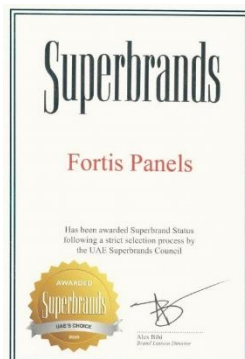
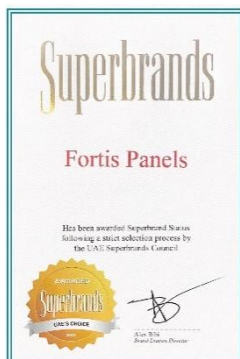


Fortis Easy Panels

www.fortispanels.com

Building with Fortis Easy Panels Better, Faster, Stronger



Building a Sustainable Future



Fortis Easy Panels

FORTIS EASY PANELS



Fortis Easy Panels specializes in cutting edge technology, providing turnkey solutions for the construction industry.

With our innovative molding system and local manufacturing, we are able to deliver high quality products that bring advanced technology to the construction industry, reducing the carbon footprint of construction at every phase.

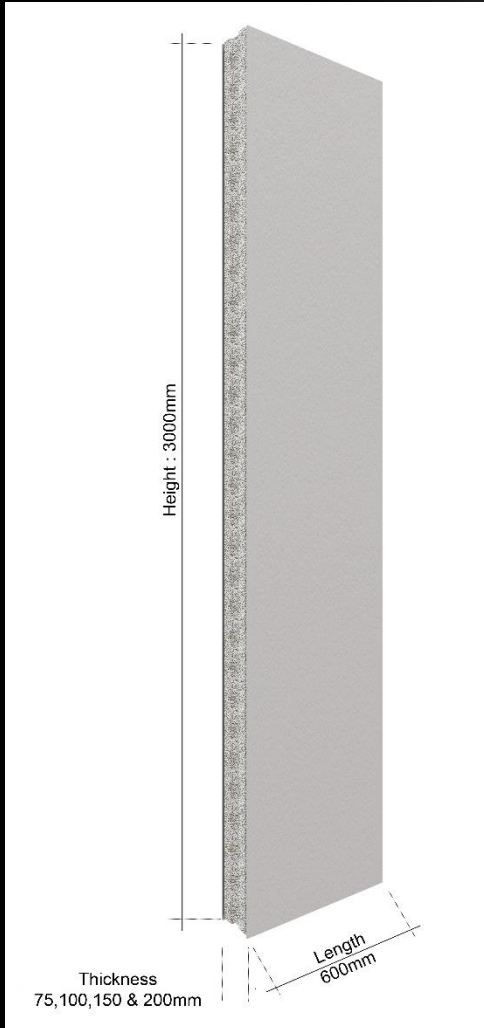
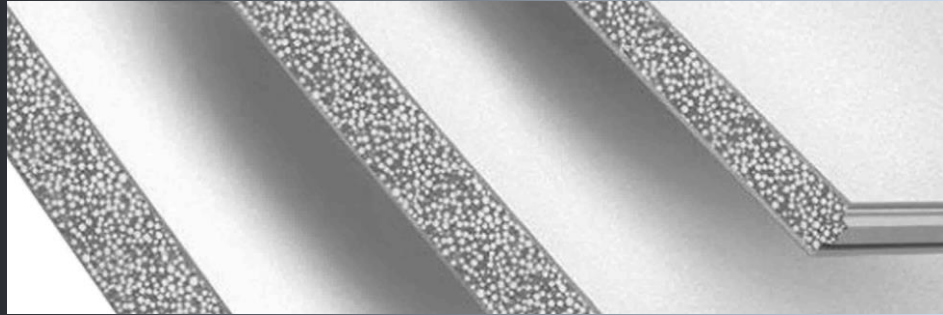
Fortis Easy Panels

Fortis Easy Panels for interior and exterior walls and partitions.

The Fortis Easy Panel is composed of a 6mm fibre cement board facing with a core of concrete and EPS (Expanded Polystyrene).

Each panel is 1.8 m² (3m x 0.6m) with thickness options of 75mm, 100mm, 150mm & 200mm.

Tongue and groove profiles to interlock each panel.



History

The idea of the light weight panel originated from Australia in the 1970's and since then it has spread across Asia, being used in all areas of construction.

With over two years of R&D and four years of production, Fortis Easy Panels is proud to be the first and only GCC manufacturer to be approved by Dubai Municipality & UAE Civil Defense.



Advantages



Time Saving

- ❖ Up to 7x faster installation than competition



Cost Saving

- ❖ Fewer labour hours
- ❖ Transport efficiency
- ❖ No fixed scaffolding
- ❖ Less water required
- ❖ No door sub frames needed
- ❖ No lintel beams required



Quality

- ❖ Local manufacturing
- ❖ High quality components from reputable brands
- ❖ No ripples
- ❖ Flat and straight



Safety

- ❖ 3 Hours fire rating
(Civil Defense Approved)
- ❖ Non-toxic



Sustainability

- ❖ U-Value Up to 0.274
- ❖ Minimal wastage



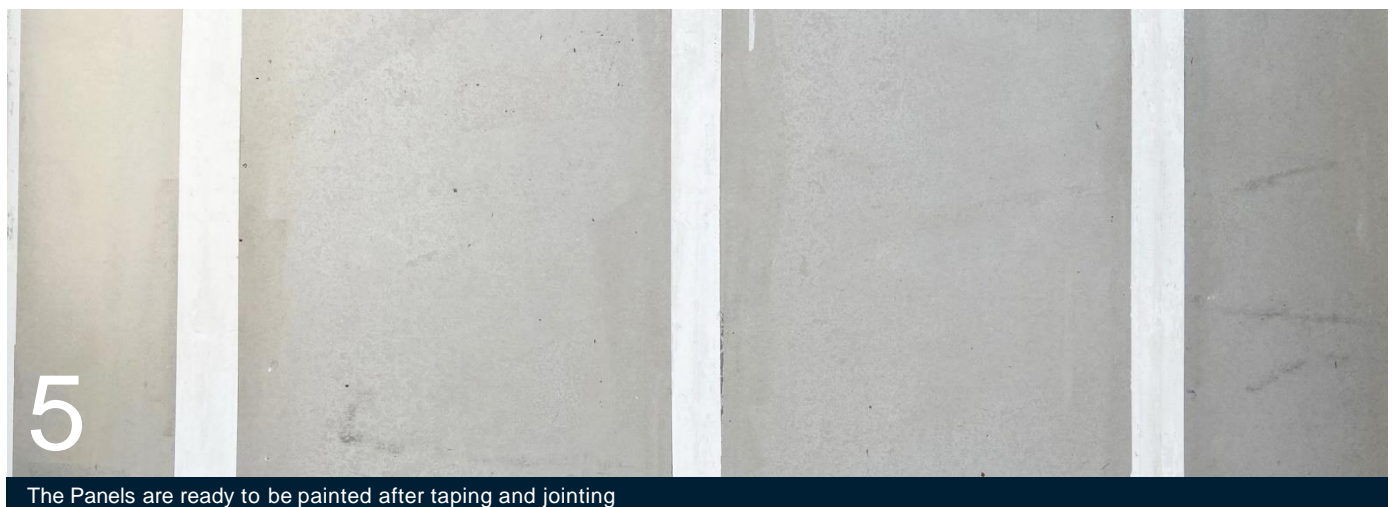
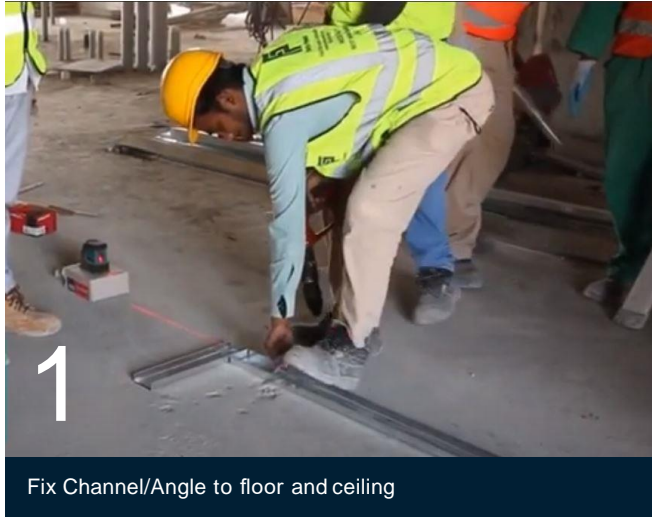
Handling

- ❖ No wet work/plastering required
- ❖ Ready to paint
- ❖ Lightweight
- ❖ Simple installation

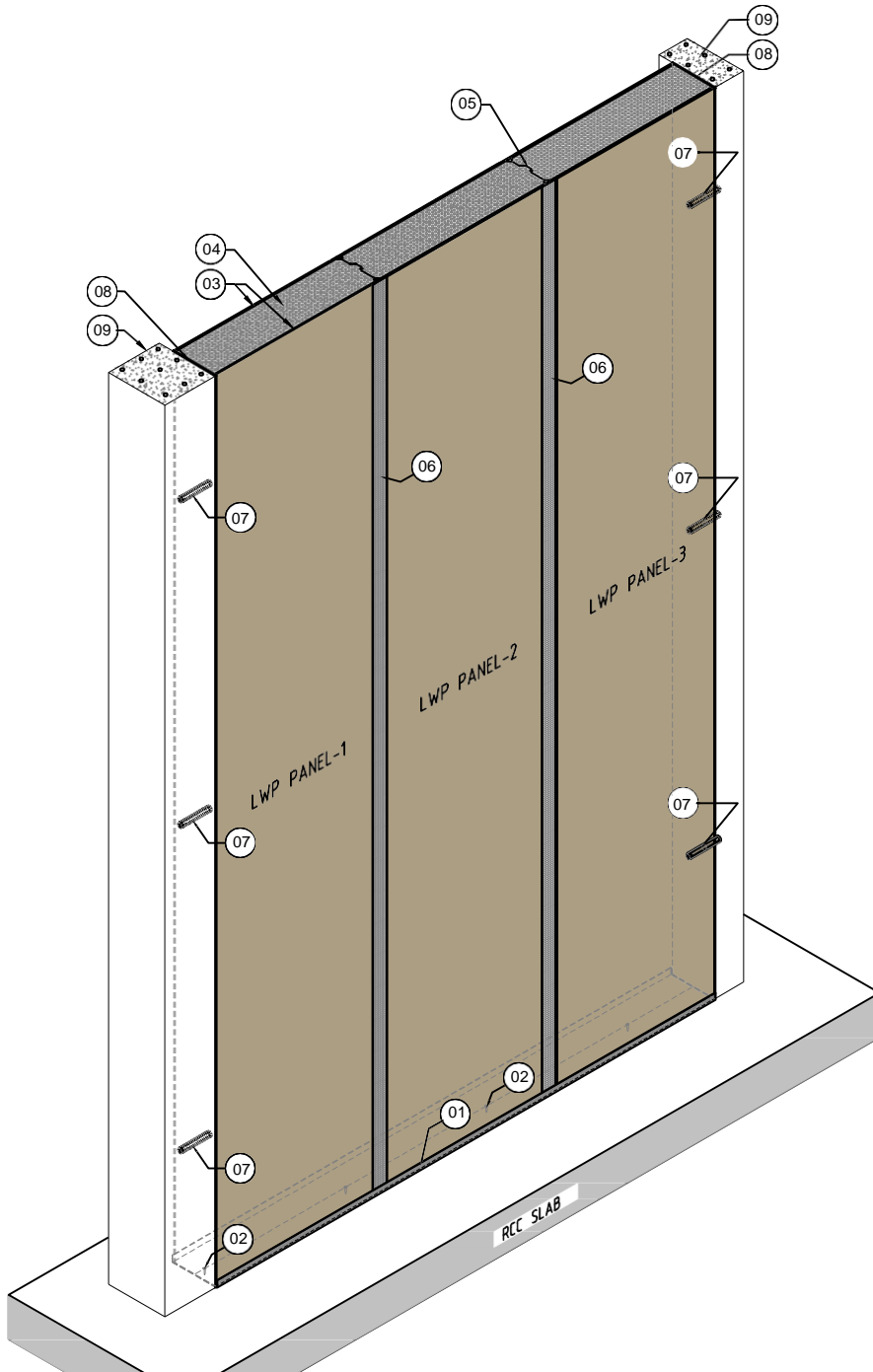
Up to 7x faster installation per m² compared to competition



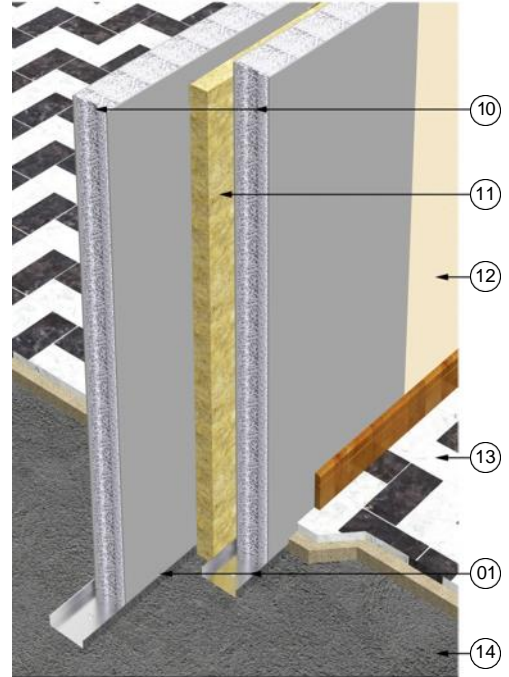
Installation



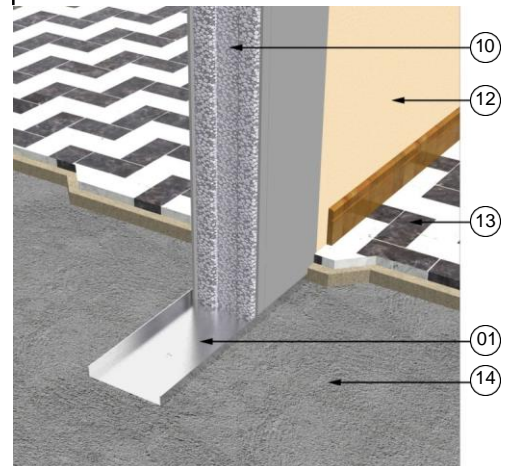
Detailed View



Fortis cavity wall system



Fortis single wall system



DESCRIPTION

1. Galvanized U Channel (shall be covered by flooring system).
2. Direct fastening nails 20mm long, spaced at every 500mm.
3. 6mm thick fibre cement board.
4. EPS with regular Portland cement.
5. Fortis Easy Panels jointing compound.
6. Boral jointing tape & Boral premium premix finish.
7. Ø-12mm Dowel rebar chemically bonded by chemical anchor fixing grout with 50 mm minimum penetration from each side @ every 1.00 MTR.
8. Hilti CP 606 fire sealant.
9. R.C.C column / wall.
10. Fortis light weight panel.
11. Rockwool / glass fibre insulation board.
12. Wall finish as per schedule.
13. Floor finish as per finishing schedule.
14. R.C.C slab.

Product Specification Comparison

	Fortis Easy Panels	Hollow Block Plaster Finish	AAC Block
Compressive Strength - Wall Section (N/mm ²)	4.0 – 5.0	1.3 - 3.5	3.0 - 4.0
Direct Pullout (N)	Up to 2200	Up to 710	Up to 320
Density (Kg/m ³)	600 ± 7%	1400 - 1900	400 – 1000
U Value (W/m ² .K)	Up to 0.274	2.3 - 2.8	0.3 - 0.4
Fire Rating (Insulation & Integrity)	3 Hours	Varies	0-4 Hours
Acoustic STC Rating (dB)	Up to 60	Up to 46	Up to 39
Joint Capacity (kN/m)	Up to 46.35	2 – 2.5	2 – 2.5
Flexural Strength-Face (kN/m)	Up to 6.84	N/A	N/A
Flexural Strength-Side (kN/m)	Up to 8.10	N/A	N/A
Axial Load Capacity (kN)	Up to 140.3	N/A	N/A
Plaster Requirement	Not Required	Required	Required
Wet Areas	Acceptable	Acceptable	Acceptable

FORTIS EASY PANEL accelerates speed of construction, cost savings in both material and manpower requirements, functionality and adaptability in design, along with outstanding engineering characteristics.

Fortis Easy Panel - 75mm, 100mm, 150mm & 200mm Technical Specifications

	75mm Panels	100mm Panels	150mm Panels	200mm Panels
Compressive Strength - Wall Section (N/mm²)	4.0 – 5.0			
Direct Pullout (N)	Up to 2200			
Density (Kg/m3)	600 ± 7%			
U Value (W/m².K)	N/A	N/A	0.513	0.274
Fire Rating (Insulation & Integrity)	2 Hours	3 Hours		
Acoustic STCRating (dB)	Up to 46	Up to 51	Up to 55	Up to 60
Joint Capacity (kN/m)	Up to 9.28	Up to 35.55	Up to 45.95	Up to 46.35
Flexural Strength-Face (kN/m)	Up to 6.84	Up to 5.15	Up to 4.74	Up to 4.26
Flexural Strength-Side (kN/m)	Up to 8.10	Up to 7.41	Up to 5.63	Up to 5.12
Axial Load Capacity (kN)	N/A		Up to 140.3	
Plaster Requirement	Not Required			
Wet Areas	Acceptable			

Weight

WEIGHT OF FORTIS LIGHT WEIGHT PANELS		
PANEL SIZE	WEIGHT PER PANEL	WEIGHT PER SQUARE METER
75mm PANEL	81 Kg / Panel	45 Kg/m²
100mm PANEL	110 Kg / Panel	61 Kg/m²
150mm PANEL	162 Kg / Panel	90 Kg/m²
200mm PANEL	210 Kg / Panel	116 Kg/m²

Time Comparison

A comparison of time taken to build a finished wall (2 sides of plaster) ready to paint on both sides.

- Wall area = 16sqm (as per BS 5628-1:2005)
- Length = 4.5m
- Height = 3.5m
- 2-point lateral support; 1 existing and 1 to be installed by contractor

Fortis Easy Panels 3000 x 600 x 150 (h x l x w) Team of 6 skilled labourers		Blocks 200 x 400 x 150 (h x l x w) Team of 5 bricklayers and 2 plasterers	
Step	Time	Step	Time
Location marking	0.5 hr	Location marking	0.5 hr
Bottom and top track cutting and setting	1.0 hr	Mortar mixing and setting out	1.0 hr
Install first panel with dowel bars	1.0 hr	Block laying	24 hrs
Installation of vertical panels	2.0 hrs	Curing time	24 hrs
Measuring and cutting of horizontal panels	1.0 hr	Manual plastering	5.0 hrs
Installation of horizontal panels	1.5 hrs	Curing time	48 hrs
Closing of head track	1.0 hr	<i>Note: Block work walls cannot be built higher the 6 courses without the mortar setting i.e. 24hours</i> <i>Rigid scaffolding is required to be fixed for blockwork at 1.5m height.</i> <i>Fortis assumes the scaffolding and the first 6 courses can be done in 24 hours..</i>	
Closing of joints	2.0 hrs		
Finishing of joints	3.5 hrs		
<i>Note: Panels only require mobile scaffolding and not restricted by height</i>			
Total Time	13.5 hrs		102.5 hrs

Clients

Reem Mall – Abu Dhabi



Client: Alfarwaniya
 Contractor: Itinera / Ghantoot (IGJV)
 Consultant: RTKL / Dewan Architects, Engineers & Planners
 Location: Abu Dhabi
 Square Meters: 37,000
 Project Completed: 2021
 Scope of Work: Supply & Installation

Park Ridge-I, II & III (3 Towers)



Client: Emaar
 Contractor: Engineering Contracting Company (ECC)
 Consultant: U+A Consultants
 Location: Dubai Hills Estate-Al Barsha
 Square Meters: 110,000
 Project Completed: 2021
 Scope of Work: Supply & Installation

Grand Bleu Tower



Client: Emaar
 Contractor: Engineering Contracting Company (ECC)
 Consultant: Mirage | Al Shandagha Architects & Engineering Consultants
 Location: Masra, Dubai
 Square Meters: 54,000
 Expected Completion: 2023
 Scope of Work: Supply & Installation

La Vie Tower B+G+36+R – JBR, Dubai



Client: Dubai Properties
 Contractor: Al Sahel Contracting Co. LLC
 Consultant: Next Engineering Consultants
 Location: JBR, Dubai
 Square Meters: 40,000
 Expected Completion: 2022
 Scope of Work: Supply & Installation

Clients

Bloom Heights



Client: Bloom Emirates Properties
Contractor: Al Oroba Contracting
Consultant: Al Khawajah Engineering Consultancy
Location: JVC - Dubai
Square Meters: 75,700
Project Completed : 2020
Scope of Work: Supply & Installation

Bloom Towers



Client: Bloom Emirates Properties
Contractor: Al Oroba Contracting
Consultant: Al Khawajah Engineering Consultancy
Location: JVC - Dubai
Square Meters: 101,500
Project Completed : 2020
Scope of Work: Supply & Installation

MAG K1 Tower



Client: MBL Investment LLC
Contractor: Bu Haleeba Contracting (BHC)
Consultant: National Engineering Bureau (NEB)
Location: Jumeirah Lakes Towers, Dubai
Square Meters: 74,000
Expected Completion: 2023
Scope of Work: Supply & Installation

Sabah Rotana



Client: Reeva Realty FZ LLC
Contractor: China Railway 18th Bureau Group LLC
Consultant: Al Asri Engineering Consultants
Location: Al Sufouh Gardens, Dubai
Square Meters: 61,000
Expected Completion : 2023
Scope of Work: Supply & Installation

Clients

Townhouses Project at Wadi Al Safa



MBA
DUBAI
ENGINEERING
CONSULTANCY

Client: Mr. Abdulaziz Mohamed
Contractor: Reliant Contracting
Consultant: MBA Dubai Engineering Consultancy
Location: Wadi Al Safa 3, Dubai
Square Meters: 12,000
Expected Completion : 2022
Scope of Work: Supply & Installation

Al Mamzar-G+23 Floors, Residential Building



Client: Mr. Omar Mohamed Salem Allowais
Contractor: Omis Contracting & Maintenance
Consultant: Al Asri Engineering Consultants
Location: Al Mamzar - Dubai
Square Meters: 39,000
Expected Completion : 2022
Scope of Work: Supply Only

Azizi Aura Residences



Client: Azizi Development
Contractor: Al Qandeel Contracting
Consultant: Pioneers of Experts Engineering Consultants
Location: Jabel Ali - Dubai
Square Meters: - -
Project Completed : 2020
Scope of Work: Supply Only

Vista Residences



Client: Easa Saleh Al Gurg Group
Contractor: Al Shafar Contracting
Consultant: Face Architecture & Design
Location: Al Nahda, Dubai
Square Meters: 45,000
Project Completed: 2020
Scope of Work: Supply Only

Clients

ADIA – Car Park Building – Abu Dhabi



Client: Abu Dhabi Investment Authority (ADIA)
Contractor: ALEC Engineering & Contracting
Consultant: KEO International Consultants
Location: Abu Dhabi - UAE
Square Meters: 2,500
Expected Completion: 2022
Scope of Work: Supply Only

Jafza Traders Market at Jabel ali Free Zone



Client: DP World
Contractor: Airolink Building Contracting
Consultant: CHSS Engineering Consultant /
National Engineering Bureau (NEB)
Location: Jabel Ali Free Zone - Dubai
Square Meters: 55,000
Expected Completion: 2021
Scope of Work: Supply Only

Commercial/Residential Building - G+2P+7



Client: Mr. Abram Wasef
Contractor: Al Ummah Contracting LLC
Consultant: Proline Engineering Consultants
Location: IC3-L-2 International City, Dubai
Square Meters: 13,000
Expected Completion : 2021
Scope of Work: Supply Only

Meraki Arjan - Sobha



Client: Sobha
Contractor: Sobha
Location: Al Barsha - Dubai
Square Meters: 15,000
Project Completed : 2019
Scope of Work: Supply Only

Clients

Sham Hills G+1 Villas – Riyadh, KSA



Client: Saudi Housing Association
Contractor: Sham Hills Contracting
Location: Riyadh, KSA
Square Meters: 500,000
Expected Completion: 2021
Scope of Work: Supply and Installation

Temporary Site Office – MJL Project



Client: Madinat Jumeirah Living
Contractor: Al Sahel Contracting Co. LLC
Location: Jumeirah Hills
Square Meters: 1,300
Project Completed: 2019
Scope of Work: Supply Only

Barwa – Madinatna & Baharat Al Janoub Residential Development - Qatar



Client: Barwa – Madinatna & Baharat Al Janoub Residential Development
Contractor: Redco Construction
Location: Al Wakrah, Qatar
Square Meters: 40,000
Expected Completion: 2022
Scope of Work: Supply Only

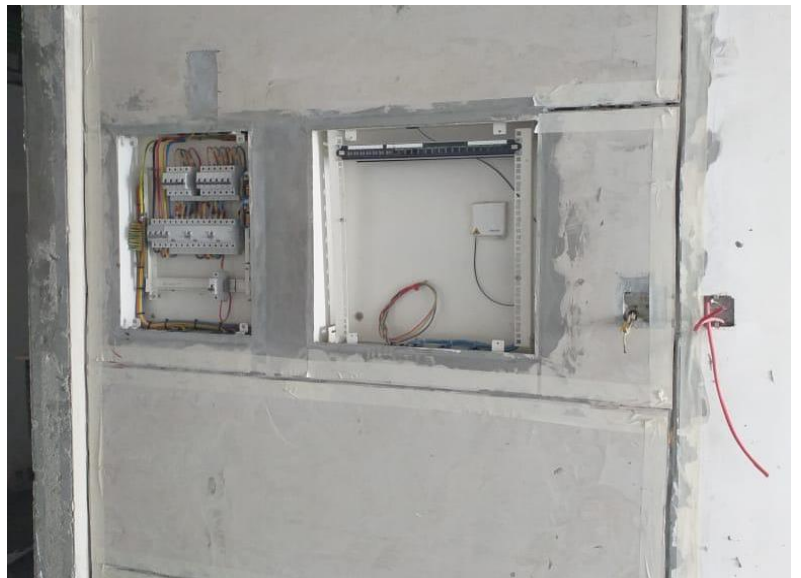
G + 6 Floors Residential Building Al Warsan - International City



Client: Sultan Ali Lakhani Abdul Aziz & Samir Lakhani
Contractor: Miles Building Contracting LLC
Location: Al Warsan, Dubai International City
Square Meters: 10,700
Expected Completion: 2023
Scope of Work: Supply and Installation

Project	Client	Location	Expected Completion
Two G+2 Warehouses	Adleb Engineers & Contractors	Baghdad, Iraq	2021
Warehouse for Barakah Nuclear Power Plant Units	Seoyong Construction Co. Ltd	Abu Dhabi, UAE	2021
DLC – 3 Warehouse	Amana Steel Building Contracting	Dubai Logistic City, UAE	2021
Four Seasons Canal Residences	Dubai Contracting Company (DCC)	Dubai Water Canal, UAE	2022

Project Photos - Cutting & Chasing for Services



Project Photos



Project Photos



Project Photos

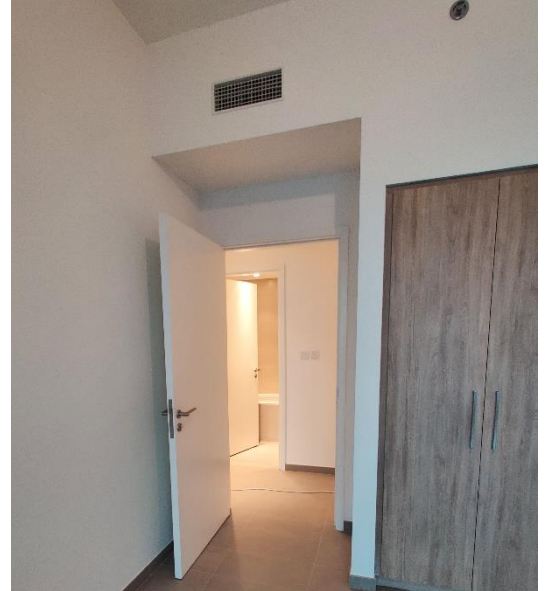


External Walls – Townhouse Project



Internal Walls – Townhouse Project

Project Photos – Finished Internal Wall

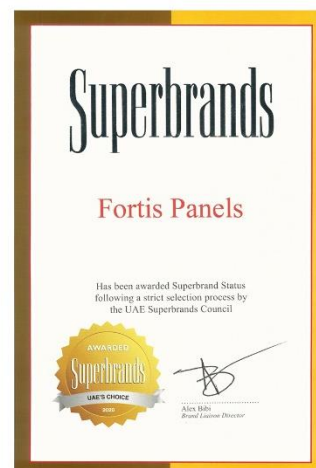




BEST BRAND AWARD - 2018



BEST BRAND AWARD - 2019



SUPERBRANDS AWARD - 2020



Fortis Easy Panels

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