

STEEL PLATE & SECTIONS GULF FZE



	35	69
Sustainable Sites	7	14
Water Efficiency	4	5
Energy & Atmosphere	7	17
Materials & Resources	4	13
Indoor Environmental	9	15
Innovation & Design	4	5

 Points Achieved
  Points Available

LEED POINT ACHIEVEMENT

FAST FACTS

LEED Certification: Silver, New Construction (NC) V2.2
Square Feet: 42,560 sq ft / Office & Warehouse
Neighborhood: Jebel Ali Free Zone, Dubai, UAE
Construction Cost: \$44 / square foot
Completed: January 2011
Date of Certification: April 14, 2011

BENEFITS

- 24% Energy Cost Savings
- 47% Savings on Potable Water Use
- 77.53% Of Construction Waste Diverted from the 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.

Implementing this resolution, Dubai becomes the first city in the Middle East to adopt green building specifications and requirements. The resolution falls in line with Sheikh Mohammed's keen interest in dealing with the current environmental challenges.

In response to this resolution, we are proud to inform that "STEEL PLATE & SECTIONS GULF FZE" has been awarded with **Prestigious LEED Silver Certification** established by the U.S.Green Building Council and verified by the Green Building Certification Institute (GBCI). It is the ninth (9th) project in the UAE to achieve the LEED NC 2.2 Silver Certification.





PROJECT PROFILE

STEEL PLATE & SECTIONS GULF FZE, JAFZA, Dubai, UAE

THE NEW BUILDING

Steel Plate & Sections has nearly 40 years experience of meeting the needs of Offshore Fabrication, Pressure Vessel and Boiler Manufacturer, Construction, Materials Handling Equipment Manufacture, Bridge Building, Ship building and Ship repair, Civil and General Engineering and other industries throughout the world. The company's headquarters is situated in Birmingham, England where the company was started. Today the company is not only the largest supplier of high yield, boiler and pressure vessel and other quality steels in the UK; it is also a multi national company supplying steel products throughout the world.

Steel Plate & Sections' new facility in JAFZA, Dubai, United Arab Emirates is a state-of-the-art Warehouse & Office is empowered by innovation and uncompromising standards and will continuously seek new and improved ways of serving their customers in the Middle East Region.

INDOOR ENVIRONMENTAL QUALITY

To provide a comfortable and healthy indoor environment, Steel Plate & Sections Gulf FZE incorporated the following:

- During construction and before occupancy, an indoor air quality management system was developed and followed
- Use of low VOC paints and coatings
- Provided 100% CRI certified carpet
- Provided direct line of sight views for 99.66% of all regularly occupied areas
- Specify thermal comfort criteria that meet ASHRAE Std. 55-2004

ENERGY EFFICIENCY AND RENEWABLE ENERGY

MESCD Sustainability Consultant for Steel Plate & Sections Gulf FZE, has created an energy model to evaluate the effectiveness of the building's energy conservation measures.

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

- High efficiency HVAC system
- High-performance building envelope
- High-performance glazing
- Lower exterior and interior lighting power density

OTHER GREEN FEATURES INCLUDE

- Provided storage area for bicycles
- Provided shower and changing areas
- Provided preferred parking for low-emitting and fuel efficient vehicles
- Provided vehicle access to support car and vanpooling
- 100% of on-site parking stalls are covered with a shadecloth meeting the SRI requirement
- Use of low-flow water fixtures

LESSONS LEARNED

- Early involvement with the project team is necessary to secure the certification
- Identify strategies early and set green building goals
- Learn ways on how to reduce construction wastes thru recycling and other green strategies

THE TEAM

Owner: Steel Plate & Sections

Design Consultant: MAS Consult Engineering Consultants

Contractor: Roshan Construction LLC

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

Chief Technical Officer: Mr. Thom Bohlen, Architect, LEED AP

LEED AP: Mr. Balaji Kasiviswanathan & Ms. Marissa Ahumada

Commissioning Authority: Pacific Control Systems

Photograph Courtesy of: Steel Plate and Sections & MECSD