

1. BUILDING MATERIALS	
1-1	LUMBER F.D. STERRITT LUMBER CO. Sterritt Lumber Co. Sterritt Lumber is a family owned and operated lumber yard serving the Great Boston Area and New England. Founded in 1841, Sterritt Lumber has developed into a full service lumber yard, serving homeowners, building, and architects and offering a wide range of products.
1-2	SHEATHING
1-3	ENGINEERED WOOD
1-4	HARDWARE
1-5	ROOFING
1-6	SIDING & TRIM
1-7	INSULATION ICYNENE Spray Polyurethane Foam Insulation Icynene's array of insulation products are designed to let you have greater control over the indoor environment and are suitable for use in steel- or wood-framed residential or commercial construction.
1-8	WATER PROTECTION BENJAMIN OBDYKE Home Slicker® Plus Typar® Home Slicker® Plus Typar® is a cost-effective, labor and material saving, moisture eliminating rainscreen combined with a water resistive barrier.
1-9	DECKING BLUE STAR Tropical Hardwood Deck Products Offers over 50 individual items for decks, porches and interior/exterior trim. Blue Star products exceed all recognized industry standards for strength, durability, pest and rot resistance.
1-10	STONE

2. DOORS & WINDOWS	
2-1	ENTRY DOOR Simpson ANY DOOR. ANY SPECIES.
2-2	GARAGE DOOR
2-3	STEEL DOOR
2-4	INTERIOR DOOR
2-5	SPECIALTY DOOR
2-6	DOOR HARDWARE SCHLAGE Residential Security Products For over 85 years Schlage has provided homeowners with innovative quality security products. Today, Schlage offers home security solutions from a wide selection of mechanical and electronic security locks and accessories in touch with modern lifestyles.
2-7	WINDOWS
2-8	WINDOW SHADING
2-9	SKY LIGHTS
2-10	BASEMENT WINDOWS

3. HVAC	
3-1	BATHROOM FAN
3-2	CENTRAL AC
3-3	FURNACE
3-4	HRV
3-5	THERMOSTAT
3-6	WATER HEATER
3-7	BOILER
3-8	HEAT PUMP WaterFurnace Smarter from the Ground Up™ Geothermal Heating and Cooling Systems WaterFurnace manufactures and sells more geothermal systems for homes than anyone else in the business. They offer a wide variety of residential geothermal products. Their dealers and installers are the most highly trained in the industry.
3-9	RADIANT FLOORING WARMLY YOURS MAKING COMFORT EASY Radiant Floor Heating A warm welcome every time... WarmlyYours makes comfort easy with a selection of premium home heating products, including radiant floor heating for tile, carpet, and wood at competitive prices. Fast and free quotes are available.
3-10	FIREPLACE OR STOVE

4. FINISHES	
4-1	PAINT safecoat Environmentally Responsible Paints AFM safecoat is the leading provider of environmentally responsible, sustainable and non-polluting paints, stains, wood finishes, sealers and related green building products.
4-2	STAIN
4-3	SEALANT VERMONT NATURAL COATINGS PolyWhey™ wood finishes Vermont Natural Coatings' PolyWhey™ wood finishes enhance the innate beauty of wood and preserve it with a durable shield that is environmentally safe for those who work with it and for those who live with it.
4-4	FLOORING ALLEGHENY MOUNTAIN HARDWOOD FLOORING FSC Clear Rift & Quarter Swan Oak Allegheny Mountain Hardwood Flooring is part of Hickman Woods, a family business whose commitment to sustainable forestry began before the popularity of "green" and before Forest Stewardship Council (FSC) certification even existed.
4-5	WALL COVER
4-6	PANELING
4-7	CARPET
4-8	TILE
4-9	TRIM
4-10	COMPOSITE

5. KITCHEN & BATH	
5-1	CABINET CRYSTAL Fine Custom Cabinetry for Kitchen and Bath Crystal Cabinets is a manufacturer of fine custom cabinetry for your kitchen, bathroom and every room in your home. Celebrating 60 years as a family-owned custom cabinet manufacturer, we offer a selection of door styles, woods and designer finishes.
5-2	COUNTERTOP EcoTop Bio Composite Countertops EcoTop is one of the newest innovations from award-winning green product creator, Joel Klippert. As a bio-composite surface material for countertops, tabletops, floors and walls, EcoTop adds practical style in both residential and commercial settings.
5-3	COUNTERTOP IceStone Made from 100% recycled glass and cement to create a high performance, green concrete material.
5-4	COUNTERTOP PaperStone Made from a composite material that is made from 100% post-consumer recycled standard office paper.
5-5	SINK KOHLER Understone® undercounter kitchen sink Mix and match to suit your needs. Understone single-basin sinks give you the design flexibility you need with the professional look of stainless steel. Choose one or select two or more depending on your space consideration and stylistic preferences.
5-6	FAUCET KOHLER Vinnata kitchen sink faucet, Brushed Nickel MasterClean spray/face Resists hard water buildup. With the touch of a button, Vinnata pull-down spray faucets provide either an aerated stream or a powerful spray. The high-arch spout is elegantly designed to reach over the tallest pots.
5-7	TUB victoria albert contemporary, classic & spa baths York The freestanding York features a deep, double-ended bathing well supported by an elegant pedestal base. Victoria & Albert is a global brand with a world wide reputation for creating beautiful baths.
5-8	SHOWERHEAD KOHLER Purist® 1.75 gpm showerhead Conservation without compromise. This showerhead is a true performance showerhead for the green-build market. The showerhead provides LEED compliance with 30% reduction in water consumption without sacrificing shower performance.
5-9	TOILET KOHLER Persuade two-piece elongated toilet with Dual Flush Technology Offers a contemporary design highlighted by the skirted trapway. This compact elongated model features Dual Flush technology, which includes a 1.6 gpf and also an eco-friendly, 0.8-gallon flush option.
5-10	KITCHEN DESIGNER KITCHEN VIEWS Kitchen Views Kitchen Views offers exceptional customer service with talented designers, exquisite showrooms, and quality products specializing in quality cabinetry, decorative hardware and countertops our showrooms offer a range of styles from traditional to contemporary.

6. LIGHTING & ELECTRONICS	
6-1	CEILING FIXTURE
6-2	HANGING LAMP
6-3	STANDING LAMP
6-4	WALL FIXTURE
6-5	RECESSED FIXTURE
6-6	OUTDOOR LIGHTING
6-7	HOME AUDIO TRAD Triad Speakers and Home Audio Solutions Triad offers the most complete array of applications-based custom speaker solutions, designed for specific usage, and without compromise. Made in America.
6-8	HOME AUTOMATION PULSEWORX Lighting Controls PulseWorx is a lighting control system utilizing only existing wiring. Their patented UPB technology streamlines the installation process and keeps your costs in control. This flexible and scalable system is backed by an industry leading Money Back Guarantee.
6-9	SOLAR PANELS
6-10	LIGHTING DESIGNER WOLFERS The Lighting Experts Wolfers Lighting Designers When planning lighting for redesigns, renovations and new homes, Wolfers state-of-the-art lighting solutions and technical expertise will help bring your project to a higher level by making sure lighting is integrated and installed the right way, on time and on budget.

7. APPLIANCES	
7-1	CLOTHES WASHER GE Appliances imagination at work GE - 4.0 Cu. Ft. 28-Cycle King-Size Washer This washer features HydroMotion technology that gently removes soils from garments to limit the wear and tear on your clothes. The HydroBooster feature increases the wash temperatures to reduce bacteria for a thorough clean.
7-2	CLOTHES DRYER GE Appliances imagination at work GE - 7.0 Cu. Ft. Super Capacity Gas Dryer This front-load gas dryer features a stylish round door to add a contemporary touch to your laundry room. It is equipped with dual thermistors and Sensor Dry Plus technology to maintain a consistent amount of heat for thorough drying.
7-3	COOKTOP GE Appliances imagination at work Monogram® 48" Professional Gas Cooktop Authentic Professional appearance with premium-grade, 304 stainless steel with smoothly finished edges and large electronic control knobs. Sealed, dual-flame stacked burners deliver a full spectrum of heat settings, from an ultra-low 140° F simmer to an intense 18,000 BTUs
7-4	DISH WASHER GE Appliances imagination at work GE Profile Spacemaker Series Fully Integrated Dishwasher with 7 Wash Cycles Including SpeedWash/Air-Dry Cycles, Delay Start, Stainless Steel Tub, Electronic Controls and ADA Compliant: Requires Custom Panel and Handle.
7-5	MICROWAVE
7-6	REFRIGERATOR GE Appliances imagination at work Monogram Built-In Side by Side Refrigerators Monogram's Built-In Side by Side Refrigerators are available in widths of 36", 42" and 48". Models are available with or without exterior ice and water dispensers. Make a statement with a Monogram stainless steel model or install custom door panels to seamlessly integrate the unit with your custom cabinetry.
7-7	WALL OVEN GE Appliances imagination at work MONOGRAM 30" Professional Electronic Convection DOUBLE OVEN The General Electric ZET2PMS5 Stainless Steel Double Oven is a self-clean oven, with a capacity of 4.4 cubic feet.
7-8	SLIDE IN RANGE
7-9	RANGE HOOD GE Appliances imagination at work GE Monogram® 48" Stainless Steel Professional Hood 1200 CFM Vertical Exhaust with Dual Blowers, 3 Halogen Lamps with 4 Lighting Levels, Infrared Warming Lamps, Utensil Racks and Removable Grease Trays
7-10	GARBAGE DISPOSAL inSinkErator Evolution Excel® The Evolution Excel® features the best of InSinkErator's grinding and SoundSeal Plus™ noise-reduction technologies, handling more volume and more types of food waste while making 60% less noise than standard disposers.

FREE GREEN

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CHARLESTOWN, MA 02129
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NOTES:

OTHER KOHLER PRODUCTS IN THIS DESIGN:

KITCHEN:

- Vinnata small Faucet 7.5 K-691-BN
- Understone Small Sink K-3164
- HiRise™ wall-mount kitchen pot filler K-7322-4-BS

BATH:

- Wellspring® beverage faucet K-6666-CP

POWDER ROOM:

- Cimarron® pedestal lavatory with 8" centers K-2382-8-0
- Archer Lavatory Faucet with lever handles K-11076-4-CP

MASTER BATH:

- Bancroft® undercounter lavatory K-2319-0
- Purist® wall-mount non-diverter bath spout, 35 D K-14426-CP
- Purist® bath-, wall-mount high-flow bath valve trim K-114429-3-CP
- Purist faucet with cross handles K-14406-3-CP
- Purist Cross Valves x3 K-114490-3-CP
- Purist Thermostatic Valve Trim K-114488-3-CP
- WaterTite® 54-nozzle body spray K-8002-CP
- Purist Handheld K-978-CP
- Stillness® adjustable wall-mount bracket K-975-CP
- PinStripe Door, Right hand Open K-705722-L-SHP

BATH 2

- Caxton® undercounter lavatory K-2209-0
- Fairfax Widespread Lavatory Faucet K-12265-4-CP
- Fairfax Shower and Bath K-712007-4-CP

LAUNDRY ROOM:

- Sterling by Kohler Utility Sink 995-U-0
- Fort® single-control kitchen sink faucet K-10416-G

PROJECT NAME:

NE COLONIAL

PRODUCT SPECIFICATIONS

PROJECT NUMBER: 10-002

DATE: Issue Date

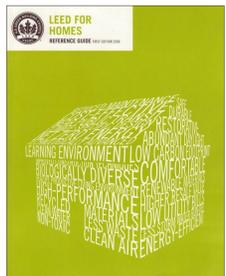
DRAWN BY: Author

CHECKED BY: Checker

A-00-0

SCALE

IV. TOTAL:
 III. CREDIT ATTEMPTED: (YES/NO)
 II. ESTIMATED POINTS ELIGIBLE BY THIS DESIGN:
 I. MAX POINTS AVAILABLE: (P = PREREQUISITE)



CREDIT CATEGORIES & CERTIFICATION LEVELS

LEED certification is based on 18 prerequisites and 67 credits. The prerequisites are basic performance standards; they are mandatory for every project, and no points are awarded for meeting them. To achieve certification, builders earn credit points by exceeding the minimum standards of the prerequisites. In total, 136 credit points are available.

Prerequisites and points are classified in eight credit categories:

- Innovation & Design (ID) Process.**
Special design methods, unique regional credits, measures not currently addressed in the Rating System, and exemplary performance levels.
- Location & Linkages (LL).**
The placement of homes in socially and environmentally responsible ways in relation to the larger community.
- Sustainable Sites (SS).**
The use of the entire property so as to minimize the project's impact on the site.
- Water Efficiency (WE).**
Water conservation practices, both indoor and outdoor.
- Energy & Atmosphere (EA).**
Energy efficiency, particularly in the building envelope and heating and cooling design.
- Materials & Resources (MR).**
Efficient utilization of materials, selection of environmentally preferable materials, and minimization of waste during construction.
- Indoor Environmental Quality (EQ).**
Improvement of indoor air quality by reducing the creation of and exposure to pollutants.
- Awareness & Education (AE).**
The education of homeowner, tenant, or multifamily building manager about the operations and maintenance of the green features of a LEED Home.

CERTIFICATION LEVELS

The LEED for Homes Rating System works by requiring a minimum level of performance through prerequisites and rewarding improved performance in each of the above categories. The level of performance is indicated by four performance tiers. See (Table 1).

Required Points	Certification Level
45-59	Certified
60-74	Silver
75-89	Gold
90-136	Platinum
136	Total available points

HOME SIZE ADJUSTMENT

The adjustments in (Table 2) below compensate for the overarching effects of home size on consumption by adjusting the award level point thresholds based on home size. For further explanation see pages 8-11 in the LEED H Reference Guide.

Required Points	Certification Level
55-69	Certified
70-84	Silver
85-99	Gold
100-146	Platinum
136	Total available points

HOW TO PARTICIPATE IN LEED FOR HOMES

- There are five basic steps for a builder to follow in participating in LEED for Homes:
1. Contact a LEED for Homes Provider and register the project with USGBC.
2. Identify a project team
3. Build the home to the stated goals. Build onsite HERS and green rating tasks.
4. Achieve certification as a LEED home.
5. Post-certification and marketing support.

For full participation requirements or to purchase the LEED H Reference Guide, please visit www.usgbc.org/LEED/homes

INNOVATION AND DESIGN PROCESS (ID)

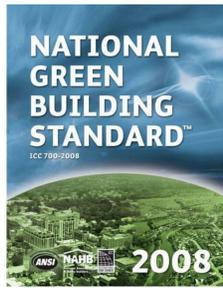
ID 1: INTEGRATED PROJECT PLANNING		I.	II.	III.	IV.
Intent. Maximize opportunities for integrated, cost-effective adoption of green design and construction strategies.					
(pg. 31)	1.1 Preliminary Rating	(P)	X		
(pg. 31)	1.2 Integrated Project Team		1	1	
(pg. 31)	1.3 Professional Credentialed with Respect to LEED for Homes		1	1	
(pg. 31)	1.4 Design Charrette		1	1	
(pg. 31)	1.5 Building Orientation for Solar Design		1		
ID 2: DURABILITY MANAGEMENT PROCESS		I.	II.	III.	IV.
Intent. Promote durability and high performance of the building enclosure and its components and systems through appropriate design, materials selection, and construction practices.					
(pg. 37)	2.1 Durability Planning	(P)	X		
(pg. 37)	2.2 Durability Management	(P)	X		
(pg. 37)	2.3 Third-Party Durability Management Verification		3		

ID 3: INNOVATIVE OR REGIONAL DESIGN		I.	II.	III.	IV.
Intent. Minimize the environmental impact of the home by incorporating additional green design and construction measures that have tangible and demonstrable benefits beyond those in the LEED for Homes Rating System.					
(pg. 45)	3.1 Innovation #1		1		
(pg. 45)	3.2 Innovation #2		1		
(pg. 45)	3.3 Innovation #3		1		
(pg. 45)	3.4 Innovation #4		1		
LOCATION AND LINKAGES (LL)		I.	II.	III.	IV.
LL 1: LEED FOR NEIGHBORHOOD DEVELOPMENT		I.	II.	III.	IV.
Intent. Minimize the environmental impact of land development practices by building homes in LEED for Neighborhood Development certified developments.					
(pg. 51)	1 LEED for Neighborhood Development	(OR LL 2-6)	10		
LL 2: SITE SELECTION		I.	II.	III.	IV.
Intent. Avoid development on environmentally sensitive sites.					
(pg. 55)	2 Site Selection		2		
LL 3: PREFERRED LOCATIONS		I.	II.	III.	IV.
Intent. Encourage the building of LEED homes near or within existing communities.					
(pg. 59)	3.1 Edge Development		1		
(pg. 59)	3.2 Infill	(OR LL 3.1)	2		
(pg. 59)	3.3 Previously Developed		1		
LL 4: INFRASTRUCTURE		I.	II.	III.	IV.
Intent. Encourage the building of LEED homes in developments that are served by or are near existing infrastructure (i.e., sewers and water supply).					
(pg. 65)	4 Existing Infrastructure		1		
LL 5: COMMUNITY RESOURCES / TRANSIT		I.	II.	III.	IV.
Intent. Encourage the building of LEED homes in development patterns that allow for walking, biking, or public transit (thereby minimizing dependency on personal automobiles and their associated environmental impacts).					
(pg. 69)	5.1 Basic Community Resources / Transit		1		
(pg. 69)	5.2 Extensive Community Resources / Transit	(OR LL 5.1, 5.3)	2		
(pg. 69)	5.3 Outstanding Community Resources / Transit	(OR LL 5.1, 5.2)	3		
LL 6: ACCESS TO OPEN SPACE		I.	II.	III.	IV.
Intent. Provide open space to encourage walking, physical activity, and time spent outdoors.					
(pg. 75)	6 Access to Open Space		1		
SUSTAINABLE SITES (SS)		I.	II.	III.	IV.
SS 1: SITE STEWARDSHIP		I.	II.	III.	IV.
Intent. Minimize the environmental damage to the building lot during the construction process.					
(pg. 81)	1.1 Erosion Controls During Construction	(P)	X		
(pg. 81)	1.2 Minimize Disturbed Area of Site		1		
SS 2: LANDSCAPING		I.	II.	III.	IV.
Intent. Design landscape features to avoid invasive species and minimize demand for water and synthetic chemicals.					
(pg. 89)	2.1 No Invasive Plants	(P)	X		
(pg. 89)	2.2 Basic Landscape Design	(OR SS 2.5)	2		
(pg. 89)	2.3 Limit Conventional Turf	(OR SS 2.5)	3		
(pg. 89)	2.4 Drought-Tolerant Plants	(OR SS 2.5)	2		
(pg. 90)	2.5 Reduce Overall Irrigation Demand by at Least 20%		6		
SS 3: LOCAL HEAT ISLAND EFFECTS		I.	II.	III.	IV.
Intent. Design landscape features to reduce local heat island effects.					
(pg. 111)	3 Reduce Local Heat Island Effects		1		
SS 4: SURFACE WATER MANAGEMENT		I.	II.	III.	IV.
Intent. Design site features to minimize erosion and runoff from the home site.					
(pg. 115)	4.1 Permeable Lot		4		
(pg. 115)	4.2 Permanent Erosion Controls		1		
(pg. 115)	4.3 Management of Runoff from Roof		2		
SS 5: NONTOXIC PEST CONTROL		I.	II.	III.	IV.
Intent. Design home features to minimize the need for poisons for control of insects, rodents, and other pests.					
(pg. 125)	5 Pest Control Alternatives		2		
SS 6: COMPACT DEVELOPMENT		I.	II.	III.	IV.
Intent. Make use of compact development patterns to conserve land and promote community livability, transportation efficiency, and walkability.					
(pg. 129)	6.1 Moderate Density		2		
(pg. 129)	6.2 High Density	(OR SS 6.1, 6.3)	3		
(pg. 129)	6.3 Very High Density	(OR SS 6.1, 6.2)	4		
WATER EFFICIENCY (WE)		I.	II.	III.	IV.
WE 1: WATER REUSE		I.	II.	III.	IV.
Intent. Use municipal recycled water or offset central water supply through the capture and controlled reuse of rainwater and/or graywater.					
(pg. 135)	1.1 Rainwater Harvesting System	(OR WE 1.3)	4		
(pg. 135)	1.2 Graywater Reuse System	(OR WE 1.3)	1		
(pg. 135)	1.3 Use of Municipal Recycled Water System		3		

WE 2: IRRIGATION SYSTEM		I.	II.	III.	IV.
Intent. Minimize outdoor demand for water through water-efficient irrigation.					
(pg. 145)	2.1 High-Efficiency Irrigation System	(OR WE 2.3)	3		
(pg. 146)	2.2 Third-Party Inspection	(OR WE 2.3)	1		
(pg. 146)	2.3 Reduce Overall Irrigation Demand by at Least 45%		4		
WE 3: INDOOR WATER USE		I.	II.	III.	IV.
Intent. Minimize outdoor demand for water through water-efficient irrigation.					
(pg. 159)	3.1 High-Efficiency Fixtures and Fittings		3		
(pg. 159)	3.2 Very High-Efficiency Fixtures and Fittings		6		
ENERGY & ATMOSPHERE (EA)		I.	II.	III.	IV.
EA 1: OPTIMIZE ENERGY PERFORMANCE		I.	II.	III.	IV.
Intent. Improve the overall energy performance of a home by meeting or exceeding the performance of an ENERGY STAR labeled home.					
(pg. 169)	1.1 Performance of ENERGY STAR for Homes	(OR EA 2-11)	(P)	X	
(pg. 169)	1.2 Exceptional Energy Performance	(OR EA 2-11)	34		
EA 2: INSULATION		I.	II.	III.	IV.
Intent. Design and install insulation to minimize heat transfer and thermal bridging.					
(pg. 179)	2.1 Basic Insulation	(OR EA 1, 7.1, 7.2)	(P)	X	(P)
(pg. 179)	2.2 Enhanced Insulation	(OR EA 1, 7.1, 7.2)	2		
EA 3: AIR INFILTRATION		I.	II.	III.	IV.
Intent. Minimize energy consumption caused by uncontrolled air leakage into and out of conditioned spaces.					
(pg. 185)	3.1 Reduced Envelope Leakage	(OR EA 1, 7.1, 7.2)	(P)	X	
(pg. 185)	3.2 Greatly Reduced Envelope Leakage	(OR EA 1, 7.1, 7.2)	2		
(pg. 185)	3.3 Minimal Envelope Leakage	(OR EA 3.2) (OR EA 1, 7.1, 7.2)	3	3	
EA 4: WINDOWS		I.	II.	III.	IV.
Intent. Maximize the energy performance of windows.					
(pg. 189)	4.1 Good Windows	(OR EA 1, 7.1, 7.2)	(P)	X	(P)
(pg. 189)	4.2 Enhanced Windows	(OR EA 1, 7.1, 7.2)	2		
(pg. 189)	4.3 Exceptional Windows	(OR EA 4.2) (OR EA 1, 7.1, 7.2)	3		
EA 5: HEATING AND COOLING DISTRIBUTION SYSTEM		I.	II.	III.	IV.
Intent. Minimize energy consumption due to thermal bridges and/or leaks in the heating and cooling distribution system.					
(pg. 195)	5.1 Reduced Distribution Losses	(OR EA 1, 7.1, 7.2)	(P)	X	(P)
(pg. 195)	5.2 Greatly Reduced Distribution Losses	(OR EA 1, 7.1, 7.2)	2	2	
(pg. 195)	5.3 Minimal Distribution Losses	(OR EA 5.2) (OR EA 1, 7.1, 7.2)	3		
EA 6: SPACE HEATING AND COOLING EQUIPMENT		I.	II.	III.	IV.
Intent. Reduce energy consumption associated with the heating and cooling system.					
(pg. 201)	6.1 Good HVAC Design and Installation	(OR EA 1, 7.1, 7.2)	(P)	X	
(pg. 201)	6.2 High-Efficiency HVAC	(OR EA 1, 7.1, 7.2)	2	2	
(pg. 201)	6.3 Very High-Efficiency HVAC	(OR EA 6.2) (OR EA 1, 7.1, 7.2)	4		
EA 7: WATER HEATING		I.	II.	III.	IV.
Intent. Reduce energy consumption associated with the domestic hot water system, including improving the efficiency of both the hot water system design and the layout of the fixtures in the home.					
(pg. 207)	7.1 Efficient Hot Water Distribution		2	2	
(pg. 208)	7.2 Pipe Insulation		1	1	
(pg. 208)	7.3 Efficient Domestic Hot Water (DHW) Equipment	(OR EA 1, 7.1, 7.2)	3	3	
EA 8: LIGHTING		I.	II.	III.	IV.
Intent. Reduce energy consumption associated with interior and exterior lighting.					
(pg. 213)	8.1 ENERGY STAR Lights	(OR EA 1, 7.1, 7.2)	(P)	X	(P)
(pg. 213)	8.2 Improved Lighting	(OR EA 1, 7.1, 7.2)	1.5	1.5	
(pg. 213)	8.3 Advanced Lighting Package	(OR EA 8.2) (OR EA 1, 7.1, 7.2)	3		
EA 9: APPLIANCES		I.	II.	III.	IV.
Intent. Reduce appliance energy consumption.					
(pg. 217)	9.1 High-Efficiency Appliances	(OR EA 1, 7.1, 7.2)	2		
(pg. 217)	9.2 Water-Efficient Clothes Washer	(OR EA 1, 7.1, 7.2)	1		
EA 10: RENEWABLE ENERGY		I.	II.	III.	IV.
Intent. Reduce consumption of nonrenewable energy sources by encouraging the installation and operation of renewable electric generation systems.					
(pg. 221)	10 Renewable Energy System	(OR EA 1, 7.1, 7.2)	10		
EA 11: RESIDENTIAL REFRIGERANT MANAGEMENT		I.	II.	III.	IV.
Intent. Select and test air-conditioning refrigerant to ensure performance and minimum contributions to ozone depletion and global warming.					
(pg. 227)	11.1 Refrigerant Charge Test	(P)	X		
(pg. 227)	11.2 Appropriate HVAC Refrigerants		1		
MATERIAL & RESOURCES (MR)		I.	II.	III.	IV.
MR 1: MATERIAL-EFFICIENT FRAMING		I.	II.	III.	IV.
Intent. Optimize the use of framing materials.					
(pg. 235)	1.1 Framing Order Waste Factor Limit	(P)	X		
(pg. 235)	1.2 Detailed Framing Documents	(OR MR 1.5)	1		
(pg. 235)	1.3 Detailed Cut List and Lumber Order	(OR MR 1.5)	1		
(pg. 235)	1.4 Framing Efficiencies	(OR MR 1.5)	3		
(pg. 235)	1.5 Off-Site Fabrication		4		

MR 2: ENVIRONMENTALLY PREFERABLE PRODUCTS		I.	II.	III.	IV.
Intent. Increased demand for environmentally preferable products and products or building components that are extracted, processed, and manufactured within the region.					
(pg. 247)	2.1 FSC-Certified Tropical Wood	(P)	X		
(pg. 247)	2.2 Environmentally Preferable Products		8		
MR 3: WASTE MANAGEMENT		I.	II.	III.	IV.
Intent. Reduce waste generated to a level below the industry norm.					
(pg. 261)	3.1 Construction Waste Management Planning	(P)	X		
(pg. 261)	3.2 Construction Waste Reduction		3		
INDOOR ENVIRONMENTAL QUALITY (EQ)		I.	II.	III.	IV.
IQ 1: ENERGY STAR WITH INDOOR AIR PACKAGE		I.	II.	III.	IV.
Intent. Improve the overall quality of a home's indoor environment by installing an approved bundle of air quality measures.					
(pg. 273)	1.1 ENERGY STAR with Indoor Air Package	(OR IQ 2-10)	13		
IQ 2: COMBUSTION VENTING		I.	II.	III.	IV.
Intent. Minimize the leakage of combustion gases into the occupied space of the home.					
(pg. 277)	2.1 Basic Combustion Venting Measures	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	(P)	X	(P)
(pg. 277)	2.2 Enhanced Combustion Venting Measures	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	2		
IQ 3: MOISTURE CONTROL		I.	II.	III.	IV.
Intent. Control indoor moisture levels to provide comfort, reduce the risk of mold, and increase the durability of the home.					
(pg. 285)	3.1 Moisture Load Control	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1	1	
IQ 4: OUTDOOR AIR VENTILATION		I.	II.	III.	IV.
Intent. Reduce occupant exposure to indoor pollutants by ventilating with outdoor air.					
(pg. 289)	4.1 Basic Outdoor Air Ventilation	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	(P)	X	(P)
(pg. 289)	4.2 Enhanced Outdoor Air Ventilation	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	2	2	
(pg. 289)	4.3 Third-Party Performance Testing	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1		
IQ 5: LOCAL EXHAUST		I.	II.	III.	IV.
Intent. Reduce moisture and exposure to indoor pollutants in kitchen and bathrooms.					
(pg. 299)	5.1 Basic Local Exhaust	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	(P)	X	(P)
(pg. 299)	5.2 Enhanced Local Exhaust		1	1	
(pg. 299)	5.3 Third-Party Performance Testing		1		
IQ 6: DISTRIBUTION OF SPACE HEATING AND COOLING		I.	II.	III.	IV.
Intent. Provide appropriate distribution of space heating and cooling in the home to improve thermal comfort and energy performance.					
(pg. 305)	6.1 Room by Room Load Calculations	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	(P)	X	
(pg. 305)	6.2 Return Air Flow or Room by Room Controls	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1		
(pg. 305)	6.3 Third-Party Performance Testing	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	2		
IQ 7: AIR FILTERING		I.	II.	III.	IV.
Intent. Reduce particulate matter from the air supply system.					
(pg. 311)	7.1 Good Filters	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	(P)	X	(P)
(pg. 311)	7.2 Better Filters		1	1	
(pg. 311)	7.3 Best Filters	(OR IQ 7.2)	2		
IQ 8: CONTAMINANT CONTROL		I.	II.	III.	IV.
Intent. Reduce occupants' and construction workers' exposure to indoor airborne contaminant through source control and removal.					
(pg. 315)	8.1 Indoor Contaminant Control during Const.	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1		
(pg. 315)	8.2 Indoor Contaminant Control		2		
(pg. 315)	8.3 Preoccupancy Flush	(OR IQ 1, 4.2, 5.2, 5.3, 7.2/7.3, 8.2)	1		
IQ 9: RADON PROTECTION		I.	II.</		

IV. TOTAL:
 III. CREDIT ATTEMPTED: (YES/NO)
 II. ESTIMATED POINTS ELIGIBLE BY THIS DESIGN:
 I. MAX POINTS AVAILABLE: (M = MANDATORY REQUIREMENT PRESENT)



300 COMPLIANCE METHOD

301 - GENERAL
 301.1 Environmental performance levels. The building, project, site, and/or development's environmental performance level shall consist of all mandatory requirements, plus points assessed using the point system specified within this Chapter. The level of performance shall be in accordance with Table 302, 303 or 305.5 as acceptable.
 301.2 Awarding of points. Points shall be awarded as follows:
 (1) The maximum number of points that can be awarded for each practice is noted with that practice.
 (2) Points allocation for multi-unit buildings shall be as prescribed in section 304.
 (3) The Adopting Entity shall allow new products and practices to be added where deemed to meet the intent of this Standard. Points assigned for any new product or practice shall be determined by the Adopting Entity.

Table 302
Threshold Point Ratings for Site Design and Development

Green Subdivision Category	Performance Level Points			
	One Star	Two Stars	Three Stars	Four Stars
400 Site Design and Development	79	104	134	175

302 - GREEN SUBDIVISIONS
 302.1 Site design and development. The threshold points required for the environmental performance levels to qualify a new or existing subdivision as green under this Standard shall be in accordance with Table 302 and based on points in Chapter 4.
 Table 303
Threshold Point Ratings for Green Buildings

Green Building Category	Performance Level Points (1) (2)			
	Bronze	Silver	Gold	Emerald
1 500 Lot Design, Preparation, and Development	39	66	93	119
2 600 Resource Efficiency	45	79	113	146
3 700 Energy Efficiency	30	60	100	120
4 800 Water Efficiency	14	26	41	60
5 900 Indoor Environmental Quality	36	65	100	140
6 1000 Operation, Maintenance and Building Owner Education	8	10	11	12
Additional Points from any category	52	102	102	102
Total Points:	224	408	560	699

(1) In addition to the threshold number of points in each category, all mandatory provisions of each category shall be implemented.
 (2) For dwelling units greater than 4,000 square feet (372 square meter), the number of points in Category 7 (Additional Points from any category) shall be increased in accordance with Section 601.1. The "Total Points" shall be increased by the same number of points.

303 - GREEN BUILDINGS
 303.1 Green buildings. The threshold points required for the environmental performance levels for a green building shall be in accordance with Table 303. To qualify for one of these performance levels, all of the following shall be satisfied:
 (1) The threshold number of points, in accordance with Table 303, shall be achieved as prescribed in Categories 1 through 6. The lowest level achieved in any category shall determine the overall performance level achieved for the building.
 (2) In addition to the threshold number of points in each category, all mandatory provisions of each category shall be implemented.
 (3) In addition to Section 701, either Section 702 (Performance Path) or Section 703 (Prescriptive Path) shall be used to establish the threshold performance level under Category 3 (Energy Efficiency).
 (4) In addition to the threshold number of points prescribed in Categories 1 through 6, the additional points prescribed in Category 7 shall be achieved from any of the categories. Where deemed appropriate by the Adopting Entity, additional points from Category 7 may be assigned to another category (or categories) to increase the threshold points required for that category (or categories). Points shall not be reduced by the Adopting Entity in any of six other categories.

304 - GREEN BUILDINGS
 304.1 Green Multi-Unit Buildings. For multi-unit buildings, points for the green building practices that apply to multiple units shall be credited once for the entire building. Where points are credited, practices shall be implemented in all units, as applicable. Where application of a prescribed practice allows for a different number of points for different units in a multi-unit building, the fewer number of points shall be awarded.

400 SITE DESIGN AND DEVELOPMENT

400.0 Intent. This section applies to land development for the eventual construction of buildings or additions thereto that contain dwelling units. The rating earned under Section 303 based on practices herein, applies only to the site as defined in Chapter 2. The buildings on the site earn their own performance level by complying with the provisions of Section 303, 304, or 305.5, as applicable.

401 SITE SELECTION		I.	II.	III.	IV.
401.0 Intent. The site is selected to minimize environmental impact by one or more of the following:					
(pg. 15)	401.1 Infill Site.			4	
(pg. 15)	401.2 Greyfield/brownfield site.			5	
402 PROJECT TEAM, MISSION STATEMENT, AND GOALS					
402.0 Intent. The site is designed and constructed by a team of qualified professionals trained in green development issues.					
(pg. 15)	402.1 Team.			4	
(pg. 15)	402.2 Training.			3	
(pg. 15)	402.3 Project checklist.	(M)		3	

403 SITE DESIGN		I.	II.	III.	IV.
403.0 Intent. The project is designed to avoid detrimental environmental impacts, minimize any unavoidable impacts, and mitigate for those impacts that do occur. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the site.					
(pg. 16)	403.1 Natural resources.			18	
(pg. 16)	403.2 Building orientation.			6	
(pg. 16)	403.3 Slope disturbance. (Points awarded only if there are developable steep slopes in the project area)			28	
(pg. 16)	403.4 Soil disturbance and erosion.			12	
(pg. 16)	403.5 Storm water management.			21	
(pg. 17)	403.6 Landscape plan.			54	
(pg. 17)	403.7 Wildlife habitat.			5	
(pg. 18)	403.8 Operations and maintenance plan.			5	
(pg. 18)	403.9 Existing buildings.			6	
(pg. 18)	403.10 Existing and recycled materials.			1	
(pg. 18)	403.11 Environmentally sensitive areas.			6	
(pg. 18)	403.12 Density.			10	
(pg. 18)	403.13 Mixed-use development.			6	

404 SITE DEVELOPMENT AND CONSTRUCTION		I.	II.	III.	IV.
404.0 Intent. Environmental impact during construction is avoided to the extent possible; impacts that do occur are minimized, and any significant impacts are mitigated.					
(pg. 18)	404.1 On-site supervision and coordination.			4	
(pg. 18)	404.2 Trees and vegetation.			12	
(pg. 19)	404.3 Soil disturbance and erosion.			31	
(pg. 19)	404.4 Wildlife habitat.			19	
405 INNOVATIVE PRACTICES					
405.0 Intent. Innovative site design, preparation, and development practices are used to enhance environmental performance. Waivers or variances from local development regulations are obtained, and innovative zoning practices are used to implement such practices, as applicable.					
(pg. 19)	405.1 Driveways and parking areas.			5	
(pg. 20)	405.2 Street widths.			6	
(pg. 20)	405.3 Cluster development.			10	
(pg. 20)	405.4 Zoning.			18	
(pg. 20)	405.5 Wetlands.			7	
(pg. 20)	405.6 Mass transit.			6	

500 LOT DESIGN, PREPARATION, AND DEVELOPMENT

500.0 Intent. This section applies to lot development for the eventual construction of residential buildings, multi-unit buildings, or additions thereto that contain dwelling units. The buildings on the lot earn their own performance level by complying with the provisions of Section 303, 304, or 305.5, as applicable.

501 LOT SELECTION		I.	II.	III.	IV.
(pg. 21)	501.1 Lot.			9	
(pg. 21)	501.2 Mass Transportation.			9	
502 PROJECT TEAM, MISSION STATEMENT, AND GOALS					
(pg. 21)	502.1 Project team, mission statement, and goals.			4	
503 LOT DESIGN					
503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, minimize any unavoidable impacts, and mitigate for those impacts that do occur. The project is designed to minimize environmental impacts and to protect, restore, and enhance the natural features and environmental quality of the lot.					
(pg. 22)	503.1 Natural resources.			24	
(pg. 22)	503.2 Slope disturbance. (Points awarded only if there are developable steep slopes in the project area)			24	
(pg. 23)	503.3 Soil disturbance and erosion.			15	
(pg. 23)	503.4 Storm water management.			20	
(pg. 23)	503.5 Landscape plan.			34	
(pg. 24)	503.6 Wildlife habitat.			4	
(pg. 24)	503.7 Mixed-use development.			6	
(pg. 24)	503.8 Environmentally sensitive areas.			6	
(pg. 24)	503.9 Density.			10	

504 LOT CONSTRUCTION		I.	II.	III.	IV.
504.0 Intent. Environmental impact during construction is avoided to the extent possible; impacts that do occur are minimized, and any significant impacts are mitigated.					
(pg. 25)	504.1 On-site supervision and coordination.			4	
(pg. 25)	504.2 Trees and vegetation.			11	
(pg. 25)	504.3 Soil disturbance and erosion.			34	
505 INNOVATIVE PRACTICES					
505.0 Intent. Innovative lot design, preparation and development practices are used to enhance environmental performance. Waivers or variances from local development regulations are obtained, and innovative zoning practices are used to implement such practices.					
(pg. 26)	505.1 Driveways and parking areas.			4	
(pg. 26)	505.2 Heat island mitigation.			4	

600 RESOURCE EFFICIENCY		I.	II.	III.	IV.
601 QUALITY OF CONSTRUCTION MATERIALS AND WASTE					
601.0 Intent. Design and construction practices that minimize the environmental impact of the building materials are incorporated, environmentally efficient building systems and materials are incorporated, and waste generated during construction is reduced.					

601 CONDITIONED FLOOR AREA		I.	II.	III.	IV.
(pg. 27)	601.1 Conditioned floor area.			15	(M)
(pg. 28)	601.2 Material usage.			9	
(pg. 28)	601.3 Building dimensions and layouts.			13	
(pg. 28)	601.4 Framing and structural plans.			4	
(pg. 28)	601.5 Prefabricated components.			38	
(pg. 28)	601.6 Stacked stories.			8	4
(pg. 28)	601.7 Site-applied finishing materials.			12	2
(pg. 29)	601.8 Foundations.			3	
(pg. 29)	601.9 Above grade wall systems.			4	

602 ENHANCED DURABILITY AND REDUCED MAINTENANCE		I.	II.	III.	IV.
602.0 Intent. Design and construction practices are implemented that enhance the durability of materials and reduce in-service maintenance.					
(pg. 29)	602.1 Exterior doors.			5	3
(pg. 29)	602.2 Roof overhangs.			4	
(pg. 30)	602.3 Foundation drainage.	(M)		4	M
(pg. 30)	602.4 Drip edge.			3	3
(pg. 30)	602.5 Roof water discharge.			4	4
(pg. 30)	602.6 Finished grade.	(M)		4	M
(pg. 30)	602.7 Termitte barrier.			4	
(pg. 31)	602.8 Termitte-resistant materials.			6	
(pg. 31)	602.9 Water-resistive barrier.	(M)		4	M
(pg. 31)	602.10 Ice barrier.	(M)		4	M
(pg. 31)	602.11 Foundation waterproofing.			4	4
(pg. 32)	602.12 Flashing.			6	6
(pg. 32)	602.13 Roof surfaces.			3	
(pg. 32)	602.14 Recycling.			6	

603 REUSED OR SALVAGED MATERIALS		I.	II.	III.	IV.
603.0 Intent. Practices that reuse or modify existing structures, salvages materials for other uses, or use salvaged materials in the building's construction are implemented.					
(pg. 32)	603.1 Reused of existing building.			12	
(pg. 32)	603.2 Salvaged materials.			3	
(pg. 32)	603.3 Scrap materials.			4	

604 RECYCLED-CONTENT BUILDING MATERIALS		I.	II.	III.	IV.
(pg. 32)	604.1 Recycled content.			9	
605 RECYCLED CONSTRUCTION WASTE					
605.0 Intent. Waste generated during construction is recycled. All waste classified as hazardous shall be properly handled and disposed.					
(pg. 33)	605.1 Construction waste management plan.			6	
(pg. 33)	605.2 On-site recycling.			7	
(pg. 33)	605.1 Recycled construction materials.			6	

606 RENEWABLE MATERIALS		I.	II.	III.	IV.
606.0 Intent. Building materials derived from renewable resources are used.					
(pg. 33)	606.1 Biobased products.			8	
(pg. 34)	606.2 Wood-based products.			7	
(pg. 34)	606.3 Manufacturing energy.			6	
607 RESOURCE-EFFICIENT MATERIALS					
(pg. 34)	607.1 Resource-efficient materials.			9	6
608 INDIGENOUS MATERIALS					
(pg. 34)	608.1 Indigenous materials.			10	
609 LIFE CYCLE ANALYSIS					
(pg. 35)	609.1 Life cycle analysis.			15	
610 INNOVATIVE PRACTICES					
(pg. 35)	610.1 Manufacturer's environmental management system concepts.			10	

700 ENERGY EFFICIENCY

701 MINIMUM ENERGY EFFICIENCY REQUIREMENTS		I.	II.	III.	IV.
701.0 Intent. Building materials derived from renewable resources are used.					
(pg. 39)	701.1 Mandatory requirements.				
(pg. 39)	701.1.1 Minimum Performance Path requirements.				
(pg. 39)	701.1.2 Minimum Prescriptive Path requirements.				
(pg. 39)	701.1.3 Alternative bronze level compliance.				
(pg. 39)	701.2 Emerald level points.				
(pg. 39)	701.3 Adopting Entity review.				
(pg. 40)	701.4 Mandatory practices.				
(pg. 40)	701.4.1 HVAC systems.	(M)			M
(pg. 40)	701.4.2 Duct systems.	(M)			M
(pg. 41)	701.4.3 Insulation and air sealing.	(M)			M
(pg. 41)	701.4.4 Fenestration.	(M)			M
702 PERFORMANCE PATH					
(pg. 43)	702.1 Point allocation.	(M)			
(pg. 43)	702.2 Energy cost performance level.			120	
703 PRESCRIPTIVE PATH					
(pg. 44)	703.1 Building envelope. (Max points vary)				
(pg. 46)	703.2 Insulation and air sealing.			15	3
(pg. 48)	703.3 Fenestration.			12	
(pg. 49)	703.4 HVAC equipment efficiency. (Max points vary)				
(pg. 52)	703.5 Water heating design, equipment, and installation. (Max points vary)				
704 ADDITIONAL PRACTICES					
704.1 Application of additional practice points. Points from Section 704 can be added to points earned in Section 702 (Performance Path), Section 703 (Prescriptive Path), or Section 701.3 (alternative bronze level compliance).					

704 LIGHTING AND APPLIANCES		I.	II.	III.	IV.
(pg. 54)	704.2 Lighting and appliances.			29	
(pg. 56)	704.3 Renewable energy and solar heating and cooling. (Max points vary)				
(pg. 59)	704.4 Ducts.			52	
(pg. 60)	704.5 HVAC design and installation.			9	1
(pg. 60)	704.6 Installation and performance verification.			43	
705 INNOVATIVE PRACTICES					
(pg. 62)	705.1 Energy consumption control.			7	
(pg. 62)	705.2 Renewable energy service plan.			7	

800 WATER EFFICIENCY

801 INDOOR AND OUTDOOR WATER USE		I.	II.	III.	IV.
801.0 Intent. Measures that reduce indoor and outdoor water usage are implemented.					
(pg. 63)	801.1 Indoor hot water usage. (Max points vary)			6	
(pg. 64)	801.2 Water-conserving appliance.			14	
(pg. 64)	801.3 Food waste disposers.			1	
(pg. 65)	801.4 Showerheads.			5	
(pg. 65)	801.5 Faucets.			8	
(pg. 66)	801.6 Water closets and urinals. (M)			28	
(pg. 66)	801.7 Irrigation systems.			19	
(pg. 67)	801.8 Rainwater collection and distribution.			8	
(pg. 67)	801.9 Water filters.			1	
802 INNOVATIVE PRACTICES					
(pg. 68)	802.1 Gray water. (Max points vary)				
(pg. 68)	802.2 Composting or waterless toilets and/or urinals. (M)			24	
(pg. 68)	802.3 Automatic shutoff water devices.			2	

900 INDOOR ENVIRONMENTAL QUALITY

901 POLLUTANT SOURCE CONTROL		I.	II.	III.	IV.
901.0 Intent. Pollutant sources are controlled.					
(pg. 69)	901.1 Space and water heating options.			25	10
(pg. 70)	901.2 Fireplaces and fuel-burning appliances. (M)			7	
(pg. 71)	901.3 Garages. (M)			10	4
(pg. 71)	901.4 Wood materials. (M)			10	
(pg. 72)	901.5 Carpets. (M)			10	
(pg. 72)	901.6 Hard-surface flooring.			6	
(pg. 72)	901.7 Wall coverings.			4	
(pg. 73)	901.8 Architectural coatings.			13	
(pg. 73)	901.9 Adhes				

