



# EarthCraft House™

*Sensibly Built for the Environment*

## MIXED HUMID CLIMATE WORKSHEET

IECC 2004 Climate Zone 3

A worksheet must be submitted to EarthCraft House for each home to be certified. An EarthCraft House certification requires a minimum of 150 points for Tier I certification. In addition to having a completed worksheet, each home must also have appropriate documentation, ENERGY STAR certification, and a Final Inspection by an EarthCraft House Inspector. Point requirements for all Sections and Tiers are listed on Page 9.

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

Mail: EarthCraft House  
241 Pine St. NE  
Atlanta, GA 30308  
Fax: 404-872-5009  
Email: worksheets@earthcrafthouse.com

**Builder Group:** \_\_\_\_\_  
**Contact Person:** \_\_\_\_\_  
**Phone:** \_\_\_\_\_  
**Fax:** \_\_\_\_\_  
**Email:** \_\_\_\_\_

**House Address:** \_\_\_\_\_  
**Lot #:** \_\_\_\_\_  
**Community:** \_\_\_\_\_

**Builder** - By accepting the EarthCraft House certification, I pledge that this house has been constructed to the standards listed on this Scoring Worksheet.

\_\_\_\_\_  
Builder Signature date

**Home Buyer** - I have reviewed the EarthCraft House measures with the homebuilder or sales agent.

\_\_\_\_\_  
Home Buyer Signature (required only for pre-sales) date

**EarthCraft House Inspector**

\_\_\_\_\_  
Inspector Signature date

**Worksheet Score**

	Points	SCORE	DOCUMENTATION
<b>SITE PLANNING</b>			
REQUIRED: Must comply with all federal, state, and local government erosion control and tree protection measures.	-		
erosion control site plan <i>(required tiers II &amp; III)</i>	1		site plan
workshop on erosion and sediment control	1		certificate
excavated topsoil protected from erosion	5		
use of redundant mulch, compost, or straw bales for erosion control	3		
permanent storm water control	2		site plan
grind stumps and limbs for mulch	2		
mill cleared logs	2		
tree preservation plan	3		tree plan
tree planting (min 12 trees per acre of developed land; min 2" caliper)	4		
protected tree save area	2		site plan
utilities in tree root zones tunneled or hand dug (1 point per tree, max 5 trees)	1 per tree		
individual trees fenced at drip line (1 point per tree, max 5 trees)	1 per tree		
registered Building <i>With</i> Trees (NAHB Program) development	5		confirmation letter
protected green space (min 25% of lot or 40% of development)	1		site plan
protected green space (min 40% of lot or 60% of development)	2		site plan
certified wildlife habitat (development or lot) <i>(required tier III)</i>	2		certificate
lot size ≤ 1/5 acre	1		site plan
lot size ≤ 1/10 acre	3		site plan
lot size ≤ 1/15 acre	5		site plan
<b>SITE PLANNING TOTAL</b>			
<b>Builder must earn a minimum for: tier I - 4 pts., tier II - 6 pts., tier III - 8 pts.</b>			
<b>ENERGY EFFICIENT BUILDING ENVELOPE AND SYSTEMS</b>			
REQUIRED: ENERGY STAR HOME CERTIFICATION. Note: Homes with all items marked ★ will likely qualify as ENERGY STAR Homes using a Builder Option Package. See <a href="http://www.energystar.gov">www.energystar.gov</a> .			
<b>REQUIRED AIR SEALING MEASURES</b>			
penetrations through top and bottom plate sealed	-		
bottom plate sealed to floor or foundation	-		
penetrations through insulated subfloor sealed	-		
seal all HVAC boots to subfloor or drywall	-		
shower and tub drains sealed	-		
★ cantilevered floor sealed above supporting wall	-		
window and door rough openings sealed	-		
gaps in exterior wall sheathing sealed	-		
sheathing penetrations sealed (including exterior light fixtures)	-		
exterior walls of fireplace chase sealed	-		
penetrations through drywall in attached garage sealed	-		
★ air barrier installed behind tubs and showers on insulated walls	-		
no polyethylene shall be used on exterior walls or foundation walls	-		
penetrations through band sealed (including bathroom exhaust fan)	-		
★ all recessed can lights in insulated ceilings must be airtight and IC-rated	-		
★ penetrations through insulated ceiling sealed (including HVAC boots)	-		
attic pull-down stairs, scuttle hole, & kneewall doors sealed at rough opening	-		
★ attic kneewall doors & scuttle holes weather-stripped	-		
★ chases sealed and insulated	-		
stud cavities blocked at change in ceiling height	-		
★ attic kneewall has sealed attic-side, rigid sheathing	-		
★ joist cavities under attic kneewall blocked	-		
<b>ADDITIONAL AIR SEALING MEASURES</b>			
drywall penetrations in insulated walls sealed	1		
all chases in contact with building envelope have air barrier applied to the interior of the chase where it meets the building envelope <i>(required tier III)</i>	1		
seams in band joist between conditioned floors sealed	2		
ceiling drywall sealed to top plate <i>(required tier III)</i>	2		
attic pull-down stairs with sealed attic-side cover or attic access outside of building envelope <i>(required tier III)</i>	2		
if vaulted ceiling, blocking installed with baffles to prevent air washing through insulation or use foam insulation	4		
<b>BLOWER DOOR TEST</b>			
REQUIRED: Blower door test result <0.50 cfm <sub>50</sub> / square foot of building envelope	-		test results
test result <0.4 cfm <sub>50</sub> / square foot of building envelope <i>(required tiers II &amp; III)</i>	25		test results
★ test result <0.25 cfm <sub>50</sub> / square foot of building envelope (fresh air ventilation required)	35		test results
<b>AIR SEALING SUBTOTAL</b>			

	Points	SCORE	DOCUMENTATION
<b>REQUIRED INSULATION</b>			
★ foundation walls R5 continuous or R13 cavity (if basement/crawl is inside building envelope)	-		
★ framed floors R19 (if basement/crawl is outside building envelope) with insulation in contact with subfloor	-		
★ cantilevered floors R19 (blocking between joists required)	-		
★ exterior walls & band joist R13	-		
★ insulate and sheath fireplace chase if on exterior wall to Grade I based on RESNET standard (or solid air barrier on interior of fireplace chase)	-		
★ flat ceilings R30 (requires baffles and blocking in vented attics)	-		
sloped ceilings R19	-		
★ attic kneewalls R19 insulation & attic side air barrier	-		
★ attic pull-down or scuttle hole R5 (compressed batt not acceptable)	-		
<b>ADDITIONAL INSULATION</b>			
insulation installation quality Grade II based on RESNET standard <i>(required tier II)</i>	1		
★ insulation installation quality Grade I based on RESNET standard <i>(required tier III)</i>	5		
slab insulation R4	3		
foundation walls insulated instead of floor over basement (no paper faced batts)	5		
foundation walls insulated with continuous insulation <i>(required tier III)</i>	2		
sealed, insulated crawl space walls R8	4		
install a minimum of R-3 continuous insulation on underside of framed floors over unconditioned spaces	2		
no fireplaces on exterior walls	1		
solid air barrier on interior of fireplace chase <i>(required tier III)</i>	1		
cantilevered floors R30 (blocking between joists required)	1		
band joist insulated R19	2		
spray applied wall insulation	5		
insulated wall stud cavities R15	1		
wall insulation without vapor retarder	1		
insulated headers	1		
insulated corners	1		
insulated T-walls (exterior/interior wall intersection)	1		
insulated wall sheathing R 3 or greater (min. 75%)	2		
insulated wall sheathing R 5 or greater (min. 75%)	3		
insulated wall sheathing R 3 or greater 100%	4		
insulated wall sheathing R 5 or greater 100%	5		
ICF or SIP for complete building envelope walls (minimum R13)	2		
loose-fill attic insulation card and rulers	1		
energy heel trusses or raised top plate	2		
flat ceilings R38 (requires baffles and blocking in vented attics) or R20 spray foam along roofline <i>(required tier III)</i>	2		
vaulted and tray ceilings R25 <i>(required tier III)</i>	1		
★ vaulted and tray ceilings R30	2		
attic radiant barrier	2		
attic kneewall doors R8 <i>(required tiers II &amp; III)</i>	2		
attic pull-down or scuttle hole R19 (compressed batt not acceptable)	3		
2x6 attic kneewalls with R19 cavity insulation & R3 insulating sheathing (U=0.051) <i>(required tier III)</i>	3		
2x4 attic kneewalls with R13 cavity insulation & R5 insulating sheathing (U=0.058) <i>(required tier III)</i>	3		
complete roofline spray foam insulation or SIP roof with code-approved air barrier (minimum R19)	2		
<b>INSULATION SUBTOTAL</b>			
<b>WINDOWS</b>			
REQUIRED: Maximum window U-factor 0.65	-		window label
windows are NFRC certified with label (0.75% WFA exemption) <i>(required tiers II &amp; III)</i>	1		window label
★ window U-factor <0.40 <i>(required tiers II &amp; III)</i>	3		window label
window U-factor <0.35	4		window label
skylight and glass door U-factor <0.40	1		window label
★ window, skylight and glass door SHGC <0.40 <i>(required tiers II &amp; III)</i>	3		window label
window, skylight and glass door SHGC <0.35	5		window label
1.5-foot overhangs over 80% of windows (max 2 feet above windows)	1		
solar shade screens (min all east and west windows)	3		
west facing glazing less than 2% of floor area	2		house plan
east facing glazing less than 3% of floor area	2		house plan
certified passive solar design (25% load reduction)	10		computer print-out
<b>WINDOWS SUBTOTAL</b>			
<b>ROOF</b>			
ENERGY STAR roof over minimum 75% of total roof area	3		label
<b>ROOF SUBTOTAL</b>			

	Points	SCORE	DOCUMENTATION
<b>HEATING AND COOLING EQUIPMENT</b>			
★ REQUIRED: Manual J calculation for sizing heating and cooling equipment	-		load calc
REQUIRED: No electric resistance heat as primary heat source for any portion of conditioned space	-		
★ REQUIRED: Manual J calculation based on actual house orientation	-		load calc
★ REQUIRED: Installed cooling equipment oversized by no more than 15% of Manual J (all units)	-		load calc + eqmt size
★ REQUIRED: adaptive recovery for programmable thermostat(s) when programmable thermostat(s) is used with heat pump(s)	-		product literature
installed heating equipment within 25% of Manual J (all units)	2		load calc + eqmt size
★ 90% AFUE furnaces / 8.2 HSPF heat pumps (required tiers II & III)	6		energy guide label
meets sensible and latent heat loads (all air conditioners)	2		spec sheet
★ SEER 14 cooling equipment (required tier III)	4		energy guide label
SEER 16 cooling equipment	6		energy guide label
dual-stage compressor cooling equipment	3		
variable speed blower	2		
geothermal heat pump	8		
★ ENERGY STAR certified programmable thermostat (all systems) (required tier III)	1		product literature
outdoor thermostat for heat pump	1		product literature
cooling equipment has non-CFC and non-HCFC refrigerant (e.g. R-410A)	3		product literature
zone control - one system serves multiple zones	3		
if zoned control, zoned returns or transfer grills between zones (required tier III)	1		
verification of proper refrigerant charge (required tier III)	5		test results
<b>HEATING AND COOLING SUBTOTAL</b>			
<b>DUCTWORK / AIR HANDLER</b>			
REQUIRED: air handlers & duct systems sealed with mastic or mastic tape	-		
REQUIRED: code approved solid connector for all flex to flex connections cavities)	-		
★ REQUIRED: minimum R6 insulation around ducts in unconditioned space	-		
all return ducts fully ducted with code approved materials (no panned joists) (required tiers II & III)	1		
air handler located within conditioned space (all units)	5		
ducts located within conditioned space (min 90%)	5		
installed duct design complies with Manual D on a room-by-room basis	5		sizing calculation
return plenum duct take-off free area is 120% of supply plenum duct take-off free area (requirement waived if installed per Manual D) (required tier III)	3		
all supply duct take-offs spaced at least 6" apart (no ducts from cap) (required tier III)	2		
no duct take-offs within 6" of supply plenum cap (required tier III)	1		
rigid ductwork or all flex duct pulled tight with no pinches (required tier III)	1		
no ducts in exterior walls or vaulted ceilings along rooflines (required tiers II & III)	1		
rigid supply trunk	3		
airflow for each duct run measured and balanced to within 15 cfm of design value (required tier III)	4		test results
multiple return ducts (min 1 in each bedroom) or transfer grills (required tiers II & III)	2		
interior doors with 1 inch clearance to finish floor	1		
duct trunk lines outside conditioned space insulated to R8	2		
<b>DUCTWORK / AIR HANDLER SUBTOTAL</b>			
<b>DUCT BLASTER TEST</b>			
REQUIRED: If air handler and ductwork are in conditioned space and <90% accessible, total leakage <15% of floor area served or duct flows within 10% of Manual D design at each register	-		test results
REQUIRED: Duct blaster test result <6% of floor area served leakage to outside	-		test results
Duct blaster test result <5% of floor area served leakage to outside (required tier II)	20		test results
★ Duct blaster result <4% of floor area served leakage to outside (required tier III)	25		test results
<b>DUCT BLASTER TEST SUBTOTAL</b>			
<b>WATER HEATER</b>			
shower drain heat recovery device	2		
high efficiency water heater (min Energy Factor: gas 0.59 electric 0.92) (required tier III)	1		energy guide label
★ high efficiency water heater (min Energy Factor: gas 0.61 electric 0.93)	2		energy guide label
tankless gas water heater	2		
water heater tank insulation	1		
heat trap on water heater and pipe insulation on first two feet of pipe (required tiers II & III)	1		
heat recovery water heating	1		
solar domestic water heating (min 40% of annual load)	10		
heat pump water heater	4		
all hot water fixtures have less than 20 ft of pipe connecting them to water heater	2		
<b>WATER HEATER SUBTOTAL</b>			

	Points	SCORE	DOCUMENTATION
<b>ENERGY EFFICIENT LIGHTING / APPLIANCES</b>			
light tubes, cupola, or clerestory for daylighting	2		
ENERGY STAR Advanced Lighting Package	4		(required tier III)
indoor fluorescent fixtures with integrated ballast (min 300 watts)	2		(required tiers II & III)
all recessed light fixtures are ballasted compact fluorescents	2		
screw-in compact fluorescent bulbs (min 90% of bulbs)	2		
★ 5 or more ENERGY STAR bath fans, light fixtures, ceiling fans with light fixtures, appliances (excluding dishwasher and refrigerator)	3		product literature
automatic outdoor lighting controls (e.g. motion sensor)	2		
high efficiency exterior lighting	2		product literature
ENERGY STAR dishwasher	1		(required tiers II & III) product label
ENERGY STAR refrigerator	2		product label
ENERGY STAR clothes washer	1		product label
<b>ENERGY EFFICIENT LIGHTING / APPLIANCES TOTAL</b>			
<b>ENERGY EFFICIENT BUILDING TOTAL</b>			
<b>Builder must earn for: tier 1 min 80 pts. max 90 pts., tier 2 min 90 pts. max 100 pts., tier 3 min 100 pts. max 110 pts.</b>			
<b>RESOURCE EFFICIENT DESIGN</b>			
total floor area of house <1800 square feet	6		
total floor area of house 1800-2100 square feet	4		
total floor area of house 2100-2500 square feet	2		
outside dimensions of floor plan adheres to 2-ft dimensions	2		
floor joists @ 24-in. centers (all floors)	5		
floor joists @ 19.2-in. centers (all floors)	3		
non-load bearing wall studs @ 24-in. centers	2		
all wall studs @ 24-in. centers	3		
window rough openings eliminate jack stud	2		
non-structural headers in non-load bearing walls	2		
single top plate with stacked framing	3		
2-stud corners with drywall clips or alternative framing	3		
T-walls with drywall clips or alternative framing	3		
job site framing plan with cut list	1		(required tier III) frame plan + cut list
job site framing plan with locations of studs, joists, and roof structure with cut list	10		frame plan + cut list
<b>RESOURCE EFFICIENT DESIGN TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 2 pts., tier 2 - 3 pts., tier 3 - 4 pts.</b>			
<b>RESOURCE EFFICIENT BUILDING MATERIALS</b>			
<b>RECYCLED AND NATURAL CONTENT MATERIALS</b>			
sustainably harvested lumber (50%)	3		product literature
25% of cement in concrete replaced with fly ash or slag	3		content print-out
recycled concrete used as aggregate	1		letter
insulation (min 25% recycled)	1		product literature
reclaimed wood flooring	2		letter
recycled content tiles (min 30% recycled)	2		product literature
cork or bamboo flooring (min 10% of total floor area)	2		
carpet (min 50% recycled)	2		product literature
biodegradable carpet and backing (wool, hemp, etc.)	2		
outdoor decking and porches (min 40% recycled content)	3		product literature
air conditioner condensing unit pad (min 50% recycled content)	1		product literature
composite roofing shingle with recycled content (min 25% recycled)	2		product literature
cabinet faces are reused, MDF, local species, or FSC certified wood	2		product literature
<b>RECYCLED AND NATURAL CONTENT MATERIALS SUBTOTAL</b>			
<b>ADVANCED PRODUCTS</b>			
engineered floor framing (80%)	2		
use of open web trusses to run ductwork	2		
engineered roof framing	3		
all beams are steel, engineered wood, or trusses	1		
all structural headers are steel or engineered wood	1		
engineered wall framing (25% of studs)	1		
engineered wall framing (80% of studs)	2		
interior trim finger jointed, MDF, HDF or PVC	1		product literature
engineered exterior trim including soffit, fascia, and trim	1		
steel interior wall framing	1		
Precast Autoclaved Aerated Concrete	5		
Structural Insulated Panels (exterior walls)	2		
Structural Insulated Panels (roof)	2		
Insulated Concrete Forms for foundation walls	2		
Insulated Concrete Forms for exterior walls	2		
<b>ADVANCED PRODUCTS SUBTOTAL</b>			

	Points	SCORE	DOCUMENTATION
<b>DURABILITY</b>			
REQUIRED: flashing at wall/roof intersection integrated with wall and roof drainage planes	-		
REQUIRED: flashing at deck/wall or porch/wall intersection integrated with drainage planes	-		
REQUIRED: maintain 2" clearance between wall siding and roof surface	-		
REQUIRED: for roofs that slope along an adjoining wall surface, kick-out flashing is installed	-		
REQUIRED: all roof valleys direct water away from walls, dormers, chimneys, etc.	-		
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	-		
sealed crawlspace (unless house is in 100-year flood plain)	(required tiers II & III)	4	
roofing (min 30-year warranty)	1		warranty
roofing (min 40-year warranty)	2		warranty
roofing (min 50-year warranty)	3		warranty
roof drip edge	1		
exterior cladding (min 3 sides) with 40-year warranty or durable natural material	1		
framed walls covered with drainage plane (drainage membrane, builder paper, housewrap or XPS foam)	(required tiers II & III)	1	
drainage plane installed with all seams and edges sealed per manufacturer's recommendation	1		
siding with vented rain screen	2		
back-primed siding and trim (or vented rain screen behind siding)	(required tiers II & III)	1	
windows with minimum 25-year warranty	1		
10 year warranty on all insulated glazing	1		warranty
window and door pan & sill flashing integrated with drainage plane	(required tiers II & III)	2	
window and door head flashing integrated with drainage plane	(required tiers II & III)	3	
continuous foundation termite flashing	1		
intent	(required tier III)	1	
covered entryways (all doors)	2		
paperless drywall in kitchens, baths and foundation walls	(required tier III)	2	
non-toxic pest treatment of all lumber in contact with foundation	1		product literature
non-toxic pest treatment applied to all lumber	1		product literature
non-toxic mold inhibitor with warranty applied to lumber	1		warranty
outdoor deck material (min 25-year warranty)	1		warranty
<b>DURABILITY SUBTOTAL</b>			
<b>RESOURCE EFFICIENT BUILDING MATERIALS TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 6 pts., tier 2 - 12 pts., tier 3 - 16 pts.</b>			
<b>WASTE MANAGEMENT</b>			
Required: No construction materials shall be burned or buried on job site or anywhere but in a state-approved landfill.	-		
central cut area	(required tiers II & III)	3	
donation of excess materials or re-use (min \$500/job)	1		letter
in-fill building deconstruction with minimum 25% material re-use	2		
posted job site waste management plan - recycle 75% of 3 materials	5		management plan
divert 75% of wood	3		
divert 75% of cardboard	1		
divert 75% of metal	1		
divert 75% of drywall (recycle or grind and spread on site)	3		
divert 75% of plastics	1		
divert 75% of shingles	1		
<b>WASTE MANAGEMENT TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 3 pts., tier 2 - 4 pts., tier 3 - 6 pts.</b>			
<b>INDOOR AIR QUALITY</b>			
<b>COMBUSTION SAFETY</b>			
REQUIRED: No unvented combustion fireplaces or space heaters	-		
REQUIRED: No air handler equipment in garage or conditioned air supplied to garage	-		
REQUIRED: Sealed combustion furnace or furnace isolated from conditioned space (all units)	-		
REQUIRED: water heater in conditioned space is sealed combustion, power vent, direct vent or electric (no atmospherically vented water heaters in conditioned space)	-		
detached garage or no garage	5		
attached garage - exhaust fan controlled by motion sensor or timer	2		
all fireplaces have outside combustion air supplied to them	(required tiers II & III)	3	
direct vent, sealed combustion fireplace (all units)	3		
gas water heater direct vent or isolated from conditioned space (all)	2		
carbon monoxide detector (one per floor required)	4		
backdraft depressurization test	4		test results
<b>COMBUSTION SAFETY SUBTOTAL</b>			

	Points	SCORE	DOCUMENTATION
<b>MOISTURE CONTROL</b>			
Required: gravel bed beneath subgrade slab	-		
variable speed blower	2		
humidistat used with variable speed cooling system	2		
plastic as footing wrap or capillary break between footing and foundation	2		
foundation drain on top of footing	1		
foundation drain at outside perimeter edge of footing	2		
drainage board for below grade walls	4		
gravel bed beneath ongrade or raised slab	2		
vapor barrier beneath slab (above gravel) or in crawl space (required tiers II & III)	1		
vapor barrier is 10 mil or thicker or reinforced	1		
100% coverage of vapor barrier in crawl space all seams sealed to piers, walls (required tier III)	1		
capillary break between foundation and framing for all walls (required tiers II & III)	1		
<b>MOISTURE CONTROL SUBTOTAL</b>			
<b>VENTILATION</b>			
REQUIRED: bathroom exhaust fans & clothes dryers must be ducted to outside	-		
passive, labeled radon/soil gas vent system (required tier III, EPA zones 1 & 2)	4		
radon test of home prior to occupancy	2		
bath fans ducted with rigid duct (all units)	1		
automatic tub/shower room fan controls (e.g. timer or humidistat)	1		
kitchen range hood or downdraft vented to exterior (required tiers II & III)	3		
third-party testing of each exhaust air flow rate	1		test results
wholehouse, basement or sealed crawlspace dehumidification system	3		
outside air intake without damper (10 cfm/bedroom or ASHRAE 62.2) (required tiers II & III)	4		
damper on outside air intake	1		
ventilation timer on outside air intakes	3		
third-party testing of the outdoor air flow rate	1		test results
energy recovery ventilator	4		
locate all air intakes >10' away from exhaust outlets and vehicle idling zones (required tiers II & III)	1		
ceiling fans (minimum of 3 fans)	1		
★ whole house fan has sealed, insulated cover	2		
effective cross ventilation with insect screens	3		design on plans
effective stack ventilation (e.g. cupola or clerestory with operable windows and insect screens)	3		design on plans
if there is a garage storage room or cabinet, that space is vented to outside (required for tier III)	1		
no power roof vents (required tiers II & III)	1		
<b>VENTILATION SUBTOTAL</b>			
<b>INDOOR POLLUTANT CONTROL</b>			
REQUIRED: Ducts in floor protected until floor finishing	-		
REQUIRED: outdoor structures made from non-CCA pressure treated lumber except where prohibited	-		product literature
all insulation urea-formaldehyde free	1		
subfloor urea-formaldehyde free	1		product literature
all cabinets, shelves, and countertops urea-formaldehyde free	3		product literature
all surfaces of particle board in house sealed with water-based sealant	1		product literature
reduced VOC paints (less than 250 g/L) (required tiers II & III)	1		product literature
low VOC paints (less than 150 g/L)	3		product literature
reduced VOC stains and finishes on wood floors	1		product literature
low VOC sealants and adhesives (less than 250 g/L)	1		product literature
no carpet in below grade rooms	1		
low VOC carpet certified by the Carpet & Rug Institute Green Label or no carpet in home (required tier III)	2		product literature
low VOC carpet pad certified by the Carpet & Rug Institute Green Label or no carpet in home (required tier III)	1		product literature
low VOC carpet pad adhesive certified by the Carpet & Rug Institute Green Label or no carpet in home (required tier III)	1		product literature
use of 10 GreenGuard certified materials or equivalent inside the home	3		product literature
flush home with fresh air continuously for one week prior to occupancy	1		
alternative termite treatment with no soil pretreatment unless required by code (required tiers II & III)	2		
alternative pest control	2		
provide rodent and corrosion proof screens for all openings not fully sealed or caulked (required tiers II & III)	1		
central vacuum system with outside collection receptacle	1		
permanent walk-off mats installed at each entry	1		
filter / air cleaner MERV 8 or better (e.g. pleated filter)	1		
2" pleated filter or thicker	2		
ducts protected until construction is completed (required tier III)	2		
<b>INDOOR POLLUTANT CONTROL SUBTOTAL</b>			
<b>INDOOR AIR QUALITY TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 15 pts., tier 2 - 25 pts., tier 3 - 35 pts.</b>			

	Points	SCORE	DOCUMENTATION
<b>WATER CONSERVATION</b>			
<b>INDOOR USE</b>			
REQUIRED: All fixtures must meet National Energy Policy Act low flow standards.	-		
water filter (NSF certified)	1		product literature
ENERGY STAR clothes washer (or equivalent)	3		product label
low-flow lavatory faucets (max 2.0 gal/min)	2		product literature
low-flow showerheads (max 2.25 gal/min)	2		product literature
low-flush (max 1.45 gal/flush) or dual-flush toilets	2		product literature
WaterSense labeled toilets (1.3 gal/flush)	3		product literature
hot water demand re-circulation (not continuous circulation)	2		
manifold distribution system (longest branch max 10 feet for 1-story and max 15 feet for 2-story)	4		
<b>INDOOR USE SUBTOTAL</b>			
<b>OUTDOOR USE</b>			
xeriscape™ guidebook given to homeowner	1		resource
xeriscape™ plan provided to homeowner	4		xeriscape plan
soil tested and amended	5		test results
reduced sod area (less than the home's footprint)	5		
drought-tolerant / native landscaping plants	(required tier III) 5		
use no invasive plant species, as identified by local Agricultural Cooperative Extension Service	(required tier III) 1		
shade at least 50% of hardscape within 50 feet of home	1		
irrigation system designed and installed by WaterSense certified irrigation professional	1		
weather station or soil moisture sensor on irrigation system	2		
no irrigation system	3		
drip irrigation system	3		
greywater irrigation	4		
rainwater harvest system	4		
permeable pavement driveway / parking area	3		
timer on exterior water spigots	1		
<b>OUTDOOR USE SUBTOTAL</b>			
<b>WATER CONSERVATION TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 3 pts., tier 2 - 5 pts., tier 3 - 10 pts.</b>			
<b>HOMEBUYER EDUCATION</b>			
guaranteed energy bills	10		energy bill guarantee
review energy operations with homeowner	(required tiers II & III) 1		
review irrigation system operations with homeowner	(required tiers II & III) 1		
environmental features checklist for walk through	4		
built-in recycling center	2		
local recycling contact	1		
household hazardous waste resources	1		
backyard composting bin with instructions for use	1		
backyard composting bin with instructions for use and no garbage disposal	2		
<b>HOMEBUYER EDUCATION TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 1 pts., tier 2 - 2 pts., tier 3 - 4 pts.</b>			
<b>BUILDER OPERATIONS</b>			
REQUIRED: Must build at least 1 EarthCraft House every year (if building >50 homes a year, must build at least 5 EarthCraft Houses every year)	-		
builder commits 80% of total homes to EarthCraft House standards	3		
builder commits 100% of total homes to EarthCraft House standards	4		
markets EarthCraft House program	2		
environmental checklist provided to all subcontractors	(required tier III) 2		
uses HBA Homeowner Handbook for warranty standards (or approved equiv.)	2		
Certified Professional Home Builder (or approved equiv.)	2		certificate
<b>BUILDER OPERATIONS TOTAL</b>			
<b>Builder must earn a minimum for: tier 1 - 2 pts., tier 2 - 4 pts., tier 3 - 6 pts.</b>			

	Points	SCORE	DOCUMENTATION
<b>BONUS POINTS</b>			
house located within 1/2 mile of park available for homeowner use	1		
site located within 1/4 mile of mass transit	5		
sidewalk connects house to business district (max 2 miles)	5		
lot designed for clearly defined pedestrian access to community paths	1		
covered and usable front porch	1		
brownfield site	5		
green roof system installed minimum 30% of total roof area on lot	4		
solar, micro-hydro or wind electric system (minimum 0.5 kW production)	25		system specs
on-site fuel cell or co-generation system	3		
solar-ready home	5		
use building materials extracted, processed and manufactured within 500 miles of site (0.5 pts each, max 5 pts)	0.5 per item		list of products and manufacturer
Easy Living accessibility / visitability certification	2		certificate
American Lung Association Health House	5		certificate
exceeds ENERGY STAR (1 point for each 3%) max 5 points			rating index
Innovation points - Builder submits specifications for innovative products or design features to qualify for additional points			
<b>BONUS POINTS TOTAL</b>			<b>Min/Max</b>
<b>EARTHCRAFT HOUSE TOTALS</b>		Earned	
<b>SITE PLANNING</b>			<b>(Min 4, 6, 8)</b>
<b>ENERGY EFFICIENT BUILDING ENVELOPE AND SYSTEMS</b>			<b>(Min 80, 90, 100) (Max 90, 100, 110)</b>
<b>RESOURCE EFFICIENT DESIGN</b>			<b>(Min 2, 3, 4)</b>
<b>RESOURCE EFFICIENT BUILDING MATERIALS</b>			<b>(Min 6, 12, 16)</b>
<b>WASTE MANAGEMENT</b>			<b>(Min 3, 4, 6)</b>
<b>INDOOR AIR QUALITY</b>			<b>(Min 15, 25, 35)</b>
<b>WATER CONSERVATION</b>			<b>(Min 3, 5, 10)</b>
<b>HOME BUYER EDUCATION</b>			<b>(Min 1, 2, 4)</b>
<b>BUILDER OPERATIONS</b>			<b>(Min 2, 4, 6)</b>
<b>BONUS POINTS</b>			
<b>GRAND TOTAL</b>			<b>(Min 150, 200, 230)</b>