

development · business · operations

LEED FOR SCHOOLS REQUIREMENTS OVERVIEW IEQc4.1-IEQc4.6 LOW EMITTING MATERIALS

The purpose of this document is to outline LEED requirements related to low-emitting materials used on the project and to offer a list of products that are approved for use on LEED for Schools projects. It is best to check with the manufacturer to see it the VOC limit still complies as companies often change the VOC levels of products as the product is updated. *Please note that the list of product below was researched in 2008* and may be become outdated. For updated lists of products, go to the websites listed below. Projects may choose any of the following options, with a maximum of four points.

IEQc4.1: Adhesives & Sealants

IEQc4.2: Paints & Coatings

IEQc4.3: Flooring Systems

IEQc4.4: Composite Wood & Agrifiber Products

IEQc4.5: Furniture & Furnishings IEQc4.6: Ceiling & Wall Systems

Resources

Indoor Advantage Gold - Option 5

http://scscertified.com/ecoproducts/products/

GREENGUARD Children & Schools – Option 1, Option 2, Option 3, Option 5, Option 6 http://www.greenguard.org/Default.aspx?tabid=135

FloorScore - Option 3

http://www.scscertified.com/iaq/floorscore.html#FloorScoreCertifiedProducts

Green Label Plus - Option 3

http://www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/index.cfm

CHPS product list – All Options

http://www.chpsregistry.com/live/

IEQc4.1—ADHESIVES & SEALANTS (1 point)

All adhesives and sealants installed in the building interior (defined as inside of the weatherproofing system and applied on-site) shall meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

List of Approv	List of Approved Adhesives and Sealants		
Manufacturer		Product	
3М™		3M™ Scotch-Weld™ Cylinder Spray Adhesive 94CA	
		3M™ Fastbond™ Pressure Sensitive Adhesive 4224NF	
		3M™ Fastbond™ Contact Adhesive 2000NF	
		3M™ Fastbond™ Foam Adhesive 100	
		3M™ Fastbond™ Insulation Adhesive 49	
		3M™ Fastbond™ Contact Adhesive 30NF/30H	
Bentley Pri	ince	Healthbond Ultragreen (to be used with all Bentley Prince Street products)	

Carpet & Rug	Green Label Plus Approved Carpet Adhesive List			
Institute				
CERES Natural	Sovereign SS 176 one-part urethane adhesive			
ITW TACC	Gun 'N Go Drywall Adhesive			
	EasyFlow Drywall Adhesive			
	Z Solvent-Free Postformable Adhesive®			
	MASON BOND® Masonry Adhesive			
	Glenkote™ Duct Sealant/Mastic			
	Foamseal	F2100 Adhesive System		
		F6400 Adhesive		
		BIG BOND Adhesive		
	Miracle/Kingco®	D-619 Duct Sealant/Mastic		
		M-181 Duct Sealant/Mastic		
		ULTRASEAL 970™ Duct Sealant/Mastic		
		ULTRATACK® Duct Liner Adhesive		
Mannington	V-11 Adhesive (pressure sensitive)			
Commerical	V-81 Adhesive (SBR latex)			
	V-82 (acrylic latex)			
	MT-790			
	MT-711			
	MC-411			
	M-Guard: 798, 418 and 718			
Toli International	#900 2-Part Epoxy Adhesive			
	#5050 Acrylic Adhesive			

OPTION 2—PAINTS & COATINGS (1 point)

All paints and coatings installed in the building interior shall meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

List of Approved Paints and Coatings				
Manufacturer	Product			
Benjamin Moore	Eco Spec®			
Frazee	002 Majestic Acrylic Flat (1st coat)/ 002	Majestic Acrylic Flat (2nd coat)		
	061 Aqua Seal (1st coat)/ 022 Lo Glo Acrylic Eggshell (2nd coat)			
	061 Aqua Seal (1st coat)/ 128 Satin Glid	le Acrylic Semi Gloss (2nd coat)		
	661F774 Metal Prime (1st coat)/ 124 Mir	ro Glide Acrylic Semi Gloss (2nd coat)		
	Envirokote	Primer 066		
		Flat 018		
		Eggshell 029		
		Semi-Gloss 032		
Dunn-Edwards	Decoglo, Interior Acrylic Semi-Gloss Paint W450V			
	Ultra-Grip, Acrylic Multi-Purpose Primer W715			
	Vinylastic, Interior Pigmented Sealer W101			
	Walltone, Interior Latex Flat Paint W420			
	ECOSHIELD	Primer (W600),		
		Flat (W601),		
		Low Sheen (W602),		
		Semi-Gloss (W603)		
Eco-Trend	Collagen, Interior (flat, semi-gloss, eggshell)			
http://www.ecotrendlife.com/	Silicone, Exterior Flat			
ICI Paints	Devflex 4020 PF			
	Prep & Prime Odor-less WB LM9116			
	Dulux Lifemaster	Flat 9100		

		Eggshell 9300
Prosoco,Inc	Consolideck®	LS
		LS/CS
		LS Guard
		GemTone™ Stain
Zolatone Interior Finishes	Polomyx by Zolatone All-Acrylic (water-b	pase) formula
Triach (A Division of Dryvit	Duroplex	
Systems, Inc.)		

IEQc4.3—FLOORING SYSTEMS (1 point)

All flooring elements installed in the building interior shall meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

List of Approved Floori	ing Systems	
Floor System Type	Manufacturer	Products
Access Flooring	Haworth	TecCrete®
		Nexus™
Flooring	American Olean	Ceramic Wall Tile, Ceramic & Porcelain Floor Tile, Quarry &
		Paver Tile, and Ceramic & Porcelain Mosaic Tile
	Dal-Tile	Ceramic Wall Tile, Ceramic & Porcelain Floor Tile, Quarry &
		Paver Tile, and Ceramic & Porcelain Mosaic Tile
	Mohawk	Ceramic Wall Tile, Ceramic & Porcelain Floor Tile, Quarry &
		Paver Tile, and Ceramic & Porcelain Mosaic Tile
Acoustical Flooring	MP Global Products, LLP	Quiet Walk
		Insulayment
		Quiet Warmth
		Fiberbacker
Resilient Flooring	Altro	Altro Maxis
-		Altro Maxis Suprema
	Amtico	Stratica Chlorine Free Eco-Polymeric Resilient Tile
		Stratica Eco-Polymeric Resilient Tile with Universal 2-Part
		Adhesive (Assembly)
		Amtico Performance-Coated Resilient Tile
		Amtico Standard Resilient Tile
	Armstrong	Excelon Vinyl Composite Tile
		Medintech Homogenous Sheet
		Marmorette Linoleum
		Natural Options Luxury Vinyl Tile
		Translations Heterogeneous Sheet Flooring
	Burke Mercer	Burkebase Wall Base with BR-101 Adhesive
	CERES Natural Floors	CERES Seguoia PVC-Free Plank
		CERES Recycled Rubber Flooring ID: 52248157
	Congoleum Corporation	Choices Vinyl Composite Tile
		Alternatives Vinyl Composite Tile
	EcoSurfaces	ECOnights
		ECOearth
		ECOrocks
		ECOsand
		ECOstone
	Environmental Molding	Kid Kushion Play Ground Safety Tile
	Concepts	
	Flexco Floors	Wallflower® Premium Rubber Wall Base

1	Wallflower® Rubber Inside/Outside Corners
	Base Sculptures Wall Base
	Vinyl Stair Treads
	Vinyl Wall Base & Inside/Outside Corners
	Vinyl Accessories
	Base 2000 Wall Base & Inside/Outside Corners
	Enviroflex™ Solid Vinyl Tile
	Rubber Tile
	Rubber Stair Treads
	Spextones™ Rubber Tile & Stair Treads
	Appeal™ Solid Vinyl Tile
	Contract Solid Vinyl Tile
Forbo	Marmoleum
Game Time, Inc.	GT Imax
Johnsonite	ComforTech Rubber Sheet Flooring
	Rubber Stair Treads
	Rubber Floor Tile
	rePLACE Wall Base System
	Millwork Rubber Wall Base, MW-130-L
	TightLock Cove Base, TCBR-41, 4 3/4
Lonseal	LonEco
	LonEco Mesa
	LonWood Dakota
	LonWood Natural
	LonFloor Vista
Losetas Asfalticas	Vinylasa Vinyl Composition Tile
Mannington	Heterogeneous Sheet
	ICORE Laminate Flooring
	Inlaid Homogeneous Sheet Flooring
	Luxury Vinyl Tile
	Olefin Tile - Cameo
	Vinyl Composite Tile
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		noraplan® environcare™ w/ nora® 410 Acrylic Adhesive or nora® dryfix
		noraplan® environcare™ 3.0mm w/ nora® 410 Acrylic Adhesive or nora® dryfix
		noraplan® environcare™ acoustic w/ nora® 410 Acrylic Adhesive or nora® dryfix
		Noraplan Logic w/ nora® 410 Acrylic Adhesive or nora®
		dryfix adhesive
		Noraplan Mega w/ nora® 410 Acrylic Adhesive or nora®
		dryfix adhesive
		Noraplan Stone w/ nora® 410 Acrylic Adhesive or nora®
		dryfix adhesive
		Noraplan Uni w/ nora® 410 Acrylic Adhesive or nora® dryfix
		adhesive
	Rikett Quartz	Rikett Quartz Tile Flooring
	Roppe Corporation	Pinnacle Rubber Base
		Pinnacle Rubber Corner Blocks™
		Pinnacle Rubber Inside/Outside Corners
		BaseMates™ Stackable Trim Molding System
		Rubber Accessories
		AlphaBase™ Rubber Base
		Visuelle Wall Base & Inside/Outside Corners
		Vinyl Stair Treads
		700 Series Base & Inside/Outside Corners
		Vinyl Accessories
		Rubber Stair Treads
		Designer's Choice™ Rubber Tile
		Rubber Floor Tile
		SafeTcork Slip Resistant Rubber Tile & Stair Treads
		Fiesta Rubber Tile & Stair Treads SafeTcork Fiesta Rubber Tile & Stair Treads
		Rubber Spike & Skate Resistant Tile
		SafeTcork Vinyl Tile
		Vinyl Cove Base
	Tarkett, Inc.	Azrock Cortina
	Tarkett, mo.	Coordinates Flooring
		Cortina Grande Flooring
		Dignity/Acczent Flooring
		Eminent Safe-T Flooring
		Linosom Veneto Flooring
		Optima Flooring
		Primo Plus Flooring
	Takiron	CERES WELS Sheet PVC-Free Flooring
	TOLI International	Landing Sheet MT
		Linotesta Tile
		Stair Treads 2W
	_	Stair Treads 4W
F1 1 A 11 1	Zaxxon	lonique
Flooring Adhesives	3M™	3M™ Scotch-Weld™ Cylinder Spray Adhesive 94CA
		3M™ Fastbond™ Pressure Sensitive Adhesive 4224NF
		3M™ Fastbond™ Contact Adhesive 2000NF
Carnet	Carpet & Rug Institute	3M™ Fastbond™ Contact Adhesive 30NF/30H Green Label Plus Approved Carpet List
Carpet Adhesives	Carpet & Rug Institute	Green Label Plus Approved Carpet List Green Label Plus Approved Carpet Adhesive List
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IEQc4.4—COMPOSITE WOOD & AGRIFIBER PRODUCTS (1 point)

All composite wood and agrifiber products installed in the building interior shall meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

List of Approved Composite Wood & Agrifiber Products				
Manufacturer	Product			
Armstrong	WoodWorks® Ekos™ Wall Panels			
PrimeBoard	PrimeBoard (Particleboard) 10615			
Roseburg Forest Products	SkyBlen Duramine Melamine Panels			
Sierra Pine	Arries™			
	Medex®, MDF			
	Medite® II, MDF			

IEQc4.5—FURNITURE & FURNISHINGS (1 point)

Classroom furniture including all student and teacher desks, tables and seats introduced into the project space that has been manufactured, refurbished or refinished within one year prior to occupancy must meet one of the requirements below. Salvaged and used furniture that is more than one year old at the time of occupancy is excluded from the credit requirements.

A. GREENGUARD™ Children & Schools CertifiedSM

List of Compliant Manufacturers*		
Manufacturer	Product	
Bretford	Tables, Casegoods	
Stylex	Seating	
Instant Seating	Seating	
SitOnIt Seating	Seating	
Knowll, Inc	Seating	
SICO America, Inc	Educational Furniture, Tables	
Q Collection Junior	Children's Furniture	
Teknion	Seating, Furniture Systems	
Naturepedic	Mattresses	
Dwyer Products	Casework	
Allsteel, Inc	Chairs, Tables, Dividers, Desks, Casegoods, Storage	
Smith System Manufacturing	Seating, Desks, Tables, Library Systems, Shelves, Carts	
Virco	Classroom Furniture, Stools, Chairs, Tables, Desks,	
	Benches, Bookcases, Files, Cabinets	

^{*}These manufacturers have approved furniture systems however not all of their products are compliant. Also, these are not the only compliant manufacturers.

B. Calculated indoor air concentrations that are less than or equal to those established in **Table 1** for furniture systems and seating determined by a procedure based on the U.S. Environmental Protection Agency's Environmental Technology Verification (ETV) Large Chamber Test Protocol for Measuring Emissions of VOCs and Aldehydes (September 1999) testing protocol conducted in an independent air quality testing laboratory.

Table 1: Indoor Air Concentrations

Chemical Contaminant	Emissions Furniture	Limits	Systems	Emissions Limits Seating
TVOC	0.5 mg/m3			0.25 mg/m3
Formaldehyde	50 parts per billio	on		25 parts per billion
Total Aldehydes	100 parts per bil	lion		50 parts per billion

4 – Phenylcyclohexene (4-PCH)	0.0065 mg/m3	0.00325 mg/m3
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C. Calculated indoor air concentrations that are less than or equal to those established in Table 1 for furniture systems and seating determined by a procedure based on BIFMA M7.1-2005 and X7.1-2005 testing protocol conducted in an independent third party air quality testing laboratory.

IEQc4.6—CEILING AND WALL SYSTEMS (1 point)

All gypsum board, insulation, acoustical ceiling systems and wall coverings installed in the building interior shall meet the testing and product requirements of the California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

List of Approved Ceiling a	List of Approved Ceiling and Wall Systems				
Product Type	Manufacturer	Product			
Acoustical Ceiling and Wall Panels	Armstrong	Ultima Acoustical Ceiling Panel (1910, 1911,1912, 1913, 1914, 1915, 1916, 1917, 1918, 1941, 1942, 1944, 1945) Ceramaguard Acoustical Ceiling Panel (605, 607, 608) Cirrus Acoustical Ceiling Panel (533, 574, 577, 578, 584, 589) Mesa Acoustical Ceiling Panel (686, 687) Fine Fissured Acoustical Ceiling Panel (1713, 1714, 1810, 1811, 1820, 1821, 1824, 1828, 1829, 1728NF) Fine Fissured Second Look Fire Guard Acoustic Ceiling Panel (1860, 1861, 1862, 1863) Georgian High Acoustics Ceiling Panel (795, 796, 1750) Dune Acoustical Ceiling Panel (1772NF, 1774NF, 1775NF) Cortega Fire Guard and Second Look Fire Guard Acoustical Ceiling Panel (2758, 816NF, 823NF, 824NF) Fissured Fire Guard Acoustical Ceiling Panel (815NF, 895NF, 896NF) Cortega Second Look Acoustical Ceiling Panel (2765NF, 2767NF, 2768NF, 2790NF, 2776NF) Cortega Acoustical Ceiling Panel (747NF, 769NF, 770NF, 703NF, 704NF, 2195NF)			
		Fissured Acoustical Ceiling Panel (755NF, 756NF, 705NF) WoodWorks® Ekos™ Wall Panels			
	Carnegie Fabrics	XOREL Inherently Fire Retardant Wall Covering XOREL Wall Covering			
	Certain Teed Ceilings	Ecophon FOCUS acoustic panels Ecophon GEDINA acoustic panels Ecophon MASTER acoustic panels Ecophon HYGIENE acoustic panels VinylShield A (VinylShield C, Vinylrock X, Envirogard, Aquarock) Cashmere (Customline, Designer Series, High NRC, Integrated Accents, Style Edge) FFCL - Fine Fissured Customline - (Fine Fissured, Fine Fissured High NRC, Baroque, Baroque Customline, Baroque Textured, Vantage 10, Directional Fissured, School Board, Stippled, Theatre Black) Gyptone (Base 31, Line 4, Point 11, Quattro 20) Sand Micro (Sand Micro Customline, Sand) Symphony M (Symphony G)			
	Chatfield-Clarke Co, Inc	Vinyl Tackboard Panels			
	Columbia Forest Products	Purebond Decorative Plywood			
	Homasote Company	NCFR, MDF Panels 550-34			
	Owens Corning	Select Sound Black Acoustic Blanket			

	1	Brio™ ClimaPlus™
	USG	Eclipse ClimaPlus High LR
	(Acoustical Ceiling Panels)	
		Eclipse™ ClimaPlus™ "F" Fissured™
		Fresco™ ClimaPlus™
		Frost™ ClimaPlus™
		Glacier™
		Mars ClimaPlus with Cloquet Coating
		MICORE Brand Mineral Fiber Board-Wall Panel
		Millennia® ClimaPlus™
		Radar
		Radar ClimaPlus
		Sandrift™ ClimaPlus™
		Summit ™ ClimaPlus™
Demountable Partitions	Haworth	Lifespace™ Moveable Walls
Gypsum Board	Georgia -Pacific Gypsum	DensArmor Plus® Abuse Guard Paperless Interior Drywall
Cypouiii Zouru	LLC	DensArmor Plus® Paperless Interior Drywall
		DensShield Tilebacker® Board
	USG	SHEETROCK® Brand FIRECODE® Core Gypsum Panel
	(Gypsum Wall and Ceiling	SHEETROCK® Brand HUMITEK® FIRECODE® Core
	Panels)	Gypsum Panel
		SHEETROCK® Brand Water-Resistant FIRECODE® Core
		Gypsum Panel
Insulation	Bonded Logic	Ultra Touch Natural Cotton Insulation
modiation		CertaPro Batts (Plain, Kraft faced, Foil Faced and FSK faced)
	CertainTeed Corporation	Building Insulation Batts (Plain, Kraft faced, Foil Faced and
		FSK)
		Optima Fiber Glass Blowing Insulation
		Insulsafe 4 Fiber Glass Blowing Insulation
		System 5 Fiber Glass Blowing Insulation
	International Callulage	-
	International Cellulose Corporation	Cellulose Spray Applied Insulation
	Johns Manville	Unfaced batts and rolls
	Joints Mariville	Faced batts and rolls (MR, Kraft, Foil, FSK-25, PSK)
		Comfort Therm poly-encapsulated
		Spider Custom Insulation System
		Climate Pro and Attic Protector blow-in insulation
	Kanada kanada kana	1000°F SSL Pipe Insulation
	Knauf Insulation	faced Wall Batt
		Ceiling Insulation Batts (faced & unfaced)
		Duct Wrap
		Jet Stream Blowing Insulation
		Summit Blowing Insulation
		Wall Insulation Batts (faced & unfaced)
	0	703 Board Products (unfaced, FRK-faced, ASJ-faced)
	Owens Corning	Black Glass Acoustical Insulation Products
		Certified R Metal Building Insulation (unfaced, faced)
		Flame Spread 25 Insulation (FRK-faced, PSK-faced)
		Foamular® Extruded Polystyrene Insulation Products
		Rigid Foam Insulation Polymer Products
		Select Sound Black Acoustic Blanket
		Sound Attenuation Batt Insulation
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		Conchatte(P) Inculation (untoodd Vrott toodd)
		Sonobatts® Insulation (unfaced, kraft-faced)
		Thermal Batt Insulation (unfaced, kraft-faced) Tuscany Alternative Non-woven Wall Covering

Wall Coverings Wall Coverings	Carnegie Fabrics Carnegie Fabrics RJF International Corp	Tuscany Alternative Non-woven Wall Covering XOREL Wall Covering Koroseal Vicrtex Sanitas Resonance® Alternative Wall Covering
	Surface iQ	Non-PVC Commercial Wallcovering