



EarthCraft Multifamily

Sensibly Built for the Environment

MIXED HUMID CLIMATE WORKSHEET

2006 IECC Climate Zone 3

A worksheet must be submitted to EarthCraft for each project to be certified. An EarthCraft Multifamily certification requires 200 points. In addition to having a completed worksheet, each project must also have an initial development charette with EarthCraft representatives, appropriate documentation, including ENERGY STAR Certification if eligible or commissioned energy modeling showing performance at least 15% better than 2006 International Energy Conservation Code minimum requirements, and a Final Inspection by an EarthCraft Multifamily Inspector. Any appropriate practices contributing to EarthCraft and ENERGY STAR certification will be incorporated into non-residential project buildings (e.g. clubhouse, common areas, corridors).

Worksheets may be submitted via mail, fax, email or presented on-site to the inspector.

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Address: 1415 N Taft St, Suite 100, Arlington, VA 22201

Project Name: Arlington Mill Residences

Developer - By accepting the EarthCraft Multifamily certification, I pledge that this development has been constructed to the standards listed on this Scoring Worksheet.

Developer Signature

date

Builder/Contractor - I have reviewed the EarthCraft Multifamily measures with the developer.

Builder/Contractor Signature

date

EarthCraft Multifamily Inspector

Inspector Signature

date

Worksheet Score 252

	POINTS	SCORE	DOCUMENTATION
SITE PLANNING			
SITE SELECTION			
brownfield site	3	0	
grayfield development (not eligible for infill points)	2	2	
infill development (not eligible for greyfield points)	1	0	
average density greater than 15 units per acre	1	0	
average density greater than 20 units per acre	2	2	
proximity to Regional Bike Path -- <i>Existing</i>	2	2	
proximity to Regional Bike Path -- <i>Planned</i>	1	0	
transit orientation- Existing Local Bus (max distance 1/4 mile)	2	2	
transit orientation – Planned/Funded Local Bus (max distance 1/4 mile)	1	0	
transit orientation- Existing Rail/Rapid Transit (max distance 1/4 mile)	3	0	
transit orientation- Planned Rail/Rapid Transit (max distance 1/4 mile)	2	1	
SITE SELECTION SUBTOTAL	20	9	
SITE PREPARATION AND PRESERVATION			
REQUIRED SITE PREPARATION AND PRESERVATION MEASURES			
REQUIRED: Must comply with all federal, state, and local government erosion control and tree protection measures.	-	Y	
erosion control site plan	-	Y	site plan
phase I environmental testing and remediation plan (if required)	-	Y	cover sheet
workshop on erosion and sediment control	-	Y	certificate
tree preservation plan	-	Y	tree plan
ADDITIONAL SITE PREPARATION AND PRESERVATION MEASURES			
excavated topsoil protected from erosion (i.e. tarpred/strawed and seeded)	5	5	
use of redundant mulch, compost, or straw bales for erosion control	3	0	
permanent erosion control measures (i.e. rain swales and gardens)	3	0	
grind stumps and limbs for mulch	2	0	
mill cleared logs	2	0	confirmation letter
registered Building With Trees (NAHB Program) development	5	0	confirmation letter
utilities in tree root zones tunneled or hand dug (1 point per tree, max 5 trees)	1 per tree	0	max 5 points
individual trees fenced at drip line (1 point per tree, max 5 trees)	1 per tree	0	max 5 points
protected tree save area (min 25% of development)	2	0	
tree planting (min 12 trees per acre of developed land; min 2" caliper)	4	4	tree plan
wildlife habitat certification including shelter, food, and water	2	0	confirmation letter
road/vehicle cleaning protocols posted and enforced	1	1	
plant materials from disturbed areas of site relocated	1	0	confirmation letter
on-call personnel designated for erosion control during rain events	1	1	1+" in 24 hrs
downstream water quality testing	3	0	report copies
SITE PREPARATION AND PRESERVATION SUBTOTAL	34	11	
SITE AMENITIES			
pedestrian walkway connects project to business district	3	0	max 1 mile
street trees--minimum interval 40 ft.	2	2	tree plan
alternative trans. accommodation (bike racks, covered bus stop, etc.)	1	1	
dedicated pedestrian and bicycle access to surrounding sites	3	3	
infrastructure connectivity to surrounding sites	3	0	min 2 connections
community gardens	3	0	
centrally located community recycling center	3	3	
exterior lighting designed to reduce light pollution	3	3	lighting plan
hearing and sight impaired accommodations	1	0	
parking reduced below local ordinance	2	0	
SITE AMENITIES SUBTOTAL	24	12	
SITE PLANNING TOTAL	78	32	
ENERGY EFFICIENT BUILDING ENVELOPE AND SYSTEMS			
REQUIRED: ENERGY STAR CERTIFICATION (visit www.energystar.gov)			
REQUIRED: IECC 2006 plus applicable state amendments			
REQUIRED AIR SEALING MEASURES			
ENERGY STAR thermal bypass inspection checklist completed	-	Y	
if vaulted ceiling, blocking installed with baffles to prevent air washing through insulation or use foam insulation	-	Y	
chases capped, sealed and insulated	-	Y	
stud cavities blocked at change in ceiling height	-	Y	
attic kneewall has sealed attic side rigid sheathing	-	Y	
joist cavities under attic kneewall blocked	-	Y	
penetrations through top and bottom plate sealed	-	Y	
bottom plate sealed to floor or foundation (where gypcrete not poured)	-	Y	
window and door rough openings sealed	-	Y	
gaps in exterior wall sheathing sealed	-	Y	

	POINTS	SCORE	DOCUMENTATION
sheathing penetrations sealed (including exterior light fixtures)	-	Y	
penetrations through band sealed (including exhaust ducts, etc.)	-	Y	
exterior walls of fireplace chase sealed	-	NA	
penetrations through subfloors sealed (including drains)	-	Y	
cantilevered floor sealed above supporting wall	-	Y	
all recessed can lights in insulated ceilings must be airtight and IC-rated	-	Y	
penetrations through insulated ceilings sealed	-	Y	
seal all HVAC boots to subfloor or drywall	-	Y	
attic kneewall doors & scuttle holes weatherstripped	-	NA	
attic pull-down stairs, scuttle hole, & kneewall doors sealed at rough opening	-	NA	
penetrations through drywall in attached garage sealed	-	Y	
seams in band joist between conditioned floors sealed	-	Y	
air barrier installed behind tubs and showers (@ exterior/insulated walls)	-	Y	
no polyethylene shall be used in exterior or foundation walls	-	Y	
air barrier applied to interior of chase where it meets building envelope	-	Y	
ADDITIONAL AIR SEALING MEASURES			
ceiling drywall sealed to top plate	1	1	
drywall penetrations in insulated walls (@ exterior walls) sealed	1	0	
gypcrete on all framed floors separating unit envelopes	1	1	
two-pour application of gypcrete to include areas blocked by drywall	3	3	
firewalls/party walls that eliminate air-gap (e.g. UL 370 firewall)	4	0	
BLOWER DOOR TEST--min. 30% of all units, worst-case units mandatory, following ENERGY STAR protocols for units that do not meet infiltration goals			
REQUIRED: blower door test result ≤0.35 cfm ₅₀ / square foot of unit envelope	-	Y	test results
test result ≤0.30 cfm ₅₀ / square foot of unit envelope	20	20	test results
test result ≤0.25 cfm ₅₀ / square foot of unit envelope	25		test results
AIR SEALING SUBTOTAL			
REQUIRED INSULATION			
exterior walls & band joist R13	-	Y	
for fireplace chase(s) on exterior wall, insulate to Grade I based on RESNET standard (if insulation installed not Grade 1, interior chase air barrier required)	-	Y	
fireplace chases on exterior wall, insulate to Grade I based on RESNET standard	-	Y	
flat ceilings R30 (requires baffles and blocking in vented attics)	-	Y	
sloped ceilings R30 (as low as R19 w/ energy performance analysis)	-	Y	
cantilevered floors R30 (blocking between joists required)	-	Y	
framed floors defining building envelope R19 w/ insulation in contact w/ subfloor	-	Y	
foundation walls R5 continuous or R13 cavity	-	Y	
attic kneewalls R18 and attic side air barrier	-	Y	
insulated sheathing R 2.5 or greater on metal-framed exterior walls (thermal break)	-	Y	
loose-fill attic insulation card and rulers	-	Y	
ADDITIONAL INSULATION			
insulation installation quality Grade II based on RESNET standard	2	0	
insulation installation quality Grade I based on RESNET standard	4	0	
slab edge insulation R4	4	0	
bond break at breezeway and contiguous slab locations	2	0	
foundation walls insulated with continuous insulation	3	0	
spray applied wall insulation	5	0	
insulated wall stud cavities R15	1	1	
insulated headers	1	0	
alternative framing building corners to improve insulation coverage	1	0	
alternative framing for improved insulation coverage (T-walls)	1	1	
insulated wall sheathing R 2.5 or greater (min. 75%)	3	0	
insulated wall sheathing R 5 or greater (min. 75%)	4	0	
band joist insulated R19	1	1	
band joist insulated with spray applied insulation	3	0	
attic insulation extended over wall cavity (energy heel trusses/raised top plate)	2	0	
flat ceilings R38 (requires baffles and blocking in vented attics)	2	0	
vaulted and tray ceilings R30	2	0	
ICF or SIP complete building envelope walls (R13 minimum)	2	0	
2x6 attic kneewalls with R19 cavity insulation & R3 insulating sheathing	3	0	
2x4 attic kneewalls with R13 cavity insulation & R5 insulating sheathing	2	0	
complete roofline spray foam insulation or SIP roof w/ air barrier (min R19)	2	0	see addendum
INSULATION SUBTOTAL			
WINDOWS			
REQUIRED: Maximum window U-factor 0.65, SHGC 0.40	-	Y	
REQUIRED: window is NFRC certified with label	-	Y	window label
window and glass door U-factor <0.40	4	0	window label
window and glass door U-factor <0.35	6	6	window label

	POINTS	SCORE	DOCUMENTATION
window and glass door SHGC <0.40	4		window label
window and glass door SHGC <0.35	6	5	window label
1.5-foot overhangs over 80% of windows (max 2 feet above windows)	1	0	
solar shade screens (min all east and west windows)	3	0	
west facing glazing less than 2% of floor area of impacted units	2	0	
east facing glazing less than 3% of floor area of impacted units	2	0	
certified passive solar design (25% load reduction)	10	0	computer print-out
WINDOWS SUBTOTAL	30	11	
ROOF			
ENERGY STAR roof over 75% of roof area	5	0	computer print-out
attic side radiant barrier	2	0	computer print-out
light colored roof tile or metal (ex. White TPO)	3	3	computer print-out
ROOF SUBTOTAL	10	3	
HEATING AND COOLING EQUIPMENT			
REQUIRED: Manual J calculation for sizing heating and cooling equipment based on actual house orientation	-	Y	load calc
REQUIRED: Installed cooling equipment and/or heat pump oversized by no more than 15% of "Manual J" (all units)	-	Y	load calc + eqmt size
REQUIRED: adaptive recovery for programmable thermostat(s) when programmable thermostat(s) is used with heat pump(s)	-	Y	product literature
REQUIRED : indoor and outdoors coils ARI performance matched	-	Y	load calc + eqmt size
REQUIRED: No electric resistance heat as primary heat source for any portion of conditioned space	-	Y	
REQUIRED: All combustion equipment must be either sealed combustion or isolated from conditioned space	-	Y	
installed heating equipment within 25 % of Manual J (all units)	2	2	load calc + eqmt size
90% AFUE furnaces / 8.2 HSPF heat pumps	3	0	energy guide label
SEER 14 cooling equipment	3	3	energy guide label
SEER 16 cooling equipment	4	0	energy guide label
dual-stage compressor cooling equipment	3	0	
geothermal heat pump	8	0	
programmable thermostat (all systems)	1	1	
outdoor thermostat for heat pumps	1	0	
cooling equipment has non-CFC and non-HCFC refrigerant	4	0	product literature
zone control with wired dampers - one system services multiple zones	3	0	
HEATING AND COOLING SUBTOTAL	29	6	
DUCTWORK / AIR HANDLER			
REQUIRED: air handlers & duct systems sealed with mastic or mastic tape	-	Y	
REQUIRED: code approved solid connector for all flex to flex connections	-	Y	
REQUIRED: all supply ducts ducted with code approved materials	-	Y	
REQUIRED: R8 duct insulation around all ducts outside conditioned space	-	Y	
all ducts located within conditioned space	5	5	
duct design complies with Manual D on a room-by-room basis	5	4	
all supply duct take-offs spaced 6" apart (no ducts from cap)	3	2	
no duct take-offs within 6" of supply plenum or trunk cap	1	1	
rigid ductwork or all flex duct pulled tight with no pinches	2	2	
no ducts in exterior walls or vaulted ceilings	1	1	
rigid metal supply trunk, all units	3	3	
multiple return ducts or transfer grills (min 1 in each bedroom)	4	0	
interior doors with 1 inch clearance to finish floor	1	0	
no open return systems, all units	5	0	
DUCT BLASTER TEST--minimum testing of 50% of all units with ductwork outside conditioned space, 100% units with air handlers outside of conditioned space			
REQUIRED: Duct blaster test result <6% of floor area served	-	Y	test results
leakage to outside building envelope <4% on average	5	0	test results
leakage to outside building envelope <3% on average	10	10	test results
total duct leakage <7% on average	5	5	test results
DUCTWORK / AIR HANDLER SUBTOTAL	45	33	
ENERGY EFFICIENT LIGHTING/APPLIANCES			
REQUIRED: heat traps on all water heaters	-	Y	
ENERGY STAR advanced Lighting Package	2		
indoor fluorescent fixtures with integrated ballast (min 10 watts/100 sq ft of cond space)	2		
screw in compact fluorescent bulbs (min 90% of bulbs) or LED bulbs (min 50% of bulbs)	2	2	
all recessed light fixtures are ballasted compact fluorescent or LED	2	0	
automatic outdoor lighting controls (e.g. motion sensor or photo cell)	2	2	
high efficiency parking area lighting	2	2	product literature

	POINTS	SCORE	DOCUMENTATION
high efficiency exterior/common area lighting	2	2	product literature
high efficiency water heater (min Energy Factor: gas 0.59 electric 0.92)	1	0	energy guide label
high efficiency water heater (min Energy Factor: gas 0.61 electric 0.93)	2	0	energy guide label
tankless gas water heater (min Energy Factor: .80)	4	4	
water heater tank insulation	1	0	
solar domestic water heating	10	0	
heat pump water heater	4	0	
ENERGY STAR dishwasher	1	1	product label
ENERGY STAR refrigerator	2	2	product label
5 or more ENERGY STAR bath fans, light fixtures, ceiling fans with light fixtures, appliances (excluding dishwasher and refrigerator)	3	3	
ENERGY EFFICIENT LIGHTING / APPLIANCES SUBTOTAL	31	18	
ENERGY EFFICIENT BUILDING TOTAL*	230	99	
<i>*Builder must earn a minimum of 80 pts. No more than 90 pts. can be applied to the total score.</i>			
RESOURCE EFFICIENT DESIGN			
avg. floor area of units <900 square feet	2	0	
avg. floor area of units 900-1200 square feet	1	1	
outside dimensions of floor plan adheres to 2-ft dimensions	2	0	
floor joists @ 24-in. centers (all floors)	5	0	
floor joists @ 19.2-in. centers (all floors)	3	3	
non-load bearing wall studs @ 24-in. centers	3	0	
non-structural headers in non-load bearing walls	3	2	
2-stud corners with drywall clips or alternative framing	3	0	
T-walls with dry wall clips or alternative framing	3	3	
job site framing plan with locations of studs, joists, and roof structure with cut list	5	5	frame plan + cut list
RESOURCE EFFICIENT DESIGN TOTAL	30	14	
RESOURCE EFFICIENT BUILDING MATERIALS			
RECYCLED AND NATURAL CONTENT MATERIALS			
sustainably harvested lumber (50%)	3	0	
25% of cement in concrete replaced with fly ash or slag	2	2	content print-out
exterior cladding with 25% post industrial recycled content	3	0	
recycled concrete used as aggregate	1	0	letter
insulation (min 25% recycled)	1	0	product literature
reclaimed wood flooring	2	0	letter
recycled content tiles (min 30% recycled)	2	0	product literature
cork or bamboo flooring (min 10% of total floor area)	2	0	
carpet (min 50% recycled)	2	0	product literature
biodegradable carpet and backing (wool, hemp, etc.)	2	0	product literature
outdoor decking and porches (min 40% recycled content)	3	0	product literature
natural linoleum in kitchens and bathrooms	2	0	product literature
composite roofing shingle with recycled content (min. 25%)	2	0	
air conditioner condensing unit pad (min 50% recycled content)	1	1	
RECYCLED AND NATURAL CONTENT MATERIALS SUBTOTAL	28	3	
ADVANCED PRODUCTS			
OSB roof decking	1	2	
outdoor structures made from materials with recycled content	2	2	
all beams are steel, engineered wood, or trusses	1	1	
all headers are steel or engineered wood	1	0	
engineered wall framing (50% of studs)	1	0	
engineered wall framing (80% of studs)	2	2	
panelized wall construction delivered to the job site pre-framed	2	2	
interior trim finger jointed or MDF, HDF or PVC	1	0	
engineered exterior trim including soffit, fascia, and trim	1	1	
steel interior wall framing (with insulated sheathing to provide thermal break)	1	0	
Structural Insulated Panels (exterior walls)	3	0	
Structural Insulated Panels (roof)	3	0	
Precast Autoclaved Aerated Concrete	3	0	
Insulated Concrete Forms for foundation walls	3	0	
Insulated Concrete Forms for exterior walls	3	0	
ADVANCED PRODUCTS SUBTOTAL	28	10	
DURABILITY			
REQUIRED: flashing at wall/roof intersection integrated with wall and roof drainage planes	-	Y	
REQUIRED: flashing at deck/wall or porch/wall intersection integrated with drainage planes	-	Y	
REQUIRED: maintain 2" clearance between wall siding and roof surface (or per product manufacturer installation specification)	-	Y	

	POINTS	SCORE	DOCUMENTATION
REQUIRED: for roofs that slope along an adjoining wall surface, kick-out flashing is installed	-	Y	
REQUIRED: all roof valleys direct water away from walls, dormers, chimneys, etc.	-	Y	
REQUIRED: double layer of builder paper or housewrap behind cementitious stucco or stone veneer or synthetic stone veneer (no drainage cavity necessary) on framed walls	-	Y	
REQUIRED: framed walls covered with drainage plane (drainage membrane, builder paper, housewrap or XPS foam)	-	Y	
roofing (min 30-year warranty)	1	0	warranty
roofing (min 40-year warranty)	2	2	warranty
roofing (min 50-year warranty)	3	0	warranty
roof drip edge with minimum 1/4" overhang	1	1	
freeze prevention for all water pipes	3	3	
exterior cladding (min 3 sides with 40-year warranty or masonry)	1	1	
drainage plane installed with all seams and edges sealed per manufacturer's recommendation	1	1	
siding with vented rain screen	2	0	
back-primed siding and trim	2	0	
10 year warranty on all insulated glazing	1	1	warranty
windows with minimum 25 year warranty	1		
window and door pan & sill flashing integrated with drainage plane	2	2	
window and door head flashing integrated with drainage plane	2	2	
continuous foundation termite flashing	1	0	
roof gutters that discharge water 5 feet away from foundation or other drainage system meeting same intent	1	1	
covered entryways (all doors)	2	0	
paperless drywall in kitchens, baths and foundation walls	2	0	
non-toxic pest treatment of all lumber in contact with foundation	1	0	product literature
non-toxic pest treatment applied to all lumber	1	0	product literature
non-toxic mold inhibitor with warranty applied to lumber	1	0	warranty
plants installed to maintain minimum 2 foot distance from building at plant maturity	2	0	
outdoor deck material (min 25-year warranty)	1	1	warranty
DURABILITY SUBTOTAL	34	15	
RESOURCE EFFICIENT BUILDING MATERIALS TOTAL	120	42	
WASTE MANAGEMENT			
WASTE MANAGEMENT PRACTICES			
REQUIRED: No construction materials shall be burned or buried on job site or anywhere but in a state-approved landfill.	-	Y	
central cut area	3	0	
in-fill building deconstruction with minimum 25% material re-use	2	0	letter
donation of excess materials or re-use (min \$5000/job)	1	0	letter
WASTE MANAGEMENT PRACTICES SUBTOTAL	6		
RECYCLE CONSTRUCTION WASTE			
posted and enforced job site waste management plan -recycle 75% of 3 materials	8	8	management plan
divert 75% of wood	4	0	management plan
divert 75% of cardboard	2	0	management plan
divert 75% of metal	2	0	management plan
divert 75% of drywall (recycle or grind and spread on site)	4	0	management plan
divert 75% of plastics	2	0	management plan
divert 75% of shingles	2	0	management plan
RECYCLE CONSTRUCTION WASTE SUBTOTAL	24	8	
WASTE MANAGEMENT TOTAL	30	8	
INDOOR AIR QUALITY			
COMBUSTION SAFETY			
REQUIRED: No unvented combustion fireplaces or space heaters.	-	Y	
REQUIRED: No duct runs from house system serving garage	-	Y	
REQUIRED: All combustion equipment must be either sealed combustion or isolated from conditioned space	-	Y	
REQUIRED: Gas fired ranges must be vented to the exterior	-	Y	
ENERGY STAR Indoor Air Package	4	0	EPA certification
direct vent, sealed combustion fireplace (all units)	3	0	
all fireplaces have outside combustion air supplied to them	2	0	
sealed combustion furnace or furnace isolated from conditioned space (all units)	4	0	
direct vent water heater or water heater isolated from conditioned space (all)	2	0	
carbon monoxide detector (one per unit required)	1	0	
carbon monoxide detector hard wired with battery backup (one per unit required)	3		
worst case backdraft depressurization test	4	0	test results
COMBUSTION SAFETY SUBTOTAL	23		

	POINTS	SCORE	DOCUMENTATION
MOISTURE CONTROL			
REQUIRED: gravel bed beneath subgrade slab	-	Y	
plastic as footing wrap or capillary break between footing and foundation	2	0	
variable speed blower	2	0	
humidistat or thermidistat used with variable speed cooling system	2	0	
foundation drain on top of footing	1	1	
foundation drain at outside perimeter edge of footing	2	2	
plastic as footing wrap or capillary break between footing and foundation	2	0	
drainage board for below grade walls	4		
roof gutters that discharge water 5 feet away from foundation or other drainage system meeting same intent	1	1	
gravel bed beneath on grade slab or raised slab	2	2	
vapor barrier beneath slab (above gravel) and in crawl space	1	1	
vapor barrier is 10 mil or thicker or reinforced	1	0	
100% coverage of vapor barrier in crawl space all seams sealed to piers, walls	2	0	
condensation prevention for cold water pipes	2	0	
roofing completion and penetration plan posted and enforced	2	2	approved plan
capillary break between foundation and framing	1	1	
MOISTURE CONTROL SUBTOTAL	27	10	
VENTILATION			
REQUIRED: bath/shower exhaust fans and clothes dryers ducted to outside	-	Y	
REQUIRED: outside air intake with mechanical damper (10 cfm/person or ASHRAE 62.2)	-	Y	
REQUIRED: locate all air intakes >10' away from exhaust outlets and vehicle idling zones	-	Y	
REQUIRED: bath/shower exhaust ducts sealed with mastic or mastic tape	-	Y	
install air cycler control w/ multiple settings on outside air intake	3	0	
passive radon/soil gas vent system (labeling of vent required)	4	0	
radon test of each building prior to occupancy	2	2	test results
ENERGY STAR bath fans (all units)	3	3	product literature
exhaust fan wired with light in bathrooms	1	0	
automatic tub/shower room fan controls (e.g. timer or humidistat)	2	0	
kitchen range hood or downdraft vented to exterior	3	0	
third-party testing of exhaust air flow rate (min 5% of units)	1	0	
ceiling fans (minimum 1/bedroom and living room)	1	0	
vented storage room outside the building envelope	1	0	
outside air intake tied directly into return plenum, before filter	2	3	
outside air intake with ventilation timer and shutoff damper	3	0	
energy recovery ventilator	4	0	
energy recovery ventilator with closed return system	7	0	
no power roof vents	1	1	
VENTILATION SUBTOTAL	38	9	
INDOOR POLLUTANT CONTROL			
REQUIRED: ducts in floor protected until floor finishing	-	Y	
ducts in ceiling and air handling equipment protected until floor finishing	2	2	
all insulation urea-formaldehyde free	1	1	product literature
subfloor urea-formaldehyde free (e.g., Advantek Subfloor)	1	1	product literature
all cabinets, shelves, and countertops urea formaldehyde free	3	3	product literature
all surfaces of particle board sealed with water-based sealant	1	0	
low VOC paints (less than 150 g/L)	3	3	
reduced VOC stains and finishes on wood floors	1	0	product literature
low VOC sealants and adhesives (less than 250 g/L)	1	1	product literature
no carpet in units	3	0	product literature
low VOC carpet certified by the Carpet & Rug Institute Green Label	1	1	product literature
low VOC carpet certified by the Carpet & Rug Institute Green Label Plus	2	0	product literature
low VOC carpet pad certified by the Carpet & Rug Institute Green Label	1	0	
low VOC carpet pad adhesive certified by the Carpet & Rug Institute Green Label Plus	1	0	
permanent walk off mats installed at each main building entrance	2	2	
alternative termite treatment with no soil pretreatment unless required by code	2	0	borje (not soil)
alternative pest control	2	0	
provide rodent and corrosion proof screens for all openings not fully sealed or caulked	1	1	
filter / air cleaner MERV 8 or better (e.g. pleated filter)	1	0	
2" pleated filter or thicker	2	0	
INDOOR POLLUTANT CONTROL SUBTOTAL	31	15	
INDOOR AIR QUALITY TOTAL	119	34	

	POINTS	SCORE	DOCUMENTATION
WATER CONSERVATION			
INDOOR USE			
REQUIRED: All fixtures must meet National Energy Policy Act low flow standards	-	Y	
all units sub-metered	5	5	
water filter (NSF certified, minimum 85% efficient)	1	0	product literature
front loading clothes washer with a water factor ≤6.0 gals per cf of capacity	2	2	
faucets with tamper-resistant strainer or flow control within fixture	1	0	product literature
low-flow lavatory faucet (max 2.0 gal/min)	2	0	
Water Sense labeled lavatory faucets (max 1.5 gal/min)	3	3	
low-flow showerheads (max 2.25 gal/min)	2	2	product literature
high efficiency shower head (max 1.75 gal/min)	3	0	
low-flush toilets (max 1.45 gal/min) or dual flush toilets	2	0	product literature
Water Sense labeled toilet or equivalent (max 1.28 gal/flush)	3	3	
hot water demand re-circulation (not continuous circulation) with a maximum of 0.13 gal of water between the loop and any plumbing fixture	2	0	product literature
manifold or core plumbing system with a maximum of 0.38 gal of water between hot water source and plumbing fixtures	3	0	test results
INDOOR USE SUBTOTAL	29	15	
OUTDOOR USE			
REQUIRED: if installed irrigation system must have rain sensor shutoff switch	-	Y	product literature
xeriscape™ landscape with maintenance plan provided to management or home owner association	4	0	resource
soil tested and amended	4	0	test results
non-turf, non-hardscapes covered with at least 2 inch layer of mulch	1	0	test results
drought-tolerant landscaping plants--minimum 85% of plantings	3	3	landscape plan
use no invasive plant species, as identified by local Agricultural Cooperative Extension Service	1	1	resource
reduced sod area (less than planted and bed areas)	5	0	
shade at least 50% of hardscape within 50 feet of home	1	0	
weather station or soil moisture sensor on irrigation system	2	0	
irrigation system zoned for specific water needs in each planting area	1	0	
sprinkler heads with 4 inch or greater pop-up height, matched precipitation nozzles, and check valves	1	0	
microirrigation system (e.g., drip irrigation) with pressure regulator, filter, and flush end assemblies	3	0	
no irrigation system and xeriscape™ guidebook given to management or HOA	3	0	
greywater irrigation	5	0	
rainwater harvest system	5	0	
permeable materials in 50% or more of walkways	3	0	
water-permeable materials in 50% or more of parking areas	5	0	
timer on exterior water spigots	1	0	
OUTDOOR USE SUBTOTAL	48	4	
WATER CONSERVATION TOTAL	77	19	
RESIDENT EDUCATION			
guaranteed energy bills	10	0	energy bill guarantee
review energy operations with homeowner/occupant	2	2	
built-in recycling center (unit)	2	0	
local recycling contact	1	1	
household hazardous waste resources	1	1	
environmental features checklist for walk through	3	3	
label all storm drain or storm inlets to discourage dumping of pollutants	2	0	
RESIDENT EDUCATION TOTAL	21	7	
BUILDER/MANAGEMENT OPERATIONS			
environmentally friendly cleaning package	2	0	product literature
markets EarthCraft program	2	0	
environmental checklist provided to all subcontractors	1	0	
approved construction materials order and storage management plan	5	0	approved plan
BUILDER OPERATIONS TOTAL	10		

	POINTS	SCORE	DOCUMENTATION
BONUS POINTS			
solar electric system providing 10% of project requirements	25	0	
alternative fuel vehicles: electric charging station	4	0	
green roof system installed minimum 30% of total roof area of development	4	0	
solar ready buildings	5	0	
use building materials extracted, processed and manufactured within 500 miles of site (0.5 pts each, max 5 pts)	0.5 per item	1	list of products and manufacturer
USGBC LEED for Homes or Mid-rise residential certification	2	0	
Easy Living accessibility / visitability certification	2	0	
handicapped visitability at least 50% more than code minimum	3	0	
Building America Builders Challenge (HERS Index ≤70)	1	0	
housing affordability -- 5%	3	0	
housing affordability --10%	5	5	
common areas use alternative energy (solar pool heater or solar lighting)	5	0	
exceeds ENERGY STAR or 15% goal (1 point for each 5%)		0	
Innovation points - Builder submits specifications for innovative products or design features to qualify for additional points		0	
BONUS POINTS TOTAL	59	6	
TOTAL NUMBER OF POINTS AVAILABLE UNDER PROGRAM			
		774	
		MIN	
EARTHCRAFT MULTIFAMILY TOTALS			
SITE PLANNING	0	32	
ENERGY EFFICIENT BUILDING ENVELOPE AND SYSTEMS	80	90	(Max 90)
RESOURCE EFFICIENT DESIGN	0	14	
RESOURCE EFFICIENT BUILDING MATERIALS	0	42	
WASTE MANAGEMENT	0	8	
INDOOR AIR QUALITY	0	34	
WATER CONSERVATION	0	19	
RESIDENT EDUCATION	0	7	
BUILDER OPERATIONS	0		
BONUS POINTS	0	6	
GRAND TOTAL	200	252	