

SECTION 01115**GREEN BUILDING REQUIREMENTS****PART 1 GENERAL****1.01 PROJECT GOALS**

- A. The Center for Health and Healing was designed, constructed and awarded the LEED Platinum for new construction. The intent of this project is to follow the standard of care for a LEED certified project, however, LEED certification will NOT be sought. Therefore specifications have been prepared using LEED 2009 for Existing Buildings: Operations & Maintenance Rating System as a guideline for green building criteria related to materials and processes.

1.02 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. Certified Wood - Submittals shall include an FSC Certified Wood certification letter for those sections requiring such information.
- C. Carpet and Rug Institute Green Label Plus Carpet and Carpet Tile - Submittals shall include a certification letter for Green Label Plus Certified Carpet and Carpet Tile, sections 09680 and 09685.
- D. No added urea-formaldehyde for composite wood - All composite wood used in the project requires a submittal of the product data to verify that no added urea-formaldehyde was used in the resins of the composite wood.
- E. Recycled Content - Preference shall be given to products with recycled content. Product data must be submitted stating the amount (%) of this recycled content.
- F. Regional Materials - Preference shall be given to those products manufactured within 500 miles of the project site. Product data stating the location of the manufacturer must be submitted.
- G. Rapidly Renewable Materials - are defined as materials that are renewable on a 10 year cycle or less, and preference shall be given to these materials. Product data is required stating the amount (%) of rapidly renewable material in the product. Some examples of rapidly renewable materials include but are not limited to bamboo, wool, cotton insulation, agrifiber, linoleum, wheatboard, strawboard, and cork.
- H. Low-Emitting Materials, Adhesives and Sealants - Product data is required stating the VOC levels (g/L) of all adhesives and sealants used on the interior (inside of the weather barrier) on the project. VOC levels must be within the limits specified in Part 2 of this section.
- I. Low-Emitting Materials, Paints, Coatings, and Primers -Product data is required stating the VOC levels (g/L) of all paints, coatings, and primers used on the interior (inside of the weather barrier) on the project. VOC levels must be within the limits specified in Part 2 of this section.

1.03 INFORMATION SOURCES

- A. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE); 1791 Tullie Circle, NE, Atlanta, GA 30329. Tel: (404) 636-8400. Fax: (404) 321-5478. www.ashrae.org.
- B. Forest Stewardship Council. www.fscus.org

- C. Center for Resource Solutions (CRS); Presidio Building, 49 P.O. Box 29512, San Francisco, CA 94129. Tel: (415) 561-2100. Fax: (415) 561-2105. www.resource-solutions.org or www.green-e.org.
- D. Green Seal; 1001 Connecticut Avenue, NW, Suite 827, Washington, DC 20036-5525. Tel: (202) 872-6400. Fax: (202) 872-4324. www.greenseal.org.
- E. South Coast Air Quality Management District (SCAQMD); 21865 E. Copley Drive, Diamond Bar, CA 91765. Tel: (909) 396-2000. www.aqmd.gov.
- F. U.S. Green Building Council (USGBC); 1015 18th Street, NW, Suite 805, Washington, DC 20036. Tel: (202) 82-USGBC or (202) 828-7422. Fax: (202) 828-5110. www.usgbc.org.
- G. Sheet Metal and Air Conditioning Contractor's National Association. www.smacna.org.
- H. Carpet and Rug Institute. www.carpet-rug.com.
- I. U.S. Environmental Protection Agency. www.epa.gov.

PART 2 PRODUCTS

2.01 BASIC PRODUCT REQUIREMENTS

- A. Composite Wood and Agrifiber Products: Approved products having no added urea-formaldehyde resins. Submit product data for each composite wood product used.
- B. Carpet and Carpet Tiles used on the project must be Green Label Plus Certified. Adhesives used must be within the VOC limits listed below.
- C. Preference shall be given to products with recycled content.
- D. Preference shall be given to products manufactured within 500 miles of the project site.
- E. Preference shall be given to rapidly renewable materials (renewable within a 10 year cycle.)
- F. All adhesives, sealants, paints, coatings, and primers used inside of the weather barrier must meet the Volatile Organic Compound (VOC) limits listed below.
 - 1. Adhesives and Sealants: When used inside the weather barrier, provide only products having lower volatile organic compound (VOC) content than required by the South Coast Air Quality Management District Rule No. 1168 or for Aerosol Adhesive, do not exceed Green Seal Standard for Commercial Adhesives, GC-36. The VOC limits are listed below.
 - 2. Paints, Coatings, and Primers: Topcoat paints applied to the interior of the building, defined as inside of the weather barrier, shall meet the volatile organic compound (VOC) limits of Green Seal Standard GS-11, Paints; First Edition May 20,1993. Anti-corrosive and anti-rust paints used inside of the weather barrier must meet the VOC limits of Green Seal Standard GS-03, Anti-Corrosive Paints; Second Edition, January 7,1999. All other architectural coatings, primers, and undercoats shall meet the VOC requirements of the South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings in effect January 1, 2004. The VOC limits are listed below.

Architectural Adhesives Applications	VOC Limit (g/L)
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet adhesives	150
Wood Flooring Adhesives	100
Rubber Flooring Adhesives	60

Subfloor Adhesives	50
Ceramic Tile Installation	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Installation	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Substrates	
Metal to Metal	30
Plastic Foams	50
Porous Material Except Wood	50
Wood	30
Fiberglass	80

Welding & Installation	VOC Limit (g/L)
PVC Welding	510
CPVC Welding	490
ABS Welding	400
Plastic Cement Welding	350
Adhesive Primer for Plastic	650
Contact Adhesive	80
Special Purpose Contact Adhesives	250
Structural Wood Member Adhesive	140
Sheet Applied Rubber Lining Operations	850
Top and Trim Adhesive	250

Sealants

Architectural	250
Porous Architectural Sealant Primer	775
Non-porous Architectural Sealant Primer	250

3. Aerosol Adhesives shall comply with Green Seal Standard for Commercial Adhesives GC-36 requirements in effect October 19, 2000.

Aerosol Adhesives

General purpose mist spray	65% VOC's by weight
General purpose web spray	55% VOC's by weight
Special purpose aerosol adhesives (all types)	70% VOC's by weight

4. Paints and Coatings: Topcoat paints applied to the interior of the building, defined as inside of the weather barrier, shall meet the volatile organic compound (VOC) limits of Green Seal Standard GS-11, Paints, First Edition May 20, 1993. Anti-corrosive and anti-rust paints used inside of the weather barrier must meet the VOC limits of Green Seal Standard GS-03, Anti-corrosive Paints, Second Edition January 7, 1999. All other architectural coatings, primers, and undercoats shall meet the VOC requirements of the South Coast Air Quality Management District Rule (SCADQM) 1113, Architectural Coatings in effect January 1, 2004. The VOC requirements are listed below

G. Prohibited Products:

1. Refrigerants that contain CFC's and fire fighting equipment that use these halons or CFC's.
2. Products made of wood from newly cut old growth timber.
3. Composite wood products such as MDF, plywood, door cores, particle board, agrifiber, veneer panels, engineered flooring and composite laminated veneers

that contain added urea-formaldehyde in any adhesive.

PART 3 EXECUTION - NOT USED