LEED BD+C: Multifamily Midrise | v3 - LEED 2008

Environmentally preferable products

MMRc2 | Possible 8 points

Glossary

Intent

Increase demand for environmentally preferable products and products or building components that are extracted, processed, and manufactured within the region.

Requirements

Prerequisites

2.1 **FSC-Certified Tropical Wood**. Meet the following two requirements, as applicable:

1. Provide all wood product suppliers with a notice (see Figure 1, below) containing all of the following elements:
   1. a statement that the builder's preference is to purchase products containing tropical wood only if it is FSC-certified;
   2. a request for the country of manufacture of each product supplied;

   and

   3. a request for a list of FSC-certified tropical wood products the vendor can supply.
2. If tropical wood is intentionally used (i.e., specified in purchasing documents), use only FSC-certified tropical wood products. Reused or reclaimed materials are exempt.

Note: A species of wood is considered tropical for the purposes of this prerequisite if it is grown in a country that lies between the Tropics of Cancer and Capricorn.

Credits

2.2 **Environmentally preferable products** (0.5 point each, maximum 10 points). Use building component materials that meet one or more of the criteria below. Except as noted in **Table 1**, a material must make up 90% of the component, by weight or volume. A single component that meets each criterion (i.e., environmentally preferable, low emissions, and local sourcing) can earn points for each.

a) Environmentally preferable products (0.5 point per component). Use products that meet the specifications in **Table 1**.
*Note: Recycled content products must contain a minimum of 25% postconsumer recycled content, except as noted in **Table 1**. Postindustrial (preconsumer) recycled content must be counted at half the rate of postconsumer content.*

AND/OR

b) Low emissions (0.5 point per component). Use products that meet the emissions specifications in **Table 1**.

AND/OR

c) Local production (0.5 point per component). Use products that were extracted, processed, and manufactured within 500 miles of the home.

Table 1. Environmentally Preferable Products

Assembly	Component	EPP specifications (0.5 point per component)	Emission specifications (0.5 point per component)	Local production (0.5 point per component)
Exterior wall	Framing / wall structure	Concrete wall structure: Use 30% fly ash or slag wood frame: FSC-certified or reclaimed or finger joint studs	N/A	Eligible
Exterior wall	Siding or masonry	Recycled content, reclaimed, or FSC-certified	N/A	Eligible
Floor	Flooring (45% of total floor area)	Linoleum, cork, bamboo, FSC-certified or reclaimed wood, sealed concrete, recycled-content flooring, or combination	Carpet & pad: all carpet & pad complies with Carpet & Rug Institute Green Label Plus program Hard flooring: automatic 1/2 point for 100% hard surface flooring Hard flooring: additional 1/2 point for using a product that is SCS FloorScore certified	Eligible
Floor	Flooring (90% of total floor area)	Meet specifications above to receive additional 0.5 point.		Eligible (additional 0.5 point)
Floor	Framing	FSC-certified or reclaimed	N/A	Eligible
Foundation	Aggregate	N/A	N/A	Eligible
Foundation	Cement	Use 30% fly ash or slag	N/A	Eligible
Interior wall	Framing	FSC-certified or reclaimed	N/A	Eligible
Interior walls				

Interior walls AND ceilings	Gypsum board	N/A	N/A	Eligible
Interior walls AND ceilings AND millwork	Paints and coatings	Recycled paint that meets Green Seal standard GS-43	Use products that comply with all applicable standards in Table 25.	Not eligible
Landscape	Decking or patio material	Recycled content, FSC-certified, or reclaimed	N/A	Eligible
Other	Cabinets	Recycled content, FSC-certified, or reclaimed AND composite materials must contain no added urea-formaldehyde resins	N/A	Eligible
Other	Counters (kitchens and bathrooms)	Recycled content, FSC-certified, or reclaimed AND composite materials must contain no added urea-formaldehyde resins	N/A	Eligible
Other	Doors (not including garage or insulated doors)	Recycled content, FSC-certified, or reclaimed	N/A	Eligible
Other	Trim	Recycled content, FSC-certified, or reclaimed AND composite materials must contain no added urea-formaldehyde resins	N/A	Eligible
Other	Adhesives and sealants	N/A	Use products that comply with all applicable standards in Table 26.	Not eligible
Other	Window framing	Recycled content, FSC-certified, or reclaimed	N/A	Eligible
Roof	Framing	FSC-certified	N/A	Eligible
Roof	Roofing	Recycled content	N/A	Eligible
Roof AND floor AND wall	Insulation	Recycled content of 20% or more	Comply with California "Practice for Testing of VOCs from Building Materials Using Small Chambers": www.dhs.ca.gov/ehlb/IAQ/VOCS/Practice.htm	Eligible
Roof, floor, wall (2 of 3)	Sheathing	Recycled content, FSC-certified, or reclaimed	N/A	Eligible

Figure 1. Example Notice to Wood Products Suppliers

Notice to Vendors: [The company] prefers to purchase products that contain tropical wood only if they are certified according to the guidelines of the Forest Stewardship Council (FSC). Please provide the country of manufacture of each product you expect to supply to us. Also please provide a list of FSC-certified products you can supply.

Table 2. Standards for Environmentally Preferable Paints and Coatings

Component	Applicable standard (VOC content)	Reference
Architectural paints, coatings and primers applied to interior walls and ceilings	Flats: 50 g/L Nonflats: 150 g/L	Green Seal Standard GS-11, Paints, 1st Edition, May 20, 1993
Anticorrosive and antirust paints applied to interior ferrous metal substrates	250 g/L	Green Seal Standard GC-03, Anti-Corrosive Paints, 2nd Edition, January 7, 1997
Clear wood finishes	Varnish: 350 g/L Lacquer: 550 g/L	South Coast Air Quality Management District Rule 1113, Architectural Coatings
Floor coatings	100 g/L	
Sealers	Waterproofing: 250 g/L Sanding: 275 g/L All others: 200 g/L	
Shellacs	Clear: 730 g/L Pigmented: 550 g/L	
Stains	250 g/L	

Table 3. Standards for Low-Emissions Adhesives and Sealants (meet South Coast Air Quality Management District Rule #1168)

	Applicable standard (VOC content, g/L less water)
Architectural applications	
Indoor carpet adhesives	50
Carpet pad adhesives	50
Wood flooring adhesives	100
Rubber floor adhesives	60
Subfloor adhesives	50
VCT and asphalt adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50

Multipurpose construction adhesives	70
Structural glazing adhesives	100
Specialty applications	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special-purpose contact adhesive	250
Structural wood member adhesive	140
Sheet-applied rubber lining operations	850
Top and trim adhesive	250
Substrate-specific applications	
Metal to metal	30
Plastic foams	50
Porous materials (except wood)	50
Wood	30
Fiberglass	80
Sealants	
Architectural	250
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
Sealant primers	
Architectural nonporous	250
Architectural porous	775
Other	750