



EMIRATES EXTRUSION FACTORY LLC OFFICE & FACTORY BLDG. TECHNO PARK, DUBAI



FAST FACTS

Project: Emirates Extrusion Factory LLC – G+1 Office & Factory
Plot No TP030205, Techno Park Dubai, UAE
LEED Certification Level: Silver, LEED NCv2.2 for Multiple Bldgs
Gross Floor Area: 33, 377 sq.ft. Office Bldg. & 79, 170 sq.ft. Factory
Neighborhood: Technopark, Dubai UAE
Completed: March 2014
Date of Certification: 21 January 2015

BENEFITS

- 18.80 % Overall Savings on Energy Use
- 100 % Potable Water Reduction for Irrigation Purposes
- 31.10 % Reduction on Potable Water Used on Flush & Flow Water Fixtures
- 33.59 % Materials Used with Recycled Content
- 42.70 % Regional Materials Use
- 81.48 % On-site generated Construction Waste diverted from landfill

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 Maktoum, 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 healthy city that meets the demands of best practices and benchmarks of pollution-free sustainable development.

In response to this resolution, we are proud to inform that “**Emirates Extrusion Factory LLC**” has been awarded with Prestigious **LEED SILVER Certification** established by the U.S. Green Building Council(USGBC)

Emirates Extrusion Factory LLC – is a newly constructed Facility Complex project comprises G+1 Office Building having 33, 377 sq.ft gross floor area and 79, 170 sq.ft. Factory. These 2 building blocks are designed in such a way that the Factory would function solely for production and the G+1 Building functions as Office and the Factory Staff’s facility to expand Emirates Extrusion’s Ajman Facility. In conformity with Sustainable Vision of Dubai through a wiser use of natural resources, Emirates Extrusion LLC is contemplating a city wide sustainability program.

LEED POINT SUMMARY

34 out of 69

34	Points Achieved	69	Points Available
Sustainable Sites	10	14	
Water Efficiency	5	5	
Energy & Atmosphere	6	17	
Materials & Resources	6	13	
Indoor Environmental	3	15	
Innovation & Design	4	5	





PROJECT PROFILE

EMIRATES EXTRUSION LLC, Plot No TP030205 Tech Park, Dubai, UAE

SUSTAINABLE SITES & WATER EFFICIENCY

The project team sought to encourage sustainability. The following are strategies to support it:

- The Project was developed around sub-urban area with existing infrastructure.
- Provides preferred parking for carpool and low-emitting and fuel-efficient vehicles on-site
- Promotes no-fuel transportation means by providing Bicycle Rack & Changing Facility
- High SRI value for Roofing material
- 100% of paved surface are installed with high albedo material
- Utilized Low-Water Consuming Species and used onsite STP treated water for irrigation
- Installed efficient water fixtures which consumes lesser water compared to a conventional one
- Installed Sewage Treatment Plant for Irrigation & other use and Effluent Treatment Plant for the Factory's water needs

ENERGY EFFICIENCY

Project is designed as per ASHRAE Std. 90.1-2004 and following are the Energy Efficiency Measures incorporated in the project:

- Highly insulated mass Wall and Roof
- Optimized Glazing
- Efficient lighting fixtures and incorporating timer control for the internal and external lighting
- Efficient HVAC systems – Better EER Split-Ducted units and ERVs
- Client's drive in implementing Enhanced Commissioning as well as M&V process during its operation

MATERIAL AND RESOURCES

- 81.48% (by weight) of the construction waste diverted from landfill.
- 29.87% of construction material used accounts to pre-consumer & post-consumer recycled content.
- 42.7% of construction material are regionally available materials –materials which are extracted/harvested & manufactured within 500miles radius from the Emirates Extrusion Techno Park Site
- Provides appropriately sized areas & bins dedicated for the waste segregation/collection during the bldg. operation

INDOOR ENVIRONMENTAL QUALITY

- The IAQ performance complies with the minimum requirements set by ASHRAE Std. 62.1-2004,
- Developed and implemented a Construction Indoor Air Quality (IAQ) Management Plan in reference to SMACNA guidelines
- Utilized Interior finishes ie., adhesives, sealants, paints and coatings which has low emission & or VOC compliant
- Non-smoking policy is developed & to be implemented in the Building Facility

OTHER GREEN FEATURES INCLUDES

- Earned an exemplary performance in vegetated open space, on-site Sewage Treatment Plant and installation of high albedo paving material.

THE TEAM

Owner: **Emirates Extrusion Factory LLC**

Owner Representative: **Mr. Said El Hilali (Plant Manager)**

Design Consultant: **Al Jassim Engineering Consultants**

Contractor: **SAM Building Contracting LLC & Al Zaim Services LLC**

Green Building Consultant: **Middle East Centre for Sustainable Development (MECSD), Dubai, UAE**

Commissioning Authority: **Pacific Control Systems**

LEED APs: **Ms. Charity N. Pena & Mr. Nowfal K.M.**