

In an effort to assist Affordable Housing Pilot Projects and all other projects attempting the Living Building Challenge Materials Petal, the International Living Future Institute has created a resource to address common material questions. The Institute has compiled brief summaries of the requirements for each CSI MasterFormat section listed below, also with common issues and applicable Exceptions. This resource is intended to assist project teams with product selection and is considered a supplement to the Materials Petal Handbook and Dialogue.

The list of products below has been categorized into three main categories:

Declare Products: Products with a Declaration Status of Red List Free or LBC Compliant are listed below; all applicable products listed with an active Declare label as of September 2016 are included. The Declare products listed below do not require any additional documentation for the Red List Imperative, since they are listed as Red List Free and LBC Compliant. Wood products may also need to provide FSC Chain-of-Custody numbers or salvage documentation for the Responsible Industry Imperative.

Cradle to Cradle Products: Products with a C2C Materials Health Certification level of Silver or higher are listed below. Cradle to Cradle Silver+ products are likely to be Red List Free, but require the the project request full ingredient disclosure from manufacturers.

Project List Products: Products listed under the Product List column have been successfully vetted by previous project teams and may be a lead to a compliant product. These products still require full ingredient vetting and project teams must contact manufacturers regarding full ingredient disclosure and Red List compliance.

Division 06: Wood, Plastics, and Composites

06 10 00 Rough Carpentry

Rough carpentry products made from virgin wood sources must be FSC 100% , or if unavailable as documented through Due Diligence, FSC Mixed Source. See the ILFI FSC Handout for additional information on sourcing FSC products. Alternatively, wood products may be documented as salvaged or intentionally harvested onsite.

All non-structural products must be free of added formaldehyde and all fire retardant/antimicrobial/antifungal treatments must be Red List Free.

Common Product Issues: Appropriate time should be allocated to research and source FSC Chain-of-Custody products and longer than typical lead times should be factored into the construction schedule. All resins, glues and treatments should be Red List Free, unless stated otherwise in an existing Exception.

Applicable Exceptions (See Materials Petal Handbook for full language): I12-E1 Intentional Harvest; I12-E2 Pending Forest Stewardship Council (FSC) Certification; I12-E3 Invasive Species; I12-E4 Underwater Salvaged Wood; I12-E5 Donated Surplus Wood; I12-E6 Urban Harvest Wood; I12-E8 Storm Felled Wood

Alternate Products:	Supplier	Declare	C2C Silver+	Project List	Final Assembly Location
		X			
Accoya® Wood (Radiata Pine & Alder)	Accsys Technologies				
ABU44 Post Base	Simpson Strong-Tie			X	
ECC 4.62-362, CC 4.62-3.62	Simpson Strong-Tie			X	
LifeWood Treated Wood	Osmose			X	
GRK-RSS Screws	GRK Fasteners			X	
H Shield F	Hunter Panels			X	
Headlock Screws	Fastenmaster, OMG Inc			X	
Xci Foil	Hunter Panels			X	
LB210, LB212	Simpson Strong-Tie			X	
LUS28, LUS210	Simpson Strong-Tie			X	
Styrofoam Sill Seal Blue Corrugated Gasket	Dow Chemical Company			X	
FSC Wood	Hall Tavern Farm			X	
RigidLam LVL	Roseburg Forest Products			X	
LifeWood Micropro	Koppers Performance Chemicals			X	
HDU/DTT2Z Holdowns	Simpson Strong-Tie			X	
Spruce Framing Lumber	Pleasant River Lumber			X	
LVL Roof Connectors	Simpson Strong-Tie			X	
Wood Truss	Universal Forest Products			X	
Shop Fabricated Wood Trusses	UFP Purchasing			X	

06 20 00 Finish Carpentry

Finish carpentry products made from virgin wood sources must be FSC 100% , or if unavailable as documented through Due Diligence, FSC Mixed Source. See the ILFI FSC Handout for additional information on sourcing FSC products. FSC Chain-of-custody must be maintained from harvest through final product assembly (millwork shop). Alternatively, wood products may be documented as salvaged or intentionally harvested onsite. All finish carpentry wood products must be free of added formaldehyde and all fire retardant/antimicrobial/antifungal treatments must be Red List Free.

Common Product Issues: Appropriate time should be allocated to research and source FSC Chain-of-Custody products and longer than typical lead times should be factored into the construction schedule. All resins, glues and treatments should be Red List Free, unless stated otherwise in an existing Exception.

Applicable Exceptions (See Materials Petal Handbook for full language): I12-E1 Intentional Harvest; I12-E2 Pending Forest Stewardship Council (FSC) Certification; I12-E3 Invasive Species; I12-E4 Underwater Salvaged Wood; I12-E5 Donated Surplus Wood; I12-E6 Urban Harvest Wood; I12-E8 Storm Felled Wood

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
White Cedar for Siding/Soffit	Mobilier Rustique				X
Eastern White Pine Boards	Hancock Lumber				X
Siding Vent V-3 and SV5	COR-A-Vent (Siding Vent SV-3 andSV-5))				X
Typical Western Red Cedar Bevel Siding	Terminal Forest Products Ltd.				X
Eastern White Pine Interior and exterior trim FSC Wood	Hall Tavern Farm				X

06 40 00 Architectural Woodwork

Architectural woodwork products made from virgin wood sources must be FSC 100% , or if unavailable as documented through Due Diligence, FSC Mixed Source. See the ILFI FSC Handout for additional information on sourcing FSC products. FSC Chain-of-custody must be maintained from harvest through final product assembly (millwork shop). Alternatively, wood products may be documented as salvaged or intentionally harvested onsite.

All architectural woodwork products must be free of added formaldehyde and all fire retardant/antimicrobial/antifungal treatments must be Red List Free.

Common Product Issues: Appropriate time should be allocated to research and source FSC Chain-of-Custody products and longer than typical lead times should be factored into the construction schedule. All resins, glues and treatments should be Red List Free, unless stated otherwise in an existing Exception.

Applicable Exceptions (See Materials Petal Handbook for full language): I12-E1 Intentional Harvest; I12-E2 Pending Forest Stewardship Council (FSC) Certification; I12-E3 Invasive Species; I12-E4 Underwater Salvaged Wood; I12-E5 Donated Surplus Wood; I12-E6 Urban Harvest Wood; I12-E8 Storm Felled Wood

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
Thoma Holz100	THOMA HOLZ GMBH		X		
Titebond II Premium Wood Glue	Franklin International				X
Reclaimed Wood Stair Treads	Architectural Timber, Inc.				X
Plain Sawn sliced Natural Ash Europly Plus Veneer Core Plywood	Columbia Forest Products				X
Reclaimed Wood Flooring	Architectural Timber, Inc.				X
NS974 Glue	3M				X

06 70 00 Structural Composites

Structural composite wood products must be FSC 100% , or if unavailable as documented through Due Diligence, FSC Mixed Source. See the ILFI FSC Handout for additional information on sourcing FSC products. FSC Chain-of-custody must be maintained from harvest through final product assembly. Alternatively, wood products may be documented as salvaged or intentionally harvested onsite.

Structural Wood Panels, Sheathing, Shop Fabricated Structural Wood, and Glue Laminated Construction may contain phenol formaldehyde, but must otherwise be formaldehyde free.

Common Product Issues: Appropriate time should be allocated to research and source FSC Chain-of-Custody products and longer than typical lead times should be factored into the construction schedule. Structural composites and sheet good members may contain added phenol formaldehyde.

Applicable Exceptions (See Materials Petal Handbook for full language): I10-E10-Structural Composite Wood Members; I12-E1 Intentional Harvest; I12-E2 Pending Forest Stewardship Council (FSC) Certification; I12-E3 Invasive Species; I12-E4 Underwater Salvaged Wood; I12-E5 Donated Surplus Wood; I12-E6 Urban Harvest Wood; I12-E8 Storm Felled Wood

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
MycoBoard™	Ecovative	ECO-0002	X		New York, USA
Nordic Joist	Nordic Engineered Wood	NWP-2001	X		Quebec, Canada
Nordic X-Lam	Nordic Engineered Wood	NWP-2002	X		Quebec, Canada
Nordic Lam	Nordic Engineered Wood	NWP-2003	X		Quebec, Canada

Division 07: Thermal and Moisture Protection

07 10 00 Dampproofing and Waterproofing

Dampproofing and waterproofing products are sheet or liquid applied to keep water vapor and water out of the substrate. All products used in the dampproofing or waterproofing assembly must be fully vetted, including installation adhesives and accessory products.

Common Product Issues: Project teams must research alternatives to PVC membranes. Project teams should prioritize manufacturers willing to disclose a minimum of 99% of ingredients.

Applicable Exceptions: None

Alternate Products:		Declare	CFC Silver+	Project List	Final Assembly Location
PrePrufe 300R	W.R. Grace			X	
Styrofoam Perimate	Dow Chemical Company			X	
Tuff-N-Dri H8 Waterproofing	Tremco Barrier Solutions			X	
Bituthene 3000	W.R. Grace			X	
Bituthene B2 Primer	W.R. Grace			X	
Bituthene Liquid Membrane	W.R. Grace			X	
Hydroduct 220	W.R. Grace			X	
Bituthene 3000	W.R. Grace			X	
Bituthene Liquid Membrane	W.R. Grace			X	
Bituthene Mastic	W.R. Grace			X	
Bituthene Primer WP 3000	W.R. Grace			X	
Bituthene Waterproofing Membrane	W.R. Grace			X	
Hydroduct 220	W.R. Grace			X	

07 20 00 Thermal Protection

Thermal protection products prevent the movement of heat from one space to another, typically blocking conduction. Thermal protection products typically include rigid board, batt and loose fill products; and may be interior or exterior applied.

Common Product Issues: Formaldehyde binders, HFRs and CFC/HCFC blowing agents are common in thermal protection products. Ingredients must be vetted to confirm Red List ingredients are not present, unless where permitted by a published LBC Exception.

Applicable Exceptions: (See Materials Petal Handbook for full language): I10-E12 HFRs in Foam Insulation

Alternate Products:			Declare	CFC Silver+	Project List	Final Assembly Location
AttiCat®, PROPINK®, L77, and ProCat™ Unbonded Loosefill Insulation	Owens Corning	OWC-0001			X	Ohio, USA
Kraft-Faced EcoTouch® Insulation	Owens Corning	OWC-0002			X	California, USA
Unfaced EcoTouch® Insulation	Owens Corning	OWC-0003			X	California, USA
GreenFiber Cellulose Insulation	GreenFiber	GRF-2001, GRF-2002, GRF-2003, GRF-2004, GRF-2005, GRF-2006, GRF-2007			X	Ohio, USA; New York, USA; New England, USA; Arizona, USA; Utah, USA; Florida, USA; Texas, USA
Havelock Wool Insulation	Havelock Wool	HLW-0001			X	Nevada, USA
Earthwool® Pipe Insulation Unfaced	Knaf Insulation	KNF-1008			X	Indiana, USA
Jet Stream Ultra Loosefill Insulation	Knaf Insulation	KNF-2007; KNF-1014			X	Indiana, USA; California, USA
KN	Knaf Insulation	KNF-0013			X	Indiana, USA
Knaf Insulation Atmosphere Duct Liner	Knaf Insulation	KNF-0024			X	Indiana, USA
Knaf Insulation EcoBatt Kraft Faced	Knaf Insulation	KNF-2010; KNF-1016; KNF-0017; KNF-0018; KNF-0019			X	Indiana, USA; California, USA; Michigan, USA; Alabama, USA; West Virginia, USA
Knaf Insulation EcoBatt Unfaced	Knaf Insulation	KNF-2009, KNF-2012, KNF-0020, KNF-0021, KNF-0022			X	Indiana, USA; California, USA; Michigan, USA; Alabama, USA; West Virginia, USA
Knaf Insulation IB Board	Knaf Insulation	KNF-0023			X	Indiana, USA
Redi Klad® Pipe Insulation	Knaf Insulation	KNF-1011			X	Indiana, USA

07 20 00 Thermal Protection, Cont

MycFoam™	Ecovative	ECO-0001	x	New York, USA
Cabot Aerogel	Cabot Corporation		x	
H-Shield	Hunter Panels		x	
STYROFOAM Brand Square Edge Insulation	Dow Chemical Company		x	
2" Square Edge XPS	Dow Chemical Company		x	
Extruded Polystyrene Insulation	Dow Chemical Company		x	
Cel-Pak Cellulose Insulation	National Fiber		x	
Re-Used Foamular 250	Owens Corning		x	
Insulweb Netting	Hanes Companies		x	
Versico MP-H Polyiso	Carlisle		x	
Loctite PL300 Foamboard Adhesive	Henkel Corporation		x	
Nu-Wool Premium Cellulose Insulation	Nu-Wool Co		x	
EcoBatt QuietTherm Insulation	Knaufl Insulation		x	
Stego Wrap Vapor Barrier	Stego Industries		x	
Stego Tape	Stego Industries		x	
StegoTack Tape	Stego Industries		x	
Stego Mastic	Stego Industries		x	
UltraLiner Sound Blanket	Bonded Logic		x	

07 25 00 Weather Barriers

Weather barrier products provide a water resistant exterior wall assembly and prevent the accumulation of water within the wall cavity. Weather barrier products include sheet, fluid applied, and spray applied vapor retarders and air barriers; products are applied to either side of the exterior wall assembly.

Common Product Issues: PVC membranes should be avoided. A full ingredient breakdown is required of all products to ensure compliance; manufacturers adhesives and fluid applied membranes are historically slower to disclose this information.

Applicable Exceptions: (See Materials Petal Handbook for full language): I10-E12 HFRs in Foam Insulation

Alternate Products:			Declare	C2C Silver+ Project List	Final Assembly Location
R-Guard FastFlash Roller Grade	Prosoco	PRO-0009	x		Kansas, USA
R-Guard Joint & Seam Filler	Prosoco	PRO-1002	x		Kansas, USA
R-Guard FastFlash	Prosoco	PRO-1003	x		Kansas, USA
R-Guard Cat 5 Rain Screen	Prosoco	PRO-1004	x		Kansas, USA
R-Guard Cat 5	Prosoco	PRO-1005	x		Kansas, USA
R-GUARD AirDam	Prosoco	PRO-1006	x		Kansas, USA
TESCON PRIMER RP	Clima)	PRC-0001	x		North Rhine-Westphalia, Germany
TESCON VANA / PROFIL / INVIS	Clima)	PRC-0002	x		North Rhine-Westphalia, Germany
INTELLO Plus	Clima)	PRC-0003	x		North Rhine-Westphalia, Germany
WrapShield SA Self-Adhered System	VaproShield	VPS-0001	x		Illinois, USA
Cascadia Clip*	Cascadia Windows	CAW-1003	x		British Columbia, Canada
Foil-Grip 1402	Hunter Panels			x	
Stego Wrap Vapor Barrier	Stego Industries			x	
Stego Tape	Stego Industries			x	
StegoTack Tape	Stego Industries			x	
All Weather Flashing tape, 8067	3M			x	
Vycor Pro Window and Door Flashing	W.R. Grace			x	
Grace Ice and Water Shield	W.R. Grace			x	
Perm-A-Barrier Wall Membrane	W.R. Grace			x	
PERM-A-BARRIER WB PRIMER	W.R. Grace			x	
Zip System Tape	Huber Engineered Woods, LLC			x	
Bituthene Adhesive Primer B2 LVC	W.R. Grace			x	
Vycor Plus	W.R. Grace			x	
Handi-Foam ECO foam	Fomo Products, Inc.			x	

07 30 00 Steep Slope Roofing

Steep slope roofing products are typically installed on roofs with a slope of 6:12 or steeper and are selected for durability and aesthetics. Steep sloped roof are designed to quickly shed water or ice/snow. Metal sheet good and tiles products are common material solutions.

Common Product Issues: Many metal panel products (especially steel panels) are coated with coatings which may contain Red List ingredients. Additionally, roofing systems for projects that plan to collect and treat rainwater that has been in contact with the roof structure should ensure there are no leachability concerns with the coating or base materials of the roofing system.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
Standard Sheet Copper	Revere Copper Products, Inc.				
Unfading Green Slate	Vermont Structural Slate Company				
WR Grace Tri-Flex	W.R. Grace				

07 40 00 Roofing and Wall Panels

Prefabricated metal, composite plastic, or composite wood system, typically mechanically fastened to the building exterior. Panels may or may not include insulation and typically act as the exterior rain screen, insulation, and/or aesthetic finish.

Common Product Issues: Composite wood exterior wall panels are typically not considered a structural product and may not contain added formaldehyde. One exception is structural insulated panels, which may use utilize structural composite sheets goods in their construction. Rigid insulation products may contain HFRs and coating products may contain Red List ingredients.

Applicable Exceptions: (See Materials Petal Handbook for full language): I10-E11-Structural Composite Wood Sheet Goods; I10-E12 HFRs in Foam Insulation;

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Acrylic-Coated Galvalume CF	Metal Sales Manufacturing	MSM-1003	X			California, USA
Fluoropon Pure-Coated Steel Panels	Metal Sales Manufacturing	MSM-0004; MSM-0005	X			California, USA
Clay Tiles	Boral Roofing (US Tile Co)			X		
MOSA Ceramic Façade System	MOSA Façades BV			X		
Xero Flor® Vegetation	Bonar Xeroflor GMBH			X		
Clay Red Tile	Ludowici Roof Tile™ Inc.			X		
Modulogreen®	Modulogreen Vertical Solutions			X		

07 50 00 Membrane Roofing

Sheet roofing product installed on flat and low slope roofing assemblies. Membrane roofing is typically adhesive applied, mechanically fastened, or welded into place. Common materials include synthetic rubber, thermoplastic, and modified bitumen.

Common Product Issues: PVC membranes should be avoided. A full ingredient breakdown is required of all products to ensure compliance. Modified bitumen and asphalt are not directly on the Red List; ingredient breakdown for these materials types should be used to confirm no Red List ingredients were intentionally added to the product.

Applicable Exceptions: none

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Everguard Extreme TPO	GAF Corporation	GAF-0001; GAF-0002; GAF-0003	X			Indiana, USA; Texas, USA; Utah, USA
ENRGY 3®E -Roofing Insulation Board	Johns Manville	EJM-1001	X			Indiana, USA
Advanced Vegetative Roof System Tray	Columbia Green Technologies	CGT-2001	X			Washington, USA
VersiWeld Reinforced TPO Membrane	Carlisle			X		
HPVX	Versico Incorporated			X		
Aquabase 120 Adhesive	Versico Incorporated			X		
Low VOC Primer	Versico Incorporated			X		
Water Cut off mastic	Versico Incorporated			X		
TPO Clear Cut-Edge Sealant	Versico Incorporated			X		
TPO Primer	Versico Incorporated			X		
HPVX	Versico Incorporated			X		
Aquabase 120	Henkel Corporation			X		
Versico MP-H Polyiso	Carlisle			X		
Pressure Sensitive Russ	Versico Incorporated			X		
TPO Pressure Sensitive Cover Strip	Versico Incorporated			X		

07 50 00 Membrane Roofing, Cont

Firestone UltraPly TPO InvisiWeld Plate	Firestone Building Products Company, LLC	X
UltraPly TPO Membrane	Firestone Building Products Company, LLC	X
Heavy Duty Fasteners	Firestone Building Products Company, LLC	X
fSO 95+ GL Insulation	Firestone Building Products Company, LLC	X
Signature Slab	Unilock	X
Termination Bar	Firestone Building Products Company, LLC	X
UltraPly TPO Unsupported Flashing	Firestone Building Products Company, LLC	X
Water Based Bonding Adhesive-P	Firestone Building Products Company, LLC	X

07 60 00 Flashing and Sheet Metal

Flashing products are installed at building joints to prevent the infiltration of water from one materials or system to another. Flashing is commonly installed at roof and window joints. Flashing products are typically thin, malleably pieces of materials commonly made from metal or plastic.

Common Product Issues: PVC/vinyl and metal products with added lead should be avoided.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
LeakBarrier PS200Ht Ice and Water Armor	Tarco		X		
Metal Roofing Panels	Englert		X		
Snow Retention System	S-5!		X		
Duramar Architectural Coating	PPG		X		
Acryl-R Non-Skinning Roof Sealant	ITW Polymers Sealants North America		X		
MB-10A Sealant Tape	GSSI Sealants		X		
R-Mer Ply	Garland Co.		X		
Lexsuo Metal Flashing	GAf Corporation		X		
LeakBarrier PS200Ht Ice and Water Armor	Tarco		X		
Standard Sheet Copper	Revere Copper Products, Inc.		X		

07 70 00 Roof and Wall Specialties and Accessories

Roof and wall accessories may include copings, downspouts, roof vents, and guards. Products are typically made from sheet steel, aluminum, or plastic.

Common Product Issues: Vinyl accessories should be avoided. Full ingredient disclosure is required.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
RHEINZINK-prePATINA® Gutter and Downspouts	Rheinzink GMBH & CO.		X		

07 80 00 Fire and Smoke Protection

Includes systems, assemblies, and materials to create fire-resistant construction to safe guard against the spread of fire and smoke within a building or from building to building.

Common Product Issues: Ingredient disclosure for wet applied products and spray applied products may be difficult to obtain.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
OSI Flameseal Fire, Smoke, & Draft Stop Sealant	Henkel Corporation		X		

07 90 00 Joint Protection

Includes products used to fill and protect joints/gaps between similar or differing construction materials. Products may include sealants/caulks, gaskets, control joints, and weather stripping products.

Common Product Issues: Neoprene gaskets should be avoided. Full ingredient disclosure is required.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
Monokote MK-10HB	W.R. Grace				
OSI H2U Window, Door, Siding & Trim Sealant	Henkel Corporation			X	
OSI SC-175 Draft and Acoustical Sound Sealant	Henkel Corporation			X	
Titebond WeatherMaster Metal Roof Sealant	Franklin International			X	
Shermax Urethanized Elastomeric Sealant	The Sherwin-Williams Company			X	

Division 08: Openings**08 10 00 Doors and Frames**

Includes metal, wood, glass, and composite doors and their frames/supports. Includes interior and exterior products.

Common Product Issues: Wood products (solid and composite) require FSC COC; composite wood and agrifiber products must meet the formaldehyde requirements outlined in the standard and Exceptions; BPA containing epoxy coatings and primers should be avoided.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E11 Composite Wood Sheet Goods; I10-E12 HFRs in Foam Insulation

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
CECO Door, Curries, Fleming Fiberglass Reinforced Polyester Door (FRP)	Assa Abloy	ASA-0023		X		Iowa, USA
Graham Serenity Wood Door	Assa Abloy	ASA-0010		X		Iowa, USA
CECO Door, Curries, Fleming + SMP Blast Resistant Door and Frame Assembly	Assa Abloy	ASA-0002		X		Baja California, Mexico
Frameworks Serenity Aluminum Frame	Assa Abloy	ASA-0009		X		Texas, USA
Graham Serenity Door with Agrifiber Core	Assa Abloy	ASA-0024		X		Iowa, USA
Side Acting Wide Span Opening Protectives	McKeon Door Company	MCK-0001		X		New York, USA
Vertical Acting Wide Span Opening Protectives	McKeon Door Company	MCK-0002		X		New York, USA
Horizontal Acting Wide Span Opening Protectives	McKeon Door Company	MCK-0003		X		New York, USA
Acrovyn® Doors - Particleboard and SCL	Construction Specialties, Inc.			X		
Acrovyn® Doors - 45, 60, and 90 Minute Mineral Core	Construction Specialties, Inc.			X		
Trio-E Door	Assa Abloy				X	
1/4" tempered Glass	US Glass Distributors				X	

08 40 00 Entrances, Storefronts, and Curtain Walls

Typically a metal frame system with large glazing panels, available in custom or semi-custom configurations. Includes both unitized and stick built systems.

Common Product Issues: Products with PVC connectors or neoprene gaskets should be avoided. All sealants, including structural and glazing sealants, must be vetted.

Applicable Exceptions: none

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Kawneer 1600 Wall System™ 1 Curtain Wall and System™ 2 Curtain Wall	Kawneer Company			X		
Fibergrate Dynaform Structural Shapes	Fibergrate Composition Structures Inc.				X	
Low-E Coating	AGC Corporate				X	
Standard Backer Rod	Armacell Canada Inc				X	

08 50 00 Windows

Includes operable and fixed window assemblies.

Common Product Issues: Wood window products and components (solid and composite) require FSC COC; Vinyl windows should be avoided; PVC connects should be avoided; all site applied sealants must be vetted.

Applicable Exceptions: none

Alternate Products:			Declare	COC Silver+	Project List	Final Assembly Location
Alpen 325/725 Series Casement and Awning Fiberglass Windows	Alpen High Performance Products	ALW-0001	X			Colorado, USA
Alpen Fiberglass Fixed and Ribbon Windows	Alpen High Performance Products	ALW-0002	X			Colorado, USA
Alpen 525/625/925 Series Casement and Awning Fiberglass Windows	Alpen High Performance Products	ALW-0003	X			Colorado, USA
Fiberglass Windows	Cascadia Windows	CAW-1002	X			British Columbia, Canada
Schüco Fenster Systeme	Schuco International			X		
Schüco Fenster Systeme AWS65NL	Schuco International			X		
Spectrem 1 Sealant	Tremco				X	
525 Series Window	Alpen Windows				X	
725 Series Window	Alpen Windows				X	

08 70 00 Hardware

Includes access control hardware, decorative hardware, and window operators. Screws, nails, or brackets not specified by the window/door manufacturer may be considered miscellaneous hardware.

Common Product Issues: Lead free and low lead products should be given preference; chrome finish hardware made with Chromium VI should be avoided.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components (electronic hardware only); I10-E8 Door Hardware

Alternate Products:			Declare	COC Silver+	Project List	Final Assembly Location
Medeco 3 CLIQ Mortise Cylinder	Assa Abloy	ASA-0016	X			Virginia, USA
Adams Rite MS 1850S MS* Single Point Lock	Assa Abloy	ASA-0003	X			Arizona, USA
McKinney Door Hinge	Assa Abloy	ASA-0015	X			Connecticut, USA
Norton 7500 Yale 4400 Door Closer with Metal Cover	Assa Abloy	ASA-0008	X			North Carolina, USA
Pemko Perimeter Gasketing	Assa Abloy	ASA-0018	X			Tennessee, USA
Rockwood K1050 Kick Plate	Assa Abloy	ASA-0019	X			Pennsylvania, USA
Door Hardware	Assa Abloy				X	
McGuire Brass Ball Valve Lavatory Supply	McGuire				X	

08 80 00 Glazing

Includes glazing/glass products not included in a pre-fab assembly, such as mirrored, decorative, or specialty glazing.

Common Product Issues: Ingredients for all coatings and interlayers must be disclosed.

Applicable Exceptions: none

Alternate Products:			Declare	COC Silver+	Project List	Final Assembly Location
SageGlass	SAGE Electrochromics, Inc.	SGE-0001	X			Minnesota, USA
Dynamic Glass	View, Inc.	VEW-1001	X			Mississippi, USA
Dual Glaze and Multi Glaze	Sarco Putty Company Inc.				X	
Spectrum 2 Clear	Tremco				X	
1/4" tempered Glass	US Glass Distributors				X	
Float Glass	AGC Glass Europe			X		
Magnetron Coated Glass	AGC Glass Europe			X		
Architectural Glass (uncoated and coated)	PPG Industries, Inc.			X		
PYRAN® Platinum	Schott Hometech			X		

08 90 00 Louvers and Vents

Includes wall and door louvers and vents, fixed or operable.

Common Product Issues: Products with BPA Epoxy coatings and Chromium VI plating should be avoided.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components (motorized/electronic louvers only); I10-E3 Small Mechanical Components (motorized louvers only)

Alternate Products:

C/S Louvers Construction Specialties, Inc.

Declare
C2C Silver+
Project List
Final Assembly Location
X

Division 09: Finishes

09 20 00 Plaster and Gypsum Board

Includes gypsum based wallboard and ceiling products (drywall), plaster products, support systems, and installation accessories. Installed within the building's weather proofing system to create a smooth substrate for wall and ceiling finishes or as the backer for other finish products. Gypsum board products often contribute to an assemblies fire rating and may be available for water resistant, mold resistant, other specialty applications.

Common Product Issues: Products with PVC or vinyl interlayers and added formaldehyde should be avoided. Formaldehyde as a process chemical is common and is acceptable as long as the manufacturer confirms it is not present in the final product. Support systems with Chromium VI based plating should be avoided.

Applicable Exceptions: none

Alternate Products:

Alternate Products:			Declare C2C Silver+ Project List	Final Assembly Location
Air Renew Essential	Certain-Teed Saint-Gobain	CTG-1007; CTG-1008; CTG-1009; CTG-1010; CTG-1011; CTG-1012	X	Washington, USA; New Brunswick, Canada; Ontario, Canada
Air Renew Extreme Abuse	Certain-Teed Saint-Gobain	CTG-1014; CTG-1015	X	West Virginia, USA; Nevada, USA
Air Renew M2Tech	Certain-Teed Saint-Gobain	CTG-1004; CTG-1005; CTG-1006	X	Washington, USA; New Brunswick, Canada; Ontario, Canada
Consolideck Colorhard	Prosoco	PRO-1007	X	Kansas, USA
Consolideck ColorHard (Rose Quartz, Red Rock, and Painted Desert)	Prosoco	PRO-1008	X	Kansas, USA
Shikkui Plasters, Limix, and Lumie Cube	Tagawa Sangyo		X	
OSI F38 Drywall & Panel Adhesive	Henkel Corporation		X	
Gold Bond Fireshield Gypsum Board	National Gypsum		X	
Non-Structural Metal Framing	Marino/Ware		X	
Proform Joint Tape	National Gypsum		X	
Proform All Purpose Joint Compound	National Gypsum		X	
Drywall Z-Furring Channel	Clark Dietrich Building Systems		X	
Sheetrock Select All Purpose Joint Compound	United States Gypsum		X	
NO-COAT	Structus Building Technologies		X	
Sheetrock Paper Joint Tape	United States Gypsum		X	
Sheetrock Sheathing Gypsum Panels Firecode Core Type X	United States Gypsum		X	
SpecSeal Series LC1 Sealant	Specified Technology Inc		X	
OSI Flameseal Fire, Smoke, & Draft Stop Sealant	Henkel Corporation		X	
OSI SC-175 Draft and Acoustical Sound Sealant	Henkel Corporation		X	

09 30 00 Tiling

Includes wall or floor tile products installed using thin-set or mortar/grout.

Common Product Issues: Full ingredient disclosure is required for all glazes, sealers, and installation adhesives.

Applicable Exceptions: none

Alternate Products:			Declare	CFC Silver+	Project List
Trend Terrazzo, Trend Trascenda, Cultured Granite and Glass Slabs	E-Stone USA Corporation	EST-0001	X		Florida, USA
Floor Tiles	KONINKLIJKE MOSA BV			X	
Wall Tiles	KONINKLIJKE MOSA BV			X	
255 Multimax Thinset	Laticrete				X
Modern Dimensions	Dal Tile				X
1600 Unsanded Grout	Laticrete				X
PermaColor Grout	Laticrete				X
Retroactive Tile	Crossville				X
PermaBase	National Gypsum				X

09 50 00 Ceilings

Includes overhead finish surface products including permanently installed board products and lay-in tile products.

Common Product Issues: Products with tremolite (a form of asbestos), added formaldehyde, and vinyl interlayers or skins should be avoided.

Applicable Exceptions: none

Alternate Products:			Declare	CFC Silver+	Project List	Final Assembly Location
1100 Cross Piece Grille/2100 Panelized Linear (FSC Douglas Fir)	9Wood	NWD-2008	X			Oregon, USA
1100 Cross Piece Grille/2100 Panelized Linear (FSC Hemlock)	9Wood	NWD-2009	X			Oregon, USA
Calla® Ceiling Panels	Armstrong Ceilings	ARM-0001	X			Florida, USA
Optima® PB Ceiling Panels	Armstrong Ceilings	ARM-0002	X			Ohio, USA
Axiom® Trims & Transitions	Armstrong Ceilings	ARM-0009; ARM-0016	X			Georgia, USA; California, USA
Cirrus® & Cirrus® High NRC Ceiling Panels	Armstrong Ceilings	ARM-0023	X			Florida, USA
Lyra™ High CAC Ceiling Panels	Armstrong Ceilings	ARM-0018	X			Ohio, USA
Lyra™ PB Ceiling Panels	Armstrong Ceilings	ARM-0015	X			Ohio, USA
Metal Works™ Snap In, Clip On, 3D, & Torsion Spring	Armstrong Ceilings	ARM-0024	X			Quebec, Canada
Suspension Systems - Drywall Grid Systems	Armstrong Ceilings	ARM-0010; ARM-0017	X			Maryland, USA; Nevada, USA
Suspension Systems - Interlude	Armstrong Ceilings	ARM-0005	X			Maryland, USA
Suspension Systems - Prelude	Armstrong Ceilings	ARM-0007; ARM-0012; ARM-0013	X			Maryland, USA; Nevada, USA; Michigan, USA
Suspension Systems - Silhouette	Armstrong Ceilings	ARM-0006; ARM-0011	X			Maryland, USA; Nevada, USA
Suspension Systems - Suprafine	Armstrong Ceilings	ARM-0008; ARM-0014	X			Maryland, USA; Nevada, USA
Ultima® Ceiling Panels	Armstrong Ceilings	ARM-0003; ARM-0025	X			Florida, USA; Pennsylvania, USA
Ultima® Ceiling Panels with AirGuard™ Coating	Armstrong Ceilings	ARM-0019	X			Florida, USA
Ultima® HealthZone™ High NRC Ceiling Panels	Armstrong Ceilings	ARM-0022	X			Florida, USA
Ultima® High NRC Ceiling Panels	Armstrong Ceilings	ARM-0020	X			Florida, USA
Ultima® High NRC HRC Ceiling Panels	Armstrong Ceilings	ARM-0021	X			Florida, USA
Theater Insulation with Ecosse Technology	Knaf Insulation				X	
Atmosphere Air Duct Board	Knaf Insulation				X	

09 65 00 Resilient Flooring

Includes man made materials manufactured into sheet or tile flooring goods, also includes resilient base products. Product categories include VCT/LVCT, linoleum, cork, composite rubber, and sheet rubber products. Product listing also includes application products.

Common Product Issues: Products with vinyl must be avoided. Binders for composite flooring products and adhesives must be vetted.

Applicable Exceptions: none

				Declare	C2C Silver+	Project List	Final Assembly Location
Alternate Products:							
Marmoleum Sheet	Forbo Flooring Systems	FRB-1001		X			Assendelft, The Netherlands
Marmoleum Tile	Forbo Flooring Systems	FRB-1002		X			Fife, Great Britain
Marmoweld	Forbo Flooring Systems	FRB-1004		X			Wormerveer, The Netherlands
Marmoleum Decibel	Forbo Flooring Systems	FRB-0010		X			Fife, Great Britain
Linoflex	Forbo Flooring Systems	FRB-0009		X			Assendelft, The Netherlands
Linoleum Harmonium xf2	Tarkett	TRK-0001		X			Narni, Italy
Armstrong S-288 Premium Vinyl Sheet Flooring Adhesive	Armstrong Flooring				X		
Armstrong S-599 Vinyl Sheet Adhesive Premium Commercial	Armstrong Flooring				X		
Armstrong S-799 High Moisture Adhesive for Linoleum and Rubber Tile	Armstrong Flooring				X		
Forbo Sustain 885m and Forbo Sustain 1195	Forbo Flooring Systems				X		
iQOne	Tarkett				X		
Veneto Essenza 100% linen / Veneto Essenza Natural Clay	Tarkett				X		
Flooring Installation Products							
XL Brands Stix 5850 Adhesive	XL Brands				X		
Armstrong Flip Spray Adhesive	Armstrong Flooring				X		
Resilient Flooring Adhesives	XL Brands				X		
Shaw S150 Spray Adhesive	Shaw Industries				X		
Shaw RV1000 Spray Adhesive	Shaw Industries				X		
Stix Essential RES Spray Adhesive	XL Brands				X		
Tarkett 901 Resilient Flooring Spray Adhesive and Sports HS Spray Adhesive	Tarkett				X		
TruRenew Acoustec Liquid Underlayment SP™	WF Taylor, Inc.				X		
TruRenew MSPLUS Wood Adhesive SP™	WF Taylor, Inc.				X		
Stix 5600 Adhesive	XL Brands				X		
Stix Essential HS Spray	XL Brands				X		
Stix 3200 Adhesive	XL Brands				X		
Stix 5200 Adhesive	XL Brands				X		
Tarkett 959 Vinyl Tile and Plank Adhesive	Tarkett				X		
TruRenew Fiberglass Backed Premium Bio-Renewable SP Adhesive	WF Taylor, Inc.				X		
TruRenew LVT-LVP SP Flooring Adhesive	WF Taylor, Inc.				X		
TruRenew Premium Bio-Renewable SP Flooring Adhesive	WF Taylor, Inc.				X		
TruRenew VCT Flooring Adhesive SP™	WF Taylor, Inc.				X		
Vapor Cure Tape	Ram Board					X	

09 68 00 Carpeting

A heavy fabric based product applied to a backing, applied with tacks or adhesive. Includes carpet tile and broadloom products. Product listing includes application products.

Common Product Issues: Products with a PVC backing should be avoided. Products applied with carpet tacks are preferred, and all adhesives must be vetted.

Applicable Exceptions: none

Alternate Products:			Declare	C2C Status*	Project List
Interface Needlefelt Modular Carpet (Flor/Super Flor/House Pet)	Interface	INT-2001	X		Scherpenzeel, The Netherlands
Interface Modular Carpet, Tufted Nylon on Graphlex Backing	Interface	INT-1002	X		Scherpenzeel, The Netherlands
Interface Modular Carpet, Tufted Nylon on NexStep Backing	Interface	INT-1003	X		Georgia, USA
Broadloom Carpet on Weldlok	Mohawk Industries (Portico)	POR-0001	X		Georgia, USA
Broadloom Carpet on Weldlok Unitary	Mohawk Industries (Portico)	POR-0002	X		Georgia, USA
EcoWorx Carpet Tile	Shaw Contract Group	SCG-0001; SCG-0002	X		Georgia, USA; Jiangsu, China
EcoWorx Carpet Tile	Patcraft	PAT-1002; PAT-1003	X		Georgia, USA; Jiangsu, China
EcoWorx Carpet Tile	Shaw Industries	SHW-1002; SHW-1003	X		Georgia, USA; Jiangsu, China
Tandus Centiva ethos® Modular	Tarkett	TAN-1001	X		Georgia, USA
Tandus Centiva Powerbond® ethos® Cushion	Tarkett	TAN-1002	X		Georgia, USA
Modular Carpet with Nylon 6 Face and E Polyurethane Cushion Backing	Milliken	MKN-2006	X		Georgia, USA
Modular Carpet with Nylon 6 Face and ES Polyurethane Cushion Backing	Milliken	MKN-2002	X		Georgia, USA
Modular Carpet with Nylon 6 Face and ESP Polyurethane Cushion Backing	Milliken	MKN-2004	X		Georgia, USA
Modular Carpet with Nylon 6 Face and Polyurethane Cushion Backing	Milliken	MKN-2008	X		GTR Man, United Kingdom
Modular Carpet with Nylon 6,6 Face and E Polyurethane Cushion Backing	Milliken	MKN-2005	X		Georgia, USA
Modular Carpet with Nylon 6,6 Face and ES Polyurethane Cushion Backing (China)	Milliken	MKN-2007	X		Jiangsu, China
Modular Carpet with Nylon 6,6 Face and ES Polyurethane Cushion Backing (USA)	Milliken	MKN-2001	X		Georgia, USA
Modular Carpet with Nylon 6,6 Face and ESP Polyurethane Cushion Backing	Milliken	MKN-2003	X		Georgia, USA
Modular Carpet with Nylon 6,6 Face and Polyurethane Cushion Backing	Milliken	MKN-2009	X		GTR Man, United Kingdom
Milliken Modular Carpet with Nylon 6 Face and B2 Hard Backing	Milliken	MKN-0011	X		Jiangsu, China
Milliken Modular Carpet with Nylon 6,6 Face and B2 Hard Backing	Milliken	MKN-0012	X		Jiangsu, China
Durkan Nylon Modular Carpet Tiles on EcoFlex NXT	Mohawk Industries (Durkan)	DRK-1002	X		Virginia, USA
FlexLok Installation System	Mohawk Industries	MHK-2003	X		Georgia, USA
Hospitality Broadloom Carpet on Unibond® Bloc	Mohawk Industries (Durkan)	DRK-1006	X		Georgia, USA
Hospitality Broadloom Carpet on Unibond® Plus	Mohawk Industries (Durkan)	DRK-1007	X		Georgia, USA
Hospitality Broadloom Carpet on Weldlok®	Mohawk Industries (Durkan)	DRK-1001	X		Georgia, USA
Hospitality Broadloom Carpet on Weldlok® Unitary	Mohawk Industries (Durkan)	DRK-1005	X		Georgia, USA
Hospitality Woven Nylon Carpet	Mohawk Industries (Durkan)	DRK-1004	X		South Carolina, USA
Mohawk Group Commercial Broadloom Carpet on Unibond® Bloc	Mohawk Industries	MHK-0011	X		Georgia, USA
Mohawk Group Commercial Broadloom Carpet on Unibond® Plus	Mohawk Industries	MHK-0012	X		Georgia, USA
Mohawk Group Commercial Broadloom Carpet on Weldlok®	Mohawk Industries	MHK-1001	X		Georgia, USA
Mohawk Group Commercial Broadloom Carpet on Weldlok® Unitary	Mohawk Industries	MHK-0010	X		Georgia, USA
Mohawk Group Commercial Woven Nylon Carpet	Mohawk Industries	MHK-1006	X		South Carolina, USA
Nylon Modular Carpet Tiles on EcoFlex NXT	Mohawk Industries	MHK-1009	X		Virginia, USA
Precision Dye Injected Broadloom Carpet	Mohawk Industries (Durkan)	DRK-0008	X		Georgia, USA

TRUE™ Medi-Flex Tile or Sheet, TRUE™ Textured Tile	Mohawk Industries	MHK-0014	X	Quebec, Canada
Tufted Nylon Carpet on EcoFlex NXT Air	Mohawk Industries (Durkan)	DRK-0009	X	Virginia, USA
Tufted Nylon Carpet on EcoFlex NXT Air	Mohawk Industries	MHK-0013	X	Virginia, USA
EcoBase® PA6 Solution Dyed Carpet Tiles Gold	Desso B.V.		X	
EcoBase® Carpet Tile Backing	Desso B.V.		X	
Anso and Unbranded Type 6 Nylon Residential Carpet	Shaw Industries		X	
Ecobase™ PA 6 Continuous Dyed Carpet Tiles	Desso B.V.		X	
Ecobase™ PA 6 Solution Dyed Carpet Tiles	Desso B.V.		X	
Ecobase™ PA 6.6 Continuous Dyed Carpet Tiles	Desso B.V.		X	
EcoWorx® Broadloom Carpets	Patcraft		X	
EcoWorx® Broadloom Carpets	Shaw Contract Group		X	
EcoWorx® Broadloom Carpets	Shaw Industries		X	
ege Tuft PA6 Broadloom WT	EGETAEPER A/S		X	
Epoca PA 6 Broadloom WT	EGETAEPER A/S		X	
Epoca PA 6.6 Broadloom WT	EGETAEPER A/S		X	
High PerformancePC	Bentley Mills, Inc.		X	
Highline 80/20 Broadloom WT	EGETAEPER A/S		X	
Highline PA 6 Broadloom WT	EGETAEPER A/S		X	
NexStep and AFFIRMA Carpet Tile Products	Bentley Mills, Inc.		X	
Zeftron® Nylon Fiber	Shaw Industries		X	
Carpeting Installation Products				
TruRenew Carpet Flooring Adhesive SP™	W. F. Taylor Co., Inc.		X	
XL Brands Dyna-Stix NPB	XL Brands		X	
Healthbond 2300 Adhesive	Bentley Mills, Inc.		X	
High Grade Flooring Adhesives	XL Brands		X	
MCTA100 Premium Modular Carpet Tile Adhesive	Modulyss		X	
Shaw 5000	Shaw Industries		X	
Residential Broadloom with LifeGuard Backing System	Shaw Industries		X	
Stix Essential MOD Spray Adhesive	XL Brands		X	

09 70 00 Wall Finishes

Includes cork, textile, paneling and paper based wall covering products. Does not include paint or other wet applied finishes.

Common Product Issues: Vinyl wall paper should be avoided. Composite wood products must be formaldehyde free and FSC COC.

Applicable Exceptions: none

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Geo Trak™	FabriTRAK Systems, Inc.	FAB-0001	X			Maryland, USA
Bulletin Board	Forbo Flooring Systems	FRB-1003	X			Assendelft, The Netherlands
XOREL BIO	Carnegie Fabrics	CNF-2001	X			Wevelgem, Belgium
Bark House® Brand Poplar Shingle Siding and Wall Covering Panel (Exterior Use)	Highland Craftsmen			X		
Bark House® Poplar Bark Shingle Siding and Wall Covering Panels (Interior Use)	Highland Craftsmen			X		
Eco Intelligent® Polyester	Victor Textiles, Inc.			X		
EarthTex™ Fabrics	Twitchell Technical Products, LLC			X		
The Cogent™ Group	Steelcase, Inc.			X		

09 80 00 Acoustic Treatment

Includes acoustical absorbers, diffusers, sound barriers, and sound isolation products. Products may include insulation, finishes, or specialized systems and construction assemblies.

Common Product Issues: Batt insulation products with formaldehyde binders or foam products with HFRs should be avoided. Ingredients must be vetted to confirm Red List ingredients are not present.

Applicable Exceptions: none

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Troidtekt Acoustic Panels	Troidtekt A/S		X			
Troidtekt Plus-Stratocell	Troidtekt A/S		X			

09 90 00 Painting and Coating

Includes fluid applied products applied to walls, ceilings, trim, casework, doors/windows, or frames to provide a decorative or protective finish.

Common Product Issues: Full ingredient disclosure must be provided to confirm product is Red List Free. VOC content and absence of banned solvents must be confirmed.

Applicable Exceptions: none

Alternate Products:

			Declare	C2C Silver+	Project List	Final Assembly Location
Consolideck ColorHard (Rose Quartz, Red Rock, and Painted Desert)	Prosoco	PRO-1008		X		Kansas, USA
Consolideck ColorHard	Prosoco	PRO-1007		X		Kansas, USA
Consolideck LS	Prosoco	PRO-2001		X		Kansas, USA
Consolideck LS/CS	Prosoco	PRO-0010		X		Kansas, USA
Fluropon Pure PVDF Coil Coating	Valspar	VAL-0001		X		Texas, USA
Fluropon Pure PVDF Extrusion Coating	Valspar	VAL-0002		X		Texas, USA
Novatherm 4FR	Protega AB	PRT-0001		X		Trelleborg, Sweden
Novatherm 2FR	Protega AB	PRT-0002		X		Trelleborg, Sweden
Topcoat W	Protega AB	PRT-0003		X		Trelleborg, Sweden
PROTEGA WOOD-S	Protega AB	PRT-0004		X		Trelleborg, Sweden
Idea Paint PRO	IdeaPaint	IDE-0001		X		Illinois, Chicago
Sure Seal™ Latex Primer Sealer	Benjamin Moore & Co.	BEN-0001		X		New York, USA
Ultra Spec HP® Acrylic Metal Primer HP04	Benjamin Moore & Co.	BEN-0002; BEN-0003		X		New York, USA; Texas, USA
Ultra Spec® 500 Interior Primer N534	Benjamin Moore & Co.	BEN-0004; BEN-0005		X		New Jersey, USA; New York, USA
Ultra Spec® 500 Interior Flat Finish N536	Benjamin Moore & Co.	BEN-0009		X		Massachusetts, USA
Ultra Spec® EXT Flat Finish N447	Benjamin Moore & Co.	BEN-0010		X		Alabama, USA
Ultra Spec® 500 Interior Low Sheen Finish N537	Benjamin Moore & Co.	BEN-0011; BEN-0012; BEN-0013		X		New York, USA; Texas, USA; Alabama, USA
Ultra Spec® 500 Interior Eggshell Finish N538	Benjamin Moore & Co.	BEN-0014; BEN-0015; BEN-0016		X		New Jersey, USA; New York, USA; Texas, USA
Air Pure Paints Interior Wall Paints	Imperial Paints, LLC	IPA-1001		X		South Carolina, USA
ECOS Chalkboard Paint	Imperial Paints, LLC	IPA-0010		X		South Carolina, USA
ECOS Concrete Sealer	Imperial Paints, LLC	IPA-0003		X		South Carolina, USA
ECOS Exterior Satin Varnish	Imperial Paints, LLC	IPA-0011		X		South Carolina, USA
ECOS Interior Eggshell White Base	Imperial Paints, LLC	IPA-1002		X		South Carolina, USA
ECOS Interior Matte Wall Paint	Imperial Paints, LLC	IPA-0004		X		South Carolina, USA
ECOS Interior Semi-Gloss Paint	Imperial Paints, LLC	IPA-0005		X		South Carolina, USA
ECOS Interior Wall Primer	Imperial Paints, LLC	IPA-0006		X		South Carolina, USA
ECOS Interior Wood Primer	Imperial Paints, LLC	IPA-0012		X		South Carolina, USA
ECOS Solid Color Concrete Stain	Imperial Paints, LLC	IPA-0014		X		South Carolina, USA
ECOS Stone and Tile Sealer	Imperial Paints, LLC	IPA-0015		X		South Carolina, USA
ECOS WoodShield Gloss Varnish	Imperial Paints, LLC	IPA-0008		X		South Carolina, USA
ECOS WoodShield Interior Acrylic Matte Varnish	Imperial Paints, LLC	IPA-0016		X		South Carolina, USA
ECOS WoodShield Interior Semi-Gloss Varnish	Imperial Paints, LLC	IPA-0017		X		South Carolina, USA
ECOS WoodShield Interior Stain	Imperial Paints, LLC	IPA-0007		X		South Carolina, USA
ECOS WoodShield Satin Varnish	Imperial Paints, LLC	IPA-0009		X		South Carolina, USA
ECOS Semi-Transparent Concrete Stain	Imperial Paints, LLC	IPA-0013		X		South Carolina, USA
Natura® No-VOC Paint	Benjamin Moore & Co.			X		
ROMA Mineral Paints	Roma			X		
Ultra Spec DTM Acrylic Paint	Benjamin Moore				X	
Aura Interior/Exterior Color Foundation 521	Benjamin Moore				X	
Aura Waterborne Exterior Paint Flat Finish	Benjamin Moore				X	
Aura Waterborne Exterior Paint Luster Finish	Benjamin Moore				X	
Aura Waterborne Exterior Paint Satin Finish	Benjamin Moore				X	
Aura Waterborne Exterior Paint Semi Gloss Finish	Benjamin Moore				X	
Aura Waterborne Interior Egg Shell finish	Benjamin Moore				X	
Aura Waterborne Interior Matte finish	Benjamin Moore				X	
Aura Waterborne Interior Satin finish	Benjamin Moore				X	
Aura Waterborne Interior Semi Gloss	Benjamin Moore				X	
Fresh Start Exterior Wood Primer 094	Benjamin Moore				X	
Polywhey Furniture Finish Satin	Vermont Natural Coatings				X	
Benjamin Moore Ecospec WB Interior Latex Paint - Egg Shell	Benjamin Moore				X	
Benjamin Moore Ecospec WB Interior Latex Paint - Semi Gloss	Benjamin Moore				X	

09 90 00 Painting and Coating, Cont

Polywhey Furniture Finish Satin	Vermont Natural Coatings		X
Penofin Verde	Performance Coatings		X
Eco Spec WB Interior Latex Primer	Benjamin Moore		X
Benjamin Moore Ecospec WB Interior Latex Paint - flat finish	Benjamin Moore		X
Benjamin Moore Ecospec WB Interior Latex Paint - semi gloss	Benjamin Moore		X
Benjamin Moore Ecospec WB Interior Latex Paint - flat finish	Benjamin Moore		X
Benjamin Moore Ecospec WB Interior Latex Paint - egg shell	Benjamin Moore		X
Benjamin Moore Ecospec WB Interior Latex Paint - semi gloss	Benjamin Moore		X
Polywhey Furniture Finish Satin	Vermont Natural Coatings		X
Wood Finish	Performance Coatings		X
Patch Plus Primer Spackling	3M		X
Kem Bond HS Universal Metal Primer	The Sherwin-Williams Company		X

Division 11: Equipment

11 30 00 Residential Equipment

Includes residential/personal use grade kitchen, laundry, and other permanently installed appliances.

Common Product Issues: Refrigerant type must be verified for all refrigeration and freezing equipment. May be difficult to obtain full ingredient breakdown, recommend starting with component/part list when vetting. RoHS compliance is required for all electrical components.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components; I10-E3 Small Mechanical Components

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
GE Profile Series 30in Electric Induction Cooktop	General Electric		X		
Sun Frost RF19 - Half Refrigerator/Freezer	Sun Frost		X		
Wall Oven, BO 450 610	Gaggenau		X		

Division 12: Furnishings

12 36 00 Countertops

Includes work surface products, typically installed over casework/cabinetry or framing.

Common Product Issues: Epoxy based products with BPA and composite wood/laminate products with formaldehyde or PVC end banding should be avoided.

Applicable Exceptions: none

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
IceStone® Durable Surface	IceStone LLC		X		
Cosmos Ethos & Cosmos Quartz	Cosmos Granite and Marble		X		

Division 14: Conveying Equipment

14 20 00 Elevators

Includes elevator cabs, doors/entrances, cables, motors/lifts, and controls.

Common Product Issues: The entire elevator system requires disclosure, not only certain parts/components.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components; I10-E3 Small Mechanical Components

Alternate Products:		Declare	C2C Silver+	Project List	Final Assembly Location
endura MRL cab	ThyssenKrupp Elevator	X			Tennessee, USA
Kone Electric Elevator	Kone US			X	

Division 22: Plumbing

22 10 00 Plumbing Piping (Add Description)

Includes piping assemblies and accessories for water distribution, sanitary sewerage, storm drainage; and water collection and storage tanks and accessories.

Common Product Issues: PVC pipe and accessory products and neoprene gaskets should be avoided. Products installed as part of potable water systems must confirm products meet the Lead-Free definition stated in the Reduction of Lead in Drinking Water Act, 2014. Confirm that sealants and welding products meet the VOC limits and are free of banned solvents.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E17 Plumbing; I10-E18 Commercial Water Systems

Alternate Products:		TYP-0001	Declare	C2C Silver+	Project List	Final Assembly Location
Tyler Cast Iron Soil Pipe	Tyler Pipe		X			Texas, USA
Sewer Pipe System AWADUKT PP SN10/ HPP SN16	Rehau AG + Co			X		
155WC Offset Lavatory Grid Strainer	McGuire			X		
500 Gallon Vertical bulk storage tank, TC46761C	Chemtainer			X		
Single Supply Metering Sink Faucet 857-665PSHABCP	Chicago Faucets			X		
Mechanical Faucett 895-GN2FCXKABCP Manual and Metering Faucets	Chicago Faucets			X		
Mechanical Faucet 201-AL8XKABCP Manual and Metering Faucets	Chicago Faucets			X		
Greenpipe	Aquatherm			X		
Basket Strainer	Dearborn Brass			X		
Cast P-Trap Ground Joint Swivel With Or Without Cleanout	McGuire			X		
Condensate Drain Pipe	Charlotte Pipe & Foundry			X		
Drains and Cleanouts	Wade			X		
Tankless Electric Water Heater	Hubbell			X		
FlexSeal Coupling Products	Mission Rubber Company			X		
Grease Interceptor	Wade			X		
LFBV170 Quarter-Turn Brass Ball Valve Lavatory Supply with 5" Extension	McGuire			X		
LF480 Lavatory Tempering Valve	Powers			X		
LRAD & LRADQ Series Double Bowl Sink	Elkay			X		
LRAD & LRADQ Series Single Bowl Sink	Elkay			X		
Lucerne Wall Hung Lavatory	American Standard			X		
MF-iF and MF-iW Single Laundry Tubs	Swan Corp			X		
Microlite XG	Johns Manville			X		
Model 107-14-HL-VP VANDAL PROOF High/Low Drinking fountain with Bottle Filler	Filtrine			X		
Roof Drain, Medium Sump, Beehive Dome	Josam Company			X		
Solvent Cement	Oatey			X		
Suports and anchors	Anvil International			X		
Innerlynx	Advance Products & Systems, Inc			X		
Charlotte Seal Gasket and Quik Tite Gasket	Charlotte Pipe & Foundry			X		
Lubri-Joint	LA-CO			X		
Apollo 7OLF-200 Ball Valve	Conbraco Industries			X		
UPS09 Check Valve	Milwaukee Valve Company			X		
Model 25	Badger Meter			X		
Sammys Screws	ITW Buildex			X		
Trap Primers	Jay R. Smith Mfg. Co.			X		
LF480 Lavatory Tempering Valve	Powers			X		
OcTank	FreeWater Systems			X		
Copper Tubing	Cerro Flow Products			X		
Charlotte Seal Gasket and Quik Tite Gasket	Charlotte Pipe & Foundry			X		
Grease Interceptor 60100H-EXT-SS	Josam Company			X		
SS Drain	Josam Company			X		
Silvabrite 100	Lucas-Milhaupt, Inc.			X		
Tape Dope	Hercules Chemical Company			X		
Sta Put Plumbers Putty	Hercules Chemical Company			X		
58600 Series Round Stainless Steel Wall Access Cover	Josam Company			X		
61030 Series Coated Cast Iron Solids Interceptor	Josam Company			X		
Apollo HCP Shield	Apollo Manufacturing			X		
Uility Paste Soldering Flux	Utility Chemicals			X		

22 10 00 Plumbing Piping, Cont

Copper Tubing	Cerro Flow Products	X
APOLLOXPRESS Fittings	Conbraco Industries	X
Great White Pipe Joint Compound	Oatey	X
No. 5 Lead Free Paste Flux	Oatey	X
Safe Flo Silver Lead Free Solder	Oatey	X
Plumber's Putty	Oatey	X
Lead Solder	Aim	X
White Oakum	Jones Stephens	X
Series LFU5B-Z3 Water Pressure Reducing Valves	Watts Water Technologies	X
Pipe & Fittings	Charlotte Pipe & Foundry	X
Model 67 Backflow Protected		X
Automatic Draining Freezeless Wall Hydrant	Woodford Manufacturing Co	X
Series LF009 Reduced Pressure Zone Assemblies	Watts Water Technologies	X
Lavatory Carrier Floor-Mount Concealed Arm Series 17100	Josam Company	X
RAC Basic RetroDrain	OMG Roofing Products	X
Locking Cup Strainers	Dearborn Brass	X
LRAD & LRADQ Series Single Bowl Sink	Elkay	X
Aerocel	Aeroflex USA	X
SS Adjustable Floor Drain Series 30000	Josam Company	X
SS Drain Series 42650	Josam Company	X
SS Cleanout Series 42300	Josam Company	X
Brass Tubular	Dearborn Brass	X
Gourmet Single Bowl Sink, Models LR, LRQ, LRS, LRSQ Series	Elkay	X
Aerocel	Aeroflex USA	X
Molded Stone Integral Drain Mop Service basin MSBID2424	Fiat	X
WR260	Flexcon Industries	X
Series LF909 Reduced Pressure Zone Assemblies	Watts Water Technologies	X
Series LFU5B-Z3 Water Pressure Reducing Valves	Watts Water Technologies	X
Mop Hanger 889-CC	Fiat	X
Hose and Hose Bracket 832-AA	Fiat	X
Stainless Steel Wall Guards	Fiat	X
Tankless Electric Water Heater	Hubbell	X
Model 107-14-HL-VP VANDAL PROOF High/Low Drinking fountain with Bottle Filler	Filtrine	X
Wall-Mount Bathroom Sink K-2005	Kohler	X
Cast Body P-Trap With or Without Cleanout	McGuire	X
All Cast Brass Nipples and Set Screw Flanges	McGuire	X
Sweat Lavatory WSupply with 5in Extension	McGuire	X
WFF 150 Vortex filter	WISY	X
First Flush Tank SKA-1 65 Gallon	Solar Components Corp	X
Prime-Pro	Precision Plumbing Products	X
Quarter Turn No Lead Brass ball valve	McGuire	X
BISC R2 Submersible	Goulds Water Technology	X
Model 67 Backflow Protected		X
Automatic Draining Freezeless Wall Hydrant	Woodford Manufacturing Co	X
LF009 Reduced Pressure Zone Assembly	Watts	X

22 40 00 Plumbing Fixtures

Products connected to the plumbing system to deliver and drain water; typically and interchangeable finish component.

Common Product Issues: Products with PVC components and neoprene gaskets should be avoided. Products installed as part of potable water systems must confirm products meet the Lead-Free definition stated in the Reduction of Lead in Drinking Water Act, 2014. Confirm that sealants and welding products meet the VOC limits and are free of banned solvents. Chromium VI based chrome finishes should be avoided, except where permitted by an Exception

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E17 Plumbing; I10-E18 Commercial Water Systems; I10-E21 Chromium VI in Plumbing Flush Fixtures

Alternate Products:			Declare	C2C Silver+ Project List	Final Assembly Location
AEF-3XX Electronic Faucet, Unplated	AMT Corporation	AMT-0001	X		California, USA
Drake® II 1.28gpf Two-Piece Toilet-PVC Free	TOTO USA	TOT-0018	X		Georgia, USA
Drake® II 1G® Two-Piece Toilet-PVC Free	TOTO USA	TOT-0017	X		Georgia, USA
Eco Drake® 1.28gpf Two-Piece Toilet-PVC Free	TOTO USA	TOT-0019	X		Nuevo Leon, Mexico
Eco Ultramax® 1.28gpf One-Piece Toilet - PVC Free	TOTO USA	TOT-1014	X		Georgia, USA
EcoPower® 0.125gpf Urinal Flush Valve	TOTO USA	TOT-0030	X		Shanghai, China
EcoPower® Flush Valve for 1.28gpf Toilet or 0.5gpf Urinal	TOTO USA	TOT-0029	X		Shanghai, China
Ultramax® II 1.28gpf One-Piece Toilet - PVC Free	TOTO USA	TOT-1015	X		Georgia, USA
Ultramax® II 1G® One-Piece Toilet - PVC Free	TOTO USA	TOT-1016	X		Georgia, USA
Commercial Wall-Hung HE1.28gpf Toilet	TOTO USA	TOT-0006	X		Georgia, USA
Commercial Wall-Mount Lavatory	TOTO USA	TOT-0007	X		Nuevo Leon, Mexico
Commercial Washout HE 0.125gpf Urinal -UT105U(V)	TOTO USA	TOT-0013	X		Georgia, USA
Commercial Washout HE 0.125gpf Urinal -UT445U(V)	TOTO USA	TOT-0008	X		Hanoi, Vietnam
Heavy Weight Couplings	Mission Rubber Company			X	
Foam Flush Composting Toilet System	Clivus Multrum			X	
Stainless Steel Wall Guards	American Standard			X	
Mop Hanger	American Standard			X	
Molded Stone Integral Drain Mop Service Basin	American Standard			X	
Hose and hose bracket	American Standard			X	
LT307(A)	Toto			X	
Boston Sweat P -Trap	McGuire			X	
McGuire Flat Grid Sink Strainer	McGuire			X	

Division 23: Heating, Ventilating, and Air Conditioning (HVAC)

Common Product Issues: Common Product Issues: Refrigerant type must be verified for all HVAC cooling equipment. May be difficult to obtain full ingredient breakdown, recommend starting with component/part list when vetting. RoHS compliance is required for all electrical components.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components; I10-E3 Small Mechanical Components

Alternate Products:			Declare	C2C Silver+ Project List	Final Assembly Location
RecoupAerator 200DX-MC and ER80M	Ultimate Air	ULT-2001	X		
Flexalen 600	Thermaflex International Holding B.V.			X	

Division 32: Exterior Improvements

Common Product Issues: All components require vetting, including landscaping and landscaping maintenance equipment.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E18 Commercial Water Systems

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
Ameristar Montage Fence	Assa Abloy	ASA-0004	X			Oklahoma, USA
BERA Gravel Fix® Pro	Bera B.V.			X		
PaverBase™ Expanded Polypropylene Underlayment Panels	Brock International			X		
PlayBase™ Expanded Polypropylene Underlayment Panels	Brock International			X		
816 Water-Based Bonding Adhesive	Firestone Building Products Company, LLC				X	
1/2" screenings	John S Lane & Son Inc				X	
Lane's Dense Graded Stone Base	John S Lane & Son Inc				X	
Hot Mix Asphalt Job Mix	Karl's Site Work				X	
2in minus Screened Gravel	Delta Sand & Gravel				X	
Lawn Seed	Valley Green				X	
Fragrant Forest Mulch	Vermont Mulch Company				X	
Plant Material	Pierson Nurseries				X	
Northeast Wildflower Fescue Bluestem Mix	Valley Green				X	
Concrete Sand	Delta Sand & Gravel				X	
Coarse Sand	Read Custom Soils				X	
Polyethylene Piping PE100	George Fisher				X	

Division 48: Electrical Power Generation

48 14 00 Solar Energy Electrical Power Generation Equipment

Includes solar energy collectors.

Common Product Issues: Research is required to locate products that do not contain PVC cabling or lead solder.

Applicable Exceptions: (See Materials Petal Handbook for full language) I10-E2 Small Electrical Components; I10-E7 Solar Batteries

Alternate Products:			Declare	C2C Silver+	Project List	Final Assembly Location
IT-270-310 Watts	Itek Energy	ITK-1001	X			Washington, USA
E-Series/X-Series Solar Panels	Sunpower Corporation				X	