

# Green Building: Alternatives to Polyvinyl Chloride (PVC) Building Materials for Health Care

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## Products detailed in this publication include:

Acoustical Ceiling Tiles (09 51 23)

Carpet (09 68 00)

Furniture (12 50 00)

Privacy and Cubicle Curtains (10 21 23)

Resilient Flooring (09 65 00)

Shower Curtains (12 44 16)

Upholstery (12 52 70)

Wall Coverings (09 72 00)

Wall & Corner Guard (incl hand rails) (10 26 00, 05 52 00, & 06 43 13)

Window Treatments (12 20 00)

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## GREEN BUILDING: ALTERNATIVES TO POLYVINYL CHLORIDE (PVC) BUILDING MATERIALS FOR HEALTH CARE (PAGE 1 OF 11)

Products (CSI Division)	Manufacturer/ brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Acoustical Ceiling Tiles (09 51 23)</b>	PVC is primarily used solely as a scrubbable finish layer on some ceiling tile products. Request PVC-free scrubbable finishes, which are available from most manufacturers.										
<b>Carpet (09 68 00)</b>	PVC is frequently used as a backing on commercial grade carpets. Some manufacturers have both PVC-backed and PVC-free-backed carpet lines. (*) Most commercial products include PFCs and other fluorochemicals as stain resistant treatments in the fibers and not in the carpet backing.										
	Bolyu Contract	800.451.1250	www.bolyu.com	Nexterra backing	Recycled polyethylene terephthalate (PET) & glass carpet backing	Yes - GLP	Yes	* (see note above)	Yes	Yes	Tile. 85% post-consumer recycled content (35% PET bottles; 50% glass). Contains about 10% petroleum.
	Bolyu Contract	800.451.1250	www.bolyu.com	iLoc backing system	Woven primary carpet backing; anti-microbial pre-coat, laminate coating, woven stabilizer	Yes - GLP	Yes	* (see note above)	Yes	Yes	Broadloom. Seven to 20% post-consumer recycled content. Company purchases 110% wind power to run plants.
	Construction Specialties	908.236.0800	www.c-sgroup.com	non-PVC backed carpet tile	Composite rubber or bitumen backing	No	Yes	* (see note above)	Yes	Yes	Tile. Introduced to market in early 2008.
	Fortune Contract	800.359.4508	www.fortunecarpet.com	EnviroCel and BioCel backing	Polyurethane laminate and foam backing using soy-based polyols, with recycled content.	Yes - GLP	Yes	* (see note above)	No	Yes	Fortune sells broadloom with EnviroCel or BioCel backing, some include attached cushion. These backings are manufactured by Universal Textile Technologies. Recycled content (post-consumer; post-industrial): BioCel laminate and foam (7 to 12%; 50 to 55%); EnviroCel laminate (0 to 10%; 49%); EnviroCel Cushion EC-3 (44%; 30%); EnviroCel Cushion Plus ECP-4 (7%; 38%).
	Interface Flor Commercial	800.336.0225	www.interfaceflorcommercial.com	NexStep	Carpet system with nylon face fiber and polyurethane carpet backing	Yes - GLP, SCS	Complete information n/a as of 3/31/08	* (see note above)	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	
	Milliken	800.528.8453	www.milliken地毯.com	Comfort Plus	Polyurethane carpet backing	Yes - GLP, CAP, SCP	PBDE-free	* (see note above)	No	Yes	Tile - uses small amount of halogen in pre-coat for the backing. Does not use brominated flame retardants. Comfort Plus ESP has up to 25% post-consumer recycled content.

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<b>Carpet (cont'd) (09 68 00)</b>	Mohawk / Lees Carpet	800.523.5647	www.leescarpet.com	Unibond, Unibond RE, and Unibond U2 backing	Polypropylene/ethylene vinyl acetate (EVA) backing	Yes - GLP, SCG (see notes)	Yes	* (see note above)	Yes	No (traces)	Broadloom - polypropylene and EVA are inherently flame resistant and meet the Class 1 standards. Unibond RE contains 20% post-consumer recycled content, and is SCP and CAP. Unibond contains no recycled content and is SCG. Unibond U2 contains 18% post-industrial recycled content and is not certified.
	Mohawk	800.241.4494	www.mohawkind.com	Action Bac (standard backing)	Polypropylene carpet backing	Yes - GLP	Yes	* (see note above)	Yes	No (traces)	Broadloom. Contains 7% post-consumer recycled content. Some non-standard backings contain anti-microbials.
	Mohawk	800.241.4494	www.mohawkind.com	Encycle (plain) and Encycle RE	Ethylene vinyl acetate (EVA) carpet backing	Yes - GLP (see notes)	Yes	* (see note above)	Yes	No (traces)	Tile. On market for less than a year. Encycle (plain) non-PVC tile includes 37% post-industrial recycled content. Encycle RE includes 10% post-consumer, and 25% post-industrial recycled content. Encycle RE is also CAG.
	Mohawk	800.241.4496	www.mohawkind.com	UPS RE and UPS RE Bloc carpet backing	Ethylene vinyl acetate (EVA) carpet backing	Yes - GLP, SCP, CAP	Yes	* (see note above)	Yes	No (traces)	Broadloom. UPS RE contains 15% post-consumer, 4% post-industrial recycled content. UPS RE Bloc contains 12% post-consumer, 3% post-industrial recycled content.
	Shaw Contract Group	800.441.7429	www.shawcontract.com	Eco Solution fiber & EcoWorx carpet backing	Nylon face fiber with thermoplastic polyolefin backing	Yes - GLP, CAG, SCG	Yes	* (see note above)	Yes	No	Tile & 6 foot roll; broadloom. MDBC Silver certification.
	Tandus	800.248.2878	www.tandus.com	ethos™ backing (C&A brand)	Recycled polyvinyl butryal (PVB) carpet backing	Yes - GLP, CAP, SCP	Yes	* (see note above)	Yes	Yes	Six foot roll.
	Tandus	800.248.2878	www.tandus.com	LifeLong backing system (Monterey, Crossley brand)	Nylon face with high-performance acrylic backing	Yes - GLP	Yes	* (see note above)	Yes	Yes	Broadloom. Backing contains 65% pre-consumer recycled content. Total content is 23% to 37% pre-consumer recycled.
<b>Furniture (12 50 00)</b>	PVC is frequently used in furniture, as an upholstery fabric as well as in the plastic components. The manufacturers of office furniture listed here are making efforts to eliminate PVC from their furniture lines. Only limited lines are available completely PVC-free at this time. Note: if special specifications require higher fire safety, HFRs might be used in the products.										
	Herman Miller	888.443.4357	www.hermanmiller.com	Mirra, Caper, Celle, Foray chairs	Mesh with non-PVC parts	Yes - GG	Yes	Yes	Yes	Yes	Chairs, each with recycled content, as follows: Mirra - 31% post-consumer, 11% post-industrial; Celle - 28% post-consumer, 5% post-industrial; Caper - 15% post-consumer, 6% post-industrial; and, Foray - 28% post-consumer, 21% post-industrial.

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<sup>1</sup> IAQ = Indoor Air Quality    <sup>2</sup> HFR = Halogenated Flame Retardants    <sup>3</sup> PFC = Perfluorinated Chemicals

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<b>Furniture (cont'd) (12 50 00)</b>	Herman Miller	888.443.4357	www.hermanmiller.com	Ethospace Nurses' Station	Steel frame, sustainable wood, textiles, various non-PVC plastics	Yes - GG	Yes	Yes	Yes	Yes	Nurses' Station. All standard rectilinear worksurfaces are PVC-free. Must request PVC-free for other components. Contains 10% post-consumer and 36% post-industrial recycled content.
	Herman Miller	888.443.4357	www.hermanmiller.com	My Studio Environments wall system	Steel frames finished with painted, glass, or veneer cladding to create four walls	Yes - GG	No	Yes	Yes	No	Manufacturer states "in order to replace PVC, a halogenated flame retardant and antimony synergist were required." Includes 13% post-consumer and 7% post-industrial recycled content.
	Herman Miller	888.443.4357	www.hermanmiller.com	Modular Healthcare Casework	Steel, particle board, melamine, and acrylonitrile butadiene styrene (ABS)	Yes - GG	Yes	Yes	Yes	Yes	Select products are PVC-free. Contains 6% post-consumer and 62% post-industrial recycled content.
	Herman Miller	888.443.4357	www.hermanmiller.com	Tu, Meridian, Teneo	Filing and storage	Yes - GG (see note)	Yes	Some (see note)	Yes	Yes	Manufacturer states that some colors and finishes for these filing and storage products may contain "a very small amount of PTFE." Greenguard certification is "pending" for the Teneo storage furniture. Surfaces of Teneo furniture must be Formcoat® or veneer to be PVC-free.
	Knoll Life	877.615.6655	www.knoll.com	Life chair	Aluminum, steel, glass filled nylon. Available in plastic and aluminum base.	Yes - GG	Yes	Yes	Yes	Yes	Plastic base version of chair has 55% recycled content (38% post-consumer, 17% post-industrial). Aluminum base version has 62% recycled content (51% post-consumer, 9% post-industrial).
	Steelcase	800.333.9939	www.steelcase.com	Think, Leap, Amia, and Jersey Seating chairs	Water blown cushioning foams. Polyester is standard fabric.	Yes - GG	PBDE-free	No	Complete information n/a as of 3/31/08	No (see notes)	Chairs. Antimony-free fabrics available upon request.
	Teknion	877.835.6466	www.teknion.com	Contessa	Mesh	Yes - GG	Yes	Yes	Yes	Yes	Chair

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Products (CSI Division)	Manufacturer/ brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments	
<b>Privacy and Cubicle Curtains (10 21 23)</b>	The production of PVC privacy and cubicle curtains for health care facilities has declined in recent years. Health care facilities predominantly purchase curtains made of Avora® and Trevira, Both are made from polyester fibers embedded with phosphorous flame retardants. Purchasers should request curtains free of PFCs and antimicrobials.											
<b>Resilient Flooring (09 65 00)</b>	Allstate Rubber	718-526-7890	www.allstaterubber.com	Frei Floor. Also named LifeLine.	Calcium carbonate (72%), thermoplastic polymer (25%), titanium dioxide and additional pigments (2%), acrylic polymer ionomer wear layer (<1%)	No	Yes	Yes	Yes	Yes	Tile. Third party testing found FreiFloor "predicted to meet Greenguard emissions criteria." Contains 36% post-industrial recycled content. FreiFloor is manufactured by Upofloor Oy in Finland.	
	Allstate Rubber	718-526-7890	www.allstaterubber.com	Au Natural	100% plantation-grown virgin rubber	No	Yes	Yes	Yes	Yes	Au Natural flooring expected to be introduced in April 2008.	
	Amtico	404.267.1900	www.stratica.com	Stratica	Wear layer is Surlyn® (ethylene/methacrylic acid copolymer) wear layer. Backing from mineral-filled ethylene copolymer.	Yes - CHPS and FS	Yes	Yes	None in product; added to some adhesives	Yes	Tile and plank	
	Architectural Flooring Systems	847.394.3944	www.4afs.com	CS Line. Also named LifeLine CS.	Calcium carbonate (72%), thermoplastic polymer (2-propenoic acid, 2-methyl-, polymer with ethene, zinc salt, 25%), titanium dioxide (2%), with acrylic polymer ionomer wear layer (<1%)	No	Yes	Yes	Yes	Yes	Manufactured in Finland by Upofloor Oy. Contains 25% post-industrial recycled content. Manufacturer states that this product is emission free.	
	Armstrong	800.233.3823	www.armstrong.com	Migrations	Contains "patent-pending BioStride™ polymer, which is made with rapidly renewable ingredients" grown in the U.S. Currently corn-based product.	Yes - FS, CA 01350	Yes	Yes	Yes	Yes	Yes	Manufacturing facility recently opened in Jackson, Mississippi.
	Armstrong	800.233.3823	www.armstrong.com	Marmorette™, Linorette™, Colorette™, Uni Walton™, and Granette™	Natural linoleum (linseed oil, wood powder and pigments)	Yes - CHPS and FS	Yes	Yes	Yes	Yes	Yes	Tile

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Products (CSI Division)	Manufacturer/brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Resilient Flooring (cont'd) (09 65 00)</b>	Ceres Natural Flooring (a division of CBC (America) Corp.)	888.377.8801	www.ceresnaturalfloors.com	"PVC-Free" WELS sheet flooring	Polyurethane	Yes - CHPS	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Yes	Sheet. Line being reformulated with expanded color options to be introduced in Summer 2008.
	Ceres Natural Flooring (a division of CBC (America) Corp.)	888.377.8801	www.ceresnaturalfloors.com	Sequoia "PVC-Free" Plank. Also named LifeLine LT.	Calcium carbonate (66%), thermoplastic polymer (2-propenoic acid, 2-methyl-, polymer with ethene, zinc salt, 31%), titanium dioxide and additional pigments (2%), with acrylic polymer ionomer wear layer (<1%)	Yes - CHPS	Yes	Yes	Yes	Yes	Plank. 60% post-industrial recycled content by weight. Manufactured by Upofloor in Finland.
	Forbo	800.842.7839	www.forboflooringna.com	Marmoleum	Natural linoleum	Yes - CHPS	Yes	Yes	Yes	Yes	Tile
	Mohawk	800.241.4494	www.themohawkgroup.com	StoneWalk	Limestone (80%), ethylene acrylic (20%)	Yes - FS	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Tile. Manufactured by American Biltrite Canada, in Ontario. Also sold under name of "StoneScape." Contains 45% post-industrial recycled content.
	Mondo	800.361.3747	www.mondousa.com	Punti, Harmony, Geode, Natura, Terra Nova	Natural and/or virgin synthetic rubber	Yes - CA 01350	Yes	Yes	Yes	Yes	Roll and tile
	Nora	800.332.6672	www.norarubber.com	noraplan, norament	Rubber (natural and industrial)	Yes - GG, GGCS	Yes	Yes	Yes	Yes	Roll and tile. Most norament products contain 7% post-industrial recycled content. All noraplan products contain 10% natural renewable rubber.
	Nova	866.576.2458	www.novafloorings.com		Natural linoleum	Yes - EU, FSC	Yes	Yes	Yes	Yes	Tile
	Tarkett	800.366.2689	www.tarkett-commercial.com	"Linoleum XF, Linosom Etrusco, Linosport, Toscano, Veneto"	Natural linoleum	Yes - CHPS and FS	Yes	Yes	Yes	Yes	Tile

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<b>Shower Curtains (12 44 16)</b>	Some health care institutions use cubicle curtains made from inherently flame resistant polyester or nylon, adapted for use in showers.										
	Brite, Inc.	800.791.2946	www.briteinc.com		Nylon	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	
	Hospi-Tel	973.678.7100	www.hospitel.com	PVC-free shower curtains	Polyester, Nylon, Cotton/ Polyester Blend, or Cotton	No	Yes	Some (see note)	Yes	Complete information n/a as of 3/31/08	Cotton/poly blends are not water repellent and are not treated with PFCs. The 100% polyester, nylon and cotton curtains are treated with water repellants.
<b>Upholstery (12 52 70)</b>	Architex	800.621.0827	www.architex-ljh.com	Authentec collection (Big Bird, Epoch, Patent, Swayed, Membership, Ties, Animal)	Polyurethane with polyester backing	No	Complete information n/a as of 3/31/08	Yes	Yes	Yes	
	Carnegie Fabrics	800.727.6770	www.carnegiefabrics.com	Xorel	Polyethylene	Yes - CA 01350; IAG	Yes	Yes	Yes	Yes	Carnegie plans to release line of Crypton Green upholstery fabrics in June 2008.
	CF Stinson	800.841.6279	www.cfstinson.com	Sythesis Collection	Polyurethane face / recycled polyester back	No	Yes	Yes	No	Yes	Backing is 80% pre-consumer, 20% post-consumer content. Patterns include Eclipse, Flutter, and Hoopla.
	CF Stinson	800.841.6279	www.cfstinson.com	AglON Collection	Polyurethane face / blended with cotton, rayon or polyester backing	No	Yes	Yes	No	Yes	Patterns include Optic, Silverado, Sterling and Wink.
	CF Stinson	800.841.6279	www.cfstinson.com	"PVC-Free" Collection	Polyurethane or urethane face / blended with cotton, rayon, or polyester backing	No	Yes	Yes	Some	Yes	"Volterra-HC" pattern includes anti-microbial; other patterns do not (Glisten, Mesa, Napa, Pinstripe, Sedona, and Tender). All patterns are plasticizer-free.
	DesignTex	800.221.1540	www.dtex.com	Journey, Friendly, Faux, Faux Sure	Nylon microfiber	Yes - CA 01350 and CHPS	Yes	Yes	Yes	Yes	

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<b>Upholstery (cont'd) (12 52 70)</b>	Instyle	415.515.9851	www.instylecontracttextiles.com	LIFE Sustainable Textiles	eco wool™ and organic wool fibers	No	Yes	Yes	Yes	Yes	Naturally fire retardant and anti-static - does not require VOC testing because wool does not off gas. Eco-wool™ is sourced from a Tasmanian farm that occasionally uses pesticides.
	Jhane Barnes	800.922.0542	www.jhanebarnestextiles.com	Sustainable Product Collection	Recycled polyester (Keratex)	No	Yes	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	
	LDI Corporation	866.332.0700	www.ldisolutions.com	EnviroLeather	Cotton and polyester with polymer finish	Yes - CA 01350	Yes	Yes	No (see note)	Yes	Designed for medical furniture. California line of EnviroLeather does not contain anti-microbials; Montana line does.
	Maharam	800.645.3943	www.maharam.com	Ledger, Scuba, Wafer	Polyurethane	Yes - GGCS	Yes	Yes	Yes	None known or suspected	
	Maharam	800.645.3943	www.maharam.com	Ply by Luisa Cevese	Polyurethane film with various fibers	Yes - GGCS	Yes	Yes	Yes	None known or suspected	
	Maharam	800.645.3943	www.maharam.com	Sudden	Polyurethane	No	Yes	Yes	Yes	None known or suspected	
	Momentum Textiles	800.366.6839	www.themomgroup.com	Foray, Icon	Polyurethane	No	Yes	Yes	No	Yes	
	Pallas	800.472.5527	www.pallastextiles.com	Crossword, Graffito, Notations, On The Path, Shorthand, Seeking Truth, Solid Footing, Thunder	Recycled polyester	No	Yes	Yes	Yes	Complete information n/a as of 3/31/08	
Pallas	800.472.5527	www.pallastextiles.com	Holy Cow	Polyurethane	No	Yes	Yes	Yes	Complete information n/a as of 3/31/08		

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Products (CSI Division)	Manufacturer/ brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Upholstery (cont'd) (12 52 70)</b>	Ultrafabrics	914.460.1730	www.ultrafabricsllc.com	Ultraleather; Ultraleather Promessa; Ultraleather Plus; Ultraleather Brisa; Ultraleather Brisa Soleil, Ultratech 7000	Polyurethane	Yes - CA 01350, Oeko Tex 100	Yes	Yes	Some (see note)	Yes	Promessa and Ultraleather Plus lines contain anti-microbials.
<b>Wall Coverings (09 72 00)</b>	Carnegie Fabrics	800.727.6770	www.carnegiefabrics.com	Xorel	Polyethylene	Yes - CA 01350; IAG	Yes	Yes	Yes	Yes	
	Designtex	800.221.1540	www.dtex.com	Macula, Planetary, Triton, Nebula, Tectonic.	Combination of post-consumer recycled solution-dyed polyester and solution-dyed olefin	Yes - CA 01350	No	No	Yes	No	44% post-consumer recycled content
	Designtex	800.221.1540	www.dtex.com	Bayou, Briar, Liana, Rabanna	Olefin	No	Yes	Yes	Yes	Yes	
	Designtex	800.221.1540	www.180walls.com	180 Walls	Polyester	Yes - CHPS, GG, and GGCS	Yes	No	Yes	No	Also sold by Milliken. MDDB Silver certified.
	Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	EcoAlchemy	Recyclable nylon covering with polyester and wood pulp backing	No	Yes	Yes	Yes	Yes	100% polyester non-woven backing. Includes non-halogenated flame retardant. Company states it has "passed the Greenguard indoor air quality test, however we are not certified."
	Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	Allegory and Italia	Wood pulp (50%), Spun-woven polyester fibers (50%)	No	Yes	Yes	Yes	Yes	Single ply backing. Includes non-halogenated flame retardant.
	Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	Eco-Suede	Recyclable poly fibers with wood pulp backing.	No	Yes	Yes	Yes	Yes	Includes non-halogenated flame retardant.
	Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	Gelato	Nylon/cellulose	No	Yes	Yes	Yes	Yes	Includes non-halogenated flame retardant.
	Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	Hokkaido and Honshu	100% Cellulose	No	Yes	Yes	Yes	Yes	Includes non-halogenated flame retardant.
Innovations in Wall Coverings	800.227.8053	www.innovationsusa.com	Oxford	Polyester (65%)/Cotton (35%) covering; polyester/cellulose backing	No	Yes	Yes	Yes	Yes	Includes non-halogenated flame retardant.	

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<sup>1</sup> IAQ = Indoor Air Quality    <sup>2</sup> HFR = Halogenated Flame Retardants    <sup>3</sup> PFC = Perfluorinated Chemicals

## GREEN BUILDING: ALTERNATIVES TO POLYVINYL CHLORIDE (PVC) BUILDING MATERIALS FOR HEALTH CARE (PAGE 9 OF 11)

Products (CSI Division)	Manufacturer/ brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Wall Coverings (cont'd) (09 72 00)</b>	InPro	800.222.5556	www.inprocorp.com	G405 and G406 Sanparrel	Polyester-based glycol-modified polyethylene terphthalate (PETg)	No	Yes	Yes	Yes	Yes	Part of InPro's EnviroGT product line. Other products in InPro's Sanparrel wallcovering line are made from PVC.
	Jhane Barnes	800.922.0542	www.jhanebarnestextiles.com	Sustainable Product Collection	Recycled polyester (Keratex)	No	Yes	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	
	LDI Corp	866.332.0700	www.ldisolutions.com	Enviro-Wall Cover	Olefin polymer covered textile	Yes - CA 01350	Yes	Yes	No	Yes	
	Lentex Corporation	603.445.2342	www.lentexcorp.com	Surface IQ	Thermoplastic olefin	Yes - CA 01350, CHPS	Yes	No	No	Yes	MDBC Silver certification. Also sold by Carnegie Fabrics.
	Maharam	800.645.3943	www.maharam.com	Alphabet, Circles, and Roman Stripe by Alexander Girard	62% cellulose, 38% polyester	Yes - GGCS	Yes	Yes	Yes	None known or suspected	
	Maharam	800.645.3943	www.maharam.com	Burnish	99% wood fiber, 1% nylon	Yes - GGCS	Yes	Yes	Yes	None known or suspected	
	Maharam	800.645.3943	www.maharam.com	Dialect	65% wood fiber, 35% polyester	Yes - GGCS	Yes	Yes	Yes	None known or suspected	
	MDC Wallcoverings	800.621.4006	www.mdcwall.com	Enspire Wallcoverings	Polyolefins & wood fiber	Yes - Listed under GG, but not certified	BFR-free	Complete information n/a as of 3/31/08	No	Complete information n/a as of 3/31/08	
	Pallas	800.472.5527	www.pallastextiles.com	Pallas panel fabrics	Recycled polyester	No	Yes	Yes	Yes	Complete information n/a as of 3/31/08	All Pallas panel fabrics are made of post-industrial recycled polyester.
	Roos International	800.888.2776	www.roosintl.com	Envision and Textured Glass	Non-woven polyester and cellulose blend (Envision), fiberglass (Textured Glass)	Yes - NYC Toxicity Test	Yes	Yes	Yes	Yes	Textured Glass is OekoTex certified.

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## GREEN BUILDING: ALTERNATIVES TO POLYVINYL CHLORIDE (PVC) BUILDING MATERIALS FOR HEALTH CARE (PAGE 10 OF 11)

Products (CSI Division)	Manufacturer/brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Wall Coverings (cont'd) (09 72 00)</b>	Scuffmaster	800.898.0219	www.scuffmaster.com	Scrub Tough, Ambient Designs, Ambient Metallic, Armor	Polyurethane or latex strengthened with polyurethane	Yes - GS	Yes	Yes	No	Yes	Spray applied interior wall finishes designed specifically for use in hospitals and other like settings.
	Zolatone	800.200.8120	www.zolatone.com	Polomyx, Illuminations, Metals, Kinesis	Polychromatic finish coatings	No	Yes	Yes	No	Yes	Spray-applied interior wall finishes. Low VOCs, but only in the water-based formulas.
<b>Wall &amp; Corner Guard (incl hand rails) (10 26 00, 05 52 00, &amp; 06 43 13)</b>	Construction Specialties	908.236.0800	www.c-sgroup.com	Acrovyn 3000	Acrylonitrile butadiene styrene/polycarbonate and aluminum/bamboo options	Yes - CA 01350	Yes	Yes	Yes	Yes	Wall and corner guards & rails
	InPro Corporation	800.222.5556	www.inprocorp.com	Enviro GT	Wood (ash) with 100% recycled high density polyethylene (HDPE) cover.	No	Yes	Yes	Yes	Yes	Wall and corner guards & hand rails. Ash is Forest Stewardship Council (FSC) certified.
	Pawling	800.431.3456	www.pawling.com	Pro-tek Earth	Recycled high density polyethylene	No	Yes	Yes	Yes	Yes	100% post-consumer recycled content. Wall and Corner Guards
	Pawling	800.431.3456	www.pawling.com	Adirondack Series	Wood	No	Yes	Yes	Yes	Yes	
	Pawling	800.431.3456	www.pawling.com	Steri-Gard	Stainless steel or aluminum	No	Yes	Yes	Yes	Yes	Stainless steel is 59% post-consumer; 33% post-industrial recycled content. Aluminum is 70% post-industrial recycled content.
	Pawling	800.431.3456	www.pawling.com	Other corner guards	Polycarbonate; Aluminum; and Stainless steel	No	Yes	Yes	Yes	Yes	Polycarbonate contains no recycled content. Aluminum is 70% post-industrial and stainless steel is 59% post-consumer, 33% post-industrial recycled content.
	Tubular Specialties	800.225-5876	www.calltsm.com	Grab bars and grab rails	Stainless steel or brass	No	Yes	Yes	Yes	No	Grab bars and grab rails
<b>Window Treatments (12 20 00)</b>	DesignTex	800.221.1540	www.dtex.com	Cinq, Mood, Ombra, Optic, Topic, and Topic Color	Trevira© CS polyester	No	Yes	Yes	Yes	No (trace amounts)	Passes Oeko-Tex 100 with only trace amounts of antimony.
	Draper	800.238.7999	www.draperinc.com	Flocké by Mermet	Fiberglass base with acrylic backing. 42% fiberglass, 51% acrylic, 7% titanium oxide.	No	No	Yes	Yes	Yes	Blackout shade

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## GREEN BUILDING: ALTERNATIVES TO POLYVINYL CHLORIDE (PVC) BUILDING MATERIALS FOR HEALTH CARE (PAGE 11 OF 11)

Products (CSI Division)	Manufacturer/brand	Telephone #	Webpage	PVC-Free Brand products	Material	IAQ <sup>1</sup> Testing or Certification	HFR <sup>2</sup> -Free	PFC <sup>3</sup> -Free	Anti-microbial Free	Heavy Metal Free	Comments
<b>Window Treatments (cont'd) (12 20 00)</b>	Draper	800.238.7999	www.draperinc.com	Obion by Mermet	Fiberglass base with cotton flocked backing. (72% fiberglass, 24% acrylic, 4% cotton flocked backing)	No	No	Yes	Yes	Yes	Mesh shade
	Draper	800.238.7999	www.draperinc.com	SheerWeave® Series SW7000 by Phifer	Polyester with acrylic foamed backing	No	No	Yes	Yes	Yes	Blackout shade
	Draper	800.238.7999	www.draperinc.com	Roc-rol™ by Rockland	70% polyester, 30% cotton.	No	No	Yes	Yes	Yes	Blackout shade
	Draper	800.238.7999	www.draperinc.com	Terra and Vela by Mermet	100% polyester	No	No	Yes	Yes	Yes	Mesh shade. New product.
	Draper	800.238.7999	www.draperinc.com	SW Infinity PVC-Free	Olefin-coated olefin yarn.	No	No	Yes	Yes	Yes	New product, introduced in 2008.
	Lutron	800.446.1503	www.vimco.com	Sheer Nature from Lutron	Hexcel glass fabric	Complete information n/a as of 3/31/08	Yes	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Complete information n/a as of 3/31/08	Internal roller blinds - mesh and darkening shades - polyester options are coated with PVC.
	Mecho Shade	718.729.2020	www.mechoshade.com	EcoVeil	Thermoplastic olefin fiber filaments and coating	No	No	Yes	Yes	No	Solar shade cloth. MDBC Silver certification. Heavy metal is antimony.
	Nysan	403.204.8675	www.nysan.com	GreenScreen	Trevira© CS polyester with polyurethane coating	Yes - EU	Yes	No	Yes	No (trace amounts)	Mesh and blackout shades. Currently in testing with Greenguard. Trace amounts of antimony in polyester. Available in blackout, 1, 3, 5, 6, 8, 10, and 25% open and in several weave patterns. Optional metallization component to increase reflectivity of darker fabrics.

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In conjunction with:



927 15th Street, NW,  
Fourth Floor  
Washington, DC 20005  
Phone: 202.898.1610  
Fax: 202.898.1612  
[www.healthybuilding.net](http://www.healthybuilding.net)  
[info@healthybuilding.net](mailto:info@healthybuilding.net)

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