	Multifamily New Construction Worksheet	Points	Planned	Status	Documentation
ITE PLANNIN P1: SITE SEL		_	_		
PI: SITE SEL		_	_		
	of site:	Solo	ct all that a	anly:	
, ,	Brownfield site	3		pry.	Site Plan
	Previously developed site	1	1		
	Infill site	_	Select one:		
	A. >50%	1			
	B. >75%	2	2		
P 1.1 Dwe	lling units per acre:		Select one:		
1	\geq 15 dwelling units per acre	1			Site Plan
2	≥ 20 dwelling units per acre	2	3	i i	
	\geq 25 dwelling units per acre	3			
2: SITE DES					
PTIONAL AT		- .			
	nectivity to:		Select One:		Site Plan, Location
	Walking distance to bus line ($\leq 1/2$ mile)				
	A. Existing	2	2		
	B. Planned	1			
	Walking distance to rail/rapid transit (≤1/2 mile) A. Existing		Select One:		
	A. ExistingB. Planned	3	-		
	Biking distance to bike path ($\leq 1/2$ mile)		Select One:		
	A. Existing	2			
	B. Planned	1	2		
	Walking distance to public openspace or greenspace $\geq 3/4$ acre in size ($\leq 1/2$ mile)		Select One:		
	A. Existing	2			
	B. Planned	1	2		
	Walking distance to mixed uses ($\leq 1/2$ mile)	-	Select One:		
	A. 6 or more mixed uses	2			
	B. 4 or more mixed uses	1	2		
	le at least 50% of hardscape within 30' of building	2			Calculation
	ice light pollution - all exterior lights full cutoff	4			
2.3 Perm	anent stormwater control:		Select one:		
Α.	≥25% of onsite impervious surface areas	2			Calculation
В.	≥50% of onsite impervious surface areas	3	3		
С.	≥75% of onsite impervious surface areas	4			
2.4 Stree	et Trees are ≤ 40' on center at minimum	1			
P 2.5 Conn	nectivity to adjacent sites:	Sele	ct all that a	oply:	
1.	Vehicular access (2+ connections)	1			
2.	Dedicated pedestrian and bike access	1			
P 2.6 Com	munity Gardens	1			
	oor Community gathering space	2			
	Il plant species that serve as pollinators on site for regional wildlife and/or local endagered	1	1		
-	ies for a minimum of 20% of plantings		_		
	ing reduced below local ordinance (1:1 ratio) EPARATION AND PRESERVATION MEASURES	1	1		Local ordinance
EQUIRED AT		_	_		
	kshop on erosion and sediment control		- 1		Certificate
	assessment identifying all greenspace and tree save potential	-	-		Greenspace/Tree survey
	ion and sedimentation control plan	-	-		E&S plan
	ot install invasive plants on site	-			Plant list
	ply with all federal, state, and local government erosion control and tree protection measures	-	<u> </u>		- Hancinse
	e I environmental testing and remediation plan (if applicable)	-	<u> </u>		Phase I
	all personnel designated for erosion control during rain events	-	<u> </u>		Contact Person
	nstream water quality testing (if applicable)	-	<u> </u>		Test data
	I all storm drains or storm inlets to discourage dumping of pollutants	-	- 1		Photographs
	l/vehicle cleaning protocols posted and enforced	-	_		Photographs
TIONAL AT					5 1
3.10 Tree	preservation and protection measures employed on site	2			Site plan
	e site undisturbed and protect greenspace from future development (min 25%)	2			Site plan
3.12 Mill c	cleared logs (100%)	1			Contract
	d stumps and limbs for mulch (\geq 80%)	1			Photographs
	planting (12 trees per acre; trees \geq 2" diameter)	2			Site plan
	ATIVE TRANSPORTATION ACCOMODATIONS				
PTIONAL AT					
	racks	1	1		
	ered bike storage facility	1	1		
	nt access to business center	1			
	ered bus stop	2	2		
	ric vehicle charging facility	2	2		
TE PLANNING			23	0	
	N WASTE MANAGEMENT (CW)				
QUIRED AT					
	onstruction materials burned or buried on site	-	-		
-	state-approved landfills may be utilized	-	-		
PTIONAL AT					Waste mgmt. plan, pick up ticket
	waste management plan and divert 75% from landfill of:		ect all that ap	ply:	
1.	Wood	2	2		
	Cardboard				

	3. Metal (including beverage containers)	1	1		
	4. Drywall (recycle or grind and spread on site)	2	2		
	5. Plastic (including beverage containers)	1			
	6. Shingles	2			
CW 1.3	Central Cut Area	2			
CW 1.4	Previously developed site: divert \geq 25% of demolition waste from landfill	2			
CONSTRU	JCTION WASTE MANAGEMENT TOTAL	1	6	0	
DESOUD			-	-	
	CE EFFICIENCY (RE) SOURCE EFFICIENT DESIGN				
	ED AT ALL LEVELS	_	_	_	
RE 1.0	Limit framing at all windows and doors	-	1		
RE 1.1	Engineered roof framing (90%)	-	-	+	
	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED	-	-		
RE 1.2	Advanced Framing:	Solo	ct all that	apply:	
NL 1.2	1. 2-stud corners where structurally feasible				
		3	3		
	2. Ladder T-walls where structurally feasible	2	2		
	3. Size headers for loads (non-structural headers in non-load bearing walls)	1	1		
	AL AT ALL LEVELS	1			
RE 1.3	Average floor area of unit:		Select on	e:	
	A. < 800 square feet	2	1		
	B. 800-1100 square feet	1	_		
RE 1.4	Floor joists are 24" on center (≥80%)	1	1		
RE 1.5	Non-load bearing wall studs are 24" on center	1	1		
	VANCED FRAMING PRODUCTS				
OPTION	AL AT ALL LEVELS				
RE 2.0	Precast insulated foundation walls (≥90%)	2			
RE 2.1	Insulated concrete forms or precast autoclaved aerated concrete (≥90%):	Sele	ect all that	apply:	
	1. Foundation walls	2			
	2. Exterior walls	3			
RE 2.2	Engineered wall framing (≥90%)	1			
RE 2.3	Deliver panelized construction or SIPs to the site pre-framed (\geq 90%):		ect all that	applv:	
	1. Floors	2			
	2. Exterior walls	2			
	3. Roof			-	
	4. Modular construction	2			
RE 2.4	 Modular construction Structural headers are steel or engineered wood (≥90%) 	2			
	CAL, RECYCLED AND/OR NATURAL CONTENT MATERIALS	2	1	1	
	AL AT ALL LEVELS				
		-			Desite a triangle
RE 3.0	Use recycled concrete or alternate material as aggregate in foundation		 		Product literature
RE 3.1	Replace $\geq 25\%$ of cement in concrete with fly ash or slag:		ct all that	apply:	Product literature
	1. Slab and/or foundation walls (100%)	1	1	1	
		-			
	2. Exterior cladding and trim (≥75%)	1			
	Lumber/Millwork/Flooring: Use No Tropical Wood		2		Product literature
RE 3.2 RE 3.3	Lumber/Millwork/Flooring: Use No Tropical Wood Use building materials extracted, processed and manufactured ≤500 miles from site (1 point per	1	2		Product literature
RE 3.3	Lumber/Millwork/Flooring: Use No Tropical Wood Use building materials extracted, processed and manufactured ≤500 miles from site (1 point per product maximum 5 points)	1 2 1-5		apply:	
RE 3.3	Lumber/Millwork/Flooring: Use No Tropical Wood Use building materials extracted, processed and manufactured ≤500 miles from site (1 point per product maximum 5 points) Reused, recycled, MDF with no added urea-formaldehyde, local species or FSC certified wood in all:	1 2 1-5 Sele	2 ct all that	apply:	Product literature Product literature
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DU 1.8	Install air conditioner condensing unit pad	-	-		
DU 1.9	Roof drip edge with $\geq 1/4$ " overhang	-	-		
DU 1.10	Drain pan for water heaters and washing machines	-	-		
REQUIRE	D AT PLATINUM, OPTIONAL AT GOLD AND CERTIFIED		•		
DU 1.11	Enclosed crawlspace, if applicable to design	2			
DU 1.12	Moisture-resistant wallboard in bathrooms	2	2		
DU 1.13	Flashing at bottom of exterior walls integrated with drainage system	2			
OPTION	AL AT ALL LEVELS				
DU 1.14	Alternative termite treatment with no soil pretreatment	2			
DU 1.15	Non-toxic pest treatment:	Sele	ct all that a	pply:	
	 All lumber in contact with foundation (≥36" above foundation) 	1			
	2. All lumber	2			
	3. Mold inhibitor with warranty applied to all lumber	1			
DU 1.16	Vented rain screen behind exterior cladding	2			
DU 1.17	Install termite mesh system	3			
DU 1.18	Exterior cladding (\geq 75% facade) with \geq 30-year warranty	2			Warranty
DU 1.19	Windows, doors and skylights with ≥25-year warranty	1			Warranty
DU 1.20	Insulate cold water pipes ≥R-2	1			
DU 1.21	All entrance doors have overhang ≥3' depth	1			
DU 1.22	Roofing warranty:		Select one:	:	Warranty
	A. ≥40-year	1			
	B. ≥50-year	2	1		
DU 2: MC	DISTURE MANAGEMENT				
REQUIRE	D AT ALL LEVELS				
DU 2.0	Gravel bed (57's, no fines) beneath sub-grade slabs, on grade slabs, or raised slabs	-	-		Photographs
DU 2.1	100% coverage of ≥6mil vapor barrier beneath all slabs, in all crawlspaces	-	-		Photographs
DU 2.2	Foundation drain on top of sub-grade footing	-	-		
DU 2.3	Patio slabs, walks and driveways sloped $\geq 1/4''$ per 1' away from building for $\geq 10'$ or to the edge of	-	_		
	the surface, whichever is less	-	-		
DU 2.4	Final site grade sloped $\geq 1/2^{\circ}$ per 1' away from home for $\geq 10'$ or to the edge of the site, whichever is	-	-		
DU 2.5	Do not install wet or water-damaged building materials	-	-		
DU 2.6	Capillary break between foundation and framing at exterior walls	-	-		
DU 2.7	Drainage board and damp proofing for below-grade walls	-	-		
DU 2.8	Design for additional dehumidification: rough-In electrical and plumbing for dehumidifier	-	-		
REQUIRE	D AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				
DU 2.9	Additional dehumidification system: Basement or sealed crawlspace system	2			
DU 2.10	Foundation drain at outside perimeter edge of footing surrounded with 6" clean gravel and fabric filter	2	2		Photographs
	AL AT ALL LEVELS				
DU 2.11	Install whole-house ENERGY STAR dehumidifier	4			Product literature
	Slab and crawlspace vapor barrier ≥10 mil or reinforced	1	1		Photographs
	Humidistat or thermidistat used with whole-house variable speed cooling system	2			Product literature
DU 2.14	Capillary break:	Sele	ct all that a	pply:	
	1. Between ground/footing or footing/foundation	2			
	2. Between foundation and framing for all walls	1	1		
	TY AND MOISTURE MANAGEMENT TOTAL		6	0	
	AIR QUALITY (IAQ)				
	OMBUSTION SAFETY				
-	D AT ALL LEVELS				
IAQ 1.0	No unvented combustion fireplaces, appliances, or space heaters	-	-		
IAQ 1.1	All fireplaces have outdoor combustion air supply and masonry-built fireplaces have gasketed doors	-	-		
IAQ 1.2	No atmospherically vented water heaters or furnaces	-	-		
IAQ 1.3	Sealed-combustion or electric water heater, must be installed in conditioned space	-	-		
IAQ 1.4	Carbon monoxide detector required if combustion appliances exist	-	-		
-	D AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				
-	If installed, all fireplaces meet indoor air quality guidelines and have gasketed doors	2			Product literature
	IDOOR POLLUTANT CONTROL				
REOUTRE					

.					
REQUIRE	ED AT ALL LEVELS				
IAQ 2.0	Protect all ducts until construction is complete	-	-		
IAQ 2.1	Filter(s) easily accessible for property maintenance to service	-	-		
IAQ 2.2	Provide rodent and corrosion proof screens with mesh ≤ 0.5 " for all openings not fully sealed or	-	-		
IAQ 2.3	All outdoor supply air crosses filter prior to distribution	-	-		
IAQ 2.4	All interior paints are \leq 100g/L VOC content	-	-		Product literature
IAQ 2.5	No carpet in below grade units	-	-		
REQUIRE	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				
IAQ 2.6	Filters are \geq MERV 8	1	1		Product literature
	ED AT PLATINUM, OPTIONAL AT GOLD AND CERTIFIED				
IAQ 2.7	Certified low or no VOC materials:	Sele	ct all that ap	oply:	Product literature
	1. Interior paints	1	1		
	2. Stains and finishes on wood floors	2	2		
	3. Sealants and adhesives	2	2		
	4. Carpet	1	1		
	5. Carpet pad	1	1		
	6. Carpet pad adhesive	2	2		
IAQ 2.8		1	1		
OPTION/	AL AT ALL LEVELS				
IAQ 2.9	No added urea-formaldehyde:	Sele	ct all that a	pply	Product literature
	1. Insulation	1	1		
	2. Subfloor	1			
	3. All cabinets, shelves, and countertops	2	2		
	Seal all particle board surfaces with water-based sealant	1			
IAQ 2.11	No carpet in all units	3			

•	Permanent walk-off mats installed at main entrances	1	1	
	IR QUALITY TOTAL		16	0
	RFORMANCE BUILDING ENVELOPE (BE)			
	D AT ALL LEVELS	-		-
3E 0.1	IECC adopted by jurisdiction plus applicable state amendments	-	-	
BE 0.2	Certified level projects must achieve a confirmed HERS Index ≤ 75	-	-	
BE 0.3	Gold and Platinum level projects must achieve a confirmed HERS Index ≤ the ENERGY STAR Multifamily New Construction Target HERS Index (Adaptive Reuse Project must follow Adaptive Reuse	-	-	
	LAT ALL LEVELS			
BE 0.4	Confirmed HERS Index ≤ Zero Energy Ready Home Target HERS Index	5	1	1
	R SEALING MEASURES	5		
	D AT ALL LEVELS - DESIGN FOR UNIT COMPARTMENTALIZATION	_	_	_
BE 1.0	Vapor barriers installed under slabs and crawls only and not on any vertical surfaces	-	-	1
BE 1.1	Seal bottom plates to subfloor or foundation for entire unit envelope	-	_	
BE 1.2	Block and seal joists cavities:	All	nust com	iply:
	1. Above supporting walls at cantilevered floors	-	-	
	2. Under attic kneewalls	-	-	
	3. Above attached garage walls	-	-	
BE 1.3	Block stud cavities at change in ceiling height	-	-	
BE 1.4	Install blocking and baffles in insulated and vented attics	-	-	
BE 1.5	Seal penetrations through:	All	must com	ply:
	1. Foundations and exterior wall assemblies	-	-	
	2. Top and bottom plates	-	-	<u> </u>
	3. Band and rim joists	-	-	
	4. Insulated subfloor	-	-	
	5. Sheathing6. Walls and ceilings in attached garages	-	-	
	and ceilings in attached garagesAll ceilings	-	-	
BE 1.6	Seal penetrations around:	-	- must com	
210	1. Shower, sinks, toilets and tub drains	- 41		ιριγ.
	 Shower, sinks, conces and cub drains HVAC supply and return boots sealed to subfloor or drywall (floor, walls, or ceilings) 		-	
	 Window and door rough openings 	-	-	1
	4. All drywall penetrations (common walls between attached units included)	-	-	
	5. Exhaust fans to drywall	-	-	
	6. Attic pull-down stairs, scuttle holes and kneewall doors	-	-	
	7. Chases	-	-	
BE 1.7	Seal seams and gaps in:	All	must com	iply:
	1. Band joist sheathing	-	-	
	2. Exterior wall sheathing	-	-	
	3. All seams in SIP's	-	-	
BE 1.8	Install rigid air barriers:	All	must com	iply:
	1. Behind tubs and showers on insulated walls	-	-	
	2. At attic kneewall on attic-side (including skylight shafts)	-	-	
	3. At chases in contact with the building envelope (including fireplace chases)	-	-	
	4. Along staircases on insulated walls	-	-	
	5. Along porch roofs	-	-	
	 At dropped ceiling/soffit At all band joints above unit constant walls 	-	-	
BE 1.9	 At all band joists above unit separation walls Install weather-stripping at: 	-	-	
DC 1.9	 All exterior doors (if not included in door assembly) 	All	must com I	ipiy: I
	 Attic kneewall doors, scuttle holes and pull down stairs 	-	-	
DE 1 10		-	-	
BE 1.10	All recessed can lights must be air tight, gasketed at all floors and also IC-rated in insulated ceilings; in Climate Zone 4, insulate exterior surface of fixture to \geq R-10	-	-	
BE 1.11	Fire rated assemblies that do not use draft block in band areas must comply with Air Tight Drywall	-	-	1
BE 1.12	Units adjacent to CMU walls: framing and sub-floor at unit envelope, including interstitial space, must			1
	be sealed to CMU	-	-	
	D AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED	-		
	Seal top plate to drywall at the attic level	2	2	
	L AT ALL LEVELS	-		1
	Comply with Air tight drywall approach (required if band area draft blocking is not used) Gypcrete on all framed floors separating unit envelopes	4	4	
	Two pour application of gypcrete to include areas blocked by drywall	1	1	
	Firewalls/party walls that eliminate air gap (UL-U370 or equivalent)	1		
	OWER DOOR TEST	<u> </u>		1
	D AT ALL LEVELS			
BE 2.0	Air Changes per Hour $\leq 5 \text{ ACH50}$	-	-	
	L AT ALL LEVELS		1	
BE 2.1	Air Changes per Hour \leq 4 ACH50	7		
BE 2.2	Air Changes per Hour \leq 3 ACH50	10	1	1
BE 3: INS	GULATION		•	
REQUIRE	D AT ALL LEVELS			
BE 3.0	Floors:	All	must com	iply:
	1. Framed ≥ R-19	-	-	· ·
	2. Cantilevered \geq R-30	-	-	
	3. Podium/Elevated Slab ≥ R-19	-	-	
BE 3.1	Walls:	All	must com	iply:
	1. Exterior walls and band joists \geq R-15	-	-	
	2. Elevator walls adjacent to dwelling units \geq R-13	-	-	
	3. Foundation walls \geq R-10 continuous or \geq R-13 cavity	-	-	1
	Ceilings/Roof:	A 11	must com	mbu

BE 4.7 BE 4.8 BE 4.9 BE 4.10 BE 4.11 BE 4.12 BE 4.13 BE 5: RC	Solar shade screens (min all east and west windows)Modeled passive solar design (25% load reduction)Window area is ≤15% of conditioned floor area (all units)	2 3 Selec 2 3 Selec 1 1 1 2 4 2	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9 BE 4.10 BE 4.11 BE 4.12 BE 4.13 BE 5: RC	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area1.5' overhangs over $\geq 80\%$ of south windowsSolar shade screens (min all east and west windows)Modeled passive solar design (25% load reduction)Window area is $\leq 15\%$ of conditioned floor area (all units)DOF	2 3 Selec 2 3 Selec 1 1 1 1 2 4	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9 BE 4.10 BE 4.11 BE 4.12 BE 4.13	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area1.5' overhangs over $\geq 80\%$ of south windowsSolar shade screens (min all east and west windows)Modeled passive solar design (25% load reduction)Window area is $\leq 15\%$ of conditioned floor area (all units)	2 3 Selec 2 3 Selec 1 1 1 1 2 4	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9 BE 4.10 BE 4.11 BE 4.12	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area1.5' overhangs over $\geq 80\%$ of south windowsSolar shade screens (min all east and west windows)Modeled passive solar design (25% load reduction)	2 3 Selec 2 3 Selec 1 1 1 1 2 4	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9 BE 4.10 BE 4.11	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area1.5' overhangs over $\geq 80\%$ of south windowsSolar shade screens (min all east and west windows)	2 3 Selec 2 3 Selec 1 1 1 2	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9 BE 4.10	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area1.5' overhangs over $\geq 80\%$ of south windows	2 3 Selec 2 3 Selec 1 1 1	t all that a	apply:
BE 4.7 BE 4.8 BE 4.9	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area2. East $\leq 3\%$ of floor area	2 3 Selec 2 3 Selec 1 1	t all that a	apply:
BE 4.7 BE 4.8	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:1. West $\leq 2\%$ of floor area	2 3 Selec 2 3 Selec 1	t all that a	apply:
BE 4.7 BE 4.8	Window U-factor and SHGC:1. U-factor ≤ 0.25 2. SHGC ≤ 0.24 Skylight U-factor and SHGC:1. U-factor ≤ 0.43 2. SHGC ≤ 0.24 Glazing facing:	2 3 Selec 2 3 Selec	t all that a	apply:
BE 4.7 BE 4.8	Window U-factor and SHGC: 1. U-factor ≤0.25 2. SHGC ≤0.24 Skylight U-factor and SHGC: 1. U-factor ≤0.43 2. SHGC ≤0.24	2 3 Selec 2 3	t all that a	apply:
BE 4.7	Window U-factor and SHGC: 1. U-factor ≤0.25 2. SHGC ≤0.24 Skylight U-factor and SHGC: 1. U-factor ≤0.43	2 3 Selec 2		
BE 4.7	 Window U-factor and SHGC: 1. U-factor ≤0.25 2. SHGC ≤0.24 Skylight U-factor and SHGC: 	2 3 Selec		
BE 4.7	Window U-factor and SHGC: 1. U-factor ≤0.25 2. SHGC ≤0.24	2 3		
	Window U-factor and SHGC: 1. U-factor ≤0.25	2	t all that a	apply:
	Window U-factor and SHGC:		t all that a	apply:
		1 <u>-</u> ·	1 . 11 . 2	
	2. SHGC ≤0.27	2		
	1. U-factor ≤0.50	1		
BE 4.6	Skylight U-factor and SHGC:		t all that a	apply:
	2. SHGC ≤0.27	2	2	Ļ
	1. U-factor ≤0.32	1	1	
JE 4.3			t all that a	арріў:
BE 4.5	3. Door with > 50% glass: U-factor ≤ 0.32 Window U-factor and SHGC:	1		
	 Door with ≤ 50% glass: U-factor ≤ 0.27 Door with > 50% glass: U-factor ≤ 0.32 	1		┝───┤
		2	2	┞───┤
	1. Opaque door: U factor ≤ 0.21			. viddr
REQUIR BE 4.4	Door U-factor:	Color	t all that a	annluu
	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED	-	-	
BE 4.3	NFRC certified doors, windows and skylights with label	-	-	
	2. SHGC ≤ 0.30	-	-	
f1 6	1. U-factor ≤ 0.55	All		י י יק.
BE 4.2	Skylight U-factor and SHGC:		nust com	nlv.
	2. SHGC ≤ 0.30	_	-	
	1. U-factor ≤0.35	-		P'7.
BE 4.1	Window U-factor and SHGC:	Δ11	must com	plv:
	2. SHGC ≤ 0.30	-	-	
	1. U-factor ≤0.35	-	-	
BE 4.0	Door U-factors and SHGC:	All	must com	ply:
REQUIR	ED AT ALL LEVELS			
BE 4: W	INDOWS			
3E 3.18	Attic kneewall insulated ≥ R-22	2		
	3. Sloped: Climate Zone $4 \ge R-49$	2		
	2. Continuous Roof Deck: Climate Zone $4 \ge R-35$	2	2	
	1. Flat Vented: Climate Zone $4 \ge R-60$	2		1
BE 3.17	5		Select one	:
)F 2 4 -	2. ≥R-5	7		
		5	5	
5.10	1. ≥R-3			
BE 3.16			Select one	:
	6. Insulate exterior walls and band joist \ge R-20 or \ge R-13 cavity plus R-5 insulated sheathing	3	3	
	5. Insulate with spray foam insulation: Flash and batt insulation including band area	2		
	4. Insulate exterior walls and band joist $\ge R-19$	2		
	3. Insulate basement walls with continuous insulation	2		
	2. Insulate unfinished basement walls instead of ceiling	1		
	1. Seal and insulate crawlspace walls \geq R-10 continuous	2		
BE 3.15			t all that a	apply:
DE 2 4 -	2. Floor system over crawlspace, basement, or parking garage	2		
	 Exterior walls including band area Elser system over gravieness, becoment, or parking garage 	4		
BE 3.14	Insulate with foam:		t all that a	apply:
			+ all ±11	ann lu c
	IAL AT ALL LEVELS	1	1	
	Fiberglass batts are unfaced/friction fit	1	1	
	Headers \geq R-3	1	1	
BE 3.11		2	1	
	B. Grade II with insulated sheathing \geq R-3 (100%)	3	2	
DE 3.10	A. Grade I			
BE 3.10			Select one	
	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED	-		
BE 3.9	Slab edge insulation $\geq R-10$	-	-	
BE 3.8	Grade II insulation quality at all building envelope locations	-	-	
BE 3.7	Steel framed buildings require thermal break \geq R-7.5	-	-	
BE 3.6	When installing loose-fill attic insulation, card and rulers must be installed	-	-	
BE 3.5	Attic pull-down/scuttle hole ≥ R-49	-	-	
	2. Insulation and attic-side air barrier \geq R-19	-	-	
	1. Doors ≥ R-19	-	-	
BE 3.4	Attic kneewall:	All	must com	ply:
	3. Attic platforms allow for full-depth insulation below	-	-	
	2. Energy heel trusses or raised top plate	-	-	
	1. Install wind baffles at eaves in every vented bay, or equivalent air barrier at edge of ceiling	-	-	
BE 3.3	Attic/Roof:	All	must com	ply:
	3. Cathedral: Climate Zone $4 \ge R-38$	-	-	
	2. Continuous Roof Deck: Climate Zone $4 \ge R-30$	-	-	
	1. Vented: Climate Zone $4 \ge R-49$	-	-	
	1 Ventedy Climete Zara (> D. 40			

1	A. Attic Side Radiant Barrier	2			Γιναμεί Επειατάτε
	B. ENERGY STAR qualified roof (\geq 75% of total roof area)	2	2		
OPTION	AL AT ALL LEVELS				
BE 5.1	Install green roof system:		Select one:		
	A. \geq 20% of roof area	2			
	B. \geq 40% of roof area	3	4		
	C. $\geq 60\%$ or above	4	1		
HIGH PEF	FORMANCE BUILDING ENVELOPE TOTAL	1 ·	25	0	
ENERGY	EFFICIENT SYSTEMS (ES)			Ū	
	ATING AND COOLING EQUIPMENT				
REQUIR	ED AT ALL LEVELS				
ES 1.0	Size and select all HVAC equipment in accordance with ACCA Manuals J and S:	All	must com	plv:	
	1. Complete Room by Room load calculation utilizing ACCA Manual J 8th Edition Software or later				Load Calculations
	or current ASHRAE based software (Trane Trace or Carrier HAP) and submit to EarthCraft for	-	-		
	review prior to issuing construction drawings. Loads must include detailed inputs.				
	2. Based on worst case unit orientation per unit type	-	-		
	3. Use 2009 ASHRAE Handbook of Fundamentals Climate Design Information or later for outdoor	-	-		
	design temperatures4. Indoor temperatures 70°F for heating and 75° for cooling				
	 Base infiltration on project team selected infiltration goal 				
	 Use actual area, U-factor and SHGC for windows and doors, actual area and R-values of floors, 	-	-		
	walls , and ceilings		-		
	7. Base mechanical ventilation on ASHRAE 62.2- 2010 standard	-	-		
	8. Cooling equipment and/or single-stage heat pump between 95%-125%	-	-		
	9. Provide OEM data for each unique system type	-	-		
	10. Internal loads that reflect design and occupancy \leq 2400 Btu/h	-	-		
ES 1.1	If programmable thermostat installed for heat pump, include adaptive recovery technology	-	-		Product literature
ES 1.2	AHRI performance match all indoor/outdoor coils	-	-		AHRI Certificate
ES 1.3	Non-CFC and non-HCFC refrigerant	-	-		
ES 1.4	No electric resistant heat as primary heat source or reheat	-	-		
ES 1.5	Heat pump efficiency \geq 8.2 HSPF or equivalent COP	-	-		
ES 1.6	Furnace efficiency ≥ 90 AFUE	-	-		
ES 1.7	Cooling equipment \geq 14 SEER or 11 EER	-	-		
	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				
ES 1.8	Heating equipment efficiency:		Select one:		AHRI match
	A. ENERGY STAR qualified furnace(s) \geq 95 AFUE and within 40% of load calculation	2	2		
	B. ENERGY STAR qualified heat pump(s) \ge 8.5 HSPF and within 25% of load calculation	2			
ES 1.9	Verification of proper refrigerant charge with subcooling deviation $\pm 3^{\circ}$ F or superheat deviation $\pm 5^{\circ}$ F	1	1		Test results
ES 1.10	ENERGY STAR qualified cooling equipment ≥SEER 15	2	2		
	AL AT ALL LEVELS				
ES 1.11	Use ACCA Approved Residential Load Calculation Software to produce loads	2	ļ		ACCA Approved Software
ES 1.12	Load Calculations comply with ES 1.0 at first submission (no revision required)	2			
ES 1.13	Variable speed blower	2	2		
ES 1.14	Ground-source heat pump(s) \geq EER 17	3			
ES 1.15	ENERGY STAR qualified cooling equipment ≥ SEER 16	3			
ES 1.16	Heat pump efficiency ≥9.0 HSPF	2			
ES 1.17	Dual-stage compressors	3			
ES 1.18	Condenser units are spaced 2 feet apart	2	2		
ES 1.19	Varible Refrigerant/Mini-Split system utilized for primary heating and cooling CTWORK / AIR HANDLER	6			
	ED AT ALL LEVELS				
ES 2.0	Seal air handlers and duct systems with mastic				
ES 2.0 ES 2.1	Code approved solid connector for all flex-to-flex connections	-	-		
ES 2.1 ES 2.2	Fully duct all supply and return ducts		-		
ES 2.2 ES 2.3	Duct insulation:	-			
2.5	1. \geq R-6: Ducts in conditioned and interstitial spaces (between floors)	AI	l must comp	лу. I	
	1. \geq R-8: Ducts in unconditioned space		-		
		1 -			

	$2 \sim 10^{-10}$ Solution and the space	-	-		
ES 2.4	No ducts in exterior walls or vaulted ceilings and no plenum within 2' of roofline.	-	-		
ES 2.5	Locate all air handlers within conditioned space	-	-		
ES 2.6	Indoor coil protected until finished floor installed	-	-		
ES 2.7	Minimize pressure imbalance within units \leq 6 Pa between bedroom and return	-	-		
ES 2.8	No duct take-offs within 6" of supply plenum or supply trunk cap	-	-		
ES 2.9	Design and construct mechanical closets accessible for service and maintenance requirements	-	-		
REQUIRE	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				
ES 2.10	Install ducts per ACCA Manual D duct design	3	3		Manual D
ES 2.11	Minimize pressure imbalance within units:	Sele	ct all that a	pply:	
	1. Install fully ducted jumper ducts, transfer grills, or dedicated return for each bedroom	2	2		
	2. Measured pressure differential \leq 3 Pa between bedroom and return	3	3		Test results
ES 2.12	Install rigid duct work or pull all flex ducts with no pinches and support at intervals $\leq 5'$	2	2		
ES 2.13	Measure and balance airflow for each duct run (±20% of design)	3	3		
ES 2.14	Verify supply and return duct static pressure	2	2		
ES 2.15	HVAC system and ductwork is dry and clean	1	1		
REQUIRE	ED AT PLATINUM, OPTIONAL AT GOLD AND CERTIFIED				
ES 2.16	Locate entire duct system within conditioned space	5	5		
OPTION	AL AT ALL LEVELS		-		
ES 2.17	Duct design and installation:	Sele	ct all that a	pply:	
	1. Rigid metal supply trunk	2	2		
	2. Space all supply duct take-offs $\geq 6''$ apart	1	1		
	3. Install rigid circular duct as supply plenum	2			
ES 2.18	Duct insulation in unconditioned spaces ≥R-10	1			
ES 2.19	Return plenum duct take-off free area is 120% of supply plenum duct take-off free area	2	2		

FS 2. DH	JCT LEAKAGE TES		тс							1
	ED AT ALL LEVEL		15							
ES 3.0	Test duct leakag		n conditioned f	floor area (C	CFA):		All	must com	ply:	_
	1. Leakage to						-	-		Test results
	2. Total leaka	ge ≤ 6%					-	-		
REQUIRE	ED AT PLATINUM	I, OPTIO	NAL AT GOLD	AND CERT	IFIED					
ES 3.1	Test duct leakag			floor area (C	CFA):		Seleo	t all that	apply:	
	1. Leakage to		2%				8			Test results
	2. Total leaka	ge ≤ 4%					8			
	NTILATION			_			_		_	
	ED AT ALL LEVEL						-	1	1	
ES 4.0	Install exhaust f				side		-	-		
ES 4.1	Gas kitchen rang						-	-		Test results
ES 4.2	Outside air vent						-	-		
ES 4.3	When installed t							must com	ply:	
	 ≥10' away ≥ 2' above 		aust outlets, v	enicle lating	zones, parkin	g garages	-	-		
		-	e duct must be	ovtondod :	and affived thr	ough the soffit vent	-	-		
			ot be run to th			Jugh the some vent	-	-		
			v not be contro		idistat		-	-		
	6. Install rigid			incu by num	laistat		-	-		
	-		ucted to exteri	ior of buildir	na					
ES 4.4	Seal seams of al				-		- 1	- 1	1	
ES 4.5	Duct clothes dry						-	-	1	
ES 4.6	No power roof v						-	-		
ES 4.7	Back-draft damp		chen and bath	room exhau	ist		-	-	1	
REQUIRE	ED AT PLATINUM	I AND GO	LD, OPTIONA	AL AT CERT	IFIED			•	•	
ES 4.8	If installed, ceilir	ng fans mi	ust be ENERGY	′ STAR quali	fied (1/bedroo	m and 1 in living room)	1			Product literature
ES 4.9						ed airflow ≥50 cfm	2			Test results
ES 4.10		-					3	3		Test results
ES 4.11	Verify outdoor a					-	2	2		Test results
ES 4.12		accessible	e ventilation co	ntrols, with	override cont	ols for continuously operating	1			
ES 4.13	ventilation fans Supply/exhaust	fanc rata	at <2 com (intorm:++) and <1	(continuous)				
	ED AT PLATINUM		-			(continuous)	1	1		
ES 4.14		-		AND CERT			Solo	t all that	apply	
23 4.14	1. Passive, ra			laheled on	each floor		1	t all that		
	 Passive, rational sector for the secto	-	-		each noor		1	1		
ES 4.15							1	1		
ES 4.16		-					1	1		
	AL AT ALL LEVEL		<u> </u>					-		
ES 4.17			umidistat) bat	hroom exha	ust fan contro	ls	2	I		
ES 4.18			-				3			
ES 4.19	Vent storage roo	om to outs	side				1			
ES 5: WA	ATER HEATER							<u> </u>	1	
REQUIRE	ED AT ALL LEVEL	.S								
ES 5.0	Water Heater m	ust be inst	alled in condit	ioned space	. If gas, direct	vent	-	-		
ES 5.1	Heat trap on all	storage w	ater heaters				-	-		
ES 5.2	Water heater eff	iciencies:								
	Tank Size	Gas EF	Electric EF	Gas UEF	Electric UEF					
	20- 55 gal	0.65	0.95	0.61	0.92	_				
							-	-		AHRI Certificate
	55 - 100 gal	0.75	1.97	0.76	2.03	_				
	< 2 gal	0.82	0.93	0.81	0.91					
	Dina incel 1									
ES 5.3	Pipe insulation o			AND CEDT	TETED		-	-	L	
ES 5.4	High efficiency s			AND CEKI			Solor	t one from	chart:	AHRI Certificate
							Jelec			
	Tank Size	Gas E				ectric UEF	-			
	≤55 gallon	≥0.6			≥0.64	≥2.00 ≥2.20	2			
	>55 gallon	≥0.7			≥0.78	≥2.20				
ES 5.5	Tankless gas wa	ter heater	\ge .90 EF or \ge	.87 UEF			4			
	AL AT ALL LEVEL									
ES 5.6	Type of water he							Select one	:	
	A. Solar dome	•					6			Product literature
	B. High efficie			•		d buffer tank	4	4		AHRI Certificate
	C. ENERGY ST				eater		4		<u> </u>	
ES 5.7	Hot water piping		n ≥R-4 (100%))			2			
	GHTING/APPLIA									
-	ED AT ALL LEVEL		000/ =f = !!	and the second						
ES 6.0	High-efficacy light	-	-	nanent fixtu	res		-	-	ļ	
ES 6.1	If installed, ENE						-	-	ļ	Product Literature
ES 6.2	If installed, ENE		-		TETER		-	-		Product Literature
-	ED AT PLATINUM				IFIED					
ES 6.3	If installed, ENE		1			applicable to compare the last	2	2		Product literature
ES 6.4		-	ciotnes dryer	with moistu	re sensor (no	applicable to commercial dryers)	2		L	Product literature
	AL AT ALL LEVEL							Colort -		
ES 6.5	Fixtures and bul A. ENERGY ST		ed compact flu	Inrescont fin	tures or IED	(100%)		Select one		
		-	iorescents or L				2	2		
	Dundsted U	- inputt iit		50103 dl		<u></u>				I

ES 7: COI	MMON AREA LIGHTING/APPLIANCES				1
	ED AT PLATINUM AND GOLD, OPTIONAL AT CERTIFIED				1
S 7.0	100% LED bulbs in all corridor/breezeway and all common spaces	2	2		
PTIONA	AL AT ALL LEVELS				
S 7.1	Control systems:		ct all that a	apply:	
	1. Automatic indoor lighting controls	2			
	2. Automatic outdoor lighting controls	2	2		
S 7.2	High Efficiency Exterior Lighting:		ct all that a	apply:	
	1. Design to Reach IES guidelines: Lighting For Exterior Environments	2			
	 Achieve 50% reduction based on Advanced Energy Design Guide (ASHRAE/IES) Wish offician as extension lighting using 100% LED bulks 	1			
672	3. High efficiency exterior lighting using 100% LED bulbs	2	2	ļ	
S 7.3	High efficiency elevators EFFICIENT SYSTEMS TOTAL	2		Ĺ	
	EFFICIENCY (WE)		53	0	
	IDOOR WATER USE				
	ED AT ALL LEVELS				
VE 1.0	Meet National Energy Policy Act low flow standards for all fixtures		l _		
VE 1.1	Detect no leaks at any water-using fixture, appliance or equipment	-	_		
VE 1.2	Low-flow fixtures (units and common facilities):	Sele	t all that a	pply:	
	1. WaterSense labeled toilet (\leq 1.28 avg. gal/flush)	-	-		
	2. WaterSense labeled urinal (≤0.5 gal/flush)	-	_		Product literature
	3. WaterSense lavatory faucet and accessories (≤ 1.5 gpm at 60 psi)	-	-		
	 4. WaterSense labeled Showerhead (≤2.0 gpm) 	-	-		1
EQUIRE	ED AT PLATINUM , OPTIONAL AT GOLD AND CERTIFIED			·	1
VE 1.3	If installed, water treatment system NSF certified, ≥85% efficient	2			1
VE 1.4	If installed, water softeners certified to NSF/ANSI Standard 44	2		1	1
VE 1.5	Store ≤ 0.5 gal of water between water heater and fixture (not applicable to central systems)	2		1	Test results
VE 1.6	WaterSense labeled Showerhead (1.75 gpm)	1		1	Product literature
PTIONA	AL AT ALL LEVELS	•	•	•	-
VE 1.7	Toilet (≤1.1 avg. gal/flush)	2	2]
VE 1.8	Waterless urinals in common areas	2]
VE 1.9	Greywater system for toilet flushing	4]
	Rainwater harvest system for indoor water use	4]
	Unit water pressure ≤60 psi	2			
VE 1.12	Hot water demand ≤ 0.13 gal of water between loop and fixture and ≤ 2 gal of water in loop between	2			Test results
	water heater and furthest fixture (not applicable to central systems)	-			
	JTDOOR WATER USE				
-	ED AT ALL LEVELS	1	1	. –	
	Cover all exposed soil with 2"-3" mulch layer	-	-		
VE 2.1	Irrigation system:	Al	must com	ply:	
	1. Must have rain sensor shutoff switch	-	-		
	 Provide operating manual to property management Provide invitation system laws to property management 	-	-		
VE 2.2	 Provide irrigation system layout to property management If installed, ornamental water features must recirculate water and serve beneficial use 	-	-		
VE 2.2 VE 2.3	Install plants to maintain distance $\geq 2'$ from home at maturity	-	-		Landecano plan
	ED AT PLATINUM, OPTIONAL AT GOLD AND CERTIFIED	-	-		Landscape plan
VE 2.4	Landscape design:		Select one		
VL 2.7	A. Turf \leq 40% of landscaped area	2		T	Landscape plan
	B. Use WaterSense water budget tool to design landscape	2			Calculator
VE 2.5	Vegetate slopes exceeding 4:1	1	1		Landscape plan
VE 2.6	If installed, irrigation system is: (Max 4 points)	-	ct all that a	apply:	
	1. Design, install, and audit irrigation system by WaterSense Irrigation Partner with no leaks	2			•
	 Design, install, and addit ingation system by water sense ingation ratifier with no leass Micro-irrigation system (e.g., drip irrigation) includes pressure regulator, filter and flush end 			1	1
	assemblies	2			1
	3. Distribution uniformity ≥65% lower quarter	2			1
	 Install sprinklers only on turfgrass, pop-up height ≥4" 	1]
	5. Establish grow-in phase and post landscape seasonal water schedules at irrigation controller	2			
VE 2.7	Drought-tolerant/native landscaping turf and plants	1		1	Plant list
PTIONA	AL AT ALL LEVELS	• •	•	•	
VE 2.8	Test and amend soil	1			Test results
VE 2.9	Irrigation: (Max 5 points)	Sele	ct all that a	apply:	
	1. Greywater irrigation system	3]
	2. Rainwater irrigation system	3]
	3. Zone irrigation system for specific water needs in each planting area	2	2]
	4. Provide weather station or soil moisture sensor on irrigation system	2]
/F 2 10	Timer on exterior water spigots	1			
	FFICIENCY TOTAL		5	0	1
ATER EF					
ATER EF	ION AND OPERATIONS (EO)				_
ATER EF DUCATI O 1: ED	ION AND OPERATIONS (EO) DUCATION				
ATER EF DUCATI O 1: ED EQUIRE	ION AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS		I	1	
ATER EF	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual	-	-		Сору
ATER EF	CON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS	-	-		
VATER EF	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact	-	-		Copy Contact
/ATER EF DUCATE O 1: ED EQUIRE O 1.0 PTIONA O 1.1 O 1.2	CON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility		-		
VATER EF DUCATION EQUIRE CO 1.0 DPTIONA CO 1.1 EO 1.2 EO 1.3	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources	1	- 2		Contact
VATER EF DUCATION CO 1: ED CO 1.0 DPTIONA CO 1.1 CO 1.2 CO 1.3 CO 2: OF	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources PERATIONS AND MANAGEMENT	1 2	- 2		Contact
VATER EF DUCATION EQUIRE 0 1.0 DPTIONA 0 1.1 0 1.2 0 1.3 0 2: OF REQUIRE	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources PERATIONS AND MANAGEMENT ED AT ALL LEVELS	1 2	- 2		Contact
VATER EF DUCATI CO 1: ED REQUIRE CO 1.0 DPTIONA CO 1.1 CO 1.2 CO 1.3 CO 1.3 CO 2: OF REQUIRE CO 2.0	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources PERATIONS AND MANAGEMENT ED AT ALL LEVELS Provide all subcontractors with EarthCraft Multifamily worksheet	1 2	- 2		Contact
VATER EF DUCATION EQUIRE 0 1.0 DPTION 0 1.1 0 1.2 0 1.3 0 1.3 0 2: OF REQUIRE 0 2.0 DPTION	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources PERATIONS AND MANAGEMENT ED AT ALL LEVELS Provide all subcontractors with EarthCraft Multifamily worksheet AL AT ALL LEVELS	1 2	- 2		Contact
VATER EF DUCATI CO 1: ED EQUIRE CO 1.0 PTIONA CO 1.1 CO 1.2 CO 1.3 CO 1.3 CO 2: OF REQUIRE CO 2.0	TON AND OPERATIONS (EO) DUCATION ED AT ALL LEVELS Provide property manager with project-specific owner's manual AL AT ALL LEVELS Local recycling contact Community Recycling Facility Household hazardous waste resources PERATIONS AND MANAGEMENT ED AT ALL LEVELS Provide all subcontractors with EarthCraft Multifamily worksheet	1 2	- 2 -		Contact

EO 2.3	Provide pre-occupancy briefing for tenant	2]
EO 2.4	Project participates in post occupancy project debriefing	2			
EO 2.5	Environmental management and building maintenance guidelines for staff	2			Сору
EO 2.6	Landscape maintenance guide for maintenance and management personnel	2	2		
EO 3: TH	IIRD PARTY PROGRAMS	_			
OPTION	AL AT ALL LEVELS				
EO 3.0	ENERGY STAR Multifamily New Construction	2	2		
EO 3.1	Indoor airPLUS	2			
EO 3.2	Qualify for WaterSense New Homes	1			
EO 3.3	EarthCraft Community Certification	3			
EO 3.4	EarthCraft Light Commercial for Community Center	2			
EO 3.5	EarthCraft Light Commercial Ready Spaces	1			
EO 3.6	Zero Energy Ready Home Certification	1			
EDUCATIO	ON AND OPERATIONS TOTAL		7	0	
INNOVA	TION (INV)				
OPTION/	AL AT ALL LEVELS				
IN 1.0	On-site fuel cell or co-generation system	4			System design
IN 1.1	Solar-ready design	2			System design
IN 1.2	Wind and/or Solar electric system (10% of project requirements)	5			System design
IN 1.3	100% of stormwater kept on site and used for development operations	4			System design
IN 1.4	Common areas use solar and/or wind electric system (80% of demand)	4			System design
IN 1.5	Housing Affordability:	:	Select one	:	
	A. ≥20% total units	1	2		
	B. ≥50% total units	2	2		
IN 1.6	Developer contracts for at least 12 months post construction energy monitoring	4	4		Unit Level Utility Data
IN 1.7	Project specific innovation points: builder submits specifications for innovative products or design features to EarthCraft prior to construction completion	TBD			
INNOVAT	ION TOTAL		6	0	
WORKSH	EET TOTAL		161	0	