

LEED 2008 EBOM Overview

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	TOTAL	44 of 92

The Dallas Museum of Art (DMA) achieved LEED Silver certifications for energy use, lighting, water, and material use, as well as incorporating a variety of other sustainable strategies (as mentioned below). The DMA is among the 10 largest art museums in the United States, and since its return to free general admission in 2013, has welcomed more than two million visitors. By using less energy and water, the DMA is saving money, reducing greenhouse gas emissions, and contributing to a healthier environment for residents, workers, and the greater Dallas community.



PROJECT ACHIEVEMENTS:

SUSTAINABLE SITES

- Alternative means of transportation (walk, bike, or bus)
- Heat island reductions, which included 94% of parking areas being located under cover to minimize impact on microclimates and human/wildlife habitat
- Building exterior management plan that employs environmentally sensitive practices to help preserve ecological integrity

WATER EFFICIENCY

- Permanently installed water meters measure the total potable water consumption for the entire building and associated grounds to identify opportunities for water, saving over 300,000 gallons annually

INDOOR ENVIRONMENTAL QUALITY

- High-performance green cleaning programs are adhered to in order to reduce the exposure of building occupants, visitors, and staff to potential hazardous contaminants

ENERGY & ATMOSPHERE

- Demonstrated energy efficiency in the 24th percentile above the national median reducing environmental and economic impact associated with excessive energy use
- Reduced approximately 4,600 metric tons of carbon (MtCO₂) as a result of energy conservation measures

MATERIALS & RESOURCES

- Lamp purchasing policy targeting 90% of all mercury containing lamps that achieves an average of 57% reduction in mercury levels measured in picograms per lumen-hour
- Sustainable purchasing policy achieved over 97% of purchased products to comply with Environmental Preferable Purchasing (EPP) criteria

INNOVATION IN OPERATIONS

- Designed for active occupants
- Included a cooling tower water analysis
- LEED Accredited professionals were involved throughout the entire design process

project highlights

 **94%**
of parking now located under cover to minimize microclimates

 **97%**
of purchased products to comply with Environmental Preferable Purchasing (EPP) criteria

 **20%**
indoor potable water use reduction



case study | Dallas Museum of Art

LEED SILVER



SUSTAINABLE SITES

5/12

SSc1	LEED Certified Design & Construction	0/1
SSc2	Building Exterior & Hardscape Management Plan	1/1
SSc3	Integrative Pest Management Erosion Control, & Landscape Management Plan	1/1
SSc4.1-4.4	Alternative Commuting Transportation	1/4
SSc5.1	Reduced Site Disturbance - Protect & Restore Open Space	0/1
SSc6	Stormwater Management	0/1
SSc7.1	Heat Island Reduction Non-Roof	1/1
SSc7.2	Heat Island Reduction - Roof	1/1
SSc8	Light Pollution Reduction	0/1



WATER EFFICIENCY

4/10

WEc1.1-1.2	Water Performance Measurement	2/2
WEc2.1-2.3	Additional Indoor Plumbing Fixture & Fitting Efficiency	1/3
WEc3.1-3.3	Water Efficient Landscaping - Reduce Potable Water Use By 50%	0/3
WEc4.1-4.2	Cooling Tower Water Management - Chemical Management	1/2



ENERGY & ATMOSPHERE

13/30

EAc1	Optimize Energy Performance	6/15
EAc2.1-2.3	Existing Building Commissioning	4/6
EAc3.1-3.3	Performance Measurement	2/3
EAc4.1-4.4	Renewable Energy	0/4
EAc5	Refrigerant Management	0/1
EAc6	Emissions Reduction Reporting	1/1



MATERIALS & RESOURCES

6/14

MRc1.1-1.3	Sustainable Purchasing - Ongoing Consumable, 40%	3/3
MRc2.1	Sustainable Purchasing - Durable Goods, Electric	1/1
MRc2.2	Sustainable Purchasing - Durable Good, Furniture	0/1
MRc3	Sustainable Purchasing - Facility Alterations & Additions	0/1
MRc4.1-4.2	Sustainable Purchasing - Reduced Mercury in Lamps	2/2
MRc5	Sustainable Purchasing - Food	0/1
MRc6	Solid Waste Management - Waste Stream Audit	0/1



MATERIALS & RESOURCES (cont.)

MRc7.1-7.2	Solid Waster Management - Ongoing Consumables	0/2
MRc8	Solid Waste Management - Durable Goods	0/1
MRc9	Solid Waste Management - Facility Alterations & Additions	0/1

INDOOR ENVIRONMENTAL QUALITY

11/19



EQc1.1	IAQ Best Management Practices - IAQ Management Program	1/1
EQc1.2	IAQ Best Management Practices - Outdoor Air Delivery Monitoring	0/1
EQc1.3	IAQ Best Management Practices - Increased Ventilation	0/1
EQc1.4	IAQ Best Management Practices - Reduced Particulates	1/1
EQc1.5	IAQ Best Management Practices - Facility Alterations & Additions	1/1
EQc2.1	Occupant Comfort - Occupant Survey	1/1
EQc2.2	Occupant Comfort - Occupant Controlled Lighting	1/1
EQc2.3	Occupant Comfort - Thermal Comfort Monitoring	0/1
EQc2.4-2.5	Occupant Comfort - Daylight & Views 50% Daylight/45% Views	0/2
EQc3.1	Green Cleaning - High Performance Cleaning Program	1/1
EQc3.2-3.3	Green Cleaning - Custodial Effectiveness Assessment, < 3	2/2
EQc3.4-3.6	Green Cleaning - Sustainable Cleaning Products & Materials	2/3
EQc3.7	Green Cleaning - Sustainable Cleaning Equipment	0/1
EQc3.8	Green Cleaning - Entryway Systems	0/1
EQc3.9	Green Cleaning - Indoor Integrated Pest Management	0/1

INNOVATION IN OPERATIONS

5/7



IOc1.1	Innovations in Operations: Outreach & Education Program	1/1
IOc1.2	Innovations in Operations: Design for Active Occupants	1/1
IOc1.3	Innovations in Operations: MRc1.1: Ongoing Consumables 100%	1/1
IOc1.4	Innovations in Operations: Cooling Tower Water Analysis	1/1
IOc2	Documenting Sustainable Building Cost Impacts	0/1

LEED 2008 for Existing Buildings: Operations & Maintenance

44/92

Total Points Achieved

CERTIFIED
34-42 points

SILVER
43-50 points

GOLD
51-67 points

PLATINUM
68-92 points