

LADYBIRD EARLY LEARNING CENTRE

JUMEIRAH VILLAGE CIRCLE, DUBAI



LEED POINTS SUMMARY :

GOLD POINTS	60-79	POINTS ACHIEVED	72
CATEGORY		ACHIEVED	
Sustainable Sites		20	
Water Efficiency		10	
Energy & Atmosphere		12	
Materials & Resources		7	
Indoor Environmental Quality		14	
Innovation in Design		5	
Regional Priority		4	

FACTS :

LEED Version	LEED for School v2009, BD&C	
LEED certification level	LEED GOLD	First LEED for School certified building in UAE
Project Type	Nursery	First LEED certified Nursery in MENA
Gross Floor Area	22,799 Sq. Ft.	
Project Completion	31 st July 2016	
LEED certification	29 th September 2016	



BENEFITS :

Energy Savings	24.84%
Indoor potable water reduction	53%
Irrigation potable water reduction	100%
Construction waste diverted from landfill	81.62%
Recycled content construction materials	22.73%
Regional content construction materials	22.85%
Certified Wood	100%
Views	98.82%

PROJECT PROFILE

PROJECT BACKGROUND :

Ladybird Early Learning Centre is a purpose-built eco friendly nursery school on plot no. JVC12NUP001 in Jumeirah Village Circle in Dubai, United Arab Emirates. The nursery is a single storey structure. External parking on grade is provided within the site boundary. Ladybird is a fully inclusive setting, enabling children to play, have fun and develop within a safe and healthy environment. The project is located on a 4484.3 m² site.

Sustainable Sites

Sustainability of the site and its connectivity to the neighborhood is of the highest order;

- Located in high density residential locality with access to public transport and basic services
- Parking with high SRI covers and parking preference for green vehicles
- School bus facility for students and bicycle storage with change facility for staff use
- Onsite infiltration of rainwater through soakaways
- High efficient exterior lighting and limiting light pollution during night

Energy & Water Efficiency

Highly water and energy efficient facilities and services;

- Native/adaptive vegetation landscaping, drip irrigation, soil mulch & ac condensate water
- Thermally insulated building envelop, with highly reflective roof, and shaded glazing walls
- High COP VRF AC system with green refrigerants, heat recovery VFD FAHUs, BMS controls
- LED lighting with light and motion sensor control, fans in classroom
- Solar thermal water heaters, Energy sub meters, and Enhanced commissioning

Materials

Building construction is resource efficient and well managed construction practices;

- On-site dedicated recycling areas for operational waste, 81% construction waste recycled
- Construction materials with 22% recycled content and 22% regional content
- 100% FSC certified wood

Indoor Environmental Quality

- No smoking facility
- Adequate MERV 13 filtered treated fresh air with indoor CO₂ monitoring,
- Low VOC finish materials , and entrance door mats
- Lighting and thermostat controls
- Views for 98.82% of regularly occupied areas
- Well implemented indoor air quality management plan during construction

TEAM :

Owner: **Malicon Holdings Ltd**

Architect & MEP Consultant: **Godwin Austen Johnson Architects (GAJ)**

LEED & Commissioning Consultant: **Energy Management Services (EMS)**

Main Contractor: **Al Shafar Contracting Co. LLC**

MEP Contractor: **Al Shirawi**

LEED APs & Commissioning Professional's : **Errol Colaco, Vijish Punathil and Jayesh Kallada**