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ICC 700-2012 National Green Building Standard™			
DESIGNERS REPORT - NATIONAL GREEN BUILDING STANDARD			
Builder/Applicant:	Gulf Bay Builders	Builder Phone:	813-494-6101
Mailing (physical) Address w/ Zip Code of Home:	2610 North Highland Ave Unit A, Tampa, Tampa 33602	Single-Family or Multi-Unit:	Single-Family
Community/Lot #:	Unit A	# of units:	
Climate Zone:	2	Square Footage:	1229
County:	Hillsborough	Project Description:	The Renegade Model
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County:	Hillsborough		Project Description: The Renegade Model
Paradia	PointsAvailable	PointsClaimed	HERS Index: 56
Practice 500 LC	OT DESIGN, PREPARATION		Designer Notes MENT
	501 LOT SEL		
501.1 Lot. The lot is selected to minimize environmental impact by one or more of the following:			
501.1(1) The builder selects a lot within an NGBS certified green community or	6		
equivalent on which to build. 501.1(2) An infill lot is selected.			
501.1(2) An infill lot is selected. 501.1(3) An infill lot is selected that is a greyfield.	7	8	
501.1(4) An EPA-recognized brownfield lot is selected.	9		
501.1(5) A lot with an average slope calculation of less than 15% is selected.	9	9	
501.2 Multi-modal transportation. A range of multi-modal transportation choices are promoted by one or more of the following:			
501.2(1) A lot is selected within 1/2 mile (805 m) of pedestrian access to a mass transit	4	4	
system or within 5 miles (8046 m) of a mass transit station with provisions for parking. 501.2(2) 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	
501.2(3) A lot is selected within 1/2 mile (805 m) of 6 or more community resources			
[e.g., recreational facilities (such as pools, tennis courts, basketball courts), parks, grocery store, post office, place of worship, community center, daycare center, bank,	4	4	
school, restaurant, medical/dental office, laundromat/dry cleaner? 501.2(4) 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	5		
bicycle lanes or on an infill lot located within 1/2 mile of a bicycle lane designated by the	,		
502 PR	OJECT TEAM, MISSION	STATEMENT AND	GOALS
502.1 Project team, mission statement, and goals. A knowledgeable team is established and team	4		
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.			
503.1 Natural resources. Natural resources are conserved by one or more of the following:	503 LOT DE	SIGN	
20012 Hotel of resources, material resources are conserved by one of more of the following:			
503.1(1) A natural resources inventory is completed under the direction of a qualified	5		
professional. 503.1(2) A plan is implemented to conserve the elements identified by the resource			
inventory as high-priority resources.	6		
503.1(3) Items listed for protection in the resource inventory plan are protected under	4		
the direction of a qualified professional. 503.1(4) Basic training in tree or other natural resource protection is provided for the on-	-		
site supervisor.	4	4	
503.1(5) All tree pruning on-site is conducted by a Certified Arborist.	3		
503.1(6) Ongoing maintenance of vegetation on the lot during construction is in accordance with TCIA A300 or locally accepted best practices.	4		
503.1(7) Where a lot adjoins a landscaped common area, a protection plan from			
construction activities next to the common area is implemented.	5		
503.2 Slope disturbance. Slope disturbance is minimized by:			
503.2(1) The use of terrain adaptive architecture including terracing, retaining walls, landscaping, or other re-stabilization techniques.	5		
503.2(2) Hydrological/soil stability study is completed and used to guide the design of all	4		
buildings on the site. 503.2(3) All or a percentage of driveways and parking are aligned with natural	,		
topography to reduce cut and fill.			
503.2(3)(a) 10% to 25% 503.2(3)(b) 25% to 75%	3		
503.2(3)(c) greater than 75%	6		
503.2(4) Long-term erosion effects are reduced through the design and implementation			
of terracing, retaining walls, landscaping, or restabilization techniques.	5		
503.2(5) Underground parking uses the natural slope for parking entrances.	5		
503.3 Soil disturbance and erosion. Soil disturbance and erosion are minimized by one or more of the following: (also see Section 504.3)			
503.3(1) Construction activities are scheduled to minimize length of time that soils are	5		
exposed.	•		use of smaller equipment
503.3(2) At least 75% of total length of the utilities on the lot are designed to use one or more alternative means:			use of smaller equipment
(a) tunneling instead of trenching	_		
 (b) use of smaller (low ground pressure) equipment or geomats to spread the weight of construction equipment 	5	5	
(c) shared utility trenches or easements			
(d) placement of utilities under paved surfaces instead of yards 503.3(3) Limits of clearing and grading are demarcated on the lot plan.	5	5	
503.4 Storm water management. A storm water management design includes one or more of the			
following low-impact development techniques:			
(For lots in a development, the points for items (1), (2), and (3) 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.)			
503.4(1) Natural water and drainage features are preserved and used. 503.4(2) Facilities that minimize concentrated flows and simulate flows found in natural	6	6	
hydrology by the use of vegetative swales, french drains, wetlands, drywells, rain	6		
gardens, and similar infiltration features.			
503.4(3) All or a percentage of impervious surfaces are minimized and permeable materials are used for driveways, parking areas, walkways, and patios.			
503.4(3)(a) less than 25%	2		
503.4(3)(b) 25 to 75% 503.4(3)(c) greater than 75%	6		
503.4(4) A minimum of 50 percent of the roof is vegetated (green roof) using technology	-		
capable of withstanding the climate conditions of the jurisdiction and the microclimate conditions of the building site. Invasive plant species are not permitted.	5		
503.4(5) Stormwater management practices that manage rainfall on-site and prevent			
the off-site discharge from all storms up to and including the volume of the 95th	6		
percentile storm event.			
503.4(6) Conduct a hydrologic analysis that results in the design of a stormwater management system that maintains the pre-development (i.e., stable, natural) runoff			
hydrology of the lot throughout the development or redevelopment process. Post-	7		
construction runoff rate, volume, and duration cannot exceed predevelopment rates.			
	1		1

503.5 A landscape 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 1-6)	No landscape plan	type selected.	
503.5(1) Where a lot is less than 50% turf, a plan is formulated to restore or enhance natural vegetation that is cleared during construction. Landscaping is phased to coincide			
with achievement of final grades to ensure denuded areas are quickly vegetated.	0		
503.5(2) Turf grass species, other vegetation, and trees are selected and specified on the			
lot plan that are native or regionally appropriate for local growing conditions.	0		
503.5(3) The percentage of turf areas that is designed to be mowed is limited and shown			
on the lot plan. The percentage is based on the landscaped area of the lot not including			
the home footprint, hardscape, and any undisturbed natural areas. 503.5(3)(a) 0% or EPA WaterSense Water Budget Tool is used to determine the			
maximum percentage of turf areas	0		
503.5(3)(b) greater than 0% to less than 20%	0		
503.5(3)(c) 20% to less than 40%	0		
503.5(3)(d) 40% to 60%			
	0		
503.5(4) Plants with similar watering needs are grouped (hydrozoning) and shown on the lot plan.	0		
503.5(5) Summer shading by planting installed to shade a minimum of 30% of building walls. To conform to summer shading, the effective shade coverage is the arithmetic mean of the			
shade coverage calculated at 10 am for eastward facing walls, noon for southward facing	0		
walls, and 3 pm for westward facing walls on the summer solstice 5 years after planting.			
503.5(6) Vegetative wind breaks or channels are designed to protect the lot and immediate	_		
surrounding lots as appropriate for local conditions.	0		
503.5(7) On-site (or community generated) tree trimmings or stump grinding of regionally appropriate trees are used on the site to provide protective mulch during construction or for	3		
landscaping.			
503.5(8) An integrated pest management plan is developed to minimize chemical use in pesticides and fertilizers.	4	4	
503.6 Wildlife habitat. Measures are planned that will support wildlife habitat and include at least two			
of the following: 503.6(1) Plants and gardens that will encourage wildlife, such as bird and butterfly			
gardens.	3		
503.6(2) Inclusion of a certified "backyard wildlife" program.	3		
503.6(3) Lots are adjacent to wildlife corridors, fish and game parks, or preserved areas	3		
and are designed with regard for this relationship. 503.6(4) Outdoor lighting techniques are utilized with regard for wildlife.	-		
	3		
503.7 Environmentally sensitive areas. 503.7(1) The lot does not contain any environmentally sensitive areas that are disturbed			
by the construction.	4	4	
503.7(2) Compromised environmentally sensitive areas are mitigated or restored.	4 504 LOT CONST	PLICTION	
504.1 On-site supervision and coordination is provided during clearing, grading, trenching, paving on the			
lot, and installation of utilities on the lot to ensure that specified green development practices are implemented. (also see Section 503.3)	4	4	
504.2 Designated trees and vegetation are preserved by one or more of the following:			
504.2(1) Fencing or equivalent is installed to protect trees and other vegetation.	3		
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505.2(2) Roofs: Not less than 75% of the exposed surface of the roof meets one or a			
combination of the following methods.			
(a) Minimum initial SRI of 78 for a low-sloped roof (a slope less than or equal to 2:12) and a minimum initial (SRI) of 29 for a steep-sloped roof (a slope of more than 2:12). The			
SRI shall be calculated in accordance with ASTM E1980. Roof products shall be labeled	5		
 and certified. (b) Roof is vegetated using technology capable of withstanding the climate conditions 			
of the jurisdiction and the microclimate conditions of the building site. Invasive plant			
snecies are not nermitted.			
505.3 Density. The average density on the lot on a net developable area basis is:			
505.3(1) 7 to less than 14 dwelling units per acre (per 4047 m ²)	5		
505.3(2) 14 to less than 21 dwelling units per acre (per 4047 m²)	8		
505.3(3) 21 or greater dwelling units per acre (per 4047 m²) 505.4 Mixed-use development. The lot contains a mixed-use building.	11 8		
505.5 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.	3		
	600 RESOURCE		
	LITY OF CONSTRUCTION	N MATERIALS AND	WASTE
601.1 Conditioned floor area, is limited. 601.1(1) less than or equal to 1,000 square feet (93 m²)	15		
601.1(1) less than or equal to 1,000 square feet (35 m) 601.1(2) less than or equal to 1,500 square feet (139 m²)	12	12	
601.1(3) less than or equal to 2,000 square feet (186 m ²)	9		
601.1(4) less than or equal to 2,500 square feet (232 m²) Multi-Unit Building Note: For a multi-unit building, use a weighted average of the individual unit sizes in	6		
qualifying for available points.			
601.2 Structural systems are designed or construction techniques are implemented that reduce &			
optimize material usage. 601.2(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	3	
601.2(2) Higher-grade or higher-strength of the same materials than commonly specified			trusses
for structural elements and components in the building are used and element or component sizes are reduced accordingly.	3	3	
601.2(3) Performance-based structural design is used to optimize lateral force-resisting	3		
systems. 601.3 Building dimensions and layouts are designed to reduce material cuts & waste. This practice is	_		
used for a minimum of 80% of the following areas:			
601.3(1) floor area 601.3(2) wall area	3	3	SIPS
601.3(3) roof area	3	3	
601.3(4) cladding or siding area	3		
601.3(5) penetrations or trim area	1		
601.4 Detailed framing or structural plans, material quantity lists and on-site cut lists for framing, structural materials, and sheathing materials are provided.	4		
601.5 Precut, preassembled, panelized, or precast assemblies are utilized for a minimum of 90% for the following system or building.			
Points can be claimed for 601.5(1-3) OR 601.5(4) OR 601.5(5).			
601.5(1) floor system 601.5(2) wall system	4	4	cinc
601.5(2) Wall system 601.5(3) roof system	4	4	SIPS Trusses
601.5(4) modular construction above grade	13		
601.5(5) manufactured home construction above grade	13		
601.6 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% of the area of the story below, based on areas with a minimum			
ceiling height of 7 feet (2134 mm).			
601.6(1) 1 stacked story 601.6(2) 2 stacked stories	6		
601.6(3) 3 or more stacked stories	8		
601.7 Building materials/assemblies do not require additional site applied material for finishing.	MAX = 12	5	
601.7(1) 90% or more of material	5 points per material or	1 materials or	windows
601 7(2) 509/ to <009/ of material	assembly 2 points per material or	assemblies	
601.7(2) 50% to <90% of material	assembly		
601.7(3) 35% to <50% of material	1 point per material or assembly.		
601.8 Frost-protected shallow foundations, pier and pad foundations, post foundations, etc.	3		
601.9 Adobe, concrete, log, earth systems provide sufficient structural and thermal characteristics (>75%	,	1	
of the exterior wall area)	4		
602 ENH.	ANCED DURABILITY AND	REDUCED MAINT	ENANCE
602.1.1 Capillary breaks 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 1910 and 1805.4.1.	Mandatory	Met	
	-		
602.1.1.2 Add a capillary break on footing to prevent moisture migration into foundation wall.	3		
602.1.2 Enhanced foundation waterproofing is installed:			
(1) rubberized coating, or (2) drainage mat	4		
(2) drainage mat 602.1.3 Foundation Drainage			
602.1.3.1 Where required by the ICC IRC or IBC for habitable and usable spaces below grade, exterior	Mandata	No habitable or	
drain tile is installed.	Mandatory	usable space below grade	
602.1.3.2 Interior and exterior foundation perimeter drains are installed and sloped to discharge to	4		
davlight, dry well, or sump pit. 602.1.4 Crawlspaces			
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.			
602.1.4.1(1) Floors. Minimum 6 mil vapor retarder installed on the crawlspace floor and	6		
extended at least 6 inches up the wall and is attached and sealed to the wall. 602.1.4.1(2) Walls. Damp-proof walls are provided below finished grade.	Mandatory, if there is a		
	crawlspace that extends	No crawlspace	
	below finished grade		
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:			
602.1.4.2(1) Concrete slab over 6 mil polyethylene or polystyrene sheeting lapped a minimum of 6 inches (152 mm) and taped or sealed at the seams.	8		
602.1.4.2(2) 6 mil polyethylene sheeting, lapped a minimum of 6 inches (152 mm), and	Mandatory, if there is a		
taped at the seams.	crawlspace that extends	No crawlspace	
CO2.1.F. Continuous physical foundation to the house of the	below finished grade		
602.1.5 Continuous physical foundation termite barrier used with or without low toxicity treatment is installed in geographical areas that have subterranean termite infestation potential determined.	4	4	
602.1.6 Termite-resistant materials are used as follows: 602.1.6(1) Areas of slight to moderate termite infestion probability	2		
602.1.6(2) Areas of moderate to heavy termite infestion probability	4		<u>j</u>
602.1.6(3) Areas of very heavy termite infestion probability	6	6	
602.1.7 Moisture Control Measures			

602.1.7.1 Moisture control measures are in accordance with the following conditions.			
602.1.7.1 (1) Building materials with visible mold are not installed or are cleaned or	2	2	
encapsulated prior to concealment and closing. 602.1.7.1(2) Insulation in cavities is dry in accordance with manufacturer's installation	Mandatory	Met	
instructions when enclosed (e.g., with drywall).	2 points if applicable	2	
602.1.7.1(3) The moisture content of lumber is sampled to ensure it does not exceed	4	4	
19% prior to the surface and/or wall cavity enclosure. 602.1.7.2 Moisture content of subfloor, substrate, or concrete slabs is in accordance with the appropriate	2	2	
industry standard for the finish flooring to be applied. 602.1.8 Where required by the ICC IRC or IBC, a water-resistive barrier and/or drainage plane system is	2	2	
installed behind exterior veneer and/or siding.	Mandatory, if applicable	Met	
602.1.9 Flashing is provided 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.			
602.1.9(1) Flashing are installed at all of the following locations, as applicable:			
(a) around exterior fenestrations, skylights and doors (b) at roof valleys			
(c) at deck, balcony, porch or stair to building intersections			
(d) at roof-to-wall intersections, at roof-to-chimney intersections, at wall-to-chimney intersections, and at parapets.	Mandatory, if applicable	Met	
(e) at ends of and under masonry, wood, or metal copings and sills			
(f) above projecting wood trim (g) at built-in roof gutters			
(h) drin edge is installed at eaves and rake edges. 602.1.9(2) All window head and jamb flashing are self-adhered flashing complying with			
AAMA 711-07.	2	2	
602.1.9(3) Pan flashing is installed at sills of all exterior windows and doors. 602.1.9(4) Seamless, preformed kickout flashing, or prefabricated metal with soldered	3		
seams is provided at all roof-to-wall intersections. The type and thickness of the material			
used for roof flashing including but not limited kickout and step flashing is commensurate with the anticipated service life of the roofing material.	3		
602.1.9(5) A rainscreen wall design is used for exterior wall assemblies. (a) A system designed with minimum "inch air space exterior to the			ZIP
water-resistive barrier, vented to the exterior at top and bottom of the	4		<u></u>
wall and integrated with flashing details. (b) Either a cladding material or a water-resistive barrier with enhanced	_		
drainage, meeting 75% drainage efficiency requirement of ASTM	2	2	
602.1.9(6) Through wall flashing is installed at transitions between wall cladding materials, or wall construction types.	2		
602.1.9(7) Flashing is installed at expansion joints in stucco walls.	2		
602.1.10 Entries at exterior door assemblies are covered 602.1.10(1) 1 exterior door		2	
602.1.10(1) 1 exterior doors	4	2	
602.1.10(3) 3 or more exterior doors	6		
602.1.11 Tile backing materials installed under tiled surfaces in wet areas are in accordance with ASTM C1178, C1278, C1288, or C1325.	Mandatory, if applicable	Met	
602.1.12 Roof overhangs are provided over a minimum of 90% of exterior walls to protect the building	4		
envelope. 602.1.13 In areas where there has been a history of ice forming along the eaves causing a backup of	7		
water, an ice barrier is installed in accordance with the ICC IRC or IBC at roof eaves and extends at a	Mandatory, if applicable	No regional history	
minimum of 24 inches (610 mm) inside the exterior wall line of the building.	, , , , , , , , , , , , , , , , , , , ,	of ice dams	
602.1.14 Architectural features that increase the potential for water intrusion are avoided.			
602.1.14(1) No roof configurations that create horizontal valleys in roof design.	2	2	
602.1.14(2) No recessed windows and architectural features that trap water on	2	2	
horizontal surfaces. 602.1.14(3) All horizontal ledgers are sloped away to provide gravity drainage as			
appropriate for the application.	Mandatory 1 point if applicable	Met	
602.2 A minimum of 90% of roof surfaces, not used for roof penetrations and associated equipment, on-		1	
site renewable energy systems such as photovoltaics or solar thermal energy collectors, or rooftop decks,			
amenities and walkways, are constructed of one or both of the following:			
(1) products accordance with the ENERGY STAR® cool roof certification or equivalent	_		
	3		
(2) a vegetated roof system	3		
(3) Both	3		
(3) Both 602.3 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.	3 3 4		
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			- -
606.2(2) Min. 2 products used for major elements	4		
606.3 Materials used for major components are manufactured using a min. of 33% of the primary			
manufacturing process energy from renewable sources, combustible waste sources, or renewable energy credits (RECs).			
1 material	2		
2 materials	4		
3+ materials	6 607 RECYCLING & WA	CTE DEDUCTION	
607.1(1) A built-in collection space in each kitchen and an aggregation/pick-up space in a garage, covered		STE REDUCTION	
outdoor space, or other area for recycling containers.	3		
607.1(2) Compost facility provided on-site.	3		
607.2 A minimum of one food waste disposer is installed at the primary kitchen sink.	1	1	
	608 RESOURCE-EFFICE	ENT MATERIALS	
608.1 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 < 3 inches and/or brick with coring > 25%			
(2) engineered wood or engineered steel products			
(3) roof or floor trusses 1 product	3		Foots and Wood Products Profit
2 products	6	6	Engineered Wood Products, Roof Trusses
3+ products	9		
	609 REGIONAL N	MATERIALS	
609.1 Regional materials are used for major elements or components of the building.			
1 type	2		concete, drywall, SYP framing, Hardi, Jeldwen
2 types	4		
3 types	6		
4 types	8		
5+ types	10	10	
	610 LIFE CYCLE	ANALYSIS	
610.1 A life cycle analysis (LCA) tool is used to select environmentally preferable products or assemblies, or an LCA is conducted on the entire building.	15 points for 610.1.1		
	10 points max. for 610.1.2		
610.1.1 A whole-building LCA is performed using a life cycle assessment and data compliant with ISO		 	
14044 or other recognized standards.	15	<u></u>	
610.1.2 An environmentally preferable product or assembly is selected for an application based upon the		1	
use of an LCA tool that incorporates data methods compliant with ISO 14044 or other recognized	10 points max. for 610.1.2(1) & (2)	1	
standards that compare the environmental impact of products or assemblies.		<u> </u>	
610.1.2(1) Two or more products with the same intended use are compared based on	MAX = 10		
LCA and the product with at least a 15% average improvement is selected. Number of	Points per Table 610.1.2(1)	1	
noints awarded is based on the number of environmental impact measures compared. # of comparions with 4 impact measures:	-		1
# of comparions with 5 impact measures:			1
610.1.2(2) Building assembly LCA. A building assembly with improved environmental	MAX = 10		
impact measures compared to an alternative assembly of the same function is selected.	Points per Table 610.1.2(2)		
# of impact measures in LCA for exterior walls:			
# of impact measures in LCA for roof/ceilings:			
# of impact measures in LCA for interior walls or ceilings:			
# of impact measures in LCA for intermediate floors:			
	611 INNOVATIVE	PRACTICES	
611.1 Product manufacturer's operations and business practices include environmental management			
system concepts, and the production facility is ISO 14001 certified or equivalent. The aggregate value of building products from ISO 14001 certified or equivalent production facilities is 1% or more of the			
estimated total building materials cost.			
1% - <2%	1		Simpson Fasteners
2% - <3% 3% - <4%	3	2	
4% - <5%	4		
5% - <6%	5		
6% - < 7%	6		
7% - <8%	7		
8% - <9%	8		
9% - <10%	9		
10+% 611.2 One or more of the following products are used for at least 30% of the floor or wall area of the	10		
entire dwelling unit, as applicable. Certification third-party agency is ISO Guide 65 accredited.	MAX = 9		
	· ·		
(1) 50% or more of carpet installed (by square feet) is third-party certified to NSF/ANSI	3		
140.(2) 50% or more of resilient flooring installed (by square feet) is third-party certified to	+		
NSF/ANSI 332.	3		
(3) 50% or more of the insulation installed (by square feet) is third-party certified to	3		
EcoLogo CCD-016. (4) 50% or more of interior wall coverings installed (by square feet) is third-party		 	
certified to NSF/ANSI 342.	3		
(5) 50% or more of the gypsum board installed (by square feet) is third-party certified to	3	1	
ULE ISR 100. (6) 50% or more of the door leafs installed (by number of door leafs) is third-party			
certified to ULE ISR 102.	3		
(7) 50% or more of the tile installed (by square feet) is third-party certified to ANSI	3	1	
A138.1 Specifications for Sustainable Ceramic Tiles, Glass Tiles and Tile Installation Materials.	•	1	
611.3 Universal design elements. Dwelling incorporates one or more of the following universal design	MAX = 9		
elements. (1) Any no-step entrance into the dwelling which is accessible from a substantially level		 	
parking or drop-off area (no more than 2%) via an accessible path which has no		1	
individual change in elevation or other obstruction of more than 1-1/2 inches in height,	3		
whose pitch does not exceed 1 in 12 and which provides a minimum 32-inch wide			
(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	3		
minimum 32 inch clear door width and a 30 inch by 48 inch clear area inside the	,		
hathroom outside the door swing. (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	1		
installation of grab bars at commode and bathing fixture. if applicable.	1		<u> </u>
	700 ENERGY EF		
	AINIMUM ENERGY EFFIC	CIENCY REQUIREM	
User must select either Performance	e (701.1.1) , Prescriptive (70	1.1.2) , or Alternative	e Bronze (701.1.3) compliance path.
701.1 The building shall comply with either Section 702 or Section 703			
701.1 The building shall comply with either Section 702 (Performance Path) or Section 703 (Prescriptive			
Path). Items listed as "mandatory" in Section 701.4 apply to both the Performance and Prescriptive	1	1	
			I and the second
Paths. As an alternative, an ENERGY STAR® 2.0 Qualified Home or equivalent can claim 30 points from 701.1.3 and meet the Bronze level for Chapter 7.	Performance Path		
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall	OR		
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall exceed the ICC IECC by 15%, & shall include a min. of 2 practices from Sec. 704, OR meet 701.1.2 OR		Performance Path	
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall exceed the ICC IECC by 15%, & shall include a min. of 2 practices from Sec. 704, OR meet 701.1.2 OR 701.1.3.	OR Prescriptive Path	Performance Path	
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall exceed the ICC IECC by 15%, & shall include a min. of 2 practices from Sec. 704, OR meet 701.1.2 OR	OR Prescriptive Path OR	Performance Path	
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall exceed the ICC IECC by 15%, & shall include a min. of 2 practices from Sec. 704, OR meet 701.1.2 OR 701.1.3. Programment of 30 points from Sec. 703, & shall include a min. of 2 practices from Sec. 703 shall obtain a minimum of 30 points from Sec. 703, & shall include a min. of 2 practices from Sec. 704. 701.1.3 (Alemantus Peronze Level compliance. Amy NERGY STAR Qualified Home achieves the Bronze	OR Prescriptive Path OR Alternative Bronze	Performance Path	
701.1.3 and meet the Bronze level for Chapter 7. 701.1.1 Minimum Performance Path requirements. A building complying with Section 702 shall exceed the ICC IECC by 15%, & shall include a min. of 2 practices from Sec. 704, OR meet 701.1.2 OR 701.1.3 Minimum Prescriptive Path requirements. A building complying with Sec. 703 shall obtain a minimum of 30 points from Sec. 703, & shall include a min. of 2 practices from Sec. 704.	OR Prescriptive Path OR Alternative Bronze	Performance Path	

701.1.3 Alternative Bronze Level compliance. Any ENERGY STAR 2.0 Qualified Home or			
equivalent achieves the Bronze Level for Chapter 7.			
If 30 points claimed for practice 701.1.3, this chapter and this project cannot achieve a level			
higher than Bronze.			
If points claimed for this practice, skip the following sections:	30		
* 701.3 - Adopting Entity review * 701.4 - Mandatory Practices			
* 702 - Performance Path			
* 703 - Prescriptive Path			
Points can be claimed in Section 704 that count toward additional points needed for the project			
701.2 Emerald Level points. The Performance Path shall be used to achieve the Emerald Level.			
701.3 Adopting Entity review. A review by third party shall be conducted to verify design and compliance with Chapter 7 points.	Mandatory	Met	Two Trails Inc.
701.4 Mandatory practices.			
701.4.1 HVAC systems. 701.4.1.1 Space heating/cooling sized per Manual J, Equipment sized per Manual S	Mandatory	Met	
701.4.1.2 Radiant/hydronic heating system designed using industry-approved guidelines	Mandatory	N/A	
701.4.2 Duct systems.	manacory	14/1	
701.4.2.1 Ducts are air sealed with materials in conformance with UL 181A or UL 181B	Mandatory	Met	
specifications 701.4.2.2 Building cavities are not used as supply ducts	Mandatory	Met	
701.4.2.3 Duct system is sized and designed in accordance with ACCA Manual D or	Mandatory	Met	
equivalent 701.4.3 Insulation and air sealing.			
701.4.3.1 Building Thermal Envelope. The building thermal envelope is durably sealed to	Mandatory	Met	
limit infiltration. See details in chapter 7 tab. 701.4.3.2 Air sealing and insulation. Grade 3 insulation installation is not permitted. The	,	IVICE.	
compliance of the building envelope air tightness and insulation installation is			
demonstrated in accordance with Section 701.4.3.2(1) or 701.4.3.2(2). 701.4.3.2(1) Testing option. Building envelope tightness and insulation			
installation is considered acceptable when air leakage is less than seven air changes per hour (ACH) when tested with a blower door at a		ļ	1
procesure of 22.5 per (50 Rs)	Mandatory	-	
701.4.3.2(2) Visual inspection option. Building envelope tightness and insulation installation are considered acceptable when the components		Met	
listed below applicable to the method of construction, are field verified		Met	
See details in chapter 7 tab. 701.4.3.3 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/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2).	Mandatory	Met	
701.4.3.4 Recessed lighting. Recessed luminaires installed in the building thermal			
envelope are sealed to limit air leakage between conditioned and unconditioned spaces.	Mandatory	Met	
701.4.4 High-efficacy lighting. A minimum of 50% of the total hard-wired lighting fixtures, or the bulbs in those fixtures, qualify as high efficacy or equivalent.	Mandatory	Met	
701.4.5 Boiler supply piping. Boiler supply piping in unconditioned space is insulated.	Mandatory	N/A	
	702 PERFORMA	NCE PATH	
702.1 Points from Section 702 (Performance Path) shall not be combined with points from Section 703 (Prescriptive Path).			
702.2.1 ICC IECC analysis. Energy efficiency features are implemented to achieve energy cost performance that meets the ICC IECC.	Mandatory	Met	
702.2.2 A documented analysis shows performance in excess of 2009 IECC by at least 15%:			
	30 - 100	53	26.72% Improvement over 2009 IECC
	703 PRESCRIPT	IVE PATH	
703.1 Building envelope			
703.1.1 UA improvement. The total building thermal envelope UA is less than or equal to the			
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703.1.1 UA improvement. The total building thermal envelope UA is less than or equal to the total UA resulting from the U-factors provided in Table 703.1.1(a). Where insulation is used to achieve the UA improvement, the insulation installation is in accordance with Grade 1 requirements as graded by a third-party. Total UA is documented using a RESCheck or equivalent report to verify the baseline and the UA improvement. 5 to <10% 10% to <15% 10% to <15% 10% to <25% 20% or greater 703.1.2 The insulation installation is graded by a third party and in accordance with Sections 703.1.2.1, 703.1.2.2, and/or 703.1.2.3, as applicable. Grade 2 is permitted only for Bronze. Points are not available if noints awarded in 703.1.1. Grade 1 Grade 2 703.1.3 Mass walls. More than 75% of the above-grade exterior opaque wall area of the building is mass walls. 23 inch to <6 inch > 6 inch 703.1.5 Building envelope leakage. The maximum building envelope leakage rate is in accordance with Table 703.1.5 (Also see Section 902.2.1) Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 1 703.1.6.1 hr Fore-crified (or equivalent) U-factor and SHGC of windows, exterior doors, skylights, and tubular daylighting devices (TDDs) or an area-weighted average basis are in accordance with Table 703.1.6.2(a). Enhanced Fenestration Specifications Table 703.1.6.2(b): Enhanced Fenestration Specifications Table 703.1.6.2(c): En	7 4 5 3 3 3 4 5 6 5 5 Mandatory 5 9 0 4 Points per Table 703.2.2(1) or Table 703.2.2(3) or Table 703.2.2(4)	N/A	
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703.1.1 UA improvement. The total building thermal envelope UA is less than or equal to the total UA resulting from the U-factors provided in Table 703.1.1(a). Where insulation is used to achieve the UA improvement, the insulation installation is in accordance with Grade 1 requirements as graded by a third-party. Total UA is documented using a RESCheck or equivalent report to verify the baseline and the UA improvement. 5 to <10% 10% to <15% 10% to <15% 10% to <25% 20% or greater 703.1.2 The insulation installation is graded by a third party and in accordance with Sections 703.1.2.1, 703.1.2.2, and/or 703.1.2.3, as applicable. Grade 2 is permitted only for Bronze. Points are not available if noints awarded in 703.1.1. Grade 1 Grade 2 703.1.3 Mass walls. More than 75% of the above-grade exterior opaque wall area of the building is mass walls. 23 inch to <6 inch > 6 inch 703.1.5 Building envelope leakage. The maximum building envelope leakage rate is in accordance with Table 703.1.5 (Also see Section 902.2.1) Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 2 Max Envelope Leakage Rate (ACH50) = 1 703.1.6.1 hr Fore-crified (or equivalent) U-factor and SHGC of windows, exterior doors, skylights, and tubular daylighting devices (TDDs) or an area-weighted average basis are in accordance with Table 703.1.6.2(a). Enhanced Fenestration Specifications Table 703.1.6.2(b): Enhanced Fenestration Specifications Table 703.1.6.2(c): En	7 4 5 3 3 3 4 5 6 5 5 Mandatory 5 9 0 4 Points per Table 703.2.2(1) or Table 703.2.2(3) or Table 703.2.2(4)	N/A	

703.2.4 Cooling efficiency is in accordance with Table 703.2.4. Refrigerant charge is verified for compliance with manufacturer's instructions. ≥ 14 SEER (11.5 EER) ≥ 15 SEER (12.5 EER) ≥ 17 SEER (12.5 EER) ≥ 19 SEER (12.5 EER) ≥ 19 SEER (12.5 EER)			
≥ 14 SEER (11.5 EER) ≥ 15 SEER (12.5 EER) ≥ 17 SEER (12.5 EER) ≥ 19+ SEER (12.5 EER)			
≥ 15 SEER (12.5 EER) ≥ 17 SEER (12.5 EER) ≥ 19 SEER (12.5 EER)	3		
≥ 17 SEER (12.5 EER) ≥ 19+ SEER (12.5 EER)	5		
≥ 19+ SEER (12.5 EER)	8		
	11		
	14		
703.2.5 Water source cooling and heating efficiency is ≥ 15 EER, ≥ 4.0 COP.			
	18		
703.2.6 Ground source heat pump is installed by a Certified Geothermal Service Contractor in			
accordance with Table 703.2.6.			
14.1 EER 3.3 COP	14		
15 EER 3.5 COP	16		
16.2 EER 3.6 COP	18		
24 EER 4.3 COP	28		
28 EER 4.8 COP	32		
703.2.7 ENERGY STAR, or equivalent, ceiling fan(s) are installed.	1		
703.2.8 Whole-building or whole-dwelling unit fan(s) with insulated louvers and a sealed			
enclosure is installed.	5		
703.2.9 In multi-unit buildings, an advanced electric and fossil fuel submetering system is			
installed to monitor electricity and fossil fuel consumption for each unit.	1	N/A	
703.3 Duct Systems			
703.3.1 All space heating is provided by a system(s) that does not include air ducts.	4		
703.3.2 All space cooling is provided by a system(s) that does not include air ducts.	7		
703.3.3 Ductwork is in accordance with all of the following: (1) Building cavities are not used as return ductwork.			
(2) Heating and cooling ducts and mechanical equipment are installed within the	11		
conditioned building space.			
(3) Ductwork is not installed in exterior walls			
703.3.4 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.			
Produced control consider the body of a control of	9		
Ductwork entirely outside the building's thermal envelope			
Ductwork entirely inside the building's thermal envelope	3		
Ductwork inside and outside the building's thermal envelope	6		
703.4 Water heating system			
703.4.1 Water heater Energy Factor (EF) is in accordance with the tables in 703.4.1.	Points per		
	Table 703.4.1(1)(a) or		
	Table 703.4.1(1)(b) or		
	Table 703.4.1(2) or		
	Table 703.4.1(3) or		
	Table 703.4.1(4)		
703.4.2 Desuperheater is installed by a qualified installer or is pre-installed in the factory.	8		
	۰		
703.4.3 Drain-water heat recovery system is installed in multi-family units.	2	N/A	
703.4.4 Indirect-fired water heater storage tanks heated from boiler systems are installed.	1		
703.4.5 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			
hv SRCC) is in accordance with Table 703.4.5.			
≥SEF 1.3	10		
≥SEF 1.51	12		
≥SEF 1.81	14		
≥SEF 2.31	17		
≥SEF 3.01	19		
703.5 Lighting and appliances			
703.5.1 Hard-wired lighting is in accordance with one of the following:			
703.5.1(1) A minimum of 75% of the total hard-wired luminaires qualify as ENERGY STAR	4		
or equivalent.			
703.5.1(1) A minimum of 95% of the total hard-wired luminaires qualify as ENERGY STAR	6		
or equivalent.	•		
703.5.1(2) A minimum of 80% of the exterior lighting wattage has a minimum efficiency	1		
of 40 lumens per watt or is solar-powered.	-		
703.5.2 Recessed luminaires. The number of recessed luminaires that penetrate the thermal envelope are less than 1 per 400 square feet (37.16 m2) of total conditioned floor area and are in			
accordance with Section 701.4.3.4.			
accordance with Section 701.4.5.4.			
	2		
		1229 s.f. total floor	
		1229 s.f. total floor area	
703.5.3 Appliances. ENERGY STAR or equivalent appliance(s) are installed.			
703.5.3 Appliances. ENERGY STAR or equivalent appliance(s) are installed. Refrigerator	2		
	2		
Refrigerator			
Refrigerator Dishwasher Washing machine	1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed.	1 4		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6 Passive solar design	1 4 1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6.9 assive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9).	1 4		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6 Passive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9. 703.6.2 Window shading. Automated solar protection is installed to provide shading for	1 4 1		
Refrigerator Dishwasher Washing machine 703.5 4 Induction cooktop. Induction cooktop is installed. 703.6 9 assive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.1 Sun for windows. 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows.	1 4 1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop, Induction cooktop is installed. 703.6.5 Passive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9). 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but	1 4 1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6.9 assive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9). 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4.	1 4 1		
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Refrigerator Dishwasher Washing machine 703.5.4 induction cooktop, induction cooktop is installed. 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9). 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4. 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	1 4 1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6.9 assive solar design 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.1(1-9). 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4. 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	1 4 1 0		
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Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6.5 Passive solar design 703.6.5 Exactive solar design 703.6.5 Exactive solar design 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4. 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 (b) moveable awrings or louvers (c) covered porches (d) attached or detached conditioned/unconditioned enclosed space that provides	1 4 1 0		
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Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop, induction cooktop is installed. 703.6.1 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11.9). 703.6.2 Window shading, Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4. 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 (b) moveable awrings or lowers (c) covered prorhes (d) attached or detached conditioned/unconditioned enclosed space that provides Overhangs are installed to provide shading on south-facing glazing in accordance with Section 703.6.1(7). Boints and numerated if anists are taken under Section 703.6.1 Windows and/or venting skylights are located to facilitate cross ventiliation. Solar reflective roof or radiant barrier is installed in climate zones 1,2, or 3 and roof	1 4 1 0 1		
Refrigerator Dishwasher Washing machine 703.5.4 Induction cooktop. Induction cooktop is installed. 703.6.7 Sun-tempered design. Building orientation, sizing of glazing, and design of overhangs are in accordance with Sections 703.6.11-9. 703.6.2 Window shading. Automated solar protection is installed to provide shading for windows. 703.6.3 Passive cooling design features are in accordance with at least 3 from (1)-(6) below, but no more than 4. 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 (b) moveable awrings or louvers (c) covered prorches (d) attached or detached conditioned/unconditioned enclosed space that provides Overhangs are installed to provide shading on south-facing glazing in accordance with Section 703.6.1(7). Boints and numerical if anistic are taken under Section. 703.6.1 Windows and/or venting skylights are located to facilitate croses ventiliation. Solar reflective roof or radiant barrier is installed in climate zones 1, 2, or 3 and roof material achieves a 3-vear aged criteriar of 0.50.	1 4 1 0 1		
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The Association and an above statement was excellented as expected controlled to the controlled and according to the controlled according to the controlled and according to the controlled according to the controlled and ac	704.4 HVAC design and installation			
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Gill Stein Stein Stein American Stein Stei	704.4.2 Performance of the heating and/or cooling system is verified by the HVAC contractor in			
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(ii) Worknow, skiptige, and does are fitteded, caushed, and studied in exceptions with a property of the control of the contro				
Media Turking Andrew International Americans and Americans and Americans Ame	(4) Windows, skylights, and doors are flashed, caulked, and sealed in accordance with			
790.1.1.1. Making workings leaking stating. The AL 3.2.	manufacturer's instructions and in accordance with Section 701.4.3.			
A Sleeper door to and a visual impaction are performed an described in 79.4.4.2.2. Third garby specification is completed. Third garby specification is comple	704.5.2 Testing. Testing above mandatory requirements is conducted to verify performance.			
A Slower do not that and valued inspection are performed as decorbed in 70.44.4.2. That departy verification is completed. That departy verification is comple	704 5 2 1 Building on valence leakage testing			
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796.3.2.3.19VA a reflew testing, floatined 19VA, sinflows par demonstrated by flow hood accordance with bear of the following. (1) Mexicone flow at coch supply and refun register with 75 AG design flow. 796.3.3.1 mixing for the same peak, the state of the following. (1) Septiment of the following. (2) Septiment of the following. (3) Septiment on the following. (4) Septiment on the following. (5) Septiment on the following. (6) Septiment on the following. (7) Septiment on the following. (8) Septiment on the following. (9) Septiment on the following. (9) Septiment on the same hashes to a site building on whole dwelling unit devices is resided that (1) Septiment on the following. (9) Septiment of the same hashes to a site building or whole dwelling unit devices is resided that (1) Septiment on the following of the same flow of the same hashes to a site building or whole dwelling unit devices is resided that (1) Septiment on the following of the same hashes to contain the same has	Third-party verification is completed.			Two Trails, Inc.
or other acceptable free measurement tool by a thick party. Test results are in acceptable with short of the following results results and the control of th		5	5	
accordance with below of the following: (a) (Amounted flow at each stopped and retain register is within 250 of design flow.) 786.5.3 broaders, the same page, troubsters with a monoment memoral resistance (in valued of at least 16 in a progress from the following, any page of the following of the fol	704.5.2.2 HVAC airflow testing. Balanced HVAC airflows are demonstrated by flow hood			
(I) Measured flow at each supply and return register is white 25% of displaying the content of t				
Miles and adminus a variety for some from the common thermal relocations (IP value) of a least 3 has applicable. 10 pings layer than 3 feet his considered democrate (IP value) of a least 3 has applicable. 10 pings layer than 3 feet his conditioned gazes (IP value) of a least 3 has applied to the following, as applied to the conditioned gazes (IP value) of a least 4 has a least 6 has a leas		8		
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Issue TB - 3 is agained to the following, as applicable: (a) planing branches saving the third 3 A short additional deather of the company of	704.5.3 Insulating hot water pipes. Insulation with a minimum thermal resistance (R-value) of at			
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7015.3	controls or monitors enere vonsumation. 5705.1(2) energy monitoring device 705.1(3) energy monitoring device 705.1(3) energy monitoring device 705.1(3) energy monitoring device 705.2 Renewable energy service plan is provided as follows: 705.2 Renewable energy service plan is provided as follows: 705.2 Renewable energy service plan for interim electric service. The builder's local administrative office has renewable energy service plan provided by the utility 405.6 of dwelling's projected electricity & gas use is provided by renewable 50% or more of dwelling's projected electricity & gas use provided by renewable 50% or more of dwelling's projected electricity & gas use provided by renewable energy 705.3 Smart Appliances and Systems. Smart appliances and systems are installed as follows. Refrigerator Freezer Dishwasher 1Clothes Washer Room Air Conditioner HVAC Systems Service Hot Water Heating Systems Service Hot Water Heating Systems Service Hot Water Heating Systems 705.4 Puol, spa, and water features equipped with filtration pumps as follows. 705.4.1(2) Electronically controlled variable-speed pump(s) is installed (efficiency of 90 percent or greater). 705.4.2 Sump pump(s) with electrically commutated motors (ECMs) or permanent split capacitor (PSC) motors installed (efficiency of 90% or greater). 705.5. Additional renewable energy options. Renewable energy system(s) is installed on the property (e.g., solar photovoltaic panels, building integrated photovoltaic system, wind energy system, on-site micro-hydro power system, active solar space heating system, solar thermal hydronic heating system, photovoltaic hybrid heating system). 801.1 Indoor hot water supply system is in accordance with one of the practices listed in items (1) through (5). The maximum length from the source of hot water to the termination of the future supply is determined in accordance with Tables 801.1(1) or 801.1(2), or 50 feet, whichever is less. - Where more than one water heater is used or where more than one type of hot water sup	MAX = 7 1 2 4 2 5 1 3-5 appliances = 1pt 6+ appliances = 2pts 1 1 1 point per 100 watts per 2000 SF 2	1 1 1 1 1 1 1 1 1 1 1 1 1	

(1) The maximum volume from the water heater to the termination of the fixture supply at furthest fixture is 128 ounces (1 eallon or 3.78	11		
(2) The maximum volume from the water heater to the termination of	17		
the fixture supply at furthest fixture is 64 ounces (0.5 gallon or 1.89 (3) The maximum volume from the water heater to the termination of	29		
the fixture supply at furthest fixture is 32 ounces (0.25 gallon or 0.945	29		
(4) A demand controlled hot water priming pump is installed on the main supply pipe of the circulation loop and the maximum volume	35		
from this sunnly nine to the furthest fixture is 24 ounces (0.19 gallons			
(4)(a) 801.1(4) is met AND the volume in the circulation loop (supply) from the water heater or boiler to the branch for the furthest fixture is	39		
no more than 128 ounces (1 gallon or 3.78 liters).	33		
801.1.1(5) A central hot water recirculation system is implemented in multi-unit			
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 (9144 mm)	9		
and the parallel piping system (i.e., maintoid system) is less than 50 feet (5444 min)			
801.1.1(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	4		
installed. The storage may be internal or external to the tankless water heater.			
1.2 ENERGY STAR or equivalent water conserving appliances are installed. 801.2(1) dishwashers (multiples all must comply)	2	2	
801.2(2)(a) washing machine with a water factor of >6.0	13	13	
801.2(2)(b) washing machine with a water factor of ≤6.0	24		
1.3 Showerheads are in accordance with the following:			
801.3(1) The total maximum combined flow rate of all showerheads controlled by a			
single valve at any point in time in a shower compartment is 1.6 to less than 2.5 gpm. Maximum of two valves are installed per shower compartment. The flow rate is tested			
at 80 psi (552 kPa) in accordance with ASME A112.18.1. Showerheads are served by an			
automatic compensating valve that complies with ASSE 1016 or ASME A112.18.1 and			
specifically designed to provide thermal shock and scald protection at the flow rate of			
1 fixture	4		
2 fixtures	5	5	
3 fixtures	6 7		
4+ fixtures 801.3(2) All shower compartments in the dwelling units and common areas meet the	1		
requirements of 801.3(1).			
2.0 to <2.5 gpm	11	11	
1.6 to <2.0 gpm	14		
801.3(3) Any control that can shut off water flow without affecting temperature is installed.			
installed. 1 shutoff	1		
2 shutoffs	2	2	
3 shutoffs	3		
1.4 Faucets.			
801.4.1 Water-efficient lavatory faucets with 1.5 gpm (5.68 L/m) or less maximum flow rate when tested at 60 psi (414 kPa) in accordance with ASME A112.18.1 are installed:			
The William Code at 50 par (124 it d) in decordance Will Flatte Fig. 122.2012 are installed.			
801.4.1(1) ALL lavatory faucets per bathroom comply.			
1 bath 2 baths	2	2	
3+ baths	3	2	
801.4.1(2) ALL lavatory faucets per dwelling unit comply.	6	6	
801.4.2 Self-closing valve, motion sensor, metering, or pedal-activated faucet is installed			
to enable intermittent on/off operation.			
1 fixture 2 fixtures	2		
3+ fixtures	3		
01.5 Water closets and urinals are in accordance with the following:			
801.5(1) Water closets and urinals installed meet the following conditions:			
(a) All water closets are 1.28 gallons per flush or less and all urinals are	Required for	Not Eligible for	
O E gollone nor flush or loss OD			
0.5 gallons per flush or less, OR(b) All water closets and urinals are waterless or composting.	Gold or Emerald Level	Gold or Emerald	
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L)	Gold or Emerald Level		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 t.) or less when tested in accordance with ASME A121.59.2/CSA 945.1 (all water closets) or	Gold or Emerald Level		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2(CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in	Gold or Emerald Level		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.9/2CAS A85.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet.			
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fluture	2		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.9/2CAS A85.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet.	2 4		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 t) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures	2		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 t) or less when tested in accordance with ASME A112.19.1/CAS B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 30.15(3) All water closets are in accordance with Section 801.5(2). 801.5(3)(a) Dual flush (or other) water closets are used that have a flush volume of 1.2	2 4 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.1/CAS B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3 fixtures 3 fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2), and all other water closets comply with	2 4 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 t) or less when tested in accordance with ASME A112.19.1/CAS B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 30.15(3) All water closets are in accordance with Section 801.5(2). 801.5(3)(a) Dual flush (or other) water closets are used that have a flush volume of 1.2	2 4 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 t) or less when tested in accordance with ASME A112.19.1/CAS B451. (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA water-Sense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures	2 4 6 11		
(b) All water closets and urinals are waterless or composting. 80.15(2) A water close is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with RSME A112.19.34 (all dual flush water closets), and is in accordance with FEW AvterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 31.5(3) all water closets are in accordance with Section 801.5(2). 801.5(3) all water closets are in accordance with Section 801.5(2). 801.5(3) all water closets are in accordance with Section 801.5(2). 801.5(3) all water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3-4 fixtures	2 4 6 11		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with FPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3 fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 805.5(3)(a) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3+ fixtures 3+ fixtures 801.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.91) or	2 4 6 11 1 2 3		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 3+ fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3+ fixtures 3+ fixtures 301.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9t.) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2).	2 4 6 11		
(b) All water closets and urinals are waterless or composting. 80.15(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.24 (call duaf flush water closets) or when tested in accordance with ASME A112.19.14 (all duaf flush water closets), and is in accordance with EPW AvterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 31.5(3) all water closets are in accordance with Section 801.5(2). 801.5(3)(a) Dual flush for orbtn') water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(7) 1 fixture 2 fixtures 34 fixtures 361.5(3)(6) Done or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.5(3)(6) one or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2).	2 4 6 11 1 2 3		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 3+ fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3+ fixtures 301.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19-2 and all other water closets comply with 801.6(2). 801.5(3)(0) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2).	2 4 6 111 1 2 3 8		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA 845.1 (all water closets) or when tested in accordance with ASME A112.19.3.4 (all dual flush water closets), and is in accordance with FPA Water Sense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3+ fixtures 3+ fixtures 3+ fixtures (801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) All Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3+ fixtures 301.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(c) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2).	2 4 6 11 1 2 3 8		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3-1 fixtures 3-1 fixtures 3-1 fixtures 401.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) Dual flush (or other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixtures 3-1 fixtures 3-2 fixtures 3-3 fixtures 801.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9t) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(6) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2).	2 4 6 11 1 2 3 8 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2 (CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.34 (all duaf flush water closets), and is in accordance with FPW AvterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 31 fixtures 301.5(3)(a) Dual flush for orbther) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2): a fixtures 31 fixture 2 fixtures 34 fixtures 361.5(3)(a) Dual flush for orbther) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(3) in a fixtures 361.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(c) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2). 801.6.1 Multi-stream, multi-trajectory rotating nozzles are installed in lieu of spray nozzles for turf or landscaping. 801.6.2(1) Oripi pringation is installed for landscape beds.	2 4 6 11 1 2 3 8 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA B45.1 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA Water Sense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 3-1 fixtures 3-2 fixtures 3-3 fixtures 3-3 fixtures 3-4 fixtures 3-4 fixtures 3-7 fixtures	2 4 6 11 1 2 3 8 6	Gold or Emerald	
(b) All water closets and urinals are waterless or composting. 801.5(2) A water close is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA 84.51 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets) and is in accordance with FPA WaterSense Tank-Type high-Efficiency Toilet. 1 fixture 2 fixtures 31 fixtures 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3)(3)(a) Dual flush for orther) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 31 fixtures 301.5(3)(6) Done or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(6) One or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(4) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2). 801.6.1 Multi-stream, multi-trajectory rotating nozzles are installed in lieu of spray nozzles for turf or landscaping. 801.6.2(1) Drip irrigation is installed for landscape beds. 801.6.2(2) Subsurface drip is installed for landscape beds. 801.6.3 Landscape Plan & Implementation are executed by a certified WaterSense	2 4 6 11 1 2 3 8 6		
(b) All water closets and urinals are waterless or composting. 801.5(2) A water close is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2/CSA 84.51 (all water closets) or when tested in accordance with ASME A112.19.14 (all dual flush water closets), and is in accordance with FPA WaterSense Tank-Type High-Efficiency Toilet. 1 fixture 2 fixtures 301.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3) All water closets are in accordance with Section 801.5(2). 801.5(3)(a) Dual flush for other) water closets are used that have a flush volume of 1.2 gallons or less and comply with 801.5(2); and all other water closets comply with 801.5(2). 1 fixture 2 fixtures 3+ fixtures 801.5(3)(b) One or more urinals are installed with a flush volume of 0.5 gallons (1.9L) or less when tested in accordance with ASME A112.19.2 and all other water closets comply with 801.6(2). 801.5(3)(c) One or more composting or waterless toilets and/or urinals are installed and all other water closets comply with 801.6(2). 801.6.1 (with-stream, multi-trajectory rotating nozzles are installed in lieu of spray nozzles for turf or landscaping. 801.6.2(1) Drip irrigation is installed for landscape beds. 801.6.2(2) Subsurface drip is installed for landscape beds. 801.6.2(3) Drip irrigation is installed for landscape beds. 801.6.2(4) Prip irrigation is installed for landscape beds. 801.6.2(7) Prip irrigation is installed for landscape beds. 801.6.2(8) Prip irrigation is installed for landscape beds. 801.6.2(8) Prip irrigation is installed for landscape beds. 801.6.4 Drip irrigation zones implemented show plant type by name and water use or	2 4 6 11 1 2 3 8 6	Gold or Emerald	
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2 water closets 3 water closets	10 15	
3 water closets 4+ water closets	20	
Irrigation system	10	
802.2 One of following automatic shutoff water supply devices is installed. Where a fire sprinkler system is present, installer is to ensure the device will not interfere with the operation of the fire sprinkler system.		
Excess water flow automatic shutoff	2	
Leak detention system with automatic shutoff 802.3 An Engineered Biological System or Intensive Bioremediation System is installed and the treated	2	
water is used on site. Design and implementation is approved by appropriate regional authority.	20	
802.4 Where a humidifier is required, a recirculating humidifier is used in lieu of a traditional "flow	1	
through" type.		
802.5 Advanced wastewater (aerobic) treatment system is installed and treated water is used on site.	20	
	900 INDOOR ENVIRONI	MENTAL QUALITY
	901 POLLUTANT SOL	
901.1 Space and water heating options.		
901.1.1 Natural draft furnaces, boilers or water heaters are not located in conditioned spaces, including conditioned crawlspaces. Natural draft furnaces, boilers and water		
heaters are permitted to be installed within the conditioned spaces if located in a	5	
mechanical room that has an outdoor air source, and is otherwise sealed and insulated to separate it from the conditioned space(s).		
901.1.2 Air handling equipment or return ducts are not located in the garage, unless	5	5
placed in isolated. air-sealed mechanical rooms with an outside air source. 901.1.3 The following combustion space heating or water heating equipment is installed		
within conditioned space: (1)(a) All furnaces or all boilers are power vent	3	
(1)(b) All furnaces or all boilers are direct vent	5	
(2)(a) All water heaters are power vent	3	
(2)(b) All water heaters are direct vent 901.1.4 Gas-fired fireplaces and direct heating equipment is listed and is installed in	5	5
accordance with the NFPA National Fuel Gas Code or ICC International Fuel Gas Code or	Mandatory, if applicable	No gas fireplace or
the applicable local gas appliance installation code. Gas-fired fireplaces and direct	ivialidatory, ir applicable	heating equipment
heating equipment are vented to the outdoors. 901.1.5 Natural gas and propane fireplaces are direct vented, have permanently fixed	-	
glass fronts or gasketed doors, and comply with CSA ANSI Z21.88/CSA 2.33 or CSA ANSI 721.50b/CSA 2.22b	7	
901.1.6 Heat pump air handler is installed in conditioned or unconditioned space.		
(1) Unconditioned space (2) Conditioned space	2	5
(2) Conditioned space 901.2 Solid fuel-burning appliances.	5	, ,
901.2.1 Solid fuel-burning fireplaces, inserts, stoves and heaters are code compliant and		
are in accordance with the following requirements: 901.2.1(1) Site-built masonry wood-burning fireplaces are equipped		
with outside combustion air and a means of sealing the flue and the	Mandatory	No site built wood
combustion air outlets to minimize interior air (heat) loss when not in	4 points if applicable	burning
operation.		0
901.2.1(2) Factory-built, wood-burning fireplaces are in accordance with the certification requirements of UL 127 and are EPA certified.	Mandatory	No factory-built wood-burning
with the certification requirements of OC 127 and are EFA certified.	6 points if applicable	0
901.2.1(3) Wood stove and fireplace inserts, as defined in UL 1482	Mandatory	No wood stove or
Section 3.8, are in accordance with the certification requirements of UL 1482 and are in accordance with the emission requirements of the EPA	6 points if applicable	fireplace inserts
901.2.1(4) Pellet (biomass) stoves and furnaces are in accordance with		0 No pellet stove or
the requirements of ASTM E1509 or are EPA certified.	Mandatory 6 points if applicable	furnace
	6 points if applicable	0
901.2.1(5) Masonry heaters are in accordance with the definitions in ASTM E1602 and ICC IBC, Section 2112.1.	Mandatory	No masonry heater
,	6 points if applicable	0
901.2.2 Fireplaces, wood stoves, pellet stoves, or masonry heaters are not installed.	7	7
901.3 Garages are in accordance with the following:		
901.3(1)(a) Where installed in the common wall between the attached garage and	Mandatani	
conditioned space, the door is tightly sealed and gasketed.	Mandatory 2 points if applicable	Met
901.3(1)(b) A continuous air barrier is provided between walls and ceilings separating		2
the garage space from the conditioned living spaces.	Mandatory 2 points if applicable	Met
901.3(1)(c) For one- and two-family dwelling units, a 100 cfm (47 L/s) or greater ducted,		2
or 70 cfm (33 L/s) cfm or greater unducted wall exhaust fan is installed and vented to the		
outdoors, 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	4	8
either human passage door or roll-up automatic doors are operated.		
901.3(2) A carport is installed, the garage is detached from the building, or no garage is	10	
installed. 901.4(1) Structural plywood used for floor, wall, and/or roof sheathing is compliant with DOC PS 1 and/or	10	
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	Mandatory	Met
or Exterior for plywood, and Exposure 1 for OSB.		
901.4(2)-(6) Wood materials. A minimum of 85% of material within a product group (i.e., wood structural panels, countertops, composite trim/doors, custom woodwork, and/or component closet shelving) is	10 points maximum	10
manufactured in accordance with the following:		
901.4(2) Particleboard and MDF (medium density fiberboard) is manufactured and labeled in accordance with CPA A208.1 and CPA A208.2, respectively.		
countertops	2	
composite trim custom woodwork	2	2
custom woodwork shelving	2 2	2
901.4(3) Hardwood plywood in accordance w/ HPVA HP-1 & HUD Title 24, Part 3280.		
countertops	2	
composite trim custom woodwork	2	
shelving	2	
901.4(4) Particleboard, MDF, or hardwood plywood is in accordance with CPA 2.		
countertops composite trim	3	
custom woodwork	3	
shelving	3	
901.4(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.		
countertops	4	
composite trim	4	
custom woodwork shelving	4	
901.4(6) Non-emitting products.	-	
countertops	4	4
composite trim custom woodwork	4	
shelving	4	

Secretary in March 1997 Company of the Company of	901.5 Cabinets. A minimum of 85 percent of installed cabinets are in accordance with one or any combination of the following.			
General Control of the Control of th			composite wood	
Mile Amphies Additional and Statement in accordance of the Conference of the Con	(1) All parts of the cabinet are made of solid wood or non-formaldehyde emitting	3	3	
March Section Common Section	materials such as metal or glass. (2) The composite wood used in wood cabinets are in accordance with CARR Composite.			
Accordance of the control of the con		5		
March Marc	party program such as but not limited to, those in Appendix D.			
Section 1.				
Math	fixtures.	Mandatory	Met	
Model Control	901.6(2)(a) Carpet in accordance with the emission levels of CDPH/EHLB Standard	6		
Comparison Com				
The Processor Service of the Control		2		
Secretary with the makes or part and the response of control of the Part of Secretary with the Control of Secretary with the C	901.7 Hard-surface flooring. Minimum of 10% of the conditioned floor space has pre-finished hard-			
Mills diseased with the control of t		6	6	
and generalize and security and an extension of control production of the control production of	accordance with the emission concentration limits of CDPH/EHLB Standard Method v1.1.			
and personage in a security of all the center of control of the center o	901.8 Wall coverings. Minimum of 10% of the interior wall surfaces are covered & a minimum of 85% of			
According to 100 - 100 100		4		
### Company 1992 1.5 miles (1992 1.5 miles (V1.1.			
Secretary and extended the control of the control o				
Part	accordance with Section 901.9.2.			
13 15 15 15 15 15 15 15				
Climate and Cold State And Cold State And Cold State State And Cold St		5	5	
98.3.3 A Polithous of animal, control and provided and the animal an				
1911 - 2	(3) CARR Suggested Control Measure for Architectural Coatings			
8.13.3 See applications on an antimication and processing of the country of the c		1		
services, and in accordance which the control house of complete stocking of the complete of th				
proming recording and anyther of 10% of the special products used within a sortion of the full days and the special products used within a sortion of the full days and the special products of the sp	envelope, are in accordance with the emission levels of CDPH/EHLB Standard Method	8		
proming recording and anyther of 10% of the special products used within a sortion of the full days and the special products used within a sortion of the full days and the special products of the sp	v1.1.			
Security Country Cou				
99.1.19(1) (100%	in accordance with one of the following, as applicable.			
Set 1.48(2 C-CACCO mark or 100 memory or 100	901.10(1) CDPH/EHLB Method V1.1			
20.1.1 Interface contains of the power of an extra contains in a contain of the power of the contains the extra contains of the power of the contains the contains of the cont			5	
with the membrow love for CROWNESS SURVINESS AND CONTROL TO AND CO				
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Section of the control of the contro		4	4	
special for the control processor according control control or count separate specially as the lamendate velocity of the St. 130 August and the special control processor according control for the control or co				
Segment of the control of the contro				
90.3 190 Control of the control of t		3	3	
90.1 10 Confus grows and services of the control of the Confus of the Co	901.13 Building entrance pollutants control. Pollutants are controlled at all main building entrances.			
M3.14(1) littlers griffer an read of mails with building or clearly and a normal griffer follows: (1) All retains common area of a mails with building or edisplated as non-mailing any and the control of the follows: (1) All retains common area of a mails with building or edisplated as non-mailing any and the control of the control o				
10) 14 March common passed an anti-source design and so an own college of the common passed and anti-source disease and common passed and source design and so an own college of the common passed and source design and so an own college of the common passed and source design and sour				
1) All receives common press of a multi-unit building are designated on pon anothing and buildings. 1		1		
areas with scored signates. (1) Extractive containing areas at a sub-flain building are designated with patient (apening with score). 202 Designation of the sub-flain area (apening with score). 202 Designation of the building are controlled. 203 Designation of the building are controlled. 204 Designation of the building are controlled. 205 Designation of the building area of the building are controlled. 205 Designation of the building area of the buildin	901.14 Non-smoking areas. Environmental tobacco smoke is minimized by one or more of the following:			
Interest with content of an influent of 25 feet from merits, and operated an influence of 25 feet from merits, and operated with book of the content merits, and operated with book of the content merits, and operated with the following of the content of the cont	(1) All interior common areas of a multi-unit building are designated as non-smoking			
and bounds a minimum of 25 feet from metries, option of parties in the building or controlled. ***********************************	areas with posted signage.	1		
So Political National Control of				
201 before Publicating generated in the building are controlled. 202 Light Controlled C		1		
902.1 Spot vertilation in accordance with the following: 902.11(1) All bastimous are verted to the outdoors - rate + 50 cm er 20 cm if continuous perietion in accordance with the following: 902.11(1) Cothers dryers are verted to the outdoors 902.11(1) Cothers dryers are verted to the outdoors at rate of 100 cm er 25 cm if if it is a sill of the second of the cother of the outdoors and the second of the cother of the outdoors and the second of the cother of the outdoors are second of the cother		902 POLLUTANT	CONTROL	
99.1.15 Spot wentlation is in accordance with the following: 99.1.101 A lost income any extended to the outdoors - rate = 50 cfm or 20 cfm if continuous operation of the				
902.11(1) All between severate to the outdoors - rate = 50 cfm or 20 cfm of continuous operation of source of the outdoors of the continuous operation				
Continuous operation 902.1120				
902.11(2) Cothes dayers are wented to the outdoors 902.11(2) Extinct chalaut units outde outdoors & rate of 100 cfm or 25 cfm if centions operation. 902.12 Buthroom or laundry sehalaut fan is provided w/m automatic timer or humidicat. 902.12(2) 2 automatic timer/humidicat devices installed 902.12(2) 2 automatic timer/humidicat devices installed 902.12(2) 2 automatic timer/humidicat devices installed 903.12(2) 4 cm or automatic timer/humidicat devices installed 903.12(3) 4 cm or automatic timer/humidicat devices installed 903.12(4) 6 cm or automatic t		••	Met	
99.1.19 Clother skyrus are worked of the outdoors & rate of 100 cfm or 75 cfm if centinations obsertation. 99.1.18 Information that shorted outdoors & rate of 100 cfm or 75 cfm if centinations obsertation. 99.1.29 21 zetwants time provided with authorises installed 90.1.29 21 zetwants time/fluministic indevices installed 7 7 7 7 90.1.10 3 authorises time/fluministic indevices installed 90.1.29 21 zetwants time/fluministic indevices installed 90.1.20 3 zetwants time/fluministic indevices installed 91.1.10 zetwants time/fluministic indevices installed 92.1.1.10 zetwants time/fluministic indevices installed 93.1.1.10 zetwants time/fluministic indevice	continuous operation	iviandatory		
902.1.12) Extinction embasts units ducted outdoors & rate of 100 cfm or 25 cfm if entertainment concentions. 902.1.21 Bastroom or bursdy enhant fails a provided w/m automatic timer or humidistat. 902.1.212 a stantomic timer/bursdistat drives installed 902.1.212 a stantomic timer/bursdistat drives installed 7 7 7 902.1.213 a stantomic timer/bursdistat drives installed 9 9 7 902.1.213 continuous for informatic favority humidistat drives installed 9 9 7 9 9 7 9 9 9 9 9 9 9 9 9 9 9 9	903 1 1/2) Clothes druers are vented to the outdoors			
Continuous nearration 90.1.28 (In continuous nearration) 90.1.28 (In continuous the manufacture) Pulmeditant devices installed 11		Mandatory	Met	
992.12 Between on a laundry enhant fan is provided wy an automatic timer or humbitate. 992.12 (22) a storaturat timer / humbitate devices installed 992.12 (23) a storaturat timer / humbitate devices installed 992.12 (24) 4 or more automatic timer / humbitate devices installed 992.12 (24) 4 or more automatic timer / humbitate devices installed 992.12 (24) 4 or more automatic timer / humbitate devices installed 992.12 (24) 4 or more automatic timer / humbitate devices installed 992.13 (25) and a storage of the storage of		8	8	
992.12(1) a factoral time (rhumbidatal devices installed 990.12(2) a factoral time (rhumbidatal devices installed 990.12(2) a factoral time (rhumbidatal devices installed 990.12(2) a factoral time (rhumbidatal devices installed 990.13 (it.) and 100.13 (it.) and				
992.1.2 (13) a stormatic timer/humbidist devices installed 992.1.3 (inches mage, bathroom, and bundly sphasus are verified to specification. Verifilation as from a trib point of exhaust is restricted as animum and 100 for (16.2.14) (intermitted to 23 inches) (15.1.4) (intermitted to 23 inches) (inches) (inch		5		timer
992.1 2.1(3) and nore automatic timer/jumidistal devices installed 992.1 3 Exterior angle, battroom, and bushop's shate are werlind to specification. Ventilation after we the point of exhaust is tested to a minimum of 100 cfm (67 2.16) intermittent or 25 cfm (11.16 4.1/5) continuous for kinds, and 50 cfm (26 2.16) intermittent or 25 cfm (11.6 4.1/5) continuous for kinds, and 50 cfm (26 2.16) intermittent or 20 cfm (9.4 4.1/5) continuous for kinds, and 50 cfm (26 2.16) intermittent or 20 cfm (9.4 4.1/5) continuous for kinds from support and the state of the s		7	7	
992.13 inches range, bathroom, and isuardy exhaust are verified to specification. Ventilation arillow at the point of exhaust is tested to a minimum of conference for 25 often (1.3.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins, and 50 often (2.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins (9.5.6 L/s) intermittent or 20 often (9.4 L/s) continuous for kitchins (9.5.6 L/s) intermittent or 20 often (9.5.6 L/s) intermitten	902.1.2(3) 3 automatic timer/humidistat devices installed			
a airflow at the point of exhaust is tested to a minimum of 100 Cfm (17.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for the chaust on the continuous for bathroom and/or laundow. 902.14 Child (NRG) STAR Tams 902.14 (II) NRG) STAR Tams 902.2 Sublicacy (II) Sublicacy (II) NRG) STAR Tams 902.2 Sublicacy (III) Su				
cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23 6 L/s) intermittent or 20 cfm (9.4 L/s) renativuses for hathromes and/for loaundy. 902.14 Exhaust fan are ENERGY STAR, as applicable. 902.14 Chaust fan are ENERGY STAR, as applicable. 902.14 Chaust fan are ENERGY STAR, as applicable. 902.14 Chaust fan are ENERGY STAR, as applicable. 902.14 Starting of the	902.1.2(4) 4 or more automatic timer/humidistat devices installed			
Popular Exhibitions and fine and Exhibition Systems and Proceedings of the Control of the Contro	902.1.2[4] 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation			
992.14 Shahust final see PERROY STAR, as a spikable. 902.14(1) ENROY STAR fans on the spike of t	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 (1/s) intermittent or 25	11		
902.14(2) EVEROY STAR fans operating at 1 sone or less 902.2.1 Whole building vertilation system is implemented per Appendix B. Mandatory where the maximum air infiltration risk is less than 5 ACH50. 902.2.1(1) Eshaust or supply fan(s) ready for continuous operation and with announced statistic state in section of the state state of a ACH50. 902.2.1(2) Eshanes devaluated supply fan swith supply intakes located in accordance with the manufacturer's guidelines to not introduce polluted air back into the building. 902.2.1(2) His pregrey-recovery ventilator 902.2.1(3) Heat recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 8 8 902.2.2.1 Whole state of the state of a calvery devaluated in a secondance with section 932. 902.2.3 MEW fitters 8 or greater are installed on central forced air systems and are accessible. Designer or installer is to verify that the HVXC equipment is able to accommodate the greater 9 902.2.3 MeV fitters 8 or greater are installed on central forced air systems and are accessible. Designer or installer is to verify that the HVXC equipment is able to accommodate the greater 9 902.3 (1) Buildings located in Zone 2 - radio detection system installed 7 902.3 (1) Buildings located in Zone 2 - radio system is installed 10 902.3 (2) Buildings located in Zone 2 - radio system is installed 10 902.4 (3) Buildings located in Zone 2 - radio detection system in maximum air construction activities to prevent dust and the pollutants from entering the system. 3 902.4 (2) Prior to owner occupancy, HVXC supply registers (boots), return grilles, and duct terminations are inspected and vacuumed. In addition, the colls are inspected and cleaned and the filter is replaced in focacesary. 902.5 Living system contaminants. The living gase is sealed to prevent during contaminants. The living gase is sealed in accordance with Section 701.4.3.1 to prevent during contaminants. The living gase is sealed in accordance with Section 701.4.3.1 to prevent during contaminants.	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/or laundry.	11 8		
902.2 Building ventilation systems. 902.2.1 Whole building ventilation system is implemented per Appendix B. Mindstory where the maximum air infiltration rate is less than 5 ACH50. 902.2.1(1) Exhaust or supply fan(s) ready for continuous operation and with accordance labeled control. 902.2.1(2) Building set labeled control. 902.2.1(2) Building set labeled control. 902.2.1(3) Building is custed to achieve the design fas with supply intakes located in accordance with the mainfacturer's guidelines to not introduce polluted air back into the building. 902.2.1(3) Building is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.2.1(3) Building is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.3.1(3) Buildings is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.3.1(3) Buildings is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.3.1(3) Buildings is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.3.1(3) Buildings is custed to achieve the design fan airflow at point of exhaust in accordance with section 902.2.1. 902.3.1(3) Buildings is custed in Zone 1 - radion detection system installed 7 902.3.1(3) Buildings is custed in Zone 1 - radion detection system installed 7 902.3.1(3) Buildings is custed in Zone 1 - radion detection system installed 902.4.1(3) HVA.5 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. 902.5.1 (2) For to owner occupancy, HVA.5 supply registers (boots), return grilles, and duct terminations are inspected and vacuumed, in addition, the coils are inspected and cleaned and the filter in replaced if necessary.	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/or laundry. 902.1.4 Exhaust fins are PEIRCRY 5TAR, as applicable.	11 8 MAX = 12	6	
902.2.1 Whole building ventilation system is implemented per Appendix B. Mandatory where the maximum air infiltration rate is less than 5 ACH50. 902.2.1(1) Exhaust or supply fan(s) ready for continuous operation and with a part of the substitution of the substitution of the supplementation are supplementation of the s	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitche range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (13.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/or Jaundry. 902.1.4 Exhaust fans are ENERGY STAR, as applicable.	8 MAX = 12 2 points per fan	6	
Mandatory where the naximum air infiltration rate is less than 5 ACH50. 902.2.1(1) Exhaust or supply fan(s) ready for continuous operation and with appropriate in appropriate in the state of the character of the controls. 902.2.1(2) Islained exhaust and supply fans with supply intakes located in accordance with the manufacturer's guidelines to not introduce polluted air back into the building. 902.2.1(3) Heat-recovery ventilation of the state of the character of the state of the character of the state of	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/or laundry. 902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.1.4(1) ENERGY STAR fans 902.1.4(2) ENERGY STAR fans operating at 1 sone or less	8 MAX = 12 2 points per fan	6	
### PROPRIES AND PROPRIES AND PROPRIES AND PROPRIES AND PROPRES AND PROPRIES AND PR	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/ox laundry. 902.1.4 Exhaust fans are ENERGY 5TAR, as applicable. 902.1.4 Exhaust fans are ENERGY 5TAR fans 902.1.4(2) ENERGY 5TAR fans 902.1.4(2) ENERGY 5TAR fans 902.1.4 [20.1.4] Exhaust fans are supported to the support of	8 MAX = 12 2 points per fan	6	
rate is less than 5 ACH50. 902.1.[1] Exhaust or supply fan(s) ready for continuous operation and with anoromorately labeled controls. 902.2.1(2) Balance deahuast and supply fans with supply intakes located in accordance with the manufacturer's guidelines to not introduce polluted air back into the building. 902.2.1(3) Harely-recovery ventilator 902.2.1(3) Harely-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(5) Harely stress or greater are installed on central forced air systems and are accessible. Deligner or installer is to verify that the HVAC equipment is able to accommodate the greater pressure drop of MERV R Effects. 902.3.1(8) Labely R Effects. 902.3.1(1) Labely readon system is installed 10 902.3.1(1) Labely R Effects. 902.3.1(1)	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hathrooms and/or laundry. 902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.1.4 Exhaust fans are ENERGY STAR fans 902.1.4 [2] ENERGY STAR fans 902.1.4 [2] ENERGY STAR fans 902.2 Building ventilation systems.	8 MAX = 12 2 points per fan 3 points per fan Mandatory where the	6 3 fans	
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cleaned and the filter is replaced if necessary. 902.5 Central vacuum system vented to the outside. 902.6 Living space contaminants. The living space is sealed to prevent unwanted contaminants. The living space is sealed in accordance with Section 701.4.3.1 to prevent unwanted contaminants. Mandatory Met	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation ariflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) (902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.1.4(1) ENERGY STAR fans operating at 1 sone or less 902.2 Building wentilation systems. 902.2 Building wentilation systems. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is not introduce polluted air back into the building. 902.2.1 Whole building ventilation system is installed and control of exhaust in accordance with section 902.2.1. 902.2.3 MERV filters 3 or greater are installed on central forced air systems and are accessible. Designer or installer is to ventify that the HVAC equipment is able to accommodate the greater pressure droon of MERV & Rilbers. 902.3 Buildings located in Zone 1 - radon detection system installed 902.3(1) publidings located in Zone 2 - radon detection system installed 902.3(1) active radon system is installed 902.3(1) buildings located in Zone 2 - 902.4 One of the following HVAC supply registers (boots), return grilles, and rough-ins are covered during construction activities to prevent dust and other pollutants	8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 3 6 7 8 8 8 Mandatory 7 10	6 3 fans ready for continuous operation 3 Not Zone 1	
902.5 Central vacuum system vented to the outside. 902.6 Living space contaminants. The living space is sealed to prevent unwanted contaminants. The living space is sealed in accordance with Section 701.4.3.1 to prevent unwanted contaminants. Mandatory Met	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 (mf (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hatchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) (11.8 L/s) continuous for hatchens, and for laundry. 902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.1.4(1) ENERGY STAR fans (11.8 L/s) (11.8	8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 3 6 7 8 8 8 3 Mandatory 7 10 7	6 3 fans ready for continuous operation 3 Not Zone 1	
902.6 Living space contaminants. The living space is sealed to prevent unwanted contaminants. The living space is sealed in accordance with Section 701.4.3.1 to prevent unwanted contaminants. Mandatory Met	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Richen range, bathroom, and laundry exhaust are verified to specification. Ventilation ariflow at the point of exhaust is tested to a minimum of 100 cfm (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 30 cfm (2.8 L/s) intermittent or 20 cfm (9.4 L/s) continuous for kitchens, and 30 cfm (2.8 L/s) intermittent or 20 cfm (9.4 L/s) (10.2 L/s)	8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 3 6 7 8 8 8 3 Mandatory 7 10 7	6 3 fans ready for continuous operation 3 Not Zone 1	
space is sealed in accordance with Section 701.4.3.1 to prevent unwanted contaminants. Mandatory Met	902.12(4) 4 or more automatic timer/humidistat devices installed 902.13 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (472.1/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hatchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hatchens, and 100 cfm (472.1/s) intermittent or 20 cfm (9.4 L/s) (902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.14(1) ENERGY STAR fans operating at 1 sone or less 902.14(2) ENERGY STAR fans operating at 1 sone or less 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Heart of the special system of the special system is supply fans with supply intakes located in accordance with the manufacturer's guidelines to not introduce polluted air back into the building. 902.2.1(3) Heat-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(6) Energy-recovery ventilator 902.2.1(7) Exhaust or supply fans air low at point of exhaust in accordance with section 902.2.1 902.2.3 MERV liters 8 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 or installer is to verify that the HVAC equipment is able to accommodate the greater or installer is to verify that the HVAC equipment is able to accommodate the greater or installer is to verify that the HVAC equipment is able to accommodate the greater or or installer is to verify that the HVAC equipment is able to accommodate the greater or or installer is to verify that the HVAC equipment is replaced or or one 2 902.3(1) a	11 8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 3 6 7 8 8 8 1 Mandatory 7 10 7	6 3 fans ready for continuous operation 3 Not Zone 1	
	902.12(4) 4 or more automatic timer/humidistat devices installed 902.13 Kitchen range, bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 (mf (47.2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for hatchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for bathrooms and/or laundry. 902.14 Exhaust fans are ENERGY STAR, as applicable. 902.14(1) ENERGY STAR fans 902.14(2) ENERGY STAR fans operating at 1 sone or less 902.2 Building ventilation systems. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Selection of the system	11 8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 3 6 7 8 8 8 1 Mandatory 7 10 7	6 3 fans ready for continuous operation 3 Not Zone 1	
	902.1.2(4) 4 or more automatic timer/humidistat devices installed 902.1.3 Kitchen range, Bathroom, and laundry exhaust are verified to specification. Ventilation airflow at the point of exhaust is tested to a minimum of 100 cfm (47:2 L/s) intermittent or 25 cfm (11.8 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) continuous for kitchens, and 50 cfm (23.6 L/s) intermittent or 20 cfm (9.4 L/s) (902.1.4 Exhaust fans are ENERGY STAR, as applicable. 902.1.4(1) ENERGY STAR fans operating at 1 sone or less 902.2 Building wentilation systems. 902.2 Building wentilation systems. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system is implemented per Appendix B. 902.2.1 Whole building ventilation system and supply fans with supply intakes located in accordance with the manufacturer's guidelines to not introduce polluted air back into the building. 902.2.1(3) Heat-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(4) Energy-recovery ventilator 902.2.1(5) Silmers as or greater are installed on central forced air systems and are accessible. Designer or installer is to verify that the H-VAC equipment is able to accommodate the greater pressure droop of MERV & filters. 902.3 REW filters as or greater are installed on central forced air systems and are accessible. Designer or installer is to verify that the H-VAC equipment is able to accommodate the greater pressure droop of MERV & filters. 902.3(1) Buildings located in Zone 1 - radon detection system installed 902.3(1) Buildings located in Zone 2 - radon detection system installed 902.3(1) Buildings located in Zone 2 - radon detection system installed 902.3(2) Buildings located in Zone 2 - radon detection system installed 902.4(1) HVAC supply registers (boots), return grilles, and construction activities to	8 MAX = 12 2 points per fan 3 points per fan 3 points per fan Mandatory where the maximum air infiltration rate is less than 5 ACH50. 7 8 8 8 7 7 8 7 10 7 10 7 3 3	6 3 fans ready for continuous operation 3 Not Zone 1	

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903.1 Plumbing 903.1.1 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				
903.1.2 Plumbing is not installed in unconditioned spaces. 903.2 Duct insulation. Ducts are in accordance with one of the following.	5				
903.2(1) All HVAC ducts, plenums, and trunks are in conditioned space.	1				
903.2(2) All HVAC ducts, plenums, and trunks are in conditioned space. All HVAC ducts are insulated to a minimum of R4.	3	3			
903.3 Relative humidity. In climate zones 1A, 2A, 3A, 4A, and 5A as defined by Figure 6(1), equipment is installed to maintain relative humidity (RH) at or below 60% using one of the following:					
903.3(1) Additional dehumidification system(s)	7				
903.3(2) Central HVAC system equipped with additional controls to operate in dehumidification mode	7				
904.1 Humidity monitoring system. A humidity monitoring system is installed with a mobile base unit	904 INNOVATIVE	PRACTICES			
that displays a reading of temperature and relative humidity at the base unit with a minimum of two remote units. One remote unit is placed permanently inside the conditioned space in a central location, excluding attachment to exterior walls, and another remote unit is placed permanently outside of the	2				
conditional space 904.2 Kitchen exhaust. Kitchen exhaust unit(s) that equal or exceeds 400 cfm (189 L/s), and make-up air is provided.	2				
1000 OPERATION, MAINTENANCE AND BUILDING OWNER EDUCATION					
1001 BUILDING O' 1001.1 A building owner's manual is provided that includes the following conditions, as available and	WNERS' MANUAL FOR (1 point per 2 items	ONE- AND TWO-FA	MILY DWELLINGS		
applicable. (Points awarded per two items. Points awarded for both mandatory and non-mandatory items.) NOT AVAILABLE FOR MULTI-UNIT BUILDINGS	including (1)-(3)	3			
1001.1(1) A green building program certificate or completion document.	MAX = 8 Mandatory	Met			
1001.1(2) List of green building features (can include the national green building	Mandatory	Met			
checklist). 1001.1(3) Product manufacturer's manuals or product data sheet for installed major	Mandatory	Met			
equipment, fixtures, and appliances. 1001.1(4) Maintenance checklist.	0.5	INIEL			
1001.1(5) Information on local recycling programs.	0.5	Met			
1001.1(6) Information on available local utility programs that purchase a portion of energy from renewable energy providers.	0.5				
1001.1(7) Explanation of the benefits of using energy efficient lighting systems (e.g.,	0.5				
compact fluorescent light bulbs. LEDI in high usage areas. 1001.1(8) A list of practices to conserve water and energy.	0.5	Met			
1001.1(9) Local public transporation options.	0.5	Met			
1001.1(10) A diagram showing the location of safety valves and controls for major building systems.	0.5				
1001.1(11) Where frost-protected shallow foundations are used, owner is informed of precautions.	0.5				
1001.1(12) List of local service providers that offer regularly scheduled service &	0.5				
maintenance contracts to assure proper performance of equipment & the structure 1001.1(13) Photo record of framing with utilities installed.	0.5				
1001.1(14) List of common hazardous materials often used around the building and	0.5				
instructions for proper handling and disposal of these materials. 1001.1(15) Information on organic pest control, fertilizers, deicers, and cleaning	0.5				
products. 1001.1(16) Information on native landscape materials and/or those that have low-water					
requirements. 1001.1(17) Information on methods of maintaining the building's relative humidity in the	0.5				
range of 30% to 60%.	0.5				
1001.1(18) Instructions for inspecting the building for termite infestation. 1001.1(19) Instructions for maintaining gutters and downspouts and importance of	0.5				
diverting water a minimum of 5 feet away from foundation.	0.5				
1001.1(20) A narrative detailing the importance of maintenance and operation in retaining the attributes of a green-built building.	0.5				
1001.1(21) Where storm water management measures are installed on the lot, information on the location. purpose. and upkeep of these measures.	0.5				
1002 TRAINING OF BUILDING OWNERS ON OPERATION	N AND MAINTENANCE	FOR ONE- AND TW	VO-FAMILY DWELLINGS AND MULTI-UNIT BUILDINGS		
1002.1 Building owners are familiarized with the role of occupants in achieving green goals. On-site 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	8	8			
(3) lighting controls					
(4) appliances operation (5) water heater settings and hot water use					
(6) fan controls					
1003 CONSTRUCTION, OPERATION, 1003.0 Intent. Manuals are provided to the responsible parties (owner, management, tenant, and/or	AND MAINTENANCE M	ANUALS AND TRA	INING FOR MULTI-UNIT BUILDINGS		
maintenance team) regarding the construction, operation, and maintenance of the building. 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. NOT AVAILABLE FOR SINGLE-FAMILY DWELLINGS.					
1003.1 A building construction manual, including five or more of the following, is compiled and	1 point per 2 items				
distributed in accordance with the intent of this practice.	including (1)-(3)				
NOT AVAILABLE FOR SINGLE-FAMILY DWELLINGS.	MAX = 4				
	5+ items must be Met				
1003.1(1) A narrative detailing the importance of constructing a green building, including		NA			
a list of green building attributes included in the building. 1003.1(2) A local green building program certificate as well as a copy of the National					
Green Building Standard™ and the individual measures achieved by the building.	Mandatory	NA			
1003.1(3) Warranty, operation, and maintenance instructions for all equipment, fixtures,	Mandatory	NA			
appliances. and finishes. 1003.1(4) Record drawings of the building.	0.5	.10			
1003.1(5) A record drawing of the site including stormwater management plans, utility	0.5				
lines. landscaping with common name & genus/species of plantings. 1003.1(6) A diagram showing the location of safety valves and controls for major					
building systems. 1003.1(7) A list of the type and wattage of light bulbs installed in light fixtures.	0.5				
1003.1(8) A photo record of framing with utilities installed. Photos are taken prior to	0.5				
installing insulation and clearly labeled. 1003.2 Operations manuals are created and distributed to the responsible parties in accordance with	1 point per 2 items	1			
1003.0. Between all of the operation manuals, five or more of the following options are included.	including (1)-(3)				
NOT AVAILABLE FOR SINGLE-FAMILY DWELLINGS.	MAX = 5				
1003.2(1) A narrative detailing the importance of operating and living in a green building	Mandatory	N/A			
1003.2(2) A list of practices to conserve water and energy.	Mandatory	N/A			
1003.2(3) Information on methods of maintaining the building's relative humidity in the	0.5	N/A			
range of 30% to 60%. 1003.2(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	0.5				
installation of on-site renewable energy systems 1003.2(5) Information on local and on-site recycling and hazardous waste disposal					
installation of nosite renewable energy systems. 1003.2(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. 1003.2(6) local public transportation options.	0.5				

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1003.2(7) Explanation of the benefits of using compact fluorescent light bulbs, LEDs, or	0.5		
other high-efficiency lighting.			
1003.2(8) Information on native landscape materials and/or those that have low water	0.5		
requirements.			
1003.2(9) Information on radon mitigation, if applicable Information on the radon	0.5		
mitigation system, where applicable.			
1003.2(10) A procedure for educating tenants in rental properties on the proper use,			
benefits, and maintenance of green building systems including a maintenance staff	0.5		
notification process for improperly functioning equipment.			
1003.3 Maintenance manuals are created and distributed to the responsible parties in accordance with	1 point per 2 items		
1003.0. Between all of the maintenance manuals, five or more of the following options are included.	including 1003.3(1)		
NOT AVAILABLE FOR SINGLE-FAMILY DWELLINGS.			
	MAX = 4		
	5+ items must be Met		
1003.3(1) A narrative detailing the importance of maintaining a green building. This	Mandatory	N/A	
narrative is included in all responsible parties' manuals.	iviandatory	N/A	
1003.3(2) A list of local service providers that offer regularly scheduled service and			
maintenance contracts to assure proper performance of equipment and the structure.	0.5		
1003.3(3) User-friendly maintenance checklist including:			
(a) HVAC filters			
(b) thermostat operation and programming			
(c) lighting controls	0.5		
(d) appliances and settings			
(e) water heater settings			
1003.3(4) List of common hazardous materials often used around the building and			
instructions for proper handling and disposal of these materials.	0.5		
1003.3(5) Information on organic pest control, fertilizers, deicers, and cleaning products.			
2005/5/J morniation on organic pest control, for anzers, and declaring products.	0.5		
1003.3(6) Instructions for maintaining gutters and downspouts and importance of			
diverting water a minimum of 5 feet away from foundation.	0.5		
1003.3(7) Instructions for inspecting the building for termite infestation.	0.5		
1003.3(8) A procedure for rental tenant occupancy turnover that preserves the green		<u> </u>	
features.	0.5		
1003.3(9) An outline of a formal green building training program for maintenance staff.			
An oddine of a formal green building training program for maintenance start.	0.5		

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