or they can be filled with structural grade concrete for increased axial strength. All MEP lines are concealed in cavities will avoid chipping and repair. MEP works done at site makes better design flexibility for the designer & the end user.



RAPIDWALL® FOR FLOOR / ROOF SLAB

Rapidwall® used for floor / roof slab with embedded micro beams. Rapidwall® slab act as one way slab, concrete is done on the top of the Rapidwall as screed. The screed thickness may varies from 8cm to 12cm as per the structural design.

Rapidwall® slab will give better thermal insulation than the conventional slab. Overall slab thickness varies from 20cm to 25cm.



TECHNICAL PROPERTIES

Shear Strength (SS) of vertical Rapidwall® panels	
Description	Shear Strength ϕR (KN/M)
Unfilled Rapidwall® Panel	21.6
Rapidwall® Panel Filled with 25MPa Concrete	61

Sound Transmission Class (STC) values of various forms of Rapidwall® construction	
Description	STC
Single leaf Rapidwall® unfilled	28
Single leaf concrete-filled Rapidwall®	45

Thermal Resistance (TR) values of various forms of Rapidwall® construction	
Description	R (m ² K/W)
Single leaf Rapidwall® unfilled	0.36
Single leaf Rapidwall® filled with 20MPa normal concrete	0.25
Single leaf Rapidwall® filled with light weight concrete	0.6

MECHANICAL PROPERTIES

The table below provides the various mechanical properties of Rapidwall® panels when used empty and when concrete filled.

Description	Property	Value	Note
Unfilled Rapidwall® Panel	Uni-axial compressive strength	160 KN/M	As per design manual
	Uni-axial tensile strength	34-37 KN/M	
	Out-of-plane flexural rigidity EI , rib parallel to span	3.5×10^{11} Nmm ² /m	
	Out-of-plane flexural rigidity EI , rib perpendicular to span	1.7×10^{11} Nmm ² /m	Strength obtained from longitudinal compression/tension tests with ribs vertical.
	Unit weight	40kg/m ²	
	Thermal expansion coefficient	12×10^{-6} mm/mm/°c	
	Water absorption	<5%	Water absorption by weight % after 24hours of immersio
Mohr hardness	1.6		
Rapidwall® panels filled with 20 MPa concrete in all the cores	Uni-axial compressive strength	1360 KN/M	Obtained from longitudinal compression tests with ribs in the longitudinal direction

APPLICATIONS OF RAPIDWALL®



MANUFACTURING FACILITY

Rapidwall® is manufactured off site in a Rapidwall® production unit. HIDC's manufacturing facility are strategically located in Madayn Sohar Phase - 3 Sultanate of Oman.



Rapidwall® plant consist of automated production plant, drying area & computer controlled cutting machine.

The Rapidwall® System streamlines the construction process by transferring the majority of on-site work to the Rapidwall® factory.

It is within the factory that the large single spanning walls, roofs are produced. These building components are then easily erected on site in a matter of hours rather than weeks.

Rapidwall® plant with three manufacturing tables would produce approximately 700,000m² of panel per annum, 2,376m² a day, based on a 24 hour production schedule over 300 days. This equates to more than 2000 houses of 120m² each including rapidwall roofs.

A full size Rapidwall® panel large enough size to form an entire wall of a building structure. It is cut easily either at the factory or site and can be tailored to a great variety of designs, including window and door requirements.

HIDC have been operating, testing & perfecting Sohar plant for the manufacture of Rapidwall® since 2008.

INTEGRATED RESIDENTIAL PROJECTS



TAWIZAIN HAIL

Client
City Home

Consultancy
Rayan International Design LLC

Total Built Up Area
13,000 SQ M

Project Status
Completed 2016



HAI AL NASEEM - BARKA (1000 VILLAS)

Client
Adrak Developers LLC

Consultancy
Insight Engineering Consultant

Total Built Up Area
135,500 SQ M

Project Status
On-going



RAS AL HAMRA PHASE 2C

Consultancy
Petroleum Development Oman

Consultancy
NJP & EIDC

Total Built Up Area
30,000 SQ M

Project Status
On-going



TOURIST RESORT SAWADI

Client
The Blue City Real Estate

Consultancy
Dar Al Imarah

Total Built Up Area
50,000 SQ M

Project Status
Completed 2018



DAR AL ZAIN - PHASE - 5

Client
Abjar Trading and Contracting

Consultancy
D&A - Architect Interiors

Total Built Up Area
10,100 SQ M

Project Status
Completed 2017



DAR AL ZAIN - PHASE - 6

Client
Abjar Trading & Cont. Co. LLC

Consultancy
Rayan International Design LLC

Total Built Up Area
29,000 SQ M

Project Status
Completed 2017

INSTITUTIONS



IBRA TECHNICAL COLLEGE

Client
IBRA Technical College

Consultancy
3D-Engineering Consultants

Total Built Up Area
2,088 SQ M

Project Status
Completed 2013



MUSANNAH COLLEGE

Client
Ministry of Man Power

Consultancy
Al Saqf Engineering Consultancy

Total Built Up Area
4,185 SQ M

Project Status
Completed 2015



DUQM INTERNATIONAL SCHOOL

Client
Al Tamman Holding LLC
(Muscut Overseas Group)

Consultancy
CPEC Centerpoint Architectural
and Engineering Consultancy

Total Built Up Area
8,510 SQ M

Project Status
Completed 2019

ACCOMODATION



MAZOOM DAIRY

Client
Mazoon Dairy (Main works for Phase1)

Consultancy
AECOM Middle East Consultant Eng'g
Insight Engineering Consultants

Total Built Up Area
20,150 SQ M

Project Status
Completed 2018



JINAN RESIDENCY, SALALAH

Client
Gulf Developers Co.LLC

Consultancy
Al SAQF engineering Consultancy

Total Built Up Area
62,750 SQ M

Project Status
Completed 2012



FEMALE STUDENTS ACCOMODATION FOR ASU - IBRA

Client
Al Aqtab Trading and Contracting

Consultancy
Artistry Engineering Consultancy

Total Built Up Area
18,350 SQ M

Project Status
Completed 2013

OFFICE BUILDING / INDUSTRIAL OFFICES



OFFICE BUILDING - SAUDI

Client
RBC

Consultancy
RBC

Total Built Up Area
650 SQ M

Project Status
Completed 2012



ORPIC TEMPORARY OFFICE BUILDING

Client
Orpic

Consultancy
HIDC

Total Built Up Area
3,530 SQ M

Project Status
Completed 2016



OFFICE BUILDING AT SOHAR

Client
Arabian Industries

Consultancy
Al SAQF Engineering Consultancy

Total Built Up Area
1,100 SQ M

Project Status
Completed 2012

COMMERCIAL ESTABLISHMENTS & MALLS



CHINA MALL

Client
Mr. Hasan Al Hashim

Consultancy
Al Qarshobi Engineering

Total Built Up Area
16,200 SQ M

Project Status
Completed 2015



GIFTS ISLAND

Client
Ali Khamis Mubarak Alawi

Consultancy
Masar Engineering Consultancy

Total Built Up Area
22,500 SQ M

Project Status
Completed 2017



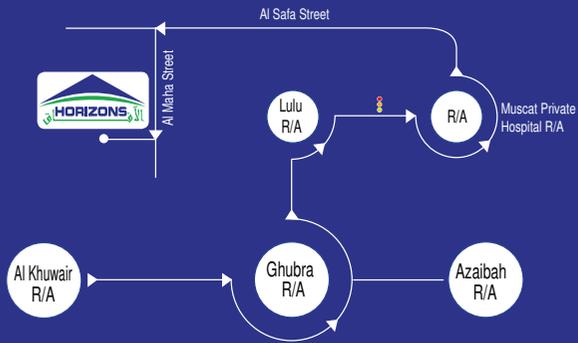
BARKA GATE MALL

Client
Saif Ali Mohammad Al Salhi

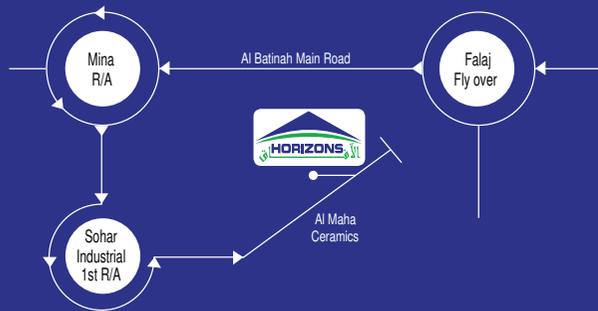
Consultancy
Al Manarah Engineering Consultancy

Total Built Up Area
22,500 SQ M

Project Status
Completed 2015



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