**Project Type : Finished Basement and Major Addition** 

**Building System: Site** 

Product	Product Features	Certifications	Product Directory/Service Resources
<b>Block Pavers</b>	Allow water to infiltrate		PATH (Partnership for Advancing Technology in Housing). ToolBase. TechSpecs.
	to subsoil for driveways,		Permeable Pavement.
	entryways, walkways, or		http://www.upperchartierscreek.org/Porous_Pavement/PermeablePavement_TechS
	terraces. Use block		pec.pdf
	pavers that are made of		
	recycled content, or		
	salvaged from previous		
	construction.		
Native plants,	Native plants and trees		Rutgers University. New Jersey Agricultural Experiment Station. If Plants Could Talk,
species, and	to provide shade and		A Gardening Television Series.
trees	reduce watering needs.		<u>www.ifplantscouldtalk.rutgers.edu</u>
			United States Department of Agriculture. Natural Resources Conservation Service.  Native Plant Database.  www.plants.usda.gov/checklist.html
			Native Plant Society of New Jersey, List of NJ Native Plants. 2013
			http://www.npsnj.org/pages/nativeplants_Plant_Lists.html
			Rutgers University. New Jersey Agricultural Experiment Station. Incorporating Native Plants in Your Residential Landscape. <a href="https://njaes.rutgers.edu/fs1140/">https://njaes.rutgers.edu/fs1140/</a>

Product	Product Features	Certifications	Product Directory/Service Resources
Pavement	Porous pavement		US EPA. Heat Island Effect. 2019.
	materials and/or		https://www.epa.gov/heat-islands
	materials that reflect		
	sunlight to reduce heat		The Encyclopedia of Earth. Cool Paving. 2016.
	gain.		https://editors.eol.org/eoearth/wiki/Cool_paving
			Heiner Cool Developments to Doduce Heat Islands HS FDA 2016
			Using Cool Pavements to Reduce Heat Islands. US EPA. 2016 https://www.epa.gov/heat-islands/using-cool-pavements-reduce-heat-islands
			nttps://www.epa.gov/neat-isianus/using-cool-pavements-reduce-neat-isianus
Porous Paving	Porous asphalt or		National Asphalt Pavement Association Research and Education Foundation
Materials	concrete can be used in	(T)	(NAPAREF). Pavegreen. 2019
accirais	pedestrian-only areas		http://www.pavegreen.com
	and areas with low	Hally	
	traffic volumes with	יוועי	National Ready Mixed Concrete Association. Pervious Pavement. Pervious Concrete
	reduced speed including	25000	Pavement. 2011
	overflow parking areas,		www.perviouspavement.org/
	residential driveways,		
	alleys, and parking		PATH (Partnership for Advancing Technology in Housing). ToolBase. TechSpecs.
	stalls.		Permeable Pavement.
			http://www.upperchartierscreek.org/Porous_Pavement/PermeablePavement_TechS
			pec.pdf
			National Asphalt Pavement Association (NAPA). Porous Asphalt
			http://www.asphaltpavement.org/index.php?option=com_content&task=view&id=50
			7&Itemid=1100
Storm water	Select appropriate rain		Rain Garden Network. What is a Rain Garden? 2019
control – rain	garden plants to give		www.raingardennetwork.com
garden	rainwater runoff the		
	opportunity to be		Rutgers University. New Jersey Agricultural Experiment Station. Stormwater
	absorbed into ground.		Management in Your Backyard. 2019
			https://njaes.rutgers.edu/environment/rain-garden-manual.php

Product	Product Features	Certifications	Product Directory/Service Resources
			Rutgers University. New Jersey Agricultural Experiment Station. Water Resources
			Program. Rain Garden Manual of New Jersey. 2017
			http://water.rutgers.edu/Rain_Gardens/RGWebsite/RainGardenManualofNJ.html
Roofing	Roof design minimize		US EPA. Energy Star. Certified Products. Roof Products. 2017
	heat island effects. Two		https://www.energystar.gov/products/building_products/roof_products
	types are cool roofs and		
	green roofs. Cool roofs		US EPA. Heat Island Effect. 2019.
	use reflective materials	energy	https://www.epa.gov/heat-islands
	including metals and	ENERGY OTA D	
	lightly colored shingles	ENERGY STAR	US EPA. Heat Islands. Using Cool Roofs to Reduce Heat Islands. 2016
	to decrease heat		https://www.epa.gov/heat-islands/using-cool-roofs-reduce-heat-islands
	transfer into the indoor		
	environment, reducing		Lawrence Berkeley National Laboratory. Heat Island Group. 2019
	need for cooling. Green		https://heatisland.lbl.gov
	roofs use plants, shrubs,		
	and small trees to		Office of Energy Efficiency and Renewable Energy. Energy 101: Cool Roofs.
	replace heat-absorbing		https://www.energy.gov/eere/videos/energy-101-cool-roofs
	surfaces. The plants		
	cool the air through the		Cool Roof Rating Council.
	process of		https://coolroofs.org/
	evapotranspiration.		
	Low- slope roofs should		
	have an initial solar		
	reflectance of >= 0.65.		
	After 3 years, the solar		
	reflectance must be >=		
	0.50. Steep-slope roofs		
	must have an initial		
	solar reflectance of >=		
	0.25. After 3 years, the		
	solar reflectance must		
	be >= 0.15.		

Product	Product Features	Certifications	Product Directory/Service Resources
Erosion	Soil erosion is reduced		North Carolina Department of Environmental Quality. Erosion and Sediment Control
Control	and dirt is stabilized on		Planning and Design Manual. 2013.
	construction site by		https://deq.nc.gov/about/divisions/energy-mineral-land-resources/energy-mineral-
	using one or a		land-permit-guidance/erosion-sediment-control-planning-design-manual
	combination of the		
	following: socks filled		
	with chipped or ground		
	wood, silt fencing, or		
	seeding.		

**Project Type : Finished Basement and Major Addition** 

**Building System: Foundation** 

Product	Product Features	Certifications	Product Directory/Service Resources
Bio-based	Bio-based form-		Nox Crete - Form Release Agents:
form-release	release agents are		https://www.nox-crete.com/products/bio-nox-vs/
agents	made from		
	vegetable oils,	e	SPOT Products Catalog. Form Release Agents. GrenGuard Certification
	biodegrade	GREENGUARD	https://spot.ul.com/main-app/products/catalog/?keywords=form+release+agents
	naturally, and are	PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS ULL COM/GG	
	less harmful in	UL 2818	
	indoor air than		
	traditional form-		
	release agents.		
Concrete	Fly ash concrete		United States Department of Transportation, Federal Highway Administration.
	uses waste product	ATT.	Pavements. Fly Ash Facts for Highway Engineers. 2017
	of coal fired power	ALIM	https://www.fhwa.dot.gov/PAVEMENT/recycling/fach00.cfm
	plants to replace up		
	to 50 percent of	יווטי	Perkins+Will White Paper. Fly Ash in Concrete. 2011
	cement in concrete		https://assets.ctfassets.net/t0qcl9kymnlu/1Tx57nRsWYYMEC824CkOal/38239c5e0fb204
	mixes, improving its		4af10bc2b1fac38cf8/FlyAsh WhitePaper.pdf
	strength.		
Concrete	Use prefabricated		ConcreteNetwork.com. Concrete Footing Fundamentals. 2019
Footings	flexible form		https://www.concretenetwork.com/concrete/footing_fundamentals/
	footings that		
	include a capillary		Fab-Form Sustainable Foundations. Fast Foot. 2017
	break between the		https://www.fab-form.com/fastfoot/fastfootOverview.php
	footing and the soil		
	and provide a		
	moisture barrier		
	membrane.		

Product	Product Features	Certifications	Product Directory/Service Resources
Radon Test Kit	Some test kits		United States Environmental Protection Agency. Radon
	include charcoal		http://www.epa.gov/radon/
	canisters, alpha-		
	track detectors,		United States Environmental Protection Agency. Radon. Radon Hotlines and Information
	and charcoal liquid		Resources
	scintillation		https://www.epa.gov/radon/radon-hotlines-and-information-resources
	devices.		
	Depending on		Consult the State Radon Office (800) 648-0394 or call EPA's Drinking Water Hotline (800)
	results, a second		426-4791 for additional information on testing.
	short-term test or a		New Jersey State Radon Office - This office can provide homeowners with information
	long-term test may		about testing for radon in homes. Call (800) 648-0394 for more information.
	be needed.		
Flooring	Green flooring	O°	SPOT. Hard Surface Flooring. GreenGuard Certification
	contains low to	1.3	https://spot.ul.com/main-app/products/catalog/?keywords=hard+surface+flooring
	zero amounts of	FSC	
	formaldehyde or	rsc	California Environmental Protection Agency. Air Resources Board (ARB). Indoor Air
	VOCs. Look for	, SFA,	Quality Guideline. Formaldehyde in the Home. 2004
	durable and easy to	SEAL SEAL	www.arb.ca.gov/research/indoor/formaldgl08-04.pdf
	clean materials.	5	SCS (Scientific Certification Systems) Global Services. Floor Score. Indoor Air Quality
	Green choices	•	Certification for Flooring.
	include hard		https://www.scsglobalservices.com/services/floorscore?scscertified=1
	durable surfaces,		ittps://www.scsglobalservices.com/services/noorscore?scscertineu=1
	hardwood flooring	(UL)	FSC (Forest Stewardship Council). Market. Find Products.2019
	from certified well-		http://www.fscus.org/faqs/fsc_products.php
	managed forests,	GREENGUARD	ittp://www.iscus.org/iaqs/isc_products.prip
	reclaimed and	PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS ULCOM/GG UL 2818	Green Floors. Environmentally Friendly Flooring-Recycled Carpeting. 2012
	recycled wood	UL 2818	http://www.greenfloors.com/
	flooring, bamboo		
	and cork. Always		Sustainable Forestry Initiative. Find SFI Products. 2019.
	try to use low or no		https://www.sfiprogram.org/findsfiproducts
	VOC finishes.		
		l	

Product	<b>Product Features</b>	Certifications	Product Directory/Service Resources
		SET.	
Insulating Concrete Forms (ICFs)	Insulating concrete forms of plastic foam with an R Value of at least 38 hold the concrete while it is curing and remain in place afterwards, serving as a thermal insulator for the concrete.	energy STAR	Insulating Concrete Forms Manufacturers Association <a href="http://icf-ma.org/?s=insulating+concrete+forms">http://icf-ma.org/?s=insulating+concrete+forms</a> Seal and Insulate with ENERGY STAR® Program Draft Definitions and Testing Requirements for Residential Insulation. Version 1.0 (Rev. Feb-2013) <a href="https://www.energystar.gov/sites/default/files/specs/Draft%20Insulation_DefsTesting_Reqs%20%28Rev%20Feb-2013%29%20%282013-01-23%29.pdf">https://www.energystar.gov/sites/default/files/specs/Draft%20Insulation_DefsTesting_Reqs%20%28Rev%20Feb-2013%29%20%282013-01-23%29.pdf</a>
Exterior Paint	Thermal ceramic paint has little or no VOC content, certified for fire safety, environmental and related efficiency standards with high R-values.	ENERGY STAR  SEAL  GREENGUARD  PRODUCT CENTRICH FOR LOW CHEMICAL EMISSIONS UL 2018	Treehugger.com: Ceramic Paint-On Insulation: Does it Work?  http://www.treehugger.com/files/2008/07/ceramic-insulating-paints.php  ASTM – American Society for Testing and Materials  www.astm.org  SPOT. Products Catalog. Exterior Paint. GreenGuard Certification  https://spot.ul.com/main-app/products/catalog/?keywords=exterior+paint  Green Seal. Certified Products and Services  https://www.greenseal.org/products-services/products/

Product	Product Features	Certifications	Product Directory/Service Resources
Beneficial	Beneficial insects		Rutgers Cooperative Research & Extension. Fact Sheet: Natural Pest Control. Using
Insects	include predators,		beneficial insects to control landscape pests. 2017
	parasites, and		http://www.cpe.rutgers.edu/hgs/docs/2017/Workshop-12-Natural-Pest-Control.pdf
	pollinators that		
	control pests by		Virginia Cooperative Extension. Virginia Tech. Virginia State University. Resources for
	feeding off other		Garden Insects Pests. 2019
	insects that harm		https://www.pubs.ext.vt.edu/tags.resource.html?tag=pubs_ext_vt_edu:garden-insects-
	plants including		<u>pests</u>
	praying mantises,		
	certain species of		Plant & Pest Advisory. Beating the Bugs in the Bogs: Attracting Beneficial Insects. 2019
	beetles, and		https://plant-pest-advisory.rutgers.edu/beating-the-bugs-in-the-bogs-attracting-
	ladybugs. Others		beneficial-insects/
	can be used to		
	target different		
	species of insects		
	harmful to plants.		

**Project Type : Finished Basement and Major Addition** 

**Building System: Building Envelope** 

Product	Product Features	Certifications	Product Directory/Service Resources
Home	Save up to 30% on		New Jersey Board of Public Utilities. Office of Clean Energy. Home Performance with
Performance	energy costs,		Energy Star
Audit	increase the		http://www.njcleanenergy.com/residential/programs/home-performance-energy-
	comfort, safety,		star/home-performance-energy-star-r
	and durability of		
	your home (NJ		
	Office of Clean		
	Energy). Contact NJ		
	Office of Clean		
	Energy to find		
	certified		
	contractors.		
Concrete	Water and		ConcreteNetwork.com: Concrete Admixtures. 2019
Admixture	corrosion-proofing		https://www.concretenetwork.com/concrete/concrete_admixtures/
	admixture makes		
	concrete		McDonough Braungart Design Chemistry (MBDC) Cradle to Cradle Certification
	hydrophobic;		https://www.c2ccertified.org/
	eliminating the		
	need for an	ATTA	
	external	ALIM	
	waterproofing		
	membrane. Select	יוטי	
	products with little		
	or no VOC (volatile		
	organic compound)		
	content.		
Foam Sealers	Ozone-safe flame-		Family Handyman. Insulate Basement Rim Joists. 2019
Fuaiii Sealeis	retardant foam		https://www.familyhandyman.com/basement/insulate-basement-rim-joists/
	Tetalualit Iballi		ittps://www.iaimiyhanuyman.com/basement/insulate-basement-iiff-juists/

Product	Product Features	Certifications	Product Directory/Service Resources
	sealants come in a		
	reusable dispenser.		Smarter House. Home Systems + Energy. Building Envelope. Find and Seal Air Leaks. 2015
			https://smarterhouse.org/building-envelope/find-and-seal-air-leaks
House Wrap	Tear-resistant		WBDG (Whole Building Design Guide). A program of the National Institute of Building
	house wraps; non-		Sciences. Residential Building Enclosure. 2017
	perforated to resist		http://www.wbdg.org/resources/residential-building-enclosure
	water with a		
	surface texture that		The Balance Small Business. Juan Rodriguez. House Wrap Types and Installation Tips. The
	provides a drainage		Basics of Water-Resistive Barrier. 2018
	plane.		https://www.thebalancesmb.com/how-to-install-house-wrap-845067
Insulation	Look for products		US EPA Energy Star. Why Seal and Insulate?
	that are flame		https://www.energystar.gov/campaign/seal_insulate/why_seal_and_insulate
	retardant,		
	formaldehyde-free,		US EPA Energy Star. Look for Energy Star Certified Insulation
	contain no VOCs,		https://www.energystar.gov/campaign/seal_insulate/certified_insulation
	and use a non-	-energy S	
	ozone depleting	ENERGY STAR	US Department of Energy. Save Energy, Save Money. Weatherize. Insulation
	blower agent.	ENERGY O'AIT	https://www.energy.gov/energysaver/weatherize/insulation
	Products that are		
	thermally efficient		SPOT. Products Catalog. Insulation. GreenGuard Certification
	with high R-values		https://spot.ul.com/main-app/products/catalog/?keywords=insulation
	(measure of		
	thermal resistance),		
	noncorrosive, have		
	sound control, and		
	moisture control		
	that aids in		
	resisting water		
	vapor transmission		
	preventing mildew.		

Product	Product Features	Certifications	Product Directory/Service Resources
Structural	Structural Insulated		Structural Insulated Panel Association (SIPA). What Are SIPs? 2019
Insulated	Panels (SIPS) use		https://www.sips.org/about/what-are-sips
Panels (SIPS)	low/no		
	formaldehyde glue		
	such as marine glue		
	to hold the		
	plywood together.		
Windows &	Several types of		National Fenestration Rating Council
Window	window glazing are		http://www.nfrc.org/
Glazings	gas filled, heat-	2 -2	
	absorbing tint,	-energy w	Efficient Windows Collaborative
	insulated (double-	ENERGY STAR	https://www.efficientwindows.org/
	glazed, triple-	Residentifications	
	glazed, and quad-		US EPA Energy Star. Residential Windows, Doors and Skylights
	glazed), low		https://www.energystar.gov/products/building_products/residential_windows_doors_an
	emissivity (low-E)		d_skylights/
	coatings, reflective		
	coatings, and	The state of the s	US EPA Energy Star. Certified Products. Energy Efficient Window and Door Performance
	spectrally selective	NFRC	Criteria
	coatings. Select	A.C.	https://www.energystar.gov/products/building_products/residential_windows_doors_an
	Windows that are	National Fenestration	d_skylights/key_product_criteria
	Low-E (Low-	Rating Council	
	Emittance), have		US Department of Energy. Window Types and Technologies.
	high-performance		https://www.energy.gov/energysaver/window-types-and-technologies
	U-factor (measure		
	of the rate of heat		
	loss) and a Solar		
	Heat Gain		
	Coefficient (SHGC)		
	rated for New		
	Jersey.		

**Building System: HVAC** 

Product	Product Features	Certifications	Product Directory/Service Resources
Air Conditioning System	Meets or exceeds Energy Star standards. Choose a model with a Seasonal Energy Efficiency Ratio (SEER) of at least 14 for ductless minisplit or central air conditioning.	ENERGY STAR	New Jersey Board of Public Utilities. Clean Energy Program. COOLAdvantage Program. http://www.njcleanenergy.com/residential/programs/cooladvantage/cooladvantage-program  US EPA Energy Star. Certified Products. Central Air Conditioner. 2019 https://www.energystar.gov/products/heating_cooling/air_conditioning_central  US EPA Energy Star. Certified Products. Room Air Conditioner https://www.energystar.gov/productfinder/product/certified-room-air-conditioners/  The Consortium for Energy Efficiency (CEE) and the Air-Conditioning and Refrigeration Institute (ARI) online database. US EPA Energy Star. Central Air Conditioner http://www.ceedirectory.org  American Council for an Energy-efficient Economy. Smarter House. Buying Tips. Should I replace my existing System? 2015 https://smarterhouse.org/cooling-systems/buying-tips
Duct Mastic Sealant	Low- to zero-VOC content. Sealing ducts helps to prevent air from escaping the system and reduces its heating and cooling loads.	ENERGY STAR  UL  GREENGUARD  PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL COMYGG UL 2818	US EPA Energy Star. Energy Savings at Home. Why Seal and Insulate? <a href="https://www.energystar.gov/index.cfm?c=home_sealing.hm_improvement_sealing">https://www.energystar.gov/index.cfm?c=home_sealing.hm_improvement_sealing</a> SPOT.Caulks and Sealants. GreenGuard Certification <a href="https://spot.ul.com/main-app/products/catalog/?keywords=caulks+and+sealants">https://spot.ul.com/main-app/products/catalog/?keywords=caulks+and+sealants</a>

Product	Product Features	Certifications	Product Directory/Service Resources		
Fan: Attic	Choose models with features		US EPA Energy Star www.energystar.gov		
	including self- flash, curb mount, and gable mount for pitched or flat roof applications.	ENERGY STAR	US EPA. Energy Star. About Attic Ventilation <a href="https://www.energystar.gov/index.cfm?c=diy.diy">https://www.energystar.gov/index.cfm?c=diy.diy</a> attic ventilation  BuildingGreen.com <a href="https://www.buildinggreen.com">www.Buildinggreen.com</a> Home Ventilating Institute. Home Ventilation & Indoor Air Quality Guide. 2019 <a href="https://www.hvi.org/publications/VentLivingAreas.cfm">https://www.hvi.org/publications/VentLivingAreas.cfm</a>		
Fan: Bathroom	Reduces moisture in the bathroom that can cause mold growth. Select models with a built-in Energy Star light fixture that are programmable, produce low noise, and can have a high CFM (Cubic Feet per Minute).	ENERGY STAR	US EPA Energy Star. Certified Products. Ventilation Fans. 2019 https://www.energystar.gov/products/heating_cooling/fans_ventilating  Home Ventilating Institute. Home Ventilation & Indoor Air Quality Guide . 2019 https://www.hvi.org/publications/VentLivingAreas.cfm		
Fan: Ceiling	Meet or exceed Energy Star standards. Choose a model that has both clockwise and counter clockwise motion.	Energy STAR	US EPA. Energy Star. Certified Products. Ceiling Fans. 2019 <a href="https://www.energystar.gov/products/lighting-fans/ceiling-fans">https://www.energystar.gov/products/lighting-fans/ceiling-fans</a> US EPA. Energy Star. Certified Products. Find and compare Products. Ceiling Fans. <a href="https://www.energystar.gov/productfinder/product/certified-ceiling-fans/results">https://www.energystar.gov/productfinder/product/certified-ceiling-fans/results</a> Home Ventilating Institute - Home Ventilation & Indoor Air Quality Guide –2019		

Product	Product Features	Certifications	Product Directory/Service Resources
			https://www.hvi.org/publications/VentLivingAreas.cfm
Programmable	Install a		US EPA. Energy Star. Certified Products. Programmable Thermostats
Programmable Thermostat	Install a programmable thermostat that meets or exceeds Energy Star standards to save energy and money by reducing wasted cooling or heating when no one is home. he model should be compatible with your system and have features including battery operation and indicator, settings options that allow for vacation overrides and weekends, an energy monitor, and filter change indicator.	ENERGY STAR	US EPA. Energy Star. Certified Products. Programmable Thermostats  https://www.energystar.gov/products/heating_cooling/programmable_thermostats  US Department of Energy. Office of Energy Efficiency and Renewable Energy.  Thermostats. Energy Saver. Setting Your Thermostat for Comfort and Savings.  https://www.energy.gov/energysaver/thermostats

**Project Type : Finished Basement and Major Addition** 

**Building System: Lighting and Electrical** 

Product	Product Features	Certifications	Product Directory/Service Resources
Compact Fluorescent Lamps (CFL)	Compact Fluorescent Lamps (CFLs) use less energy, last longer, and contain less mercury than incandescent lamps. Choose lamps with a Color Rendering Index (CRI) suitable for the task. For ambient lighting, select a lamp that produces a warm or yellowish hue. Task lighting requires lamps that produce a bluish or cool hue.	ENERGY STAR	US EPA. Energy Star: Compact Fluorescent Light Bulbs http://www.energystar.gov/index.cfm?c=cfls.pr_cfls  US Department of Energy. Lighting Choices to Save You Money. https://www.energy.gov/energysaver/save-electricity-and-fuel/lighting-choices-save-you-money  Rensselaer Polytechnic Institute: Lighting Research Center. 2019 https://www.lrc.rpi.edu/
Recessed Lighting	IC (Insulation Contact)-rated housing can make direct contact with the insulation. Light output for these models can reach up to 100 watts.		WBDG (Whole Building Design Guide). A program of the National Institute of Building Sciences. Energy Efficient Lighting. 2016 <a href="http://www.wbdg.org/resources/energy-efficient-lighting">http://www.wbdg.org/resources/energy-efficient-lighting</a>

Product	<b>Product Features</b>	Certifications	Product Directory/Service Resources
Light-Emitting	LED light fixtures		US EPA. Energy Star. Certified Products. Light Fixtures
Diode (LED)	use less energy,		https://www.energystar.gov/products/lighting_fans/light_fixtures
<b>Light Fixture</b>	produce less heat,	energy	
	and are more	ENERGY STAR	US Department of Energy. Lighting Choices to Save You Money.
	durable than	ENERGY SHARE	https://www.energy.gov/energysaver/save-electricity-and-fuel/lighting-choices-save-
	incandescent and		<u>you-money</u>
	even fluorescent		
	lamps.		Rensselaer Polytechnic Institute: Lighting Research Center. 2019
			https://www.lrc.rpi.edu/
Wiring race-	Use on the surface		Electrical Installation & Energy Efficiency. Electrical Engineering Community. Raceways in
ways	of interior walls to		internal installations. 2017
ways	simplify wiring		http://engineering.electrical-equipment.org/panel-building/raceways-internal-
	tasks and to		installations.html
	prevent wall		Installations.html
	penetrations that		Electrical Construction and Maintenance (EC&M). Choosing the Right Raceway. 2011
	can compromise a		https://www.ecmweb.com/code-basics/choosing-right-raceway
	building's thermal		
	performance.		
Fiberglass-	Fiberglass surfaces		Gypsum Association. Exterior Gypsum Sheathing. 2109
Faced Drywall	replace typical		https://www.gypsum.org/commercial-applications/exterior-gypsum-sheathing/
	paper surfaces and		
	are moisture		International Association of Certified Home inspectors (InterNACHI). Nick Gromicko.
	resistant.		Paperless Drywall. 2019
			https://www.nachi.org/paperless-drywall.htm
Monolithic	Has cellulose fibers		What is Gypsum Board? – Gypsum Association. 2019
Drywall	dispersed through		https://www.gypsum.org/about/gypsum-101/gypsum-board/
	the board and is		
	moisture resistant.		

Product	Product Features	Certifications	Product Directory/Service Resources
Paints and Finishes	Paints with natural pigments and oils and with low or no VOC's,	GREENGUARD  PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL CONVICE UL CONVIC	SPOT. Paints. GreenGuard Certification https://spot.ul.com/main-app/products/catalog/?keywords=paints  Green Seal - Product Search —Paints & Coatings http://www.greenseal.org/FindGreenSealProductsandServices.aspx?vid=ViewProductDetail&cid=10
Paper-faced Drywall Containing Gypsum	Uses recycled paper, gypsum and other materials. Produces a low offgassing of pollutants.		Gypsum Association  www.gypsum.org  Gypsum Association. Using Gypsum Board for Walls and Ceilings. 2019  https://www.gypsum.org/technical/using-gypsum-board-for-walls-and-ceilings/
Wall Board	Products that are moisture resistant, non-paper faced, and mold resistant will improve indoor air quality and prevent premature replacement and repair.		Interior Ceiling Gypsum Board. American Gypsum. 2019 https://www.americangypsum.com/products/interior-ceiling-gypsum-board What is Gypsum Board? Gypsum Association. 2019 https://www.gypsum.org/about/gypsum-101/gypsum-board/

**Project Type : Finished Basement and Major Addition** 

**Building System: Furniture and Fittings** 

Product	<b>Product Features</b>	Certifications	Product Directory/Service Resources
Cabinetry and	Bamboo products		Sustainable Furnishings Council. 2019
Furniture:	as it is fast growing,		https://sustainablefurnishings.org/
rapidly	highly renewable		
renewable	resource and can		
materials	be used for many		
	things in the home		
	including furniture,		
	flooring, and		
	window blinds.		
<b>Used Furniture</b>	Reduces the need		Craigslist
	to produce new		www.craigslist.org
	furniture and the		
	pollution from the		Freecycle
	manufacturing and		https://www.freecycle.org/
	transportation		
	processes.		Habitat for Humanity ReStore
			https://www.habitat.org/restores?place=us
Cabinetry and	Responsibly	Forest	Forest Stewardship Council (FSC)
Furniture:	harvested products	Stewardship	https://us.fsc.org/en-us
Certified	promote resource	Council (FSC)	
Sustainable	stewardship.	Certified	Rainforest Alliance. Forest Products Certification. Find Certified products. 2019
Wood			https://www.rainforest-alliance.org/find-certified?location=&category=131&keyword=
		00	
		1	
		12P	
		FSC	
		100	

Product	<b>Product Features</b>	Certifications	Product Directory/Service Resources
Furniture:	Furniture made		GreenGuard
reclaimed,	with materials from		www.greenguard.org
recycled, and	old furniture,		
durable	houses, factory		Scientific Certification Systems: Buildings and Interiors
materials	scraps, and		https://www.scsglobalservices.com/services/buildings-and-interiors
	recycled products.		
	Choose longer		SPOT. Products Catalog. Furniture. GreenGuard Certification
	lasting products to		https://spot.ul.com/main-app/products/catalog/?keywords=furniture
	avoid using		
	resources.		Sustainable Furnishings Council. 2019
			https://sustainablefurnishings.org/
			Rainforest Alliance. Forest Products Certification. Find Certified products. 2019 <a find-certified?location='&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https://www.rainforest-alliance.org/find-certified?location="https&lt;/th' href="https://www.rainforest-alliance.org/find-certified?location=&amp;category=131&amp;keyword=" https:="" www.rainforest-alliance.org=""></a>
Low-toxicity	Avoid products that		SPOT. Products Catalog. Furniture. GreenGuard Certification
furniture	off-gas volatile		https://spot.ul.com/main-app/products/catalog/?keywords=furniture
	organic compounds		
	(VOCs) and that are		Scientific Certification Systems: Buildings and Interiors
	made from		https://www.scsglobalservices.com/services/buildings-and-interiors
	synthetic materials		
	including fire		California Environmental Protection Agency. Air Resources Board (ARB). Indoor Air
	retardants and		Quality Guideline. Formaldehyde in the Home. 2004
	formaldehyde.		www.arb.ca.gov/research/indoor/formaldgl08-04.pdf
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