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August 30, 2024

Project: 750 23rd Street S
Location: Arlington, VA 22202

RE: Establishing LEED Equivalency for NGBS Silver and DOE ZERH

The new building at 750 23rd Street S in Arlington, VA will achieve multiple green building certifications that include stringent field inspections and testing during construction to verify compliance. The building's certifications will include:

- 2020 National Green Building Standard (NGBS/ICC-700), Silver
- DOE Zero Energy Ready Home Multifamily v2 (ZERH MF v2)
- EPA Indoor airPLUS v1 (IAP)
- EPA ENERGY STAR Multifamily New Construction v1.2 (MFNC)

NGBS includes the same sustainability concepts as LEED for Homes, and this project meets the prerequisites for both certifications. The optional points are also in good alignment. Following are highlights of LEED certification requirements and the NGBS credits that will be achieved to meet them. The LEED section is named first, followed by the corresponding NGBS section name.

- **Integrative Process**
 - A comprehensive, knowledgeable project team has been convened to develop this property. The team members have experience with LEED, NGBS, Earthcraft, and ENERGY STAR Multifamily New Construction.
- **Location and Transportation // Lot Design, Preparation, and Development**
 - This property is compact, infill development, not in a flood hazard area or on sensitive land. There's a local bicycle network and the property is highly walkable to community resources.
- **Sustainable Sites // Lot Design, Preparation, and Development**
 - Soil disturbance and erosion will be minimized during construction. At completion, no invasive plant species will be introduced; native or regionally appropriate vegetation will be installed to promote biodiversity. To ensure low impact development, the hardscape will be limited to the building footprint, with parking provided underneath. The building will include a courtyard and green roofs to promote infiltration and reduce the heat island effect.
- **Water Efficiency // Water Efficiency**
 - Total water use will be significantly reduced beyond that of typical construction. WaterSense lavatory faucets, showerheads, and toilets and ENERGY STAR clothes washers will be installed. Given the native and regionally adapted plantings, no permanent irrigation system will be required or installed.
- **Energy and Atmosphere // Energy Efficiency**
 - The building's energy performance will be very good, with the thermal envelope exceeding the 2021 IECC prescriptive requirements. The hot water distribution system will be very efficient. The building will certify to both ENERGY STAR

Multifamily New Construction and also DOE Zero Energy Ready Home v2. ENERGY STAR refrigerators and clothes washers will be installed. All lighting will be LED, with controls provided on common space, commercial, and exterior lights. To promote post-occupancy operational efficiency, a comprehensive building operations and maintenance manual will be created for property management, and resident pamphlets that focus on sustainability will be provided. Ongoing third-party utility reporting will be maintained.

- Materials and Resources // Resource Efficiency
 - Enhanced durability will be in alignment with the ENERGY STAR Multifamily New Construction Water Management System. Water resistant flooring, certified shower backerboard, and preventative laundry water emergency measures will be installed. All wood in the building will be nontropical.

- Indoor Environmental Quality // Indoor Environmental Quality
 - The building will earn the EPA Indoor airPLUS label. Whole house mechanical ventilation will be provided for the dwelling units at minimum ASHRAE 62.2-2010 rates, and common spaces will be ventilated per 62.1-2010 or later. Bathroom and kitchens will exhaust to the exterior, and no combustion appliances will be installed within the building envelope. Comprehensive air sealing will be implemented, and it will be visually inspected and blower door tested. Low- and non-emitting insulation, paint, and flooring will be installed. The building will be non-smoking throughout.

- Innovation
 - The project team has received the preliminary rating, and subsequent meetings will ensure all project team members are aware of and implement their respective requirements.

Through implementation of these sustainability measures, the building will achieve LEED Gold performance.

Sincerely,



Thiel Butner, MBA, MFBA, BA/EP,
HERS Rater, NGBS Verifier, Phius Verifier



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ICC 700-2020 National Green Building Standard®

Summary of Results of the Design Phase

Scoring Tool Version: 5.2.21

Revision Date: 4/15/2024


Project Name: Wesley

Location: 750 23rd St S, Arlington, Virginia 22202

✓ No Mandatory items missing on the "Overview (Design)" page

	Points Required				Points Claimed	Mandatory Practices	No Errors
	Bronze	Silver	Gold	Emerald			
Chapter 5: Lot Design, Preparation, and Development	50	64	93	121	104	✓	✓
Chapter 6: Resource Efficiency	43	59	89	119	61	✓	✓
Chapter 7: Energy Efficiency	30	45	60	70	45	✓	✓
Chapter 8: Water Efficiency	25	39	67	92	63	✓	✓
Chapter 9: Indoor Environmental Quality	25	42	69	97	47	✓	✓
Chapter 10: Operation, Maintenance, and Building Owner Education	8	10	11	12	15	✓	✓
Additional Points required	50	75	100	100			
Additional points required due to SF over 4000 (601.1)	0	0	0	0			
Total points required	231	334	489	611	335		
Additional Points Claimed	154	76	(54)	(176)			
Overall Level Achieved for Design	Silver						

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Goal Level:	Silver	© Home Innovation Research Labs, Inc., 2020. All rights reserved. ICC 700-2020 NGBS®		Mandatory Information is missing on the Overview (Verification) page! There is mandatory information or practices missing from this Page!			
Points to Goal Level:	Ch5: 64, Ch6: 59, Ch7: 45, Ch8: 99, Ch9: 42, Ch10: 8	Version: 5.2.21	Home Address:				
Add'l Pts above goal level:	Ch5: 0, Ch6: 0, Ch7: 0, Ch8: 0, Ch9: 0, Ch10: 0	Rev. Date: 4/15/2024	Community/Lot #:				
Report Phase:	Rough						
Practice #	Practice	Points Available	Points Claimed	Points Awarded	Status	Verifier Notes	Design Phase Notes

500 LOT DESIGN, PREPARATION AND DEVELOPMENT

500.0 500.0 Intent. This section applies to lot development for the eventual construction of residential buildings, multifamily buildings, or additions thereto that contain dwelling units or sleeping units.

501 LOT SELECTION

501.1	501.1 Lot. Lot is selected in accordance with § 501.1(1) or § 501.1(2). A lot is selected within a site certified to this Standard or equivalent	15	10	0	Certified Site:		None
(1)	A lot is selected to minimize environmental impact by one or more of the following:						
(2)	(a) An infill lot is selected.	10					
	(b) A lot is selected that is a greyfield.	10					
	(c) An EPA-recognized brownfield lot is selected.	15					
501.2	501.2 Multi-modal transportation. A range of multi-modal transportation choices are promoted by one or more of the following:						None
(1)	A lot is selected within one-half mile (805 m) of pedestrian access to a mass transit system	6	6	0			23rd St S
(2)	A lot is selected within five miles (8,046 m) of a mass transit station with provisions for parking.	3	3	0			Diagonal Rd Kiss & Ride
(3)	Walkways, street crossings, and entrances designed to promote pedestrian activity are provided. New buildings are connected to existing sidewalks and areas of development.	5	5	0			None
(4)	A lot is selected within one-half mile (805 m) of six or more community resources. No more than two each of the following use category can be counted toward the total: Recreation, Retail, Civic, and Services. Examples of resources in each category include, but are not limited to the following: Recreation: recreational facilities (such as pools, tennis courts, basketball courts), parks. Retail: grocery store, restaurant, retail store. Civic: post office, place of worship, community center. Services: bank, daycare center, school, medical/dental office, laundromat/dry cleaners. NOTE: List the 6 community resources in the Notes field.	4	4	0			Recreation: Virginia Highlands Park, Nelly Custis Park Retail: McNamara's, Urban Thai Civic: Calvary United Methodist Church, Aurora Hills Recreation Center Services: Truist Bank, Vista Medical Center
	OR A lot is selected within a census block group that, compared to its region, has above-average neighborhood walkability using an index within the EPA's Smart Location Database:		0	0			None
(a)	Walkability is within the top quartile for the region.	5					
(b)	Walkability is within the second quartile for the region.	2					
(5)	Bicycle use is promoted by building on a lot located within a community that has rights-of-way specifically dedicated to bicycle use in the form of paved paths or bicycle lanes, or on an infill lot located within 1/2 mile of a bicycle lane designated by the jurisdiction.	5	5	0			S Eads St
(6)	Dedicated bicycle parking and racks are indicated on the site plan and constructed for mixed-use and multifamily buildings:		0	0			None
(a)	Minimum of 1 bicycle parking space per 3 residential units	2					
(b)	Minimum of 1 bicycle parking space per 2 residential units	4					
(c)	Minimum of 1 bicycle parking space per 1 residential unit.	6					
(d)	Bicycle enclosed storage is provided or parking spaces are covered or otherwise protected from the elements	2 per (a)-(c)	0	0			None
(7)	Select a lot in a community where there is access to shared vehicle usage such as carpool drop-off areas, car-share services, and shuttle services to mass transit. NOTE: Enter name of car sharing program.	5	0	0			None
(8)	Lot is within 1/2 mile walking distance of where a bike sharing program is provided. NOTE: Enter name of bike sharing program.	5	5	0			VEO & Lime (23rd & S Fern)

502 PROJECT TEAM, MISSION STATEMENT, AND GOALS

502.1 502.1 Project team, mission statement, and goals. A knowledgeable team is established and team member roles are identified with respect to green lot design, preparation, and development. The project's green goals and objectives are written into a mission statement.

503 LOT DESIGN

503.0	503.0 Intent. The lot is designed to avoid detrimental environmental impacts first, to minimize any unavoidable impacts, and to 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. (Points awarded only if the intent of the design is implemented.)						None
503.1	503.1 Natural resources. Natural resources are conserved by one or more of the following:						None
(1)	A natural resources inventory is completed under the direction of a qualified professional.	5	0	0			
(2)	A plan is implemented to conserve the elements identified by the natural resource inventory as high-priority resources.	6	0	0			
(3)	Items listed for protection in the natural resource inventory plan are protected under the direction of a qualified professional.	4	0	0			
(4)	Basic training in tree or other natural resource protection is provided for the on-site supervisor.	4	0	0			
(5)	All tree pruning on-site is conducted by a certified arborist or other qualified professional.	3	0	0			
(6)	Ongoing maintenance of vegetation on the lot during construction is in accordance with TCIA A300 or locally accepted best practices.	4	0	0			
(7)	Where a lot adjoins a landscaped common area, a protection plan from construction activities next to the common area is implemented.	5	0	0			
(8)	Developer has a plan to design and construct the lot in accordance with the International Wildland-Urban Interface Code (IWUIC). (Only applicable where the AHJ has not declared a wildland-urban interface area, but a fire protection engineer, certified fire marshal, or other qualified party has determined and documented the site as hazarded per the IWUIC.)	6	0	0			
503.2	503.2 Slope disturbance. Slope disturbance is minimized by one or more of the following: Note: Points are only available for lots with slopes of 25% or greater.				Max Slope in Const. Zn:		None
(1)	The use of terrain adaptive architecture	5	0	0			
(2)	Hydrological/soil stability study is completed and used to guide the design of all buildings on the lot.	5	0	0			
(3)	All or a percentage of driveways and parking are aligned with natural topography to reduce cut and fill.		0	0			
(a)	10 percent to < 25 percent	1					
(b)	25 percent to 75 percent	4					
(c)	greater than 75 percent	6					
(4)	Long-term erosion effects are reduced through the design and implementation of clustering, terracing, retaining walls, landscaping, or restabilization techniques.	6	0	0			
(5)	Underground parking uses the natural slope for parking entrances.	5	0	0			
503.3	503.3 Soil disturbance and erosion. Soil disturbance and erosion are minimized by one or more of the following: (also see Section 504.3) Note: Points must be earned in 503.3 in order for points in 504.1 to be available						None
(1)	Construction activities are scheduled such that disturbed soil that is to be left unworked for more than 21 days is stabilized within 14 days.	5	0	0			
(2)	At least 75% of total length of the utilities on the lot are designed to use one or more alternative means:						

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	(a) tunneling instead of trenching							
	(b) use of smaller (low ground pressure) equipment or geomats to spread the weight of construction equipment	5	0	0				
	(c) shared utility trenches or easements							
	(d) placement of utilities under paved surfaces instead of yards							
	(3) Limits of clearing and grading are demarcated on the lot plan.	5	5	0				
503.4	503.4 Stormwater Management. The stormwater management system is designed to use low impact development/green infrastructure practices to preserve, restore or mitigate changes in site hydrology due to land disturbance and the construction of impermeable surfaces through the use of one or more of the following techniques: NOTE: For lots in a development, the points for 503.4 may be awarded for the lot when there is a community storm water management plan implemented and the builder does not violate that plan with respect to water leaving the lot.							None
	(1) A site assessment is conducted and a plan prepared and implemented that identifies important existing permeable soils, natural drainage ways and other water features, e.g., depressional storage, onsite to be preserved in order to maintain site hydrology.	7	0	0				None
	(2) A hydrologic analysis is conducted that results in the design of a stormwater management system that maintains the pre-development (stable, natural) runoff hydrology of the site through the development or redevelopment process. Ensure that post construction runoff rate, volume and duration do not exceed predevelopment rates, volume and duration.	10	0	0				None
	(3) Low Impact Development/Green infrastructure stormwater management practices to promote infiltration and evapotranspiration are used to manage rainfall on the lot and prevent the off-lot discharge of runoff from all storms up to and including the volume of following storm events:			0	0			None
	(a) 80th percentile storm event	5						
	(b) 90th percentile storm event	8						
	(c) 95th percentile storm event	10						
	(4) Permeable materials are used for driveways, parking areas, walkways, patios, and recreational surfaces and the like according to the following percentages:		0	0				None
	(a) 10 percent to less than 25 percent (add 2 points for use of vegetative paving system)	5						
	(b) 25-50 percent (add 4 points for use of vegetative paving system)	8						
	(c) Greater than 50 percent (add 6 points for use of vegetative paving system)	10						
	[Points for vegetative paving systems are only awarded for locations receiving more than 20 inches per year of annual average precipitation]	0	0	0				None
	(5) Complete gutter and downspout system directs storm water away from foundation to vegetated landscape area, a raingarden, or catchment system that provides for water infiltration.	3	0	0				None
503.5	503.5 Landscape plan. A plan for the lot is developed to limit water and energy use while preserving or enhancing the natural environment. (Where "front" only or "rear" only plan is implemented, only half of the points (rounding down to a whole number) are awarded for Items (1)-(9))							None
	(1) A plan is formulated and implemented that protects, restores, or enhances natural vegetation on the lot.		0	0				None
	(a) 100 percent of the natural area	0						
	(b) 50 percent of the natural area	0						
	(c) 25 percent of the natural area	0						
	(d) 12 percent of the natural area	0						
	(2) Non-invasive vegetation that is native or regionally appropriate for local growing conditions is selected to promote biodiversity.	0	7	0				None
	(3) To improve pollinator habitat, at least 10 percent of planted areas are composed of native or regionally appropriate flowering and nectar producing plant species. Invasive plant species shall not be utilized.	0	0	0				None
	(4) EPA WaterSense Water Budget Tool or equivalent is used when implementing the site vegetative design.	0	0	0				None
	(5) Where turf is being planted, Turfgrass Water Conservation Alliance (TWCA) or equivalent as determined by the adopting entity third party qualified water efficient grasses are used.	0	0	0				None
	(6) For landscaped vegetated areas, the maximum percentage of turf area is:		0	0				None
	(a) 0 percent	0						
	(b) Greater than 0 percent to less than 20 percent	0						
	(c) 20 percent to less than 40 percent	0						
	(d) 40 percent to 60 percent	0						
	(7) Plants with similar watering needs are grouped (hydrozoning) and shown on the lot plan.	0	5	0				None
	(8) Summer shading by planting installed to shade a minimum of 30 percent of building walls. To conform to summer shading, the effective shade coverage (five years after planting) is the arithmetic mean of the shade coverage calculated at 10 am for eastward facing walls, noon for southward facing walls, and 3 pm for westward facing walls on the summer solstice.	0	0	0				None
	(9) Vegetative wind breaks or channels are designed to protect the lot and immediate surrounding lots as appropriate for local conditions.	0	0	0				None
	(10) Site or community generated tree trimmings or stump grinding of regionally appropriate trees are used on the lot to provide protective mulch during construction or for landscaping.	3	0	0				None
	(11) An integrated pest management plan is developed to minimize chemical use in pesticides and fertilizers.	4	0	0				None
	(12) Developer has a plan for removal or containment of invasive plants from the disturbed areas of the site.	3	0	0				None
	(13) Developer implements a plan for removal or containment of invasive plants on the undisturbed areas of the site.	6	0	0				None
503.6	503.6 Wildlife habitat. Measures are planned to support wildlife habitat and include at least two of the following:			0	0			None
	(1) Plants and gardens that encourage wildlife, such as bird and butterfly gardens.	3						
	(2) Inclusion of a certified "backyard wildlife" program.	3						
	(3) The lot is adjacent to a wildlife corridor, fish and game park, or preserved areas and is designed with regard for this relationship.	3						
	(4) Outdoor lighting techniques are utilized with regard for wildlife.	3						
503.7	503.7 Environmentally sensitive areas. The lot is in accordance with one or both of the following:		4	0				None
	(1) The lot does not contain any environmentally sensitive areas that are disturbed by the construction.	4						
	(2) On lots with environmentally sensitive areas, mitigation and/or restoration is conducted to preserve ecosystem functions lost through development and construction activities.	4						
503.8	503.8 Demolition of existing building. A demolition waste management plan is developed, posted at the jobsite, and implemented to recycle and/or salvage with a goal of recycling or salvaging a minimum of 50 percent of the nonhazardous demolition waste. (One additional point awarded for every 10 percent of nonhazardous demolition waste recycled and/or salvaged beyond 50 percent).	5	0	0				None
		1 additional						
504 LOT CONSTRUCTION								
504.0	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.							
504.1	504.1 On-site supervision and coordination. On-site supervision and coordination is provided during on-the-lot clearing, grading, trenching, paving, and installation of utilities to ensure that specified green development practices are implemented. (also see Section 503.3)	4	0	0				None
	NOTE: Points must be taken in 503.3 to claim points in 504.1.							
504.2	504.2 Trees and vegetation. Designated trees and vegetation are preserved by one or more of the following:							None
	(1) Fencing or equivalent is installed to protect trees and other vegetation.	3	3	0				

	(2)	Trenching, significant changes in grade, and compaction of soil and critical root zones in all "tree save" areas as shown on the lot plan are avoided.	5	0	0	<input type="checkbox"/>			
	(3)	Damage to designated existing trees and vegetation is mitigated during construction through pruning, root pruning, fertilizing, and watering.	4	0	0	<input type="checkbox"/>			
504.3		504.3 Soil disturbance and erosion implementation. On-site soil disturbance and erosion are minimized by one or more of the following in accordance with the SWPPP or applicable plan: (also see Section 503.3)						None	
	(1)	Sediment and erosion controls are installed on the lot and maintained in accordance with the stormwater pollution prevention plan, where required.	5	5	0	<input type="checkbox"/>		None	
	(2)	Limits of clearing and grading are staked out on the lot.	5	5	0	<input type="checkbox"/>		None	
	(3)	"No disturbance" zones are created using fencing or flagging to protect vegetation and sensitive areas on the lot from construction activity.	5	0	0	<input type="checkbox"/>		None	
	(4)	Topsoil from either the lot or the site development is stockpiled and stabilized for later use and used to establish landscape plantings on the lot.	5	0	0	<input type="checkbox"/>		None	
	(5)	Soil compaction from construction equipment is reduced by distributing the weight of the equipment over a larger area (laying lightweight geogrids, mulch, chipped wood, plywood, OSB, metal plates, or other materials capable of weight distribution in the pathway of the equipment).	4	0	0	<input type="checkbox"/>		None	
	(6)	Disturbed areas on the lot that are complete or to be left unworked for 21 days or more are stabilized within 14 days using methods as recommended by the EPA or in the approved SWPPP, where required.	3	0	0	<input type="checkbox"/>		None	
	(7)	Soil is improved with organic amendments or mulch.	3	3	0	<input type="checkbox"/>		None	
	(8)	Utilities on the lot are installed using one or more alternative means: tunneling instead of trenching, use of smaller equipment, use of low ground pressure equipment, use of geomats, shared utility trenches or easements, other. NOTE: List "other" means of installing utilities in the assigned Notes area.	5	0	0	<input type="checkbox"/>		None	
	(9)	Inspection reports of stormwater best management practices are available.	3	0	0	<input type="checkbox"/>		None	
505 INNOVATIVE PRACTICES									
505.0		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 is used to implement such practices.							
505.1		505.1 Driveways and parking areas. Driveways and parking areas are minimized or mitigated by one or more of the following:							
	(1)	Off-street parking areas are shared or driveways are shared. Waivers or variances from local regulations are obtained to implement such practices, if required.	5	0	0	<input type="checkbox"/>		None	
	(2)	In a multifamily project, parking capacity does not exceed the local minimum requirements.	5	5	0	<input type="checkbox"/>		None	
	(3)	Structured parking is utilized to reduce the footprint of surface parking areas.	4	6	0	<input type="checkbox"/>		Podium over Garage for all spaces	
	(a)	25 percent to less than 50 percent	5						
	(b)	50 percent to 75 percent	5						
	(c)	greater than 75 percent	6						
505.2		505.2 Heat island mitigation. Heat island effect is mitigated by the following:							
	(1)	Hardscape: Not less than 50 percent of the surface area of the hardscape on the lot meets one or a combination of the following methods.	5	0	0	<input type="checkbox"/>		None	
	(a)	Shading of hardscaping: Shade is provided from existing or new vegetation (within five years) or from trellises. Shade of hardscaping is to be measured on the summer solstice at noon.				<input type="checkbox"/>			
	(b)	Light-colored hardscaping: Horizontal hardscaping materials are installed with a solar reflectance index (SRI) of 29 or greater. The SRI is calculated in accordance with ASTM E1980. A default SRI value of 35 for new concrete without added color pigment is permitted to be used instead of measurements.				<input type="checkbox"/>			
	(c)	Permeable hardscaping: Permeable hardscaping materials are installed.				<input type="checkbox"/>			
	(2)	Roofs: Not less than 75 percent of the exposed surface of the roof is vegetated using technology capable of withstanding the climate conditions of the jurisdiction and the microclimate conditions of the building lot. Invasive plant species are not permitted.	5	0	0	<input type="checkbox"/>		None	
505.3		505.3 Density. The average density on the lot on a net developable area basis is:		6	0	<input type="checkbox"/>		Confirm final unit count, appx 3 acres	
	(1)	7 to less than 14 dwelling units/sleeping units per acre (per 4,047 m ²)	4						
	(2)	14 to less than 21 dwelling units/sleeping units per acre (per 4,047 m ²)	5						
	(3)	21 to less than 35 dwelling units/sleeping units per acre (per 4,047 m ²)	6						
	(4)	35 to less than 70 dwelling units/sleeping units per acre (per 4,047 m ²)	7						
	(5)	70 or greater dwelling units/sleeping units per acre (per 4,047 m ²)	8						
505.4		505.4 Mixed-use development.							
	(1)	The lot contains a mixed-use building.	8	0	0	<input type="checkbox"/>		Confirm what kind of mixed use, talks of offices & classrooms	
505.5		505.5 Multifamily & mixed-use community garden(s). A portion of the lot is established as a community garden(s), available to residents of the lot, to provide for local food production to residents or area consumers.							
	(a)	A portion of the lot of at least 250 sq ft is established as community garden(s) for the residents of the site. [*3 points per 250 sq ft]	9 max	0	0	<input type="checkbox"/>	Community Garden (sf):	None	
	(b)	Locate the project within a 0.5-mile walking distance of an existing or planned farmers market/ farm stand that is open or will operate at least once a week for at least five months of the year.	3	0	0	<input type="checkbox"/>		None	
	(c)	Areas and physical provisions are provided for composting.	1	0	0	<input type="checkbox"/>		None	
	(d)	Signs designating the garden area are posted.	1	0	0	<input type="checkbox"/>		None	
505.6		505.6 Multi-Unit Plug-In Electric Vehicle Charging. Plug-in electric vehicle charging capability is provided for not fewer than 2 percent of parking stalls. [An additional 2 points can be earned for each percentage point above 2% for a maximum of 10 points]	4 (10 max)	0	0	<input type="checkbox"/>		None	
		Fractional values shall be rounded up to the nearest whole number. Electrical capacity in main electric panels supports Level 2 charging (208/240V- up to 80 amps or in accordance with SAE J1772). Each stall is provided with conduit and wiring infrastructure from the electric panel to support Level 2 charging (208/240V- up to 80 amps or in accordance with SAE J1772) service to the designated stalls, and stalls are equipped with either Level 2 charging AC grounded outlets (208/240V- up to 80 amps or in accordance with SAE J1772) or Level 2 charging stations (208/240V- up to 80 amps or in accordance with SAE J1772) by a third party charging station.							
		NOTE: SF/BTR homes are also eligible if 2% or more of the total of shared/communal/visitor parking stalls in the development/community have plug-in electric vehicle charging capability.							
505.7		505.7 Multi-unit residential CNG vehicle fueling. CNG vehicle residential fueling appliances are provided for at least 1 percent of the parking stalls. The CNG fueling appliances shall be listed in accordance with ANSI/CSA NGV 5.1 and installed in accordance with the appliance manufacturer's installation instructions.	4	0	0	<input type="checkbox"/>		None	
		NOTE: Single-Family/Build-to-Rent homes are also eligible if 1% of the shared/communal/visitor parking stalls in the development have residential CNG vehicle refueling.							
505.8		505.8 Street network. Locate the project in an area of high intersection density.	5	5	0	<input type="checkbox"/>		None	
505.9		505.9 Smoking prohibitions. Signs are provided on multifamily and mixed-use lots prohibiting smoking at the following locations:					Build-to-Rent?		
		NOTE: Build-to-rent homes are also eligible for (a), (b) and (c) if smoking is prohibited and signs posted for all homes in the development/community. SF homes for sale are not eligible.							
	(a)	Smoking is prohibited within 25 feet (7.5 m) of all building exterior doors and operable windows				<input type="checkbox"/>		None	

	or building air intakes within 15 (4.5 m) vertical feet of grade or a walking surface.	3	0	0		
(b)	Smoking is prohibited on decks, balconies, patios and other occupied exterior spaces.	3	0	0		None
(c)	Smoking is prohibited at all parks, playgrounds, and community activity or recreational spaces.	3	0	0		None
505.10	505.10 Exercise & Recreation Area. For multifamily buildings, on-site dedicated recreation space for exercise or play opportunities for adults and/or children open and accessible to residents is provided.					
(a)	A dedicated area of at least 400 square feet is provided inside the building with adult exercise and/or children's play equipment.	3	3	0		2763 SF
(b)	A courtyard, garden, terrace, or roof space at least 10% of the lot area that can serve as outdoor space for children's play and /or adult activities is provided.	3	0	0		Right at 10%, confirm once plans progress
(c)	Active play/recreation areas are illuminated at night to extend opportunities for physical activity into the evening.	3	0	0		None

601 QUALITY OF CONSTRUCTION MATERIALS AND WASTE

601.0	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.						
601.1	601.1 Conditioned floor area. Finished floor area of a dwelling unit or sleeping unit is limited. Finished floor area is calculated in accordance with ANSI Z765 for single family and ANSI/BOMA 265.4 for multifamily buildings. Only the finished floor area for stories above grade plane is included in the calculation. [For every 100 square feet (9.29 m2) over 4,000 square feet (372 m2), one point is to be added to rating level points shown in Table 303, Category 7 for each rating level.]	9	0	0			None
	(1) less than or equal to 700 square feet (65 m ²)	14					
	(2) less than or equal to 1,000 square feet (93 m ²)	12					
	(3) less than or equal to 1,500 square feet (139 m ²)	9					
	(4) less than or equal to 2,000 square feet (186 m ²)	6					
	(5) less than or equal to 2,500 square feet (232 m ²)	3					
	(6) greater than 4,000 square feet (372 m ²)	N/A					
	[For every 100 square feet (9.29 m ²) over 4,000 square feet (372 m ²), one point is to be added to rating level points shown in Table 303, Category 7 for each rating level.]						
	Multifamily Building Note: For a multifamily building, a weighted average of the individual unit sizes is used for this practice.						
601.2	601.2 Material usage. Structural systems are designed or construction techniques are implemented that reduce and optimize material usage.						
	(1) Minimum structural member or element sizes necessary for strength and stiffness in accordance with advanced framing techniques or structural design standards are selected.	3	0	0			None
	(2) Higher-grade or higher-strength of the same materials than commonly specified for structural elements and components in the building are used and element or component sizes are reduced accordingly.	3	0	0			None
	(3) Performance-based structural design is used to optimize lateral force-resisting systems.	3	0	0			None
601.3	601.3 Building dimensions and layouts. Building dimensions and layouts are designed to reduce material cuts and waste. This practice is used for a minimum of 80 percent of the following areas:						
	(1) floor area	3	3	0			None
	(2) wall area	3	0	0			None
	(3) roof area	3	3	0			None
	(4) cladding or siding area	3	0	0			None
	(5) penetrations or trim area	1	0	0			None
601.4	601.4 Framing and structural plans. Detailed framing or structural plans, material quantity lists and on-site cut lists for framing, structural materials, and sheathing materials are provided.	4	0	0			None
601.5	601.5 Prefabricated components. Precut or preassembled components, or panelized or precast assemblies are utilized for a minimum of 90 percent for the following system or building:	13 Max					
	(1) floor system	4	4	0			None
	(2) wall system	4	0	0			None
	(3) roof system	4	4	0			None
	(4) modular construction for the entire building located above grade	13	0	0			None
	(5) manufactured home construction for the entire building located above grade	13	0	0			None
601.6	601.6 Stacked stories. Stories above grade are stacked, such as in 1½-story, 2-story, or greater structures. The area of the upper story is a minimum of 50 percent of the area of the story below based on areas with a minimum ceiling height of 7 feet (2,134 mm).	8 Max	8	0		from overview: no stacked stories	None
	(1) first stacked story	4					
	(2) for each additional stacked story	2					
601.7	601.7 Prefinished materials. Prefinished building materials or assemblies listed below have no additional site-applied finishing material are installed. (Points awarded for each type of material or assembly.)	12 Max	0	0			None
	(a) interior trim not requiring paint or stain						
	(b) exterior trim not requiring paint or stain						
	(c) window, skylight, and door assemblies not requiring paint or stain on one of the following surfaces: i. exterior surfaces ii. interior surfaces						
	(d) interior wall coverings or systems, floor systems, and/or ceiling systems not requiring paint or stain or other type of finishing application						
	(e) exterior wall coverings or systems, floor system, and/or ceiling systems not requiring paint or stain or other type of finishing application						
	(1) 90 percent or more of the installed building materials or assemblies listed above:	5					
	(2) 50 percent to less than 90 percent of the installed building material or assembly listed above:	2					
	(3) 35 percent to less than 50 percent of the installed building material or assembly listed above:	1					
601.8	601.8 Foundations. A foundation system that minimizes soil disturbance, excavation quantities, and material usage, such as frost-protected shallow foundations, isolated pier and pad foundations, deep foundations, post foundations, or helical piles is selected, designed, and constructed. The foundation is used on 50 percent or more of the building footprint.	3	0	0			None
	NOTE: Indicate in the assigned Notes area the type designed and constructed: frost-protected shallow foundations, pier and pad foundations, post foundations, or other similar foundation type.						

602 ENHANCED DURABILITY AND REDUCED MAINTENANCE

602.0	602.0 Intent. Design and construction practices are implemented that enhance the durability of materials and reduce in-service maintenance.						
602.1	602.1 Moisture Management – Building Envelope						
602.1.1	602.1.1 Capillary breaks						
602.1.1.1	602.1.1.1 A capillary break and vapor retarder are installed at concrete slabs in accordance with ICC IRC Sections R506.2.2 and R506.2.3 or ICC IBC Sections 1907 and 1805.4.1.	Mandatory					None
602.1.1.2	602.1.1.2 A capillary break between the footing and the foundation wall is provided to prevent moisture migration into foundation wall.	3	3	0			None
602.1.2	602.1.2 Foundation waterproofing. Enhanced foundation waterproofing is installed using one or both of the following:						
	(1) rubberized coating, or	4	0	0			
	(2) drainage mat						
602.1.3	602.1.3 Foundation drainage						
602.1.3.1	602.1.3.1 Where required by the ICC IRC or IBC for habitable and usable spaces below grade, exterior drain tile is installed.	N/A					None
602.1.3.2	602.1.3.2 Interior and exterior foundation perimeter drains are installed and sloped to discharge to daylight, dry well, or sump pit.	4	0	0			None
602.1.4	602.1.4 Crawlspace						
602.1.4.1	602.1.4.1 Vapor retarder in unconditioned vented crawlspace is in accordance with the following, as applicable. Joints of vapor retarder overlap a minimum of 6 inches (152 mm) and are taped.						
	(1) Floors. Minimum 6 mil vapor retarder installed on the crawlspace floor and extended at least 6 inches up the wall and is attached and sealed to the wall.	6	0	0			None
	(2) Walls. Dampproof walls are provided below finished grade.	N/A					None
602.1.4.2	602.1.4.2 Crawlspace that is built as a conditioned area is sealed to prevent outside air infiltration and provided with conditioned air at a rate not less than 0.02 cfm (.009 L/s) per square foot of						

	horizontal area and one of the following is implemented:								
(1)	a concrete slab over 6 mil polyethylene sheeting. Or other Class I vapor retarder installed in accordance with Section 408.3 or Section 506 of the International Residential Code	8	0	0					None
(2)	6 mil polyethylene sheeting, or other Class I vapor retarder installed in accordance with Section 408.3 or Section 506 of the International Residential Code	N/A							None
602.1.5	602.1.5 Termite barrier. Continuous physical foundation termite barrier provided: See Figure 6(3)							termite infest. prob.:	None
(1)	In geographic areas that have moderate to heavy infestation potential in accordance with figure 6(3), a no or low toxicity treatment is also installed.	4	0	0					
(2)	In geographic areas that have a very heavy infestation potential in accordance with figure 6(3), in addition a low toxicity bait and kill termite treatment plan is selected and implemented.	4	0	0					
602.1.6	602.1.6 Termite-resistant materials. In areas of termite infestation probability as defined by Figure 6(3), termite-resistant materials are used as follows: See Figure 6(3)								
(1)	In areas of slight to moderate termite infestation probability: for the foundation, all structural walls, floors, concealed roof spaces not accessible for inspection, exterior decks, and exterior claddings within the first 2 feet (610 mm) above the top of the foundation.	2	0	0					None
(2)	In areas of moderate to heavy termite infestation probability: for the foundation, all structural walls, floors, concealed roof spaces not accessible for inspection, exterior decks, and exterior claddings within the first 3 feet (914 mm) above the top of the foundation.	4	4	0					
(3)	In areas of very heavy termite infestation probability: for the foundation, all structural walls, floors, concealed roof spaces not accessible for inspection, exterior decks, and exterior claddings.	6	0	0					
602.1.7	602.1.7 Moisture control measures								
602.1.7.1	602.1.7.1 Moisture control measures are in accordance with the following:								
(1)	Building materials with visible mold are not installed or are cleaned or encapsulated prior to concealment and closing.	2	2	0					None
(2)	Insulation in cavities is dry in accordance with manufacturer's instructions when enclosed (e.g., with drywall). NOTE: If "N/A" is selected, explain why in the assigned Notes area.	Mandatory 2	2	0					Pando Inspections
(3)	The moisture content of lumber is sampled to ensure it does not exceed 19 percent prior to the surface and/or cavity enclosure.	4	0	0					None
602.1.7.2	602.1.7.2 Moisture content of subfloor, substrate, or concrete slabs is in accordance with the appropriate industry standard for the finish flooring to be applied.	2	0	0					None
602.1.7.3	602.1.7.3 Building envelope assemblies are designed for moisture control based on documented hygrothermal simulation or field study analysis. Hygrothermal analysis is required to incorporate representative climatic conditions, interior conditions and include heating and cooling seasonal variation.	4	0	0					None
602.1.8	602.1.8 Water-resistive barrier. Where required by the ICC, IRC, or IBC, a water-resistive barrier and/or drainage plane system is installed behind exterior veneer and/or siding. NOTE: If "N/A" is selected, explain why in the assigned Notes area.	Mandatory							None
602.1.9	602.1.9 Flashing. Flashing is provided as follows to minimize water entry into wall and roof assemblies and to direct water to exterior surfaces or exterior water-resistive barriers for drainage. Flashing details are provided in the construction documents and are in accordance with the fenestration manufacturer's instructions, the flashing manufacturer's instructions, or as detailed by a registered design professional.								
(1)	Flashing is installed at all of the following locations, as applicable: (a) around exterior fenestrations, skylights, and doors (b) at roof valleys (c) at all building-to-deck, -balcony, -porch, and -stair intersections (d) at roof-to-wall intersections, at roof-to-chimney intersections, at wall-to-chimney intersections, and at parapets (e) at ends of and under masonry, wood, or metal copings and sills (f) above projecting wood trim (g) at built-in roof gutters, and (h) drip edge is installed at eave and rake edges.	Mandatory							None
(2)	All window and door head and jamb flashing is either self-adhered flashing complying with AAMA 711-13 or liquid applied flashing complying with AAMA 714-15 and installed in accordance with fenestration or flashing manufacturer's installation instructions.	2	2	0					None
(3)	Pan flashing is installed at sills of all exterior windows and doors.	3	3	0					None
(4)	Seamless, preformed kickout flashing, or prefabricated metal with soldered seams is provided at all roof-to-wall intersections. The type and thickness of the material used for roof flashing including but not limited to kickout and step flashing is commensurate with the anticipated service life of the roofing material.	3	0	0					None
(5)	A rainscreen wall design as follows is used for exterior wall assemblies (a) a system designed with minimum 1/4-inch air space exterior to the water-resistive barrier, vented to the exterior at top and bottom of the wall, and integrated with flashing details. OR (b) a cladding material or a water-resistive barrier with enhanced drainage, meeting 75 percent drainage efficiency determined in accordance with ASTM E2273.	4	4	0					None
(6)	Through-wall flashing is installed at transitions between wall cladding materials or wall construction types.	2	0	0					None
(7)	Flashing is installed at expansion joints in stucco walls.	2	0	0					None
602.1.10	602.1.10 Exterior doors. Entries at exterior door assemblies, inclusive of side lights (if any), are covered by one of the following methods to protect the building from the effects of precipitation and solar radiation. Either a storm door or a projection factor of 0.375 minimum is provided. Eastern- and western-facing entries in Climate Zones 1, 2, and 3, as determined in accordance with Figure 6(1) or Appendix A, have either a storm door or a projection factor of 1.0 minimum, unless protected from direct solar radiation by other means (e.g., screen wall, vegetation). This Project's Climate Zone: !!	2 per exterior door 6 Max	0	0					None
(a)	installing a porch roof or awning								
(b)	extending the roof overhang								
(c)	recessing the exterior door								
(d)	Installing a storm door Note: The pedestrian door protected in a garage leading to living space does not qualify for points.								
602.1.11	602.1.11 Tile backing materials. Tile backing materials installed under tiled surfaces in wet areas are in accordance with ASTM C1178, C1278, C1288, or C1325.	Mandatory							None
602.1.12	602.1.12 Roof overhangs. Roof overhangs, in accordance with Table 602.1.12, are provided over a minimum of 90 percent of exterior walls to protect the building envelope. See Table 602.1.12	4	0	0					None
602.1.13	602.1.13 Ice barrier. In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier is installed in accordance with the ICC IRC or IBC at roof eaves of pitched roofs and extends a minimum of 24 inches (610 mm) inside the exterior wall line of the building.	Mandatory							None
602.1.14	602.1.14 Architectural features. Architectural features that increase the potential for water intrusion are avoided:								
(1)	All horizontal ledgers are sloped away to provide gravity drainage as appropriate for the application.	Mandatory 1	1	0					None
(2)	No roof configurations that create horizontal valleys in roof design.	2	2	0					None
(3)	No recessed windows and architectural features that trap water on horizontal surfaces.	2	2	0					None
602.1.15	602.1.15 Kitchen and vanity cabinets. All kitchen and vanity cabinets are certified in accordance with the ANSI/KCMA A161.1 performance standard or equivalent. NOTE: Identify what product was used in the assigned Notes area.	2	0	0					None
602.2	602.2 Roof surfaces. A minimum of 90 percent of roof surfaces, not used for roof penetrations								

	and associated equipment, on-site renewable energy systems such as photovoltaics or solar thermal energy collectors, or rooftop decks, amenities and walkways, are constructed of one or more of the following:	3	0	0			
(1)	products that are in accordance with the ENERGY STAR® cool roof certification or equivalent						None
(2)	a vegetated roof system						None
(3)	Minimum initial SRI of 78 for low-sloped roof (a slope less than 2:12) and a minimum initial SRI of 29 for a steep-sloped roof (a slope equal to or greater than 2:12). The SRI is calculated in accordance with ASTM E1980. Roof products are certified and labeled.						None
602.3	602.3 Roof water discharge. A gutter and downspout system or splash blocks and effective grading are provided to carry water a minimum of 5 feet (1524 mm) away from perimeter foundation walls.	4	4	0			None
602.4	602.4 Finished grade.						
602.4.1	602.4.1 Finished grade at all sides of a building is sloped to provide a minimum of 6 inches (150 mm) of fall within 10 feet (3048 mm) of the edge of the building. Where lot lines, walls, slopes, or other physical barriers prohibit 6 inches (152 mm) of fall within 10 feet (3048 mm), the final grade is sloped away from the edge of the building at a minimum slope of 2 percent.	Mandatory					None
602.4.2	602.4.2 The final grade is sloped away from the edge of the building at a minimum slope of 5 percent.	1	0	0			None
602.4.3	602.4.3 Water is directed to drains or swales to ensure drainage away from the structure.	1	0	0			None
603 REUSED OR SALVAGED MATERIALS							
603.0	603.0 Intent. Practices that reuse or modify existing structures, salvage materials for other uses, or use salvaged materials in the building's construction are implemented.						
603.1	603.1 Reuse of existing building. Major elements or components of existing buildings and structures are reused, modified, or deconstructed for later use. (Points awarded for every 200 square feet (18.5 m ²) of floor area.) NOTE: Describe materials used in the assigned Notes area. Materials, elements, or components awarded points under Section 603.1 shall not be awarded points under Section 603.2.	1 12 Max	0	0			None
603.2	603.2 Salvaged materials. Reclaimed and/or salvaged materials and components are used. The total material value and labor cost of salvaged materials is equal to or exceeds 1 percent of the total construction cost. (Points awarded per 1% of salvaged materials used based on the total construction cost.) NOTE: Describe materials used in the assigned Notes area. Materials, elements, or components awarded points under Section 603.1 shall not be awarded points under Section 603.2.	1 9 Max	0	0			None
603.3	603.3 Scrap materials. Sorting and reuse of scrap building material is facilitated (e.g., a central storage area or dedicated bins are provided). NOTE: Indicate in the assigned Notes area what salvage materials were sorted for reuse.	4	0	0			None
604 RECYCLED-CONTENT BUILDING MATERIALS							
604.1	604.1 Recycled content. Building materials with recycled content are used for two minor and/or two major components of the building. Enter material percent recycled content. See Table 604.1 NOTE: In the assigned Notes area, list materials used for minor and/or major building components.	per Table 604.1	0	0		First Minor Comp.: Second Minor Comp.: First Major Comp.: Second Major Comp.:	None None None None
605 RECYCLED CONSTRUCTION WASTE							
605.0	605.0 Intent. Waste generated during construction is recycled.						
605.1	605.1 Hazardous waste. The construction and waste management plan shall include information on the proper handling and disposal of hazardous waste. Hazardous waste is properly handled and disposed.	Mandatory					None
605.2	605.2 Construction waste management plan. A construction waste management plan is developed, posted at the jobsite, and implemented diverting, through reuse, salvage, recycling, or manufacturer reclamation, a minimum of 50 percent (by weight) of nonhazardous construction and demolition waste from disposal. For this practice, land clearing debris is not considered construction waste. Materials used as alternative daily cover are considered construction waste and do not count toward recycling or salvaging. For buildings following the new construction path that also have a renovation component, the waste management plan includes the recycling of 95 percent of electronic waste components (such as printed circuit boards from computers, building automation systems, HVAC, fire and security control boards) by an E-Waste recycling facility. Exceptions: (1) Waste materials generated from land clearing, soil and sub-grade excavation and vegetative debris shall not be in the calculations. (2) A recycling facility (traditional or E-Waste) offering material receipt documentation is not available within 50 miles of the jobsite.	6	0	0			None
605.3	605.3 On-site recycling. On-site recycling measures following applicable regulations and codes are implemented, such as the following: (a) Materials are ground or otherwise safely applied on-site as soil amendment or fill. A minimum of 50 percent (by weight) of construction and land-clearing waste is diverted from landfill. (b) Alternative compliance methods approved by the Adopting Entity. (c) Compatible untreated biomass material (lumber, posts, beams, etc.) are set aside for combustion if a solid fuel-burning appliance per Section 901.2.1(2) will be available for on-site renewable energy.	7	0	0			None
605.4	605.4 Recycled construction materials. Construction materials (e.g., wood, cardboard, metals, drywall, plastic, asphalt roofing shingles, or concrete) are recycled offsite. (1) a minimum of two types of materials are recycled (2) for each additional recycled material type	6 Max 3 1	0	0			None
	(a) wood						None
	(b) cardboard						None
	(c) metals						None
	(d) drywall						None
	(e) plastic						None
	(f) asphalt roofing shingles						None
	(g) concrete						None
	(h) other						None
	(i) other						None
	NOTE: List "other" types of materials recycled in the assigned Notes area.						
606 RENEWABLE MATERIALS							
606.0	606.0 Intent. Building materials derived from renewable resources are used.						
606.1	606.1 Biobased products. The following biobased products are used: (a) certified solid wood in accordance with Section 606.2 (b) engineered wood (c) bamboo (d) cotton (e) cork (f) straw (g) natural fiber products made from crops (soy-based, corn-based) (h) other biobased materials with a minimum of 50 percent biobased content (by weight or volume) Note: Please list "other biobased materials" used in the Notes field		0	0			None
(1)	Two types of biobased materials are used, each for more than 0.5 percent of the project's projected building material cost.	3					None

	(2)	Two types of biobased materials are used, each for more than 1 percent of the project's projected building material cost.	6				
	(3)	For each additional biobased material used for more than 0.5 percent of the project's projected building material cost.	1 2 Max				
606.2		606.2 Wood-based products. Wood or wood-based products are certified to the requirements of one of the following: (a) American Forest Foundation's <i>American Tree Farm System</i> ® (ATFS) (b) Canadian Standards Association's <i>Sustainable Forest Management System Standards</i> (CSA 2809) (c) <i>Forest Stewardship Council</i> (FSC) (d) <i>Program for Endorsement of Forest Certification Systems</i> (PEFC) (e) <i>Sustainable Forestry Initiative</i> ® Program (SFI) (f) National Wood Flooring Association's Responsible Procurement Program (RPP) (g) other product programs mutually recognized by PEFC (h) A manufacturer's fiber procurement system that has been audited by an approved agency as compliant with the provisions of ASTM D7612 as a responsible or certified source. Government or tribal forestlands whose water protection programs have been evaluated by an approved agency as compliant with the responsible source designation of ASTM D7612 are exempt from auditing in the manufacturers' fiber procurement system.					
	(1)	A minimum of two responsible or certified wood-based products are used for minor components of the building. Note: Please list products and components in the Notes fields	3	0	0	Program(s): []	None None
	(2)	A minimum of two responsible or certified wood-based products are used in major components of the building. Note: Please list products and components in the Notes fields	4	0	0	[]	None None
606.3		606.3 Manufacturing energy. Materials manufactured using a minimum of 33 percent of the primary manufacturing process energy derived from (1) renewable sources, (2) combustible waste sources, or (3) renewable energy credits (RECs) are used for major components of the building. (2 points awarded per material.) Note: Please list materials in the Notes field	6 Max	0	0	[]	None
607 RECYCLING AND WASTE REDUCTION							
607.1		607.1 Recycling and composting. Recycling and composting by the occupant are facilitated by one or more of the following methods: (1) A readily accessible space(s) for recyclable material containers is provided and identified on the floorplan of the house or dwelling unit or a readily accessible area(s) outside the living space is provided for recyclable material containers and identified on the site plan for the house or building. The area outside the living space shall accommodate recycling bin(s) for recyclable materials accepted in local recycling programs. (2) A readily accessible space(s) for compostable material containers is provided and identified on the floorplan of the house or dwelling unit or a readily accessible area(s) outside the living space is provided for compostable material containers and identified on the site plan for the house or building. The area outside the living space shall accommodate composting container(s) for locally accepted materials, or, accommodate composting container(s) for on-site composting.					
	(1)	A readily accessible space(s) for recyclable material containers is provided and identified on the floorplan of the house or dwelling unit or a readily accessible area(s) outside the living space is provided for recyclable material containers and identified on the site plan for the house or building. The area outside the living space shall accommodate recycling bin(s) for recyclable materials accepted in local recycling programs.	2	0	0	[]	None
	(2)	A readily accessible space(s) for compostable material containers is provided and identified on the floorplan of the house or dwelling unit or a readily accessible area(s) outside the living space is provided for compostable material containers and identified on the site plan for the house or building. The area outside the living space shall accommodate composting container(s) for locally accepted materials, or, accommodate composting container(s) for on-site composting.	4	0	0	[]	None
607.2		607.2 Food waste disposers. A minimum of one food waste disposer is installed at the primary kitchen sink.	1	1	0	[]	None
608 RESOURCE-EFFICIENT MATERIALS							
608.1		608.1 Resource-efficient materials. Products containing fewer materials are used to achieve the same end-use requirements as conventional products, including but not limited to: (1) lighter, thinner brick with bed depth less than 3 inches and/or brick with coring of more than 25 percent (2) engineered wood or engineered steel products (3) roof or floor trusses NOTE: In the assigned Notes area, describe the types of products that comply with 608.1.	9 Max 3 per material	0	0	[]	None
609 REGIONAL MATERIALS							
609.1		609.1 Regional materials. Regional materials are used for major and/or minor components of the building. (1) Major component (2) Minor component For a component to comply with this practice, a minimum of 75 percent of all products in that component category must be sourced regionally, e.g., stone veneer category – 75 percent or more of the stone veneer on a project must be sourced regionally. NOTE: In the assigned Notes areas, list major and minor materials used that comply with 609.1.	10 Max			# of major components: [] # of minor components: []	None None
610 LIFE CYCLE ASSESSMENT							
610.1		610.1 Life cycle assessment. A life cycle assessment (LCA) tool is used to select environmentally preferable products, assemblies, or, entire building designs. Points are awarded in accordance with Section 610.1.1 or 610.1.2. Only one method of analysis or tool may be utilized. The reference service life for the building is 60 years for any life cycle analysis tool. Results of the LCA are reported in the manual required in Section 1001.1 or 1002.1(1) of this Standard in terms of the environmental impacts listed in this practice and it is stated if operating energy was included in the LCA. NOTE: Identify the LCA tool utilized and the person who completed the analysis.					None
610.1.1		610.1.1 Whole-building life cycle assessment. A whole-building LCA is performed in conformance with ASTM E2921 using ISO14044 compliant life cycle assessment. (1) Execute LCA at the whole building level through a comparative analysis between the final and reference building designs as set forth under Standard Practice, ASTM E2921. The assessment criteria includes the following environmental impact categories: (a) Primary energy use (b) Global warming potential (c) Acidification potential (d) Eutrophication potential (e) Ozone depletion potential (f) Smog potential (2) Execute LCA on regulated loads throughout the building operations life cycle stage. Conduct simulated energy performance analyses in accordance with Section 702.2.1 ICC IECC analysis (IECC Section 405) in establishing the comparative performance of final versus reference building designs. Primary energy use savings and global warming potential avoidance from simulation analyses results are determined using energy supplier, utility, or EPA electricity generation and other fuels energy conversion factors and electricity generation and other fuels emission rates for the locality or Sub-Region in which the building is located (3) Execute full LCA, including use-phase, through calculation of operating energy impacts (c) – (f) using local or regional emissions factors from energy supplier, utility, or EPA.					
	(1)	Execute LCA at the whole building level through a comparative analysis between the final and reference building designs as set forth under Standard Practice, ASTM E2921. The assessment criteria includes the following environmental impact categories: (a) Primary energy use (b) Global warming potential (c) Acidification potential (d) Eutrophication potential (e) Ozone depletion potential (f) Smog potential	8	0	0	[]	None
	(2)	Execute LCA on regulated loads throughout the building operations life cycle stage. Conduct simulated energy performance analyses in accordance with Section 702.2.1 ICC IECC analysis (IECC Section 405) in establishing the comparative performance of final versus reference building designs. Primary energy use savings and global warming potential avoidance from simulation analyses results are determined using energy supplier, utility, or EPA electricity generation and other fuels energy conversion factors and electricity generation and other fuels emission rates for the locality or Sub-Region in which the building is located	5	0	0	[]	None
	(3)	Execute full LCA, including use-phase, through calculation of operating energy impacts (c) – (f) using local or regional emissions factors from energy supplier, utility, or EPA.	2	0	0	[]	None
610.1.2		610.1.2 Life cycle assessment for a product or assembly. An environmentally preferable product or assembly is selected for an application based upon the use of an LCA tool that incorporates data methods compliant with ISO 14044 or other recognized standards that compare the environmental impact of products or assemblies.	10 Max	0	0		
610.1.2.1		610.1.2.1 Product LCA. A product with improved environmental impact measures compared to another product(s) intended for the same use is selected. The environmental impact measures used in the assessment are selected from the following: (a) Primary energy use (b) Global warming potential (c) Acidification potential				# of comparisons with 4 measures: []	None

- (d) Eutrophication potential
 - (e) Ozone depletion potential
 - (f) Smog potential
- (Points are awarded for each product/system comparison where the selected product/system improved upon the environmental impact measures by an average of 15 percent.)

per Table
610.1.2.1
10 Max

of comparisons with 5 measures:

None

NOTE: List products/systems compared & impact measures considered in the assigned Notes area.

610.1.2.2 Building assembly LCA. A building assembly with improved environmental impact measures compared to an alternative assembly of the same function is selected. The full life cycle, from resource extraction to demolition and disposal (including but not limited to on-site construction, maintenance and replacement, material and product embodied acquisition, and process and transportation energy), is assessed. The assessment includes all structural elements, insulation, and wall coverings of the assembly. The assessment does not include electrical and mechanical equipment and controls, plumbing products, fire detection and alarm systems, elevators, and conveying systems. The following types of building assemblies are eligible for points under this practice:

- (a) exterior walls
- (b) roof/ceiling
- (c) interior walls or ceilings
- (d) intermediate floors

per Table
610.1.2.2
10 Max

exterior walls:

None

roof/ceiling:

None

int. walls or ceilings:

None

- (a) Primary energy use
- (b) Global warming potential
- (c) Acidification potential
- (d) Eutrophication potential
- (e) Ozone depletion potential
- (f) Smog potential

(Points are awarded based on the number of types of building assemblies that improve upon environmental impact measures by an average of 15 percent.)

NOTE: List assemblies compared & impact measures considered in the assigned Notes area.

intermediate floors:

None

611 PRODUCT DECLARATIONS

611.1 611.1 Product declarations. A minimum of 10 different products installed in the building project, at the time of certificate of occupancy, comply with one of the following sub-sections. Declarations, reports, and assessments are submitted and contain documentation of the critical peer review by an independent third party, results from the review, the reviewer's name, company name, contact information, and date of the review.

5 0 0

of products:

None

NOTE: List products in the assigned Notes area.

611.1.1 611.1.1 Industry-wide declaration. A Type III industry-wide environmental product declaration (EPD) is submitted for each product. Where the program operator explicitly recognizes the EPD as representative of the product group on a National level, it is considered industry-wide. In the case where an industry-wide EPD represents only a subset of an industry group, as opposed to being industry-wide, the manufacturer is required to be explicitly recognized as a participant by the EPD program operator. All EPDs are required to be consistent with ISO Standards 14025 and 21930 with at least a cradle-to-gate scope. (Each product complying with Section 611.1.1 shall be counted as one product for compliance with Section 611.1.)

of products (not effective number):

None

NOTE: List products in the assigned Notes area.

611.1.2 611.1.2 Product Specific Declaration. A product specific Type III EPD are submitted for each product. The product specific declaration shall be manufacturer specific for an individual product or product family. All Type III EPDs are required to be certified as complying, at a minimum, with the goal and scope for the cradle-to-gate requirements in accordance with ISO Standards 14025 and 21930. (Each product complying with Section 611.1.2 shall be counted as two products for compliance with Section 611.1.)

612 INNOVATIVE PRACTICES

612.1 612.1 Manufacturer's environmental management system concepts. Product manufacturer's operations and business practices include environmental management system concepts, and the production facility is registered to ISO 14001 or equivalent. The aggregate value of building products from registered ISO 14001 or equivalent production facilities is 1 percent or more of the estimated total building materials cost.

10 Max 0 0

(1 point awarded per percent.)

NOTE: In the assigned Notes area, list products that comply with manufacturers and ISO registrars.

612.2 612.2 Sustainable products. One or more of the following products are used for at least 30% of the floor or wall area of the entire dwelling unit or the sleeping unit, as applicable. Products are certified by a third-party agency accredited to ISO 17065.

9 Max 0 0

- (1) 50% or more of carpet installed (by square feet) is certified to NSF 140 or equivalent. 3
- (2) 50% or more of resilient flooring installed (by square feet) is certified to NSF 332 or equivalent. 3
- (3) 50% or more of the insulation installed (by square feet) is certified to UL 2985 or equivalent. 3
- (4) 50% or more of interior wall coverings installed (by square feet) is certified to NSF 342 or equivalent. 3
- (5) 50% or more of the gypsum board installed (by square feet) is certified to UL 100 or equivalent. 3
- (6) 50% or more of the door leafs installed (by number of door leafs) is certified to UL 102 or equivalent. 3
- (7) 50% or more of the tile installed (by square feet) is certified to TCNA A138.1 Specifications for Sustainable Ceramic Tiles, Glass Tiles and Tile Installation Materials or equivalent. 3

<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None

612.3 612.3 Universal design elements. Dwelling incorporates one or more of the following universal design elements. Conventional industry construction tolerances are permitted.

12 Max 0 0

- (1) Any no-step entrance into the dwelling which (1) is accessible from a substantially level parking or drop-off area (no more than 2%) via an accessible path which has no individual change in elevation or other obstruction of more than 1-1/2 inches in height with the pitch not exceeding 1 in 12 and (2) provides a minimum 32-inch wide clearance into the dwelling. 3
- (2) Minimum 36-inch wide accessible route from the no-step entrance into at least one visiting room in the dwelling and into at least one full or half bathroom which has a minimum 32-inch clear door width and a 30-inch by 48-inch clear area inside the bathroom outside the door swing. 3
- (3) Minimum 36-inch wide accessible route from the no-step entrance into at least one bedroom which has a minimum 32-inch clear door width. 3
- (4) Blocking or equivalent installed in the accessible bathroom walls for future installation of grab bars at water closet and bathing fixture, if applicable. 1
- (5) All interior and exterior door handles are levers rather than knobs. 1
- (6) All sink, lavatory and showering controls that comply with ICC A117.1. 1
- (7) Interior convenience Power receptacles, communication connections (for cable, phone, Ethernet, etc.) and switches are placed between 15" and 48" above the finished floor. Additional switches to control devices and systems (such as alarms, home theaters and other equipment) not required by the local building code may be installed as desired. 1
- (8) All light switches are rocker-type switches or other similar switches that can be operated by pressing them (with assistive devices). Toggle-type switches may not be used. 1
- (9) Any of the following can be controlled with a (wireless) mobile device such as a smartphone, tablet or laptop computer: HVAC, lighting, alarm system or door locks. 1 per system [5 max]

<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None
<input type="checkbox"/>		None

613 RESILIENT CONSTRUCTION

613.1

613.1 Intent. Design and construction practices developed by a licensed design professional or equivalent are implemented that enhance the resilience and durability of the structure (above building code minimum design loads) so the structure can better withstand forces generated by; flooding, snow, wind or seismic activity (as applicable) and reduce the potential for the loss of life and property.

(a) Minimum structural requirements (base design). The building is designed and constructed in compliance with structural requirements in the IBC or IRC as applicable.	2
(b) Enhanced resilience – 10% above base design. Design and construction practices are implemented that enhance the resilience and durability of the structure by designing and building to forces generated by, flooding, snow, wind or seismic (as applicable) that are 10% higher than the base design.	3
(c) Enhanced resilience – 20% above base design.	5
(d) Enhanced resilience – 30% above base design.	10
(e) Enhanced resilience – 40% above base design.	12
(f) Enhanced resilience – 50% above base design.	15

0 0

	None
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701 MINIMUM ENERGY EFFICIENCY REQUIREMENTS

701.1	701.1 Mandatory requirements. The building shall comply with Section 702 (Performance Path), Section 703 (Prescriptive Path), or Section 704 (ERI Target Path). Items listed as "mandatory" in Section 701.4 apply to all Paths. Unless otherwise noted, buildings in the Tropical Climate Zone shall comply with Climate Zone 1 requirements.			Select Path: <input type="text"/>		
	Please indicate energy modeler's professional credential and, in the notes field, their name. When selecting "Other," enter professional credentials (e.g., engineer, architect) within the notes field.			Modeler's Credential: <input type="text"/>		Pando Alliance TBD
701.1.1	701.1.1 Minimum Performance Path requirements. A building complying with § 702 shall include a minimum of two practices from § 705, or a minimum of one practice from § 705 and a minimum of one practice from § 706.					None
701.1.2	701.1.2 Minimum Prescriptive Path requirements. A building complying with § 703 shall obtain a minimum of 30 points from § 703 and shall include a minimum of two practices from § 705, or a minimum of one practice from § 705 and a minimum of one practice from § 706.					None
701.1.3	701.1.3 ERI Target Path requirements. A building complying with § 704 shall obtain a minimum of 30 points from § 704 and shall include a minimum of two practices from § 705, or a minimum of one practice from § 705 and a minimum of one practice from § 706.					None
701.1.4	701.1.4 Alternative bronze and silver level compliance. As an alternative, any building that qualifies as an ENERGY STAR Version 3.0 Certified Home or ENERGY STAR Multifamily High Rise Version 1.0 Rev. 03 building or demonstrates compliance with the 2018 IECC or Chapter 11 of the 2018 IRC achieves the bronze level for Chapter 7. As an alternative, any building that qualifies as an ENERGY STAR Version 3.1 Certified Home or ENERGY STAR Multifamily High Rise Version 1.0 Rev. 03 (with the baseline at ASHRAE 90.1-2010) building achieves the silver level for Chapter 7. As an alternative in the Tropical Climate Zone, any building that meets all of the requirements in IECC Section R401.2.1 (Tropical Zone) achieves the silver level for Chapter 7. The buildings achieving compliance under Section 701.1.4 are not eligible for achieving a rating level above silver.			Alternative: <input type="text"/>		None
				Option: <input type="text"/>		
			0	0		Per interpretation, HI recognizes ES MFNC v1.1 for Alt Silver and ES MFNC v1.2 for Alt Gold.
701.1.6	701.1.6 Alternative gold level compliance for tropical zones. One- or two-family dwelling in the tropical zone at an elevation less than 2,400 feet (731.5 m) above sea level that complies with the following shall achieve the gold level for chapter 7:					
(1)	The residence complies with IECC Tropical Zone than section R401.2.1.	N/A		<input type="checkbox"/>		None
(2)	The residence includes a minimum of 2 kW of PV and a minimum of 6 kWh of battery storage.	N/A		<input type="checkbox"/>		None
(3)	Any air conditioning has a minimum of 18 SEER.	N/A		<input type="checkbox"/>		None
(4)	Solar, wind or other renewable energy source supplies not less than 90 percent of the energy for service water heating.	N/A		<input type="checkbox"/>		None
(5)	Glazing in conditioned spaces has a solar heat gain coefficient of less than or equal to 0.25, or has an overhang with a projection factor equal to or greater than 0.30.	N/A		<input type="checkbox"/>		None
(6)	The exterior roof/ceiling complies with at least two of the following:					
(a)	Minimum roof reflectance and emittance in IECC Table C402.3	N/A		<input type="checkbox"/>		None
(b)	Roof or ceiling has insulation with an R-value of R-15 or greater	N/A		<input type="checkbox"/>		None
(c)	Includes a radiant barrier	N/A		<input type="checkbox"/>		None
(7)	Walls comply with at least one of the following:					
(a)	Walls have an overhang with a projection factor equal to or greater than 0.30	N/A		<input type="checkbox"/>		None
(b)	Walls have insulation with an R-value of R-13 or greater	N/A		<input type="checkbox"/>		None
(c)	Walls have a solar reflectance of 0.64	N/A		<input type="checkbox"/>		None
(8)	A ceiling fan is provided for bedrooms and the largest space that is not used as a bedroom; alternately a whole house fan is provided.	N/A		<input type="checkbox"/>		None
(9)	Wiring sufficient for a Level 2 (208/240V 40-80 amp) electric vehicle charging station is installed on the building site.	N/A		<input type="checkbox"/>		None
701.2	701.2 Emerald level points. The Performance Path (Section 702) or the ERI Target Path (Section 704) shall be used to achieve the emerald level.	Emerald Not Available				
701.3	701.3 Adopting Entity review. A review by the Adopting Entity or designated third party shall be conducted to verify design and compliance with Chapter 7. NOTE: List the reviewer in the assigned Notes field.			<input type="checkbox"/>		Pando Alliance
701.4	701.4 Mandatory practices.					
701.4.1	701.4.1 HVAC systems.					
701.4.1.1	701.4.1.1 HVAC system sizing. Space heating and cooling system is sized according to heating and cooling loads calculated using ACCA Manual J, or equivalent. Equipment is selected using ACCA Manual S or equivalent.	Mandatory		<input type="checkbox"/>		None
701.4.1.2	701.4.1.2 Radiant and hydronic space heating. Where installed as a primary heat source in the building, radiant or hydronic space heating system is designed, installed, and documented, using industry-approved guidelines and standards (e.g., ACCA Manual J, AHRI I-B-R, ACCA 5 QJ-2010, or an accredited design professional's and manufacturer's recommendations).	Mandatory		<input type="checkbox"/>		None
701.4.2	701.4.2 Duct systems.					
701.4.2.1	701.4.2.1 Duct air sealing. Ducts are air sealed. All duct sealing materials are in conformance with UL 181A or UL 181B specifications and are installed in accordance with manufacturer's instructions.	Mandatory		<input type="checkbox"/>		None
701.4.2.2	701.4.2.2 Ducts and Plenums. Building framing cavities are not used as ducts or plenums.	Mandatory		<input type="checkbox"/>		None
701.4.2.3	701.4.2.3 Duct system sizing. Duct system is sized and designed in accordance with ACCA Manual D or equivalent.	Mandatory		<input type="checkbox"/>		None
701.4.3	701.4.3 Insulation and air sealing.					
701.4.3.1	701.4.3.1 Building Thermal Envelope Air Sealing. The building thermal envelope is durably sealed to limit infiltration. The sealing methods between dissimilar materials allow for differential expansion and contraction. The following are caulked, gasketed, weather-stripped or otherwise sealed with an air barrier material, suitable film, or solid material:				701.4.3.3 Exception: <input type="checkbox"/>	None
(a)	All joints, seams and penetrations.			<input type="checkbox"/>		None
(b)	Site-built windows, doors, and skylights.			<input type="checkbox"/>		None
(c)	Openings between window and door assemblies and their respective jambs and framing.			<input type="checkbox"/>		None
(d)	Utility penetrations.			<input type="checkbox"/>		None
(e)	Dropped ceilings or chases adjacent to the thermal envelope.			<input type="checkbox"/>		None
(f)	Knee walls.			<input type="checkbox"/>		None
(g)	Walls, ceilings, and floors separating conditioned spaces from unconditioned.	Mandatory		<input type="checkbox"/>		None
(h)	Behind tubs and showers on exterior walls.			<input type="checkbox"/>		None
(i)	Common walls between dwelling units or sleeping units.			<input type="checkbox"/>		None
(j)	Attic access openings.			<input type="checkbox"/>		None
(k)	Joints of framing members at rim joists.			<input type="checkbox"/>		None
(l)	Top and bottom plates.			<input type="checkbox"/>		None
(m)	Other sources of infiltration.			<input type="checkbox"/>		None
701.4.3.2	701.4.3.2 Air barrier, air sealing, building envelope testing, and insulation. Building envelope air barrier, air sealing envelope tightness, and insulation installation is verified to be in accordance with this Section and Section 701.4.3.2.1. Insulation installation other than Grade 1 is not permitted.	Mandatory				
(1)	Testing. Building envelope tightness is tested. Testing is conducted in accordance with ASTM E-779 using a blower door at a test pressure of 1.04 psf (50 Pa). Testing is conducted after rough-in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation, and combustion appliances. Testing is conducted under the following conditions:			ACH50: <input type="text"/>		None
(a)	Exterior windows and doors, fireplace and stove doors are closed, but not sealed;			ELR: <input type="text"/>		None
(b)	Dampers are closed, but not sealed, including exhaust, intake, makeup air, backdraft and flue dampers;					None
(c)	Interior doors are open;					None
(d)	Exterior openings for continuous ventilation systems and heat recovery ventilators are closed and sealed;					None
(e)	Heating and cooling systems are turned off;					None

	(f) HVAC duct terminations are not sealed; and (g) Supply and return registers are not sealed.					None
	Multifamily Building Note: Testing by dwelling units, sleeping units, groups of dwelling units, groups of sleeping units, or the building as a whole is acceptable.					None
	(2) Visual inspection. The air barrier and insulation items listed in Table 701.4.3.2(2) are field verified by visual inspection. See Table 701.4.3.2(2)					None
701.4.3.2.1	701.4.3.2.1 Grade I insulation installations. Field-installed insulation products to ceilings, walls, floors, band joists, rim joists, conditioned attics, basements, and crawlspaces, except as specifically noted, are verified as Grade I by a third-party are in accordance with the following: Mandatory					None
	(1) Inspection is conducted before insulation is covered.					None
	(2) Air-permeable insulation is enclosed on all six sides and is in substantial contact with the sheathing material on one or more sides (interior or exterior) of the cavity. Air permeable insulation in ceilings is not required to be enclosed when the insulation is installed in substantial contact with the surfaces it is intended to insulate.					None
	(3) Cavity insulation uniformly fills each cavity side-to-side and top-to-bottom, without substantial gaps or voids around obstructions (such as blocking or bridging).					None
	(4) Cavity insulation compression or incomplete fill amounts to 2 percent or less, presuming the compressed or incomplete areas are a minimum of 70 percent of the intended fill thickness; occasional small gaps are acceptable.					None
	(5) Exterior rigid insulation has substantial contact with the structural framing members or sheathing materials and is tightly fitted at joints.					None
	(6) Cavity insulation is split, installed, and/or fitted tightly around wiring and other services.					None
	(7) Exterior sheathing is not visible from the interior through gaps in the cavity insulation.					None
	(8) Faced batt insulation is permitted to have side-stapled tabs, provided the tabs are stapled neatly with no buckling, and provided the batt is compressed only at the edges of each cavity, to the depth of the tab itself.					None
	(9) Where properly installed, ICFs, SIPs, and other wall systems that provide integral insulation are deemed in compliance with this section.					None
701.4.3.3	701.4.3.3 Multifamily air leakage alternative. Multifamily buildings four or more stories in height and in compliance with IECC section C402.5 (Air leakage-thermal envelope) are deemed to comply with Sections 701.4.3.1 and 701.4.3.2.			See 701.4.3.1		None
701.4.3.4	701.4.3.4 Fenestration air leakage. Windows, skylights and sliding glass doors have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m ²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m ²), when tested in accordance with NFRC 400 or AAMA/WDMA/CSA 101/1.5.2/A440 by an accredited, independent laboratory and listed and labeled. For site-built fenestration, a test report by an accredited, independent laboratory verifying compliance with the applicable infiltration rate shall be submitted to demonstrate compliance with this practice. This practice does not apply to field-fabricated fenestration products. Exception: For Tropical Zones Only, Jalousie windows are permitted to be used as a conditioned space boundary and shall have an air infiltration rate of not more than 1.3 cfm per square foot.	Mandatory				None
701.4.3.5	701.4.3.5 Lighting in building thermal envelope. Luminaires installed in the building thermal envelope which penetrate the air barrier are sealed to limit air leakage between conditioned and unconditioned spaces. All luminaires installed in the building thermal envelope which penetrate the air barrier are IC-rated and labeled as meeting ASTM E283 when tested at 1.57 psf (75 Pa) pressure differential with no more than 2.0 cfm (0.944 L/s) of air movement from the conditioned space to the ceiling cavity. All luminaires installed in the building thermal envelope which penetrate the air barrier are sealed with a gasket or caulk between the housing and the interior of the wall or ceiling covering.	Mandatory				None
701.4.4	701.4.4 High-efficacy lighting. Lighting efficacy in dwelling units or sleeping units is in accordance with one of the following: (1) A minimum of 75 percent of the total hard-wired lighting fixtures or the bulbs in those fixtures qualify as high efficacy or equivalent (2) Lighting power density, measured in watts/square foot, is 1.1 or less.	Mandatory				None
701.4.5	701.4.5 Boiler piping. Boiler piping in unconditioned space supplying and returning heated water or steam is insulated.	N/A				None
702 PERFORMANCE PATH						
702.1	702.1 Point allocation. Points from Section 702 (Performance Path) shall not be combined with points from Section 703 (Prescriptive Path) or Section 704 (ERI Target Path).					
702.2	702.2 Energy performance levels.					
702.2.1	702.2.1 ICC IECC analysis. Energy efficiency features are implemented to achieve energy cost or source energy performance that meets the ICC IECC. A documented analysis using software in accordance with ICC IECC, Section R405, or ICC IECC Section C407.2 through C407.5, applied as defined in the ICC IECC, is required.	N/A				None
702.2.2	702.2.2 Energy performance analysis. Energy savings levels above the ICC IECC are determined through an analysis that includes improvements in building envelope, air infiltration, heating system efficiencies, cooling system efficiencies, duct sealing, water heating system efficiencies, lighting, appliances, and on-site renewable energy. Points are assigned using the following formula: Points = 30 + (percent above NGBS Reference Home) * 2 Multifamily Building Note: Modeling is completed building-wide using one of the following methods: whole building energy modeling, a unit-by-unit approach, or a building average of a unit-by-unit approach.	Points per formula	41	0	Percent above NGBS Reference Home:	None
702.2.3	702.2.3 Tropical standard reference design. For the Tropical Climate Zone, the standard reference design shall use the specifications in IECC Section R401.2.1 (Tropical Zone).					None
703 PRESCRIPTIVE PATH						
703.1	703.1 Mandatory practices.	30	0	0		
703.1.1	703.1.1 Building thermal envelope compliance. The building thermal envelope is in compliance with Section 703.1.1.1 or 703.1.1.2. Exception: Section 703.1.1 is not required for Tropical Climate Zone.	N/A				None
703.1.1.1	703.1.1.1 Maximum UA and SHGC. For IECC residential buildings, the total building UA is less than or equal to the total maximum UA as computed by ICC IECC Section R402.1.5. The SHGC requirements for fenestration in Table R402.1.2 are also met. For IECC commercial buildings, the total UA is less than or equal to the sum of the UA for ICC IECC Tables C402.1.4 and C402.4, including the U-factor times the area and C-factor or F-factor times the perimeter. The SHGC requirements for fenestration in Table C402.4 are also met. The total UA proposed and baseline calculations are documented. REScheck or COMcheck is deemed to provide UA calculation documentation.					None
703.1.1.2	703.1.1.2 Prescriptive R-values and fenestration requirements. The building thermal envelope is in accordance with the insulation and fenestration requirements of ICC IECC Table R402.1.2 or Tables C402.1.3. The fenestration U-factors and SHGC's are in accordance with Table 703.2.5.1 or ICC IECC Table C402.4.					None
703.1.2	703.1.2 Building envelope leakage. The building thermal envelope is in accordance with ICC IECC R402.4.1.2 or C402.5 as applicable. Exception: Section 703.1.2 is not required for Tropical Climate Zone.	N/A				None
703.1.3	703.1.3 Duct Testing. The duct system is in accordance with ICC IECC R403.3.2 through R403.3.5 as applicable.	N/A			Rough-In Test: Postconstruction Test:	None
703.2	703.2 Building envelope					
703.2.1	703.2.1 UA improvement. The total building thermal envelope UA is less than or equal to the baseline total UA resulting from the U-factors provided in Table 703.2.1(a) or ICC IECC Tables C402.1.4 and C402.4, as applicable. Where insulation is used to achieve the UA improvement, the insulation installation is in accordance with Grade 1 meeting Section 701.4.3.2.1 as verified by a third-party. Total UA is documented using REScheck, COMcheck, or equivalent report to verify.	Per Table 703.2.1(b)	0	0	UA Improvement:	None

Unitary. Total UA is documented using a detailed, complete, or equivalent report to verify the baseline and the UA improvement.

See Table 703.2.1(a)

703.2.2	703.2.2 Mass walls. More than 75 percent of the above-grade exterior opaque wall area of the building is mass walls.	Per Table 703.2.2	0	0	Mass thickness:		None
703.2.3	703.2.3 A radiant barrier with an emittance of 0.05 or less is used in the attic. The product is tested in accordance with ASTM C1371 and installed in accordance with the manufacturer's instructions.	0	0	0			None
703.2.4	703.2.4 Building envelope leakage. The maximum building envelope leakage rate is in accordance with Table 703.2.4a or Table 703.2.4b and whole building ventilation is provided in accordance with Section 902.2.1.	Per Table 703.2.4a or 703.2.4b	0	0	Air leakage from 701.4.3.2 or 705.6.2.1:	0.00	None
703.2.5	703.2.5 Fenestration						
703.2.5.1	703.2.5.1 NFRC-certified (or equivalent) U-factor and SHGC of windows, exterior doors, skylights, and tubular daylighting devices (TDDs) on an area-weighted average basis do not exceed the values in Table 703.2.5.1. Area weighted averages are calculated separately for the categories of 1) windows and exterior doors and 2) skylights and tubular daylighting devices (TDDs). Decorative fenestration elements with a combined total maximum area of 15 square feet (1.39 m ²) or 10 percent of the total glazing area, whichever is less, are not required to comply with this practice.	N/A					None
	See Table 703.2.5.1						
703.2.5.1.1	703.2.5.1.1 Dynamic glazing. Dynamic glazing is permitted to satisfy the SHGC requirements of Table 703.2.5.1 provided the ratio of the higher to lower labeled SHGC is greater than or equal to 2.4 and the dynamic glazing is automatically controlled to modulate the amount of solar gain into the space in multiple steps. Fenestration with dynamic glazing is considered separately from other fenestration and area-weighted averaging with fenestration that does not use dynamic glazing is not permitted. Dynamic glazing is not required to be automatically controlled or comply with minimum SHGC ratio when both the lower and higher labeled SHGC already comply with the requirements of Table 703.2.5.1.						None
703.2.5.2	703.2.5.2 The NFRC-certified (or equivalent) U-factor and SHGC of windows, exterior doors, skylights, and tubular daylighting devices (TDDs) are in accordance with Table 703.2.5.2(a), (b), or (c). Decorative fenestration elements with a combined total maximum area of 15 square feet (1.39 m ²) or 10 percent of the total glazing area, whichever is less, are not required to comply with this practice.	Per Table 703.2.5.2(a) or 703.2.5.2(b) or 703.2.5.2(c)	0	0			None
	(a) Table 703.2.5.2(a)	0					
	(b) Table 703.2.5.2(b)	0					
	(c) Table 703.2.5.2(c)	0					
703.2.5.2.1	703.2.5.2.1 Dynamic glazing. Dynamic glazing is permitted to satisfy the SHGC requirements of Tables 703.2.5.2(a), 703.2.5.2(b), and 703.2.5.2(c) provided the ratio of the higher to lower labeled SHGC is greater than or equal to 2.4, and the dynamic glazing is automatically controlled to modulate the amount of solar gain into the space in multiple steps. Fenestration with dynamic glazing is considered separately from other fenestration, and area-weighted averaging with fenestration that does not use dynamic glazing is not permitted. Dynamic glazing is not required to be automatically controlled or comply with minimum SHGC ratio when both the lower and higher labeled SHGC already comply with the requirements of Tables 703.2.5.2(a), 703.2.5.2(b), and 703.2.5.2(c).						None
703.3	HVAC equipment efficiency						
703.3.0	703.3.0 Multiple heating and cooling systems. For multiple heating or cooling systems in one home, practices 703.3.1 through 703.3.6 apply to the system that supplies 80% or more of the total installed heating or cooling capacity. Where multiple systems each serve less than 80% of the total installed heating or cooling capacity, points under Sections 703.3.1 through 703.3.6 are awarded either for the system eligible for the fewest points or the weighted average of the systems. The weighted average shall be calculated in accordance with the following equation and be based upon the efficiency and capacity of the equipment as selected in accordance with ACCA Manual S with its loads calculated in accordance with ACCA Manual J.				multiple heating sys.?		None
	Weighted Average = $\frac{[(E_{unit1} * C_{unit1}) + (E_{unit2} * C_{unit2}) + \dots + (E_{unitn} * C_{unitn})]}{(C_{unit1} + C_{unit2} + \dots + C_{unitn})}$ where: E = Rated AHRI efficiency for unit C = Rated heating or cooling capacity for unit n = Unit count				multiple cooling sys.?		None
703.3.1	703.3.1 Combination space heating and water heating system (combo system) is installed using either a coil from the water heater connected to an air handler to provide heat for the building, dwelling unit or sleeping unit, or a space heating boiler using an indirect-fired water heater. Devices have a minimum combined annual efficiency of 0.80 and a minimum water heating recovery efficiency of 0.87.	4	0	0			None
703.3.2	703.3.2 Furnace and/or boiler efficiency is in accordance with one of the following:						
(1)	Gas and propane heaters: ≥90% AFUE ≥92% AFUE ≥94% AFUE ≥96% AFUE ≥98% AFUE	0 0 0 0 0	0	0	Min. or Average AFUE:		None
(2)	Oil furnace: ≥85% AFUE ≥90% AFUE	0 0	0	0	Min. or Average AFUE:		None
(3)	Gas boiler: ≥85% AFUE ≥90% AFUE ≥94% AFUE ≥96% AFUE	0 0 0 0	0	0	Min. or Average AFUE:		None
(4)	Oil boiler: ≥85% AFUE ≥90% AFUE	0 0	0	0	Min. or Average AFUE:		None
703.3.3	703.3.3 Heat pump heating efficiency is in accordance with Table 703.3.3(1) or Table 703.3.3(2) or Table 703.3.3(3). Refrigerant charge is verified for compliance with manufacturer's instructions utilizing a method in Section 4.3 of ACCA 5 QI-2010.						
(1)	Electric Heat Pump Heating ≥8.5 HSPF ≥9.0 HSPF ≥9.5 HSPF ≥10.0 HSPF ≥12.0 HSPF	0 0 0 0 0	0	0	Min. or Average HSPF:		None
(2)	Electric Heat Pump Heating for Multifamily Buildings Four or More Stories in Height	0	0	0	Min. or Average COP:		None
(3)	Gas Engine-Driven Heat Pump Heating (≥1.3 COP at 47°F)	0	0	0			None
703.3.4	703.3.4 Cooling efficiency is in accordance with Table 703.3.4(1) or Table 703.3.4(2). Refrigerant charge is verified for compliance with manufacturer's instructions utilizing a method in Section 4.3 of ACCA 5 QI-2010.						
(1)	Electric Air Conditioner and Heat Pump Cooling ≥15 SEER ≥17 SEER ≥19 SEER ≥21 SEER ≥25 SEER	0 0 0 0 0	0	0	Min. or Average SEER:		None
(*)	Tropical Climate Zone: None of the occupied space is air conditioned and ceiling fans are provided for bedrooms and the largest space which is not used as a bedroom.	20	0	0	Min. or Average COP:		None
(2)	Gas Engine-Driven Heat Pump Cooling (≥1.2 COP at 95°F)	0	0	0			None
703.3.5	703.3.5 Water source cooling and heating efficiency is in accordance with Table 703.3.5. Refrigerant charge is verified for compliance with manufacturer's instructions utilizing a method	0	0	0			None


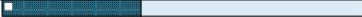
in Section 4.3 of ACCA 5 QI-2010.

703.3.6	<p>703.3.6 Ground source heat pump is installed by a Certified Geothermal Service Contractor in accordance with Table 703.3.6. Refrigerant charge is verified for compliance with manufacturer's instructions utilizing a method in Section 4.3 of ACCA 5 QI-2010.</p> <p>≥15 SEER, ≥4.0 COP</p> <p>≥16 EER, ≥3.6 COP</p> <p>≥24 EER, ≥4.3 COP</p> <p>≥28 EER, ≥4.8 COP</p>	0	0	0	Min. or Average EER:	None
703.3.7	<p>703.3.7 ENERGY STAR, or equivalent, ceiling fans are installed.</p> <p>(Points awarded per building.)</p> <p>Note for Tropical Climate Zone and Climate Zones 2B, 3B, and 4B: points awarded per fan where AC is not installed in the dwelling unit or sleeping unit (Max 8 points), and where points awarded in Section 703.3.8 for these specific climate zones, points shall not be awarded in Section 703.3.7</p> <p>NOTE: For multi-unit buildings, each dwelling unit must comply to claim this point.</p>	1	0	0	# of fans.	None
703.3.8	<p>703.3.8 Whole-building or whole-dwelling unit or whole-sleeping unit fan(s) with insulated louvers and a sealed enclosure is installed.</p> <p>(Points awarded per building.)</p> <p>NOTE: For multi-unit buildings, each dwelling unit must have compliant whole-dwelling unit fans installed to claim these points.</p>	0	0	0		None
703.4	703.4 Duct Systems					
703.4.1	<p>703.4.1 All space heating is provided by a system(s) that does not include air ducts.</p> <p>(No points awarded for multifamily buildings four or more stories in height.)</p>	0	0	0		None
703.4.2	<p>703.4.2 All space cooling is provided by a system(s) that does not include air ducts.</p> <p>(No points awarded for multifamily buildings four or more stories in height.)</p>	0	0	0		None
703.4.3	703.4.3 Ductwork is in accordance with all of the following:	0	0	0		
(1)	Building cavities are not used as return ductwork.					None
(2)	Heating and cooling ducts and mechanical equipment are installed within the conditioned building space.					None
(3)	Ductwork is not installed in exterior walls. <p>(No points awarded for multifamily buildings four or more stories in height.)</p>					None
703.4.4	703.4.4 Duct Leakage. The entire central HVAC duct system, including air handlers and register boots, is tested by a third party for total leakage at a pressure differential of 0.1 inches w.g. (25 Pa) and maximum air leakage is equal to or less than 6 percent of the system design flow rate or 4 cubic feet per minute per 100 square feet of conditioned floor area.	0	0	0		None
	(Points not awarded if points are taken under Section 705.6.2.3)					
(1)	ductwork entirely outside the building's thermal envelope	0				
(2)	ductwork entirely inside the building's thermal envelope	0				
(3)	ductwork inside and outside the building's thermal envelope	0				
703.5	703.5 Water heating system					
703.5.1	<p>703.5.1 Water heater Uniform Energy Factor (UEF) is in accordance with the following:</p> <p>Where multiple systems are used, points awarded based on the system with the lowest efficiency.</p> <p>Water heater design is based on only 1 (one) water heater per dwelling unit, based on approved methods from IPC or ASPE or manufacturer specifications.</p> <p>All table values are based on water heaters with medium water draws as defined by the US DOE text procedures (55 gallons per day).</p>				type:	None
(1)	Gas water heating				type:	
(a)	Storage Water Heater, Rated Storage Volume > 20 Gallons and ≤ 55 Gallons, Medium Water Draw	0	0	0	efficiency:	
	UEF: 0.65 to <0.78	0				
	UEF: ≥0.78	0				
(b)	Storage Water Heater, Rated Storage Volume > 55 Gallons and ≤ 100 Gallons, Medium Water Draw	1	0	0		
(c)	Storage Water Heater with Input Rate Greater than 75,000 Btu/h (Commercial)	0	0	0		
	Thermal Efficiency: 0.90 to <0.95	0				
	Thermal Efficiency: ≥0.95	0				
(d)	Storage Water Heater with Input Rate Greater than 75,000 Btu/h (Commercial), In Buildings with High-Capacity Service Water-Heating Systems (1,000,000 Btu/h or Greater)	0	0	0		
	Thermal Efficiency: 0.92 to <0.95	1				
	Thermal Efficiency: ≥0.95	0				
(e)	Instantaneous Water Heater, Rated Storage Volume < 2 Gallons and Input Rate of > 50,000 Btu/h, Medium Water Draw	0	0	0		
	UEF: 0.89 to <0.94	0				
	UEF: ≥0.94	0				
(2)	Electric water heating				type:	
(a)	Storage Water Heater, Rated Storage Volume ≥ 20 Gallons and ≤ 55 Gallons, Medium Water Draw	0	0	0	efficiency:	
	UEF: 0.94 to <1.0	1				
	UEF: 1.0 to <1.5	0				
	UEF: 1.5 to <2.0	0				
	UEF: 2.0 to <2.2	0				
	UEF: 2.2 to <2.5	0				
	UEF: 2.5 to <3.0	0				
	UEF: ≥3.0	0				
(b)	Storage Water Heater, Rated Storage Volume ≥ 55 Gallons and ≤ 120 Gallons, Medium Water Draw	0	0	0		
	UEF: 2.2 to <2.5	0				
	UEF: 2.5 to <3.0	0				
	UEF: 3.0 to <3.5	0				
	UEF: ≥3.5	0				
(c)	Electric Tabletop Water Heating (Tabletop Water Heater, Rated Storage Volume ≥ 20 Gallons and ≤ 120 Gallons, Medium Water Draw)	1	0	0		
(d)	Electric Instantaneous Water Heating (Instantaneous Electric Water Heater, Rated Storage Volume < 2 Gallons, Medium Water Draw)	1	0	0		
(e)	Electric Grid Enabled Water Heating (Grid Enabled Storage Water Heater, Rated Storage Volume ≥ 75 Gallons, Medium Water Draw)	2	0	0	efficiency:	
(3)	Oil water heating (Oil water heating, < 50 gallons, Medium water draw)	1	0	0		
703.5.2	703.5.2 Desuperheater is installed by a qualified installer or is pre-installed in the factory.	0	0	0		None
703.5.3	703.5.3 Drain-water heat recovery system is installed. <p>(Points awarded per building.)</p>	2	0	0		None
703.5.4	703.5.4 Indirect-fired water heater storage tanks heated from boiler systems are installed.	1	0	0		None
703.5.5	703.5.5 Solar water heater. SRCC (Solar Rating & Certification Corporation) OG 300 rated, or equivalent, solar domestic water heating system is installed. Solar Energy Factor (SEF) as defined by SRCC is in accordance with Table 703.5.5(a) and Table 703.5.5(b).				type:	None
(a)	Storage Water Heater, Rated Storage Volume of Backup Water Heater is ≥ 0.1 Gallon and ≤ 55 Gallons, Medium Water Draw	0	0	0	SEF:	
	SEF ≥ 1.3	0				
	SEF ≥ 1.51	0				
	SEF ≥ 1.81	0				
	SEF ≥ 2.31	0				
	SEF ≥ 3.01	0				
(b)	Storage Water Heater, Rated Storage Volume of Backup Water Heater is >55 Gallons, Medium Water Draw	0	0	0		
	SEF ≥ 1.3	0				

	SEF ≥ 1.51	0				
	SEF ≥ 1.81	0				
	SEF ≥ 2.31	0				
	SEF ≥ 3.01	0				
703.6	703.6 Lighting and appliances					
703.6.1	703.6.1 Hard-wired lighting. Hard-wired lighting is in accordance with one of the following:					
(1)	A minimum percent (95%) of the total hard-wired interior luminaires or lamps qualify as ENERGY STAR, DesignLights Consortium (DLC), or applicable equivalent.	0	0	0	<input checked="" type="checkbox"/>	None
(2)	A minimum of 80 percent of the exterior lighting wattage has a minimum efficacy of 61 lumens per watt or is solar-powered.	1	0	0	<input checked="" type="checkbox"/>	None
(3)	In multifamily buildings, common area lighting power density (LPD) is less than 0.51 Watts per square foot.	7	0	0	<input checked="" type="checkbox"/>	None
703.6.2	703.6.2 Appliances. ENERGY STAR or equivalent appliance(s) are installed:					
(1)	Refrigerator	1	0	0	<input checked="" type="checkbox"/>	None
(2)	Dishwasher	1	0	0	<input checked="" type="checkbox"/>	None
(3)	Washing machine	4	0	0	<input checked="" type="checkbox"/>	None
	Multifamily Building Note: Washing machines in ALL units must comply.					
703.7	703.7 Passive solar design					
703.7.1	703.7.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with all of the following:	4	0	0	<input checked="" type="checkbox"/>	
(1)	The long side (or one side if of equal length) of the building faces within 20 degrees of true south.					None
(2)	Vertical glazing area is between 5 and 7 percent of the gross conditioned floor area on the south face [also see Section 703.7.1(8)] and glazing U-factors meet Table 703.2.5.2(a).					None
(3)	Vertical glazing area is less than 2 percent of the gross conditioned floor area on the west face, and glazing meets Table 703.2.5.2(a).					None
(4)	Vertical glazing area is less than 4 percent of the gross conditioned floor area on the east face, and glazing meets Table 703.2.5.2(a).					None
(5)	Vertical glazing area is less than 8 percent of the gross conditioned floor area on the north face, and glazing meets Table 703.2.5.2(a).					None
(6)	Skylights, where installed, are in accordance with the following:					
(a)	shades and insulated wells are used, and all glazing meets Table 703.2.5.2(a)					None
(b)	horizontal skylights are less than 0.5 percent of finished ceiling area					None
(c)	sloped skylights on slopes facing within 45 degrees of true south, east, or west are less than 1.5 percent of the finished ceiling area					None
(7)	Overhangs or adjustable canopies or awnings or trellises provide shading on south-facing glass for the appropriate climate zone in accordance with Table 703.7.1(7): See Table 703.7.1(7)					None
(8)	The south face windows have a SHGC of 0.40 or higher.					None
(9)	Return air or transfer grilles/ducts are in accordance with Section 705.4.					None
	Multifamily Building Note: The site is designed such that at least 40 percent of the multifamily dwelling or sleeping units have one south facing wall (within 15 degrees) containing at least 50 percent of glazing for entire unit. Effective shading is required for passive solar control on all south facing glazing. The floor area of at least 15 feet from the south facing perimeter glazing is massive and exposed to capture solar heat during the day and reradiate at night.					None
703.7.2	703.7.2 Window shading. Automated solar protection or dynamic glazing is installed to provide shading for windows.	1	0	0	<input checked="" type="checkbox"/>	None
703.7.3	703.7.3 Passive cooling design. Passive cooling design features are in accordance with three or more of the following:		0	0		
	Points for three items:	3				
	Points for one additional item:	1				
(1)	Exterior shading is provided on east and west windows using one or a combination of the following:					
(a)	vine-covered trellises with the vegetation separated a minimum of 1 foot (305 mm) from face of building				<input checked="" type="checkbox"/>	None
(b)	moveable awnings or louvers				<input checked="" type="checkbox"/>	None
(c)	covered porches				<input checked="" type="checkbox"/>	None
(d)	attached or detached conditioned/unconditioned enclosed space that provides full shade of east and west windows (e.g., detached garage, shed, or building)				<input checked="" type="checkbox"/>	None
(2)	Overhangs are installed to provide shading on south-facing glazing in accordance with Section 703.7.1(7).				<input checked="" type="checkbox"/>	None
	(Points not awarded if points are taken under Section 703.7.1.)					
(3)	Windows and/or venting skylights are located to facilitate cross and stack effect ventilation.				<input checked="" type="checkbox"/>	None
(4)	Solar reflective roof or radiant barrier is installed in climate zones 1, 2, or 3 and roof material achieves a 3-year aged criteria of 0.50.				<input checked="" type="checkbox"/>	None
(5)	Internal exposed thermal mass is a minimum of three inches (76 mm) in thickness. Thermal mass consists of concrete, brick, and/or tile fully adhered to a masonry base or other masonry material in accordance with one or a combination of the following:					
(a)	A minimum of 1 square foot (0.09 m ²) of exposed thermal mass of floor per 3 square feet (2.8 m ²) of gross finished floor area.				<input checked="" type="checkbox"/>	None
(b)	A minimum of 3 square feet (2.8 m ²) of exposed thermal mass in interior walls or elements per square foot (0.09 m ²) of gross finished floor area.				<input checked="" type="checkbox"/>	None
(6)	Roofing material is installed with a minimum 0.75 inch (19 mm) continuous air space offset from the roof deck from eave to ridge.				<input checked="" type="checkbox"/>	None
703.7.4	703.7.4 Passive solar heating design. In addition to the sun-tempered design features in Section 703.7.1, all of the following are implemented:	4	0	0	<input checked="" type="checkbox"/>	
	Note: Points shall not be awarded in the Tropical Climate Zone.					
(1)	Additional glazing, no greater than 12 percent, is permitted on the south wall. This additional glazing is in accordance with the requirements of Section 703.7.1.					None
(2)	Additional thermal mass for any room with south-facing glazing of more than 7 percent of the finished floor area is provided in accordance with the following:					
(a)	Thermal mass is solid and a minimum of 3 inches (76 mm) in thickness. Where two thermal mass materials are layered together (e.g., ceramic tile on concrete base) to achieve the appropriate thickness, they are fully adhered to (touching) each other.					None
(b)	Thermal mass directly exposed to sunlight is provided in accordance with the following minimum ratios:					None
(i)	Above latitude 35 degrees: 5 square feet (0.465 m ²) of thermal mass for every 1 square foot (0.0929 m ²) of south-facing glazing.					None
(ii)	Latitude 30 degrees to 35 degrees: 5.5 square feet (0.51 m ²) of thermal mass for every 1 square foot (0.0929 m ²) of south-facing glazing.					None
(iii)	Latitude 25 degrees to 30 degrees: 6 square feet (0.557 m ²) of thermal mass for every 1 square foot (0.0929 m ²) of south-facing glazing.					None
(c)	Thermal mass not directly exposed to sunlight is permitted to be used to achieve thermal mass requirements of Section 703.7.4 (2) based on a ratio of 40 square feet (3.72 m ²) of thermal mass for every 1 square foot (0.0929 m ²) of south-facing glazing.					None
(3)	In addition to return air or transfer grilles/ducts required by Section 703.7.1(9), provisions for forced airflow to adjoining areas are implemented as needed.					None
704 ERI TARGET PATH						
704.1	704.1 ERI target compliance. Compliance with the energy chapter shall be permitted to be based on the EPA National ERI Target Procedure for Energy Star Certified Homes. Points from Section 704 (ERI Target) shall not be combined with points from Section 702 (Performance Path) or Section 703 (Prescriptive Path). Dwelling ratings shall be submitted to a Rating Certification Body approved by the Adopting Entity for calculating points under this section.	0	0		<input checked="" type="checkbox"/>	None
704.2	704.2 Point calculation. Points for Section 704 shall be computed based on Step "1" of the EPA National ERI Target Procedure. Points shall be computed individually for each building as follows:				<input checked="" type="checkbox"/>	None
					EPA National ERI Target:	
					ERI As Designed:	

705.6.4.2	705.6.4.2 Potable hot water demand re-circulation system(s) that serves every unit in a multifamily building is installed in place of a standard circulation pump and control.	2	0	0			None
705.7	705.7 In multi-unit buildings, an advanced electric and fossil fuel submetering system is installed to monitor electricity and fossil fuel consumption for each unit. The device provides consumption information on a monthly or near real-time basis. The information is available to the occupants at a minimum on a monthly basis.	1	0	0			None
706 INNOVATIVE PRACTICES							
706.1	706.1 Energy consumption control. A whole-building or whole-dwelling unit or whole-sleeping unit device or system is installed that controls or monitors energy consumption.	3 Max	0	0			
(1)	programmable communicating thermostat with the capability to be controlled remotely	1					None
(2)	energy-monitoring device or system	1					None
(3)	energy management control system	3					None
(4)	programmable thermostat with control capability based on occupant presence or usage pattern	1					None
(5)	lighting control system	1					None
706.2	706.2 Renewable energy service plan. Renewable energy service plan is provided as follows:						
(1)	Builder selects a renewable energy service plan provided by the local electrical utility for interim (temporary) electric service, or purchases renewable energy certificates (RECs) to cover electricity used. The builder's local administrative office has renewable energy service or has otherwise been paired with RECs. Green-certified (or equivalent) is required for renewable electricity purchases.	1	0	0			None
(2)	The buyer of the building selects one of the following renewable energy service plans provided by the utility prior to occupancy of the building with a minimum two-year commitment.		0	0			None
(a)	less than half of the dwelling's projected electricity and gas use is provided by renewable energy	1					
(b)	half or more of the of the dwelling's projected electricity and gas use is provided by renewable energy	2					
706.3	706.3 Smart Appliances and Systems. Smart appliances and systems are installed as follows: Three to five smart appliances installed Six or more smart appliances installed (Items (7) and (8) are permitted to count as two appliances each for the purpose of awarding points.) (where points awarded in Section 706.3, points shall not be awarded in Section 706.7 and 706.9)	1 2	0	0			None
(1)	Refrigerator						None
(2)	Freezer						None
(3)	Dishwasher						None
(4)	Clothes Dryer						None
(5)	Clothes Washer						None
(6)	Room Air Conditioner						None
(7)	HVAC Systems						None
(8)	Service Hot Water Heating Systems						None
706.4	706.4 Pumps.						
706.4.1	706.4.1 Pool, spa, and water features equipped with filtration pumps as follows:						
(1)	Electronically controlled variable-speed pump(s) is installed (full load efficiency of 90 percent or greater).	1	0	0			None
(2)	Electronically controlled variable-speed pump(s) is installed (full load efficiency of 90 percent or greater) in a pool	3	0	0			None
706.4.2	706.4.2 Sump pump(s) with electrically commutated motors (ECMs) or permanent split capacitor (PSC) motors is installed (full load efficiency of 90 percent or greater).	1	0	0			None
706.5	706.5 On-site renewable energy system. One of the following options is implemented						None
(1)	Building is Solar-Ready in compliance with IECC Appendix A Solar Ready Provisions.	1	0	0			
(2)	An on-site renewable energy system(s) is installed on the property.	2 per kW	0	0			kW per 0 units:
(3)	An on-site renewable energy system(s) and a battery energy storage system are installed on the property.	2 per kW, 1 per 2 kWh	0	0			kWh of strg. per 0 units:
	Points awarded shall not be combined with points for renewable energy in another section of this chapter. Points shall not be awarded for solar thermal or geothermal systems that provide space heating, space cooling, or water heating, points for these systems are awarded in § 703. Where onsite renewable energy is included in § 702 Performance Path or 704 ERI Target Path, § 706.5 shall not be awarded. The solar-ready zone roof area in #1 is area per dwelling unit. Points in item #2 and #3 shall be divided by the number of dwelling units.						
	Multifamily Building Note: Conditioned common area and non-residential space is excluded for the purpose of calculating number of units.						
706.6	706.6 Parking garage efficiency. Structured parking garages are designed to require no mechanical ventilation for fresh air requirements.	2	0	0			None
706.7	706.7 Grid-interactive electric thermal storage system. A grid-interactive electric thermal storage system is installed.						
(1)	Grid-Interactive Water Heating System	1	0	0			None
(2)	Grid-Interactive Space Heating and cooling System	1	0	0			None
	(where points awarded in Section 706.7, points shall not be awarded in Section 706.3 and 706.9)						
706.8	706.8 Electrical vehicle charging station. A Level 2 (208/240V 40-80 amp) or Level 3 electric vehicle charging station is installed on the building site. (Note: Charging station shall not be included in the building energy consumption.)	2	0	0			None
706.9	706.9 CNG vehicle fueling station. A CNG vehicle residential fueling appliance is installed on the building site. The CNG fueling appliances shall be listed in accordance with ANSI/CSA NGV 5.1 and installed in accordance to the appliance manufacturer's installation instructions. (Note: The fueling appliance shall not be included in the building energy consumption.)	1	0	0			None
706.10	706.10 Automatic demand response. Automatic demand response system is installed that curtails energy usage upon a signal from the utility or an energy service provider is installed.	1	0	0			None
	(where points awarded in Section 706.10, points shall not be awarded in Section 706.3 and 706.7)						
706.11	706.11 Grid-interactive battery storage system. A grid-interactive battery storage system of not less than 6 kWh of available capacity is installed.	2	0	0			None
706.12	706.12 Smart ventilation. A whole-building ventilation systems is installed with automatic ventilation controls to limit ventilation during periods of extreme temperature, extreme humidity, and/or during times of peak utility loads and is in accordance with the specifications of ASHRAE Standard 62.2-2010 Section 4.	1	0	0			None
706.13	706.13 Alternative refrigerant. Use of the following in mechanical space cooling systems for dwellings.		0	0			None
(1)	Use alternative refrigerant with a GWP < 1000	1					
(2)	Do not use refrigerants	2					
706.14	706.14 Third-party utility benchmarking service.						
(1)	For a multifamily building, the owner has contracted with a third-party utility benchmarking service with at least five (5) years of experience in utility data management and analysis to perform a monthly analysis of whole-building energy and water consumption for a minimum of 1 year.	3	0	0			None
(2)	The building owner commits to reporting energy data using U.S. Environmental Protection Agency's ENERGY STAR Portfolio Manager for a minimum of three years.	1	0	0			None
706.15	706.15 Entryway air seal. For multifamily buildings, where not required by the building or energy						

code, to slow the movement of unconditioned air from outdoors to indoors at the main building entrance, the following is installed:

(1)	Building entry vestibule.	2	0	0		None
(2)	Revolving entrance doors.	2	0	0		None

801 INDOOR AND OUTDOOR WATER USE

801.0	801.0 Intent. Implement measures that reduce indoor and outdoor water usage. Implement measures that include collection and use of alternative sources of water. Implement measures that treat water on site.								
801.1	801.1 Mandatory requirements. The building shall comply with Section 802 (Prescriptive Path) and 803 (Innovative Practices) or Section 804 (Performance Path). Points from Section 804 (Performance Path) shall not be combined with points from Section 802 (Prescriptive Path) or Section 803 (Innovative Practices). The mandatory provisions of Section 802 (Prescriptive Path) are required when using the Water Rating Index of Section 804 (Performance Path) for Chapter 8 Water Efficiency compliance.								None

802 PRESCRIPTIVE PATH

802.1	802.1 Indoor hot water usage. Indoor hot water supply system is in accordance with one of the practices listed in items (1) through (5). The maximum water volume from the source of hot water to the termination of the fixture supply is determined in accordance with Tables 802.1(1) or 802.1(2). The maximum pipe length from the source of hot water to the termination of the fixture supply is 50 feet. (Where more than one water heater is used or where more than one type of hot water supply system, including multiple circulation loops, is used, points are awarded only for the system that qualifies for the minimum number of points.) (Systems with circulation loops are eligible for points only if pumps are demand controlled. Circulation systems with timers or aquastats and constant-on circulation systems are not eligible to receive points.) (Points awarded only if the pipes are insulated in accordance with Section 705.6.3.) See Table 802.1(1) See Table 802.1(2)	0	0						
(1)	The maximum volume from the water heater to the termination of the fixture supply at furthest fixture is 128 ounces (1 gallon or 3.78 liters).	8							None
(2)	The maximum volume from the water heater to the termination of the fixture supply at furthest fixture is 64 ounces (0.5 gallon or 1.89 liters).	12							None
(3)	The maximum volume from the water heater to the termination of the fixture supply at furthest fixture is 32 ounces (0.25 gallon or 0.945 liters).	20							None
(4)	A demand controlled hot water priming pump is installed on the main supply pipe of the circulation loop and the maximum volume from this supply pipe to the furthest fixture is 24 ounces (0.19 gallons or 0.71 liters).	24							None
(a)	The volume in the circulation loop (supply) from the water heater or boiler to the branch for the furthest fixture is no more than 128 ounces (1 gallon or 3.78 liters).	4 Additional							None
(5)	A central hot water recirculation system is implemented in multifamily buildings in which the hot water line distance from the recirculating loop to the engineered parallel piping system (i.e., manifold system) is less than 30 feet (9,144 mm) and the parallel piping to the fixture fittings contains a maximum of 64 ounces (1.89 liters) (115.50 cubic inches) (0.50 gallons).	9							None
(6)	Tankless water heater(s) with at least 0.5 gallon (1.89 liters) of storage are installed, or a tankless water heater that ramps up to at least 110F within 5 seconds is installed. The storage may be internal or external to the tankless water heater.	1 Additional	0	0					None
802.2	802.2 Water-conserving appliances. Energy Star or equivalent water-conserving appliances are installed.								
(1)	dishwasher	2	2	0					None
(2)	clothes washer, or	13	13	0					None
(3)	clothes washer with an Integrated Water Factor of 3.8 or less	18							None
	NOTE: If multiple dishwashers and washing machines are installed, ALL instances must meet the above conditions to be awarded points. Multifamily Building Note: Washing machines are installed in individual units or provided in common areas of multifamily buildings.								
802.3	802.3 Water usage metering. Water meters are installed meeting the following:								
(1)	Single-Family Buildings: Water Usage Metering:								
(a)	Where not otherwise required by the local AHJ, installation of a meter for water consumed from any source associated with the building or building site.	2 per unique meter	0	0					None
(b)	Each water meter shall be capable of communicating water consumption data remotely for the dwelling unit occupant and be capable of providing daily data with electronic data storage and reporting capability that can produce reports for daily, monthly, and yearly water consumption. (Fire sprinkler systems are not required to be metered).	2 per sensor package	0	0					None
(2)	Multi-Family Buildings: Water Usage Metering: (Points earned in Section 802.3(2) shall not exceed 50% of the total points earned for Chapter 8)								
(a)	Where not otherwise required by the local AHJ, installation of a meter for water consumed from any source associated with the building or building site.	2 per unique use meter	0	0					None
(b)	Each water meter shall be capable of communicating water consumption data remotely for the dwelling unit occupant and be capable of providing daily data with electronic data storage and reporting capability that can produce reports for daily, monthly, and yearly water consumption. (Fire sprinkler systems are not required to be metered).	2 per sensor package	0	0					None
802.4	802.4 Showerheads. Showerheads are in accordance with the following:							# of compartments:	
(1)	The total maximum combined flow rate of all showerheads in a shower compartment with floor area of 2600 square inches or less is equal or less than 2.0 gpm. For each additional 1300 square inches or any portion thereof of shower compartment floor area, an additional 2.0 gpm combined showerhead flow rate is allowed. Showerheads shall comply with ASME A112.18.1/CSA B125.1 and shall meet the performance criteria of the U.S. EPA WaterSense Specification for showerheads. Showerheads shall be served by an automatic compensating valve that complies with ASSE 1016/ASME A112.1016/CSA B125.16 or ASME A112.18.1/CSA B125.1 and specifically designed to provide thermal shock and scald protection at the flow rate of the showerhead. (Points awarded per shower compartment. In multifamily buildings, the average of the points assigned to individual dwelling units or sleeping units may be used as the number of points awarded for this practice, rounded to the nearest whole number.)	4 for first compartment 1 for each additional compartment in dwelling 7 Max	4	0					None
(2)	All shower compartments in the dwelling unit(s) or sleeping unit(s) and common areas meet the requirements of 802.4(1) and all showerheads are in accordance with one of the following:		10	0					None
(a)	maximum of 1.8 gpm	6 Additional							
(b)	maximum of 1.5 gpm	10 Additional							
(3)	Any shower control that can shut off water flow without affecting temperature is installed. (Points awarded per shower control.)	1 3 Max	0	0					None
802.5	802.5 Faucets								
802.5.1	802.5.1 Install water-efficient lavatory faucets with flow rates not more than 1.5 gpm (5.68 L/m), tested in compliance with ASME A112.18.1/CSA B125.1 and meeting the performance criteria of the EPA WaterSense High-Efficiency Lavatory Faucet Specification:		13	0					None
(1)	Flow rate ≤ 1.5 gpm (*all faucets in a bathroom are in compliance) (Points awarded for each bathroom. In multifamily buildings, the average of the points assigned to individual dwelling units or sleeping units may be used as the number of points awarded for this practice, rounded to the nearest whole number.)	1 3 Max							
(2)	Flow rate ≤ 1.2 gpm (*all faucets in a bathroom are in compliance)	2 (6 Max)							
(3)	Flow rate ≤ 1.5 gpm for all lavatory faucets in the dwelling unit(s) or sleeping unit(s)	6 Additional							
(4)	Flow rate ≤ 1.5 gpm for all lavatory faucets in the dwelling unit(s), and at least one bathroom has faucets with flow rates ≤ 1.2 gpm	8 Additional							
(5)	Flow rate ≤ 1.2 gpm for all lavatory faucets in the dwelling unit(s)	12 Additional							
802.5.2	802.5.2 Water-efficient residential kitchen faucets are installed in accordance with ASME A112.18.1/CSA B125.1. Residential kitchen faucets may temporarily increase the flow above the maximum rate but not to exceed 2.2 gpm.		4	0					None
(1)	All residential kitchen faucets have a maximum flow rate of 1.8 gpm.	3							
(2)	All residential kitchen faucets have a maximum flow rate of 1.5 gpm.	1 Additional							

802.5.3	802.5.3 Self-closing valve, motion sensor, metering, or pedal-activated faucet is installed to enable intermittent on/off operation. (Points awarded per fixture.)	1 3 Max	0	0			None
802.5.4	802.5.4 Water closets and urinals. Water closets and urinals are in accordance with the following:						
(1)	Gold and emerald levels: All water closets and urinals are in accordance with Section 802.5.4.	Gold/Emerald not available					None
(2)	A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less in accordance with ASME A112.19.2/CSA B45.1 or ASME A112.19.14 as applicable. Tank-type water closets shall be in accordance with the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. (Points awarded per fixture. In multifamily buildings, the average of the points assigned to individual dwelling units or sleeping units may be used as the number of points awarded for this practice, rounded to the nearest whole number.)	4 12 Max	4	0			None
(3)	All water closets are in accordance with Section 802.5.4(2).	17 Additional	13	0			None
(4)	All water closets are in accordance with Section 802.5.4(2) and one or more of the following are installed:						
(a)	Water closets that have an effective flush volume of 1.2 gallons or less. (Points awarded per toilet. In multifamily buildings, the average of the points assigned to individual dwelling units or sleeping units may be used as the number of points awarded for this practice, rounded to the nearest whole number.)	2 Additional 6 Max	0	0			None
(b)	One or more urinals with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2/CSA B45.1.	2 Additional	0	0			None
(c)	One or more composting or waterless toilets and/or nonwater urinals. Nonwater urinals shall be tested in accordance with ASME A112.19.2/CSA B45.1.	12 Additional	0	0			None
802.6	802.6 Irrigation systems						
802.6.1	802.6.1 Where an irrigation system is installed, an irrigation plan and implementation are executed by a qualified professional or equivalent.	Mandatory					None
802.6.2	802.6.2 Irrigation sprinkler nozzles shall be tested according to ANSI standard ASABE/ICC 802-2014 Landscape Irrigation Sprinkler and Emitter Standard by an accredited third party laboratory.	6	0	0			None
802.6.3	802.6.3 Drip irrigation is installed.						
(1)	Drip irrigation is installed for all landscape beds.	4	0	0			None
(2)	Subsurface drip is installed for all turf grass areas.	4	0	0			None
(3)	Drip irrigation zones specifications show plant type by name and water use/need for each emitter (Points awarded only if specifications are implemented.)	5	0	0			None
802.6.4	802.6.4 The irrigation system(s) is controlled by a smart controller or no irrigation is installed. (Points are not additive.)						
(1)	Irrigation controllers shall be in accordance with the performance criteria of the EPA WaterSense program	10	0	0			None
(2)	No irrigation is installed and a landscape plan is developed in accordance with Section 503.5, as applicable. NOTE: 5 Points must be taken in 503.5(1)-(7) for a Full Landscape Plan in order to receive points for 802.6.4(2).	15	0	0			None
802.6.5	802.6.5 Commissioning and water use reduction for irrigation systems. (Points are not additive per each section.)						
(1)	All irrigation zones utilize pressure regulation so emission devices (sprinklers and drip emitters) operate at manufacturer's recommended operating pressure.	3	0	0			None
(2)	Where dripline tubing is installed, a filter with mesh size in accordance with the manufacturer's recommendation is installed on all drip zones.	3	0	0			None
(3)	Utilize spray bodies that incorporate an in-stem or external flow shut-off device.	3	0	0			None
(4)	For irrigation systems installed on sloped sites, either an in-stem or external check valve is utilized for each spray body.	3	0	0			None
(5)	Where an irrigation system is installed, a flow sensing device is installed to monitor and alert the controller when flows are outside design range	3	0	0			None
802.7	802.7 Rainwater collection and distribution. Rainwater collection and distribution is provided.						
802.7.1	802.7.1 Rainwater is used for irrigation in accordance with one of the following:		0	0			None
(1)	Rainwater is diverted for landscape irrigation without impermeable water storage	5					
(2)	Rainwater is diverted for landscape irrigation with impermeable water storage in accordance with one of the following:						
(a)	50 – 499 gallon storage capacity	5					
(b)	500 – 2499 gallon storage capacity	10					
(c)	2500 gallon or larger storage capacity (system is designed by a professional certified by The American Rainwater Catchment Systems Association or equivalent)	15					
(d)	All irrigation demands are met by rainwater capture (documentation demonstrating the water needs of the landscape is provided and the system is designed by a professional certified by The American Rainwater Catchment Systems Association or equivalent).	25					
802.7.2	802.7.2 Rainwater is used for indoor domestic demand as follows. The system is designed by a professional certified by The American Rainwater Catchment Systems Association or equivalent.		0	0			
(1)	Rainwater is used to supply an indoor appliance or fixture for any locally approved use. (Points awarded per appliance or fixture.)	5 15 Max					None
(2)	Rainwater provides for total domestic demand.	25					None
802.8	802.8 Sediment filters. Water filter is installed to reduce sediment and protect plumbing fixtures for the whole building or the entire dwelling unit.	1	0	0			None
802.9	802.9 Water treatment devices.						
802.9.1	802.9.1 Water Softeners shall not be installed where the supplied water hardness is less than 8.0 grains per gallon measured as total calcium carbonate equivalents. Water softeners shall be listed to NSF 44 and a rated salt efficiency of 3400 grains of total hardness per 1.0 pound of salt based on sodium chloride equivalency. Devices shall not discharge more than 4.0 gallons of water per 1000 grains of hardness removed during the service or recharge cycle.		0	0			None
(1)	No water softener.	5					
(2)	Water softener installed to supply softened water only to domestic water heater.	2					
802.9.2	802.9.2 Reverse Osmosis (R/O) water treatment systems shall be listed to NSF 58 and shall include automatic shut-off valve to prevent water discharge when storage tank is full.		0	0			None
(1)	No R/O system.	3					
(2)	Combined capacity of all R/O systems does not exceed 0.75 gallons.	1					
802.10	802.10 Pools and spas.						
802.10.1	802.10.1 Pools and Spas with water surface area greater than 36 square feet and connected to a water supply shall have a dedicated meter to measure the amount of water supplied to the pool or spa.	Mandatory					None
(1)	Automated motorized non-permeable pool cover that covers the entire pool surface.	10	0	0			None
803 INNOVATIVE PRACTICES							
803.1	803.1 Reclaimed, gray, or recycled water. Reclaimed, gray, or recycled water is used as permitted by applicable code. (Points awarded for either Section 803.1(1) or 803.1(2), not both.) (Points awarded for either Section 803.6 or 803.1, not both.)		0	0			
(1)	each water closet flushed by reclaimed, gray, or recycled water (Points awarded per fixture or appliance.)	5 20 Max					None
(2)	Irrigation from reclaimed, gray, or recycled water on-site	10					None
803.2	803.2 Reclaimed water, graywater, or rainwater pre-piping. Reclaimed, graywater, or rainwater systems are rough plumbed (and permanently marked, tagged or labeled) into buildings for future use.	3 per roughed in system	0	0		# of systems.	None
803.3	803.3 Automatic leak detection and control devices. One of the following devices is installed.						None

	Where a fire sprinkler system is present, ensure the device will be installed to not interfere with the operation of the fire sprinkler system.	2	0	0		
(1)	automatic water leak detection and control devices					
(2)	automatic water leak detection and shutoff devices					
803.4	803.4 Engineered biological system or intensive bioremediation system. An engineered biological system or intensive bioremediation system is installed and the treated water is used on site. Design and implementation are approved by appropriate regional authority.	20	0	0		None
803.5	803.5 Recirculating humidifier. Where a humidifier is required, a recirculating humidifier is used in lieu of a traditional "flow through" type.	1	0	0		None
803.6	803.6 Advanced wastewater treatment system. Advanced wastewater (aerobic) treatment system is installed and treated water is used on site.	20	0	0		None
(Points awarded for either Section 803.6 or 803.1, not both.)						
804 PERFORMANCE PATH						
804.1	804.1 Performance Path. The index score for the Performance Path shall be calculated in accordance with Appendix D Water Rating Index (WRI) or equivalent methodology.		None		WRI	
804.2	804.2 Water efficiency rating levels. In lieu of threshold levels for Chapter 8 in Table 303, rating levels for Section 804.1 are in accordance with Table 804.2.					None
804.3	804.3 Water efficiency NGBS points equivalency. The additional points for use with Table 303 from the Chapter 8 Water Efficiency Category are determined in accordance with equation 804.3.		(As Designed)			
				0	0	
	Equation 804.3					
	$NGBS = WRI \times (-2.29) + 181.7$					

901 POLLUTANT SOURCE CONTROL

901.0	901.0 Intent. Pollutant sources are controlled.						
901.1	901.1 Space and water heating options						
901.1.1	901.1.1 Natural draft furnaces, boilers, or water heaters are not located in conditioned spaces, including conditioned crawlspaces, unless located in a mechanical room that has an outdoor air source and is sealed and insulated to separate it from the conditioned space(s).	5	0	0			None
	(Points are awarded only for buildings that use natural draft combustion space or water heating equipment.)						
901.1.2	901.1.2 Air handling equipment or return ducts are not located in the garage, unless placed in isolated, air-sealed mechanical rooms with an outside air source.	5	0	0			None
	Not available if there is no attached garage						
901.1.3	901.1.3 The following combustion space heating or water heating equipment is installed within conditioned space:						
(1)	all furnaces or all boilers		0	0			None
(a)	power vent furnace(s) or boiler(s)	3					
(b)	direct vent furnace(s) or boiler(s)	5					
(2)	all water heaters		0	0			None
(a)	power vent water heater(s)	3					
(b)	direct vent water heater(s)	5					
901.1.4	901.1.4 Gas-fired fireplaces and direct heating equipment is listed and is installed in accordance with the NFPA 54, ICC IFGC, or the applicable local gas appliance installation code. Gas-fired fireplaces within dwelling units or sleeping units and direct heating equipment are vented to the outdoors. Alcohol burning devices and kerosene heaters are vented to the outdoors.	Mandatory					None
901.1.5	901.1.5 Natural gas and propane fireplaces are direct vented, have permanently fixed glass fronts or gasketed doors, and comply with CSA 221.88/CSA 2.33 or CSA 221.50b/CSA 2.22b.	7	0	0			None
901.1.6	901.1.6 The following electric equipment is installed:		5	0			None
(1)	heat pump air handler in unconditioned space	2					
(2)	heat pump air handler in conditioned space	5					
901.2	901.2 Solid fuel-burning appliances						
901.2.1	901.2.1 Solid fuel-burning fireplaces, inserts, stoves and heaters are code compliant and are in accordance with the following requirements:						
(1)	Site-built masonry wood-burning fireplaces use outside combustion air and include a means of sealing the flue and the combustion air outlets to minimize interior air (heat) loss when not in operation.	Mandatory	4	0	0		None
(2)	Factory-built, wood-burning fireplaces are in accordance with the certification requirements of UL 127 and are an EPA Phase 2 Emission Level Qualified Model.	Mandatory	6	0	0		None
(3)	Wood stove and fireplace inserts, as defined in UL 1482 Section 3.8, are in accordance with the certification requirements of UL 1482 and are in accordance with the emission requirements of the EPA Certification and the State of Washington WAC 173-433-100(3).	Mandatory	6	0	0		None
(4)	Pellet (biomass) stoves and furnaces are in accordance with ASTM E1509 or are EPA certified.	Mandatory	6	0	0		None
(5)	Masonry heaters are in accordance with the definitions in ASTM E1602 and ICC IBC Section 2112.1.	Mandatory	6	0	0		None
901.2.2	901.2.2 Fireplaces, woodstoves, pellet stoves, or masonry heaters are not installed.	6	6	0			None
901.3	901.3 Garages. Garages are in accordance with the following:						
(1)	Attached garage						
(a)	Doors installed in the common wall between the attached garage and conditioned space are tightly sealed and gasketed.	Mandatory	2	0			None
(b)	A continuous air barrier is provided separating the garage space from the conditioned living spaces.	Mandatory	2	0			None
(c)	For one- and two-family dwelling units, a 100 cfm (47 L/s) or greater ducted or 70 cfm (33 L/s) cfm or greater unducted wall exhaust fan is installed and vented to the outdoors and is designed and installed for continuous operation or has controls (e.g., motion detectors, pressure switches) that activate operation for a minimum of 1 hour when either human passage door or roll-up automatic doors are operated. For ducted exhaust fans, the fan airflow rating and duct sizing are in accordance with ASHRAE Standard 62.2-2007 Section 7.3.		8	0	0		None
(2)	A carport is installed, the garage is detached from the building, or no garage is installed.	10	0	0			None
901.4	901.4 Wood materials. A minimum of 85 percent of material within a product group (i.e., wood structural panels, countertops, composite trim/doors, custom woodwork, and/or component closet shelving) is manufactured in accordance with the following:	10 Max	0	0			
(1)	Structural plywood used for floor, wall, and/or roof sheathing is compliant with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing is compliant with DOC PS 2. The panels are made with moisture-resistant adhesives. The trademark indicates these adhesives as follows: Exposure 1 or Exterior for plywood, and Exposure 1 for OSB. NOTE: If "N/A" is selected, please explain in the Notes area.	Mandatory					None
	Countertops						None
	Composite trim/doors						
	Custom woodwork						
	Component closet shelving						
(2)	Particleboard and MDF (medium density fiberboard) is manufactured and labeled in accordance with CPA A208.1 and CPA A208.2, respectively.	2					
(3)	Hardwood plywood in accordance with HPVA HP-1.	2					
(4)	Particleboard, MDF, or hardwood plywood is in accordance with CPA 4.	3					
(5)	Composite wood or agrifiber panel products contain no added urea-formaldehyde or are in accordance with the CARB Composite Wood Air Toxic Contaminant Measure Standard.	4					
(6)	Non-emitting products.	4					
901.5	901.5 Cabinets. A minimum of 85 percent of installed cabinets are in accordance with one or both of the following:						
	(Where both of the following practices are used, only 3 points are awarded.)						
(1)	All parts of the cabinet are made of solid wood or non-formaldehyde emitting materials such as metal or glass.	5	0	0			None
(2)	The composite wood used in wood cabinets is in accordance with CARB Composite Wood Air Toxic Contaminant Measure Standard or equivalent as certified by a third-party program such as, but not limited to, those in Appendix B.	3	0	0			None
901.6	901.6 Carpets. Wall-to-wall carpeting is not installed adjacent to water closets and bathing fixtures.	Mandatory					None
901.7	901.7 Floor materials. The following types of finished flooring materials are used. The materials have emission levels in accordance with CDPH/EHLB Standard Method v1.1. Product is tested by a laboratory with the CDPH/EHLB Standard Method v1.1 within the laboratory scope of accreditation to ISO/IEC 17025 and certified by a third-party program accredited to ISO 17065, such as, but not limited to, those in Appendix B.	1 8 Max	0	0			
	(Points are awarded for every 10% of conditioned floor space using one of the below materials.)						
(1)	Hard surface flooring: Prefinished installed hard-surface flooring is installed. Where post-manufacture coatings or surface applications have not been applied, the following hard surface flooring types are deemed to comply with the emission requirements of this practice:				actual %:		None
(a)	Ceramic tile flooring						
(b)	Organic-free, mineral-based flooring						
(c)	Clay masonry flooring						
(d)	Concrete masonry flooring						
(e)	Concrete flooring						
(f)	Metal flooring						
(2)	Carpet meeting and carpet cushion not meeting the emission limits is installed.				actual %'s:		None
(3)	Carpet and carpet cushion meeting the emission limits is installed.						

(When carpet cushion meeting the emission limits of the practice is also installed, the percentage of compliant carpet area is calculated at 1.33 times the actual installed area.)						
901.8	901.8 Wall coverings. A minimum of 10 percent of the interior wall surfaces are covered and a minimum of 85 percent of wall coverings are in accordance with the emission concentration limits of CDPH/EHLB Standard Method v1.1. Emission levels are determined by a laboratory accredited to ISO/IEC 17025 and the CDPH/EHLB Standard Method v1.1 is in its scope. The product is certified by a third-party program accredited to ISO 17065, such as, but not limited to, those in Appendix B.	4	0	0		None
901.9	901.9 Interior architectural coatings. A minimum of 85 percent of the interior architectural coatings are in accordance with either Section 901.9.1 or Section 901.9.2, not both. A minimum of 85 percent of architectural colorants are in accordance with Section 901.9.2.					None
901.9.1	901.9.1 Site-applied interior architectural coatings, which are inside the water proofing envelope, are in accordance with one or more of the following:	5	5	0		
(1)	Zero VOC as determined by EPA Method 24 (VOC content is below the detection limit for the method)					None
(2)	GreenSeal GS-11					None
(3)	CARB Suggested Control Measure for Architectural Coatings (see Table 901.9.1).					None
901.9.2	901.9.2 Architectural coating colorant additive VOC content is in accordance with Table 901.9.2. (Points for 901.9.2 are awarded only if base architectural coating is in accordance with 901.9.1.) See Table 901.9.2	1	0	0		None
901.9.3	901.9.3 Site-applied interior architectural coatings, which are inside the waterproofing envelope, are in accordance with the emission levels of CDPH/EHLB Standard Method v1.1. Emission levels are determined by a laboratory accredited to ISO/IEC 17025 and the CDPH/EHLB Standard Method v1.1 in its scope of accreditation. The product is certified by a third-party program accredited to ISO 17065, such as, but not limited to, those found in Appendix B.	8	0	0		None
901.10	901.10 Interior adhesives and sealants. A minimum of 85 percent of site-applied adhesives and sealants located inside the waterproofing envelope are in accordance with one of the following, as applicable.		0	0		
(1)	The emission levels are in accordance with CDPH/EHLB Standard Method v1.1. Emission levels are determined by a laboratory accredited to ISO/IEC 17025 and the CDPH/EHLB Standard Method v1.1 is in its scope of accreditation. The product is certified by a third-party program accredited to ISO 17065, such as, but not limited to, those found in Appendix B.	8				None
(2)	GreenSeal GS-36.	5				None
(3)	SCAQMD Rule 1168 in accordance with Table 901.10(3), excluding products that are sold in 16 ounce containers or less and are regulated by the California Air Resources Board (CARB) Consumer Products Regulations. See Table 901.10(3)	5				None
901.11	901.11 Insulation. Emissions of 85 percent of wall, ceiling, and floor insulation materials are in accordance with the emission levels of CDPH/EHLB Standard Method v1.1. Emission levels are determined by a laboratory accredited to ISO/IEC 17025 and the CDPH/EHLB Standard Method v1.1 is in its scope of accreditation. Insulation is certified by a third-party program accredited to ISO 17065, such as, but not limited to, those in Appendix B.	4	0	0		None
901.12	901.12 Furniture and Furnishings. In a multifamily building, all furniture in common areas shall have VOC emission levels in accordance with ANSI/BIFMA e3-Furniture Sustainability Standard sections 7.6.1 and 7.6.2, tested in accordance with ANSI/BIFMA Standard Method M7.1.	2	0	0		None
901.13	901.13 Carbon monoxide (CO) alarms. A carbon monoxide (CO) alarm is provided in accordance with the IRC Section R315.	Mandatory				None
901.14	901.14 Building entrance pollutants control. Pollutants are controlled at all main building entrances by one of the following methods:		0	0		None
(1)	Exterior grilles or mats are installed in a fixed manner and may be removable for cleaning.	1				
(2)	Interior grilles or mats are installed in a fixed manner and may be removable for cleaning.	1				
901.15	901.15 Non-smoking areas. Environmental tobacco smoke is minimized by one or more of the following:					
(1)	All interior common areas of a multifamily building are designated as non-smoking areas with posted signage.	1	0	0		None
(2)	Exterior smoking areas of a multifamily building are designated with posted signage and located a minimum of 25 feet from entries, outdoor air intakes, and operable windows.	1	0	0		None
902 POLLUTANT CONTROL						
902.0	902.0 Intent. Pollutants generated in the building are controlled.					
902.1	902.1 Spot ventilation.					
902.1.1	902.1.1 Spot ventilation is in accordance with the following:					
(1)	Bathrooms are vented to the outdoors. The minimum ventilation rate is 50 cfm (23.6 L/s) for intermittent operation or 20 cfm (9.4 L/s) for continuous operation in bathrooms.	Mandatory				None
(a)	A window complying with IRC Section R303.3 is provided in addition to mechanical ventilation.	1	0	0		None
(2)	Clothes dryers (except listed and labeled condensing ductless dryers) are vented to the outdoors.	Mandatory				None
(3)	Kitchen exhaust units and/or range hoods are ducted to the outdoors and have a minimum ventilation rate of 100 cfm (47.2 L/s) for intermittent operation or 25 cfm (11.8 L/s) for continuous operation.	8	8	0		None
902.1.2	902.1.2 Bathroom and/or laundry exhaust fan is provided with an automatic timer and/or humidistat:	11 Max	0	0	# of timers:	None
(1)	for first device	5			# of humidistats:	
(2)	for each additional device	2				
902.1.3	902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to air flow specification. Ventilation airflow at the point of exhaust is tested to a minimum of:	8	0	0		None
(a)	100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and					
(b)	50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for bathrooms and/or laundry					
902.1.4	902.1.4 Exhaust fans are ENERGY STAR, as applicable.	12 Max	3	0		None
(1)	ENERGY STAR, or equivalent, fans operating above 1 sone (Points awarded per fan.)	2			# of fans:	
(2)	ENERGY STAR, or equivalent, fans operating at or below 1 sone (Points awarded per fan.)	3				
902.1.5	902.1.5 Fenestration in spaces other than those identified in 902.1.1 through 902.1.4 are designed for stack effect or cross-ventilation in accordance with all of the following:	3	0	0		
(1)	Operable windows, operable skylights, or sliding glass doors with a total area of at least 15 percent of the total conditioned floor area are provided.					None
(2)	Insect screens are provided for all operable windows, operable skylights, and sliding glass doors.					None
(3)	A minimum of two operable windows or sliding glass doors are placed in adjacent or opposite walls. If there is only one wall surface in that space exposed to the exterior, the minimum windows or sliding glass doors may be on the same wall.					None
902.1.6	902.1.6 Ventilation for Multifamily Common Spaces. Systems are implemented and are in accordance with the specifications of ASHRAE 62.1 and an explanation of the operation and importance of the ventilation system is included in 1002.1 and 1002.2 of NGBS.	3	3	0		None
902.2	902.2 Building ventilation systems.					
902.2.1	902.2.1 One of the following whole building ventilation systems is implemented and is in accordance with the specifications of ASHRAE Standard 62.2-2010 Section 4 and an explanation of the operation and importance of the ventilation system is included in either 1001.1(9) or 1002.2(11).	N/A	0	0		None
(1)	exhaust or supply fan(s) ready for continuous operation and with appropriately labeled controls	3				

(2)	balanced exhaust and supply fans with supply intakes located in accordance with the manufacturer's guidelines so as to not introduce polluted air back into the building	6							
(3)	heat-recovery ventilator	7							
(4)	energy-recovery ventilator	8							
(5)	Ventilation air is preconditioned by a system not specified above	10							
902.2.2	902.2.2 Ventilation airflow is tested to achieve the design fan airflow in accordance with ANSI/RESNET/ICC 380 and Section 902.2.1.	4	0	0				None	
902.2.3	902.2.3 MERV filters 8 to 13 are installed on central forced air systems and are accessible. Designer or installer is to verify that the HVAC equipment is able to accommodate the greater pressure drop of MERV 8 to 13 filters.	2	2	0				None	
902.2.4	902.2.4 MERV filters 14 or greater are installed on central forced air systems and are accessible. Designer or installer is to verify that the HVAC equipment is able to accommodate the greater pressure drop of the filter used.	3	0	0				None	
902.3	902.3 Radon reduction measures. Radon reduction measures are in accordance with ICC IRC Appendix F or 902.3.1. Radon Zones as identified by the AHJ or, if the zone is not identified by the AHJ, as defined in Figure 9(1).	Mandatory						None	
(1)	Buildings located in Zone 1			0	0				
(a)	a passive radon system is installed	N/A							
(b)	an active radon system is installed	12							
(2)	Buildings located in Zone 2 or Zone 3			0	0				
(a)	a passive radon system is installed	6							
(b)	an active radon system is installed	12							
902.3.1	902.3.1 Radon reduction option. This option requires section 902.3.2.1 through 902.3.2.7.								
902.3.1.1	902.3.1.1 Soil-gas barriers and base course. A base course in accordance with Section 506.2.2 of the IRC shall be installed below slabs and foundations. There shall be a continuous gas-permeable base course under each soil-gas retarder that is separated by foundation walls or footings. Between slabs and the base course, damp proofing or water proofing shall be installed in accordance with Section 406 of the IRC. Punctures, tears and gaps around penetrations of the soil-gas retarder shall be repaired or covered with an additional soil-gas retarder. The soil-gas retarder shall be a continuous 6-mil (0.15 mm) polyethylene or an approved equivalent.								
902.3.1.2	902.3.1.2 Soil gas collection. There shall be an unobstructed path for soil gas flow between the void space installed in the base course and the vent through the roof. Soil gases below the foundation shall be collected by a perforated pipe with a diameter of not less than 4 inches (10 cm) and not less than 5 feet (1.5 m) in total length. A tee fitting or equivalent method shall provide two horizontal openings to the radon collection. The tee fitting shall be designed to prevent clogging of the radon collection path. Alternately the soil gas collection shall be by approved radon collection mats or an equivalent approved method.								
902.3.1.3	902.3.1.3 Soil gas entry routes. Openings in slabs, soil-gas retarders, and joints such as, but not limited to, plumbing, ground water control systems, soil-gas vent pipes, piping and structural supports, shall be sealed against air leakage at the penetrations. The sealant shall be a polyurethane caulk, expanding foam or other approved method. Foundation walls shall comply with Section 103.2.3 of the IRC. Sumps shall be sealed in accordance with Section 103.2.2 of the IRC. Sump pits and sump lids intended for ground water control shall not be connected to the sub-slab soil-gas exhaust system.								
902.3.1.4	902.3.1.4 Soil gas vent. A gas-tight pipe vent shall extend from the soil gas permeable layer through the roof. The vent pipe size shall not be reduced at any location as it goes from gas collection to the roof. Exposed and visible interior vent pipes shall be identified with not less than one label reading "Radon Reduction System" on each floor and in habitable attics.								
902.3.1.5	902.3.1.5 Vent pipe diameter. The minimum vent pipe diameter shall be as specified in Table 902.3.2.5.								
902.3.1.6	902.3.1.6 Multiple vented areas. In dwellings where interior footings or other barriers separate the soil-gas permeable layer, each area shall be fitted with an individual vent pipe. Vent pipes shall connect to a single vent that terminates above the roof or each individual vent pipe shall terminate separately above the roof.								
902.3.1.7	902.3.1.7 Fan. Each sub-slab soil-gas exhaust system shall include a fan, or dedicated space for the post-construction installation of a fan. The electrical supply for the fan shall be located within 6 feet (1.8 m) of the fan. Fan is not required to be on a dedicated circuit.								
902.3.2	902.3.2 Radon testing. Radon testing is mandatory for Zone 1.	N/A							
	Exceptions:								
(2)	Testing is not mandatory where the occupied space is located above an unenclosed open space.								
(1)	Testing specifications. Testing is performance as specified in (a) through (j).	8	0	0				None	
(a)	Testing is performed after the residence passes its airtightness test.								
(b)	Testing is performed after the radon control system installation is complete. If the system has an active fan, the residence shall be tested with the fan operating.								
(c)	Testing is performed at the lowest level within a dwelling unit which will be occupied, even if the space is not finished.								
(d)	Testing is not performed in a closet, hallway, stairway, laundry room, furnace room, kitchen or bathroom.								
(e)	Testing is performed with a commercially available test kit or with a continuous radon monitor that can be calibrated. Testing shall be in accordance with the testing device manufacturer's instructions.								
(f)	Testing shall be performed by the builder, a registered design professional, or an approved third party.								
(g)	Testing shall extend at least 48 hours or to the minimum specified by the manufacturer, which ever is longer.								
(h)	Written radon test results shall be provided by the test lab or testing party. Written test results shall be included with construction documents.								
(i)	An additional pre-paid test kit shall be provided for the homeowner to use when they choose. The test kit shall include mailing or emailing the results from the testing lab to the homeowner.								
(j)	Where the radon test result is 4 pCi/L or greater, the fan for the radon vent pipe shall be installed.								
(2)	Testing results. A radon test done in accordance with 902.3.1 and completed before occupancy receives a results of 2 pCi/L or less.	6	0	0				None	
902.4	902.4 HVAC system protection. One of the following HVAC system protection measures is performed.	3	3	0					
(1)	HVAC supply registers (boots), return grilles, and rough-ins are covered during construction activities to prevent dust and other pollutants from entering the system.							None	
(2)	Prior to owner occupancy, HVAC supply registers (boots), return grilles, and duct terminations are inspected and vacuumed. In addition, the coils are inspected and cleaned and the filter is replaced if necessary.							None	
(3)	If HVAC systems are to be operated, during construction, all return grilles have a temporary MERV 8 or higher filter installed in a manner ensuring no leakage around the filter.							None	
902.5	902.5 Central vacuum systems. Central vacuum system is installed and vented to the outside.	3	0	0				None	
902.6	902.6 Living space contaminants. The living space is sealed in accordance with Section 701.4.3.1 to prevent unwanted contaminants.	Mandatory						None	
903 MOISTURE MANAGEMENT: VAPOR, RAINWATER, PLUMBING, HVAC									
903.0 Intent. Moisture and moisture effects are controlled.									
903.1	903.1 Plumbing. Plumbing is in accordance with one of the following.		5	0				None	
(1)	Cold water pipes in unconditioned spaces are insulated to a minimum of R-4 with pipe insulation or other covering that adequately prevents condensation.	2							
(2)	Plumbing is not installed in unconditioned spaces.	5							
903.2	903.2 Duct insulation. Ducts are in accordance with one of the following.		3	0				None	

	(1) All HVAC ducts, plenums, and trunks are located in conditioned space.	1					
	(2) All HVAC ducts, plenums, and trunks are in conditioned space. All HVAC ducts are insulated to a minimum of R4.	3					
903.3	903.3 Relative humidity. In climate zones 1A, 2A, 3A, 4A, and 5A, equipment is installed to maintain relative humidity (RH) at or below 60 percent using one of the following:	7	0	0			None
	(1) additional dehumidification system(s)						
	(2) central HVAC system equipped with additional controls to operate in dehumidification mode						
904 INDOOR AIR QUALITY							
904.0	904.0 Intent. IAQ is protected by best practices to control ventilation, moisture, pollutant sources and sanitation.						
904.1	904.1 Indoor Air Quality (IAQ) During Construction. Wood is dry before close-in (602.1.7.1(3)), materials comply with emission criteria (901.4-901.11), sources of water infiltration or condensation observed during construction have been eliminated, accessible interior surfaces are dry and free of visible suspect growth (per ASTM D7338-10 section 6.3), and water damage (per ASTM D7338-10 section 7.4.3).	2	0	0			None
904.2	904.2 Indoor Air Quality (IAQ) Post Completion. Verify there are no moisture, mold, and dust issues per 602.1.7.1(3), 901.4-901.11, ASTM D7338 Section 6.3, and ASTM D7338 Section 7.4.3.	3	0	0			None
904.3	904.3 Microbial growth & moisture inspection and remediation. A visual inspection is performed to confirm the following:						
	(1) Verify that no visible signs of discoloration and microbial growth on ceilings, walls or floors, or other building assemblies Or if minor microbial growth is observed (less than within a total area of 25 square feet) in homes or multifamily buildings, reference EPA Document 402-K-02-003 (A Brief Guide to Mold, Moisture, and Your Home) for guidance on how to properly remediate the issue. If microbial growth is observed, on a larger scale in homes or multifamily buildings (greater than 25 sq ft), reference EPA document 402-k-01-001 (Mold Remediation in Schools and Commercial Buildings) for guidance on how to properly remediate the issue.				Mandatory		None
	(2) Verify that there are no visible signs of water damage or pooling. If signs of water damage or pooling are observed, verify that the source of the leak has been repaired, and that damaged materials are either properly dried or replaced as needed.				Mandatory		None
905 INNOVATIVE PRACTICES							
905.1	905.1 Humidity monitoring system. A humidity monitoring system is installed with a mobile base unit that displays readings of temperature and relative humidity. The system has a minimum of two remote sensor units. One remote sensor unit is placed permanently inside the conditioned space in a central location, excluding attachment to exterior walls, and another remote sensor unit is placed permanently outside of the conditioned space.	2	0	0			None
905.2	905.2 Kitchen exhaust. A kitchen exhaust unit(s) that equals or exceeds 400 cfm (189 L/s) is installed, and makeup air is provided.	2	0	0			None
905.3	905.3 Enhanced air filtration. Meet all of the following.	2	0	0			
	(1) Design for and install a secondary filter rack space for activated carbon filters.						None
	(2) Provide the manufacturer's recommended filter maintenance schedule to the homeowner or building manager.						None
905.4	905.4 Sound barrier. Provide room-to-room privacy between bedrooms and adjacent living spaces within dwelling units or homes by achieving an articulation index (AI) between 0 and 0.15 per the criteria below. <i>Articulation Index 0 to 0.05 = STC greater than 55 (NIC greater than 47)</i> <i>Articulation Index 0.05 to 0.15 = STC 52 to 55 (NIC 44 to 47)</i>	1 SF / 4 MF	0	0			None
905.5	905.5 Evaporative coil mold prevention. For buildings with a mechanical system for cooling, ultraviolet lamps are installed on the cooling coils and drain pans of the mechanical system supplies. Lamps produce ultraviolet radiation at a wavelength of 254 nm so as not to generate ozone. Lamps have ballasts housed in a NEMA-rated enclosure.	2	0	0			None

1001 HOMEOWNER'S MANUAL AND TRAINING GUIDELINES FOR ONE- AND TWO-FAMILY DWELLINGS

1001.0	1001.0 Intent. Information on the building's use, maintenance, and green components is provided.						
1001.1	1001.1 A homeowner's manual is provided and stored in a permanent location in the dwelling that includes the following, as available and applicable. (Points awarded per two items. Points awarded for non-mandatory items.)	1 8 Max	0	0			
(1)	A National Green Building Standard certificate with weblink and completion document.	N/A					None
(2)	List of green building features (can include the national green building checklist).	N/A					None
(3)	Product manufacturer's manuals or product data sheet for installed major equipment, fixtures, and appliances. If product data sheet is in the building owners' manual, manufacturer's manual may be attached to the appliance in lieu of inclusion in the building owners' manual.	N/A					None
(4)	Maintenance checklist.						None
(5)	Information on local recycling and composting programs.						None
(6)	Information on available local utility programs that purchase a portion of energy from renewable energy providers.						None
(7)	Explanation of the benefits of using energy-efficient lighting systems [e.g., compact fluorescent light bulbs, light emitting diode (LED)] in high-usage areas.						None
(8)	A list of practices to conserve water and energy.						None
(9)	Information on the importance and operation of the home's fresh air ventilation system.	N/A					None
(10)	Local public transportation options.						None
(11)	A diagram showing the location of safety valves and controls for major building systems.						None
(12)	Where frost-protected shallow foundations are used, owner is informed of precautions including: (a) instructions to not remove or damage insulation when modifying landscaping. (b) providing heat to the building as required by the ICC IRC or IBC. (c) keeping base materials beneath and around the building free from moisture caused by broken water pipes or other water sources.						None
(13)	A list of local service providers that offer regularly scheduled service and maintenance contracts to ensure proper performance of equipment and the structure (e.g., HVAC, water-heating equipment, sealants, caulks, gutter and downspout system, shower and/or tub surrounds, irrigation system).						None
(14)	A photo record of framing with utilities installed. Photos are taken prior to installing insulation, clearly labeled, and included as part of the building owners' manual.						None
(15)	List of common hazardous materials often used around the building and instructions for proper handling and disposal of these materials.						None
(16)	Information on organic pest control, fertilizers, deicers, and cleaning products.						None
(17)	Information on native landscape materials and/or those that have low water requirements.						None
(18)	Information on methods of maintaining the building's relative humidity in the range of 30 percent to 60 percent.						None
(19)	Instructions for inspecting the building for termite infestation.						None
(20)	Instructions for maintaining gutters and downspouts and importance of diverting water a minimum of 5 feet away from foundation.						None
(21)	A narrative detailing the importance of maintenance and operation in retaining the attributes of a green-built building.						None
(22)	Where stormwater management measures are installed on the lot, information on the location, purpose, and upkeep of these measures.						None
(23)	Explanation of and benefits from green cleaning in the home.						None
(24)	Retrofit energy calculator that provides baseline for future energy retrofits.						None
1001.2	1001.2 Training of initial homeowners. Initial homeowners are familiarized with the role of occupants in achieving green goals. Training is provided to the responsible party(ies) regarding equipment operation and maintenance, control systems, and occupant actions that will improve the environmental performance of the building. These include: (1) HVAC filters. (2) Thermostat operation and programming. (3) Lighting controls. (4) Appliances operation. (5) Water heater settings and hot water use. (6) Fan controls. (7) Recycling and composting practices. (8) Whole-dwelling mechanical ventilation systems.	N/A 8	0	0			None

1002 CONSTRUCTION, OPERATION, AND MAINTENANCE MANUALS AND TRAINING FOR MULTI-UNIT BUILDINGS

1002.0	1002.0 Intent. Manuals are provided to the responsible parties (owner, management, tenant, and/or maintenance team) regarding the construction, operation, and maintenance of the building. Paper or digital format manuals are to include information regarding those aspects of the building's construction, maintenance, and operation that are within the area of responsibilities of the respective recipient. One or more responsible parties are to receive a copy of all documentation for archival purposes.						
1002.1	1002.1 Building construction manual. A building construction manual, including five or more of the following, is compiled and distributed in accordance with Section 1002.0. (Points awarded per two items. Points awarded for non-mandatory items.)	1	1	0	Build-to-Rent?		
(1)	A narrative detailing the importance of constructing a green building, including a list of green building attributes included in the building. This narrative is included in all responsible parties' manuals.	N/A					None
(2)	A local green building program certificate as well as a copy of the National Green Building Standard™, as adopted by the Adopting Entity, and the individual measures achieved by the building.	N/A					None
(3)	Warranty, operation, and maintenance instructions for all equipment, fixtures, appliances, and finishes.	N/A					None
(4)	Record drawings of the building.						None
(5)	A record drawing of the site including stormwater management plans, utility lines, landscaping with common name and genus/species of plantings.						None
(6)	A diagram showing the location of safety valves and controls for major building systems.						None
(7)	A list of the type and wattage of light bulbs installed in light fixtures.						None
(8)	A photo record of framing with utilities installed. Photos are taken prior to installing insulation and clearly labeled.						None
1002.2	1002.2 Operations manual. Operations manuals are created and distributed to the responsible parties in accordance with Section 1002.0. Between all of the operation manuals, five or more of the following options are included. (Points awarded per two items. Points awarded for non-mandatory items.)	1	2	0	Build-to-Rent?		
(1)	A narrative detailing the importance of operating and living in a green building. This narrative is included in all responsible parties' manuals.	N/A					None
(2)	A list of practices to conserve water and energy (e.g., turning off lights when not in use, switching the rotation of ceiling fans in changing seasons, purchasing ENERGY STAR appliances and electronics).	N/A					None
(3)	Information on methods of maintaining the building's relative humidity in the range of 30 percent to 60 percent.						None
(4)	Information on opportunities to purchase renewable energy from local utilities or national green power providers and information on utility and tax incentives for the installation of on-site renewable energy systems.						None
(5)	Information on local and on-site recycling and hazardous waste disposal programs and, if applicable, building recycling and hazardous waste handling and disposal procedures.						None
(6)	Local public transportation options.						None
(7)	Explanation of the benefits of using compact fluorescent light bulbs, LEDs, or other high-efficiency lighting.						None
(8)	Information on native landscape materials and/or those that have low water requirements.						None

uploaded to a multiple listing service (MLS) or equivalent database so that appraisers can access it to compare property valuations.

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Home Innovation makes key certification details available, but MLS organizations need to take affirmative action to ensure data is received and made publicly available. Contact us for more details.

- MyPortfolio**
- Sharing
- Reporting
- Recognition

750 23rd Street South



750 23rd Street South, Arlington, VA 22202 | [Map It](#)
 Portfolio Manager Property ID: 35996224
 Year Built: 2026

[Edit](#)

Not currently eligible for ENERGY STAR Certification

[Change Metric](#)

Site EUI (kBtu/ft ²)	
Current:	N/A
Baseline:	N/A

- Summary
- ! Details**
- ! Energy**
- Water
- Waste & Materials
- Goals
- Design

Your Design Score

93

This score is based on default use information.

[Learn more about Designed to Earn the ENERGY STAR.](#)



Your Design's **estimated energy** and **Location-Based GHG emissions** are **23.1%** better than your Design's target.



Your Design's **estimated energy** and **Location-Based GHG emissions** are **37.5%** better than the median property.



Download Your Statement of Energy Design Intent (SEDI)

This document provides an overview of your design and metrics. It is also used for Designed to Earn the ENERGY STAR applications.

[Download & Print Statement](#)



You have not entered any information about your property's performance while in use yet. But, when you do, you can see the difference here between the actual performance of your property and your design.

About this Property's Design

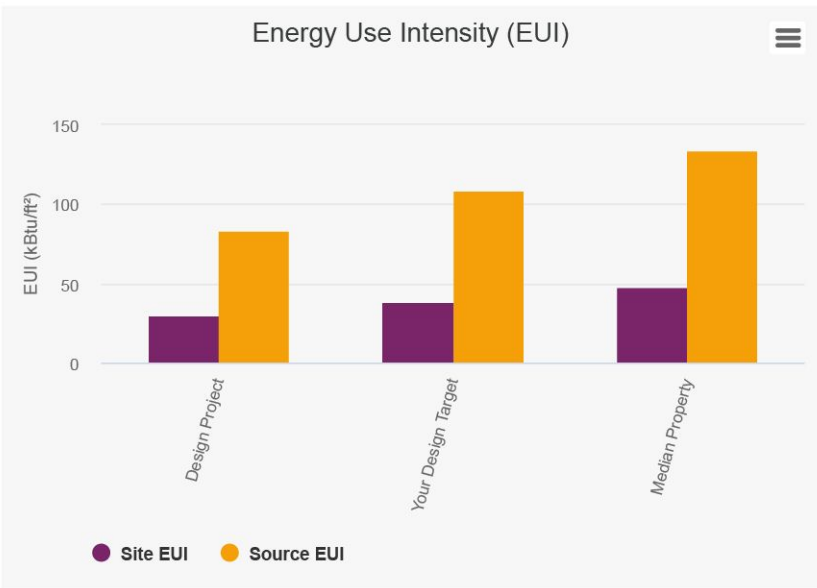
Target: Target ENERGY STAR Score: 75

Uses: Multifamily Housing (88.3%)
Office (11.7%)

Energy Types: Electric - Grid (100.0%)

[Edit](#)

Energy Use Intensity (EUI)



Metrics Comparison for Your Design and/or Target

Metric	Design Project	Design Target*	Median Property*	Property Measurement in Use
ENERGY STAR score (1-100)	93	75	50	Not Available
Source EUI (kBtu/ft ²)	83.5	108.5	133.7	Not Available
Site EUI (kBtu/ft ²)	29.8	38.8	47.8	Not Available
Source Energy Use (kBtu)	12,884,977.4	16,749,028.4	20,630,534.7	Not Available
Site Energy Use (kBtu)	4,601,777.6	5,981,796.6	7,368,049.0	Not Available
Energy Cost (\$)	13,650,368.55	17,743,950.27	21,856,028.25	Not Available
Total (Location-Based) GHG Emissions (Metric Tons CO ₂ e)	382.8	497.6	613.0	Not Available

* The calculations for the "Design Target" metrics, will either use the [average fuel mix for your state](#), or if you've entered estimated design energy, then we'll use that fuel mix. The calculations for the National "Median Property" are based on a comparison to a similar property that has a score of 50. These metrics will be calculated the same as the Design Target metrics, with one exception: once operational data is entered, the actual fuel mix and operational property use details are used.