

## G+P+4F+R Residential Building

### FACT SHEET



## G+P+4F+R Residential Building

Project	G+P+4+R Residential Building
Client	Mabuhay Limited
Consultant	AWAJ
Main contractor	REEM CAPITAL CONTRACTING LLC
Green Building Consultant	Susnomics Engineering Systems FZ LLC

### PROJECT BACKGROUND

A new resolution on the implementation of green building specifications and standards in the emirates of Dubai has been issued by H.H. Sheikh Mohammed bin Rashid Al Makhtoum, Vice-President and Prime Minister of UAE and ruler of Dubai. As per the new resolution, effective on January 2008, all owners of residential and commercial buildings and properties in the emirates of Dubai must comply with the internationally recognized environment friendly specifications to turn Dubai into a sustainably developed city that meets the demands of best practices and benchmarks of environment friendly growth pattern.

In response to this resolution, we are proud to inform that the "Residential Building (G+P+4F+R) at Plot of Land No. JVC15EMRP500 – Jumeirah Village, Dubai" has been awarded with EHS Certification established by TRAKHEES.

### PROJECT PROFILE

#### SUSTAINABLE SITES AND TRANSPORTATION

- ❖ Provides preferred parking for Electric Car
- ❖ Provides preferred parking for carpool
- ❖ Roofing materials meet the SRI requirement avoiding heat island effect

#### ENERGY, WATER AND MATERIAL RECOURSE CONSERVATION

Susnomics Engineering Systems FZ-LLC as a Sustainability Consultant for New Dubai Properties, has created an energy model to evaluate the effectiveness of the building's energy conservation measures, in compliance with ASHRAE Std. 90.1-2007 Appendix G methodology.

The following are the Energy Efficiency Measures incorporated in the project:

- ❖ Giving the right orient for the building reducing the solar heat gain
- ❖ Highly insulated building envelope elements
- ❖ Efficient lighting design and controls with optimal power density
- ❖ Efficient HVAC systems

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- ❖ Conducted enhanced commissioning to ensure results of holistic building energy system design

The following are the water and resource conservation measures incorporated in the project:

- ❖ Uses low flow fixtures in faucets, sinks and showers and dual flush water closets
- ❖ Provides landscaping with drip irrigation show casing the client's strong vision towards a sustainable future.
- ❖ Incorporated recycled content in the building materials
- ❖ Boosting the local market and reducing the foot miles by purchasing more regional materials

### INDOOR ENVIRONMENTAL QUALITY

- ❖ The IAQ performance complies with the minimum requirements of ASHRAE Std 62.1-2007
- ❖ Installed air flow monitoring device for each mechanical ventilation to monitor the fresh air
- ❖ Developed and implemented a Construction Indoor Air Quality (IAQ) Management Plan in reference to SMACNA guidelines
- ❖ Use of building finishes materials with low emission of volatile organic compounds (VOC) for adhesives, sealants, paints and coatings.

### FAST FACTS

EHS Certified Green Building

- 23.7%** Savings on Energy Use
- 43.49%** Savings on Potable Water Use
- 11.98%** Materials Use with Recycled Content
- 31.72%** Regional Materials Use
- 84.86%** Irrigation Potable Water Use Reduction

### THE TEAM

Owner	M/s. Mabuhay Incorporation
Architectural Consultant	AWAJ Engineering Consultants, Dubai
MEP Consultant	AWAJ Engineering Consultants, Dubai
Contractor	Reem Capital Contracting L.L.C. Dubai – U.A.E
Green Building Consultant	Susnomics Engineering Systems FZ-LLC Dubai, UAE
LEED AP	Shyam Chandra V
Commissioning Authority	Susnomics Engineering Systems FZ-LLC Dubai, UAE