

Sustainable Design Strategies in Use at WMU

Click on text highlighted in 'green' for more information on these projects.									
"GREEN" DESIGN CATEGORY (based on LEED® guidelines)	Brown Hall	Chemistry Building	College of Engineering / Parkview Campus	College of Health & Human Services	Richmond Center for Visual Arts	Sindecuse Health Center - Pharmacy	South Kohrman	West Entrance Development	Wood / Haenicke Halls
Sustainable Sites									
Drought-resistant and/or native landscape plantings to minimize irrigation and maintenance	✓		✓	✓				✓	
Preserving existing greenspace and trees, or reclaiming greenspace							✓		
Re-use of former building site				✓					
Site lighting with "cut-off" type fixtures to reduce night time light pollution and glare.	✓			✓	✓			✓	
Stormwater detention:									
Bioswales for on-site detention and filtration of storm run-off.			✓	✓				✓	
Landscaped "rain garden" to retain, filter, and slowly discharge stormwater to the storm sewer.	✓	✓							
Underground stormwater detention system					✓		✓		
Water Efficiency									
Low flow plumbing fixtures	✓	✓		✓	✓		✓		
Energy & Atmosphere									
Building automation system with digital controls and occupancy sensors	✓	✓	✓		✓	✓			✓
Commissioning by 3rd party agent	✓	✓		✓					
Economizer-mode - "free cooling" - air handling units	✓	✓	✓	✓	✓	✓	✓		
Energy efficient transformers	✓	✓	✓	✓	✓			✓	
Heat recovery unit					✓		✓		
High performance windows	✓	✓	✓	✓	✓				✓
High-efficiency heating, cooling and ventilation equipment	✓	✓	✓	✓	✓	✓			✓
No CFC-, HCFC- or Halon-based refrigerants.	✓			✓					
Solar screens and light "shelves" to control solar gain and reduce cooling loads.				✓					
Lighting:									
Daylight and occupancy sensors									
Energy efficient electronic lighting ballasts	✓	✓		✓	✓	✓	✓		
Natural daylight provided to a majority of spaces in the facility (perimeter windows, atriums, etc.)				✓					
T-5 direct/indirect fluourescent lighting				✓					
T-8 direct /indirect fluourescent lighting	✓	✓	✓		✓	✓	✓		✓

Sustainable Design Strategies in Use at WMU

Click on text highlighted in 'green' for more information on these projects.									
"GREEN" DESIGN CATEGORY (based on LEED® guidelines)	Brown Hall	Chemistry Building	College of Engineering / Parkview Campus	College of Health & Human Services	Richmond Center for Visual Arts	Sindecuse Health Center - Pharmacy	South Kohrman	West Entrance Development	Wood / Haenicke Halls
Materials & Resources									
Construction waste management - sorting, separating, recycling of concrete, masonry, metals, wood, cardboard and packing materials	75% of waste recycled	✓		✓	✓	✓	✓		✓
Durable and low maintenance materials	✓	✓	✓	✓	✓	✓	✓		
Refurbish existing furnishings						✓			
Regionally extracted materials	45% of waste recycled								
Regionally manufactured materials	65% of waste recycled	✓		✓	✓	✓	✓		
Re-use existing building shell	✓						✓		
Salvage doors, cabinets, wood trim, ceiling tiles, carpet and furniture (re-used by Habitat for Humanity)	✓								
Use of recycled-content materials:	40% recycled content overall								
Aluminum doors and frames									
Carpet				✓					
Carpet and rubber floor tiles				✓					
Ceiling tiles				✓					
Ceramic tiles				✓					
Concrete									
Metal panels									
Solar screens				✓					
Structural steel									
Systems furniture and seating fabrics	✓	30%+ recycled content		30%+ recycled content	✓	✓	✓		
Toilet partitions				✓	100% recycled content		100% recycled content		
Use of renewable resources:									
Bamboo, cork, linoleum flooring	✓			✓					
Natural fibers for systems furniture and seating fabrics		✓		✓		✓			
Wood products from certified sustainable sources				✓		✓			

Sustainable Design Strategies in Use at WMU

Click on text highlighted in 'green' for more information on these projects.									
"GREEN" DESIGN CATEGORY (based on LEED® guidelines)	Brown Hall	Chemistry Building	College of Engineering / Parkview Campus	College of Health & Human Services	Richmond Center for Visual Arts	Sindecuse Health Center - Pharmacy	South Kohrman	West Entrance Development	Wood / Haenicke Halls
Indoor Environmental Quality									
"Fresh air" ventilation system	✓			✓		✓			
"Winter Garden" - atrium with indoor plantings				✓					
Indirect lighting to minimize glare	✓			✓	✓		✓		
Indoor Air Quality management plan: ductwork protection, HVAC filter replacement, IAQ testing at project completion	✓			✓					
Light "shelves" and high-reflectivity ceiling colors reflect daylight in to the interior of the building.				✓					
Minimize off-gassing of volatile organic compounds (VOC's): carpet, paints, adhesives, sealants, systems furniture, seating	✓	✓		✓	✓	✓	✓		
Optimized access to daylight	✓			✓					
Placement of building components - systems furniture, partitions, seating, equipment - to maximize daylight and views.	✓	✓		✓		✓			
Pre-manufactured wall products to eliminate on-site dust, debris and emissions	✓								
Solar screens, motorized window shades to control direct sun and glare.				✓					