



# Worksheet

• To be completed by a certified Nebraska Green Builder

**FORM**  
**G 1**

Property Location		Builder's Name and Mailing Address	
Property Location Address		Builder's Name	
		Company Name	
City	State Zip Code	Mailing Address	
Checked By	Green Building Number	City	State Zip Code
County		Area Code and Telephone Number	Fax Number

**BUILDING CATEGORY, REQUIREMENTS AND OPTIONS**

Lot and Siting (Choose 2 features)	Building Envelope Design (3 features required)
<input type="checkbox"/> 1. Outdoor structures, decking and landscape material made from recycled-content materials (i.e. plastic lumber) or borate-treated engineered lumber <input type="checkbox"/> 2. Home is oriented so east and south areas are for outdoor use <input type="checkbox"/> 3. Home oriented on lot so that the longest axial dimension faces within 20 degrees of south <input type="checkbox"/> 4. Covered outdoor living area (at least 10% of indoor area or a minimum of 150 Sq. Ft.) <input type="checkbox"/> 5. Save and reuse all site topsoil <input type="checkbox"/> 6. Constructed, planted or natural wind breaks on west and north sides of the house <input type="checkbox"/> 7. Deciduous shade trees/plants on the south and west sides of the house to block summer sun and admit winter sun <input type="checkbox"/> 8. Trees and natural features on site protected during construction	<input checked="" type="checkbox"/> Receive an energy rating of at least five-stars as certified by a Nebraska Home Energy Rater <input checked="" type="checkbox"/> Have an exterior air infiltration barrier installed to manufacturer specifications <input checked="" type="checkbox"/> Diagnostic/Blower door test completed after construction by a Nebraska Certified Home Energy Rater verifying five-star rating  <b>(Choose 2 additional features)</b> <input type="checkbox"/> 1. Advanced sealing package in addition to basic sealing practices (advanced package adds sealing at top and bottom plates, corners, between cavities at penetrations, band joists and cantilevered areas sprayed with foam sealant or spray applied insulation) <input type="checkbox"/> 2. 100% of south glass shaded in June, July and August at 12 noon <input type="checkbox"/> 3. South glass area is between 5-10% of total finished floor area (including skylights) <input type="checkbox"/> 4. Glazing area less than 20% of the livable floor area (including skylights) <input type="checkbox"/> 5. Energy heels of 6" or more on trusses <input type="checkbox"/> 6. Properly designed interior thermal mass to assist heating and cooling house <input type="checkbox"/> 7. Daylighting that allows natural light to enter house from two sides of rooms in at least 50% of total livable floor area (excluding skylights)
Waste Reduction and Recycling (Choose 2 features)	Exterior Walls (Choose 2 features)
<input type="checkbox"/> 1. Built-in recycling center in or near the kitchen to include three or more bins (min. 5 gallons) <input type="checkbox"/> 2. Built-in recycling holding area to store recycled items before transferal to curbside or to a recycling center <input type="checkbox"/> 3. Construction waste reduction, recycle and reuse plan written and followed by builder (i.e. recycle bins for wood, drywall, cardboard, metal; prepare & follow waste spec. document) and prohibit burying construction waste <input type="checkbox"/> 4. Trees removed from site are mulched, replanted or put to other uses, such as fence posts or fuel (not put in landfill) <input type="checkbox"/> 5. Composting system installed in yard (manufactured or made at site) <input type="checkbox"/> 6. Recycled wood waste from outside source used for landscape mulch	<input type="checkbox"/> 1. Reconstituted or recycled-content siding (minimum 20% pre- or post-consumer) <input type="checkbox"/> 2. Reconstituted or recycled-content fascia, soffit or trim (minimum 20% pre- or post-consumer) <input type="checkbox"/> 3. Locally produced brick or block veneer <input type="checkbox"/> 4. Light colored walls <input type="checkbox"/> 5. Exterior Insulation Finish System installed and properly drained according to manufacturer's instruction. EIFS must be installed on at least 30% of the exterior building surface area <input type="checkbox"/> 6. Recycled content underlayment and/or sheathing (minimum 50% pre- or post-consumer) or OSB (oriented strand board) <input type="checkbox"/> 7. Natural and/or synthetic stucco <input type="checkbox"/> 8. Molded cementitious "stone" <input type="checkbox"/> 9. R-3.2 or better insulated exterior wall sheathing <input type="checkbox"/> 10. Agricultural by-product sheathing <input type="checkbox"/> 11. Straw/mud or rammed earth <input type="checkbox"/> 12. Straw bale technique <input type="checkbox"/> 13. Engineered wood sub-fascia, soffit or trim (e.g. fiberboard or laminated strand lumber)
Foundation (Choose 2 features)	
<input type="checkbox"/> 1. A poly vapor barrier is installed under floor slabs and caulked at walls <input type="checkbox"/> 2. Locally produced coal fly ash concrete (minimum 15%) <input type="checkbox"/> 3. Regionally produced block or brick <input type="checkbox"/> 4. Water-based/non-toxic damp proofing <input type="checkbox"/> 5. Frost protected shallow foundation <input type="checkbox"/> 6. Aluminum foundation forms used <input type="checkbox"/> 7. Rigid insulation forms that provide permanent insulation to the foundation <input type="checkbox"/> 8. Insulated foundation with rigid R-8 foam insulation to footer <input type="checkbox"/> 9. Non-toxic termite protection such as termite shields used <input type="checkbox"/> 10. Recycled-content foundation block	

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**Insulation (Choose 1 feature)**

All insulation shall be installed such that the full R-value is achieved in every location. No voids, partially filled gaps or compression shall be permitted in wall, floor, ceiling or roof insulation.

- 1. CFC and HCFC free rigid foam or spray plastic foam insulation
- 2. Cellulose insulation with borates and UL-rated fire retardant
- 3. Formaldehyde-free insulation
- 4. Non-toxic spray foam insulation
- 5. Agricultural fiber insulation
- 6. Perlite insulation used
- 7. Non-toxic (even when burned) foam insulation
- 8. Fiberglass insulation with a minimum of 15% recycled content. Manufacturer documentation required

**Roof Materials & Construction (Choose 2 features)**

- 1. Recycled-content roof material (min 15% recycled content)
- 2. Minimum 30 year roofing material including concrete, slate, clay, composition, metal or fiberglass
- 3. Combination cement-fiber roofing with recycled content
- 4. Light colored roofing
- 5. Radiant barrier in roof cavity with air space below
- 6. Vented roof cavity with continuous ridge and eave venting or insulation on underside of roof deck
- 7. Recyclable roofing materials (i.e. metal roofing)

**Indoor Air Quality (1 feature required)**

- All bathroom fans must have backdraft dampers, be EnergyStar® rated\* and be controlled with a timer switch

**(Choose 2 additional features)**

- 1. Heat recovery ventilator, air-to-air heat exchanger or exhaust fan ventilation
- 2. Sealed combustion or power vented domestic gas water heater
- 3. Exhaust fan in garage on timer (balance intake air to exhaust with transfer grill to outside)
- 4. Mechanical room air sealed from conditioned space
- 5. Furnace and/or duct-mounted electronic or electrostatic air cleaner or pleated air filters
- 6. Radon mitigation and air tight sump pit installed
- 7. CO (carbon monoxide) detector installed in house where combustible appliances are used
- 8. Central vacuum system with exhaust to outside
- 9. Detached garage (i.e. separate noxious fumes away from house)
- 10. Ultraviolet light air purifier installed

**Doors (Choose 1 feature)**

- 1. Reconstituted or recycled-content interior doors (hardboard) with least toxic binders
- 2. No Luan doors (tropical hardwood)
- 3. Exterior doors insulated to R-5 or greater (must include overhead garage doors when garage is part of conditioned space)
- 4. Solid, domestically-grown or domestic hardwood interior panel doors
- 5. At least 50% of the doors are recycled

**Windows (1 feature required)**

- All windows have a minimum R-value of 2.86 or a maximum U-value of .35

**(Choose 2 additional features)**

- 1. Finger-jointed wood windows
- 2. Wood, vinyl or durable composite frames
- 3. Windows with R-3 or better glazing, NFRC rated (Low-E or Heat Mirror)
- 4. No metal-framed windows in house, e.g., basements
- 5. Operable windows in all living areas placed to allow cross-ventilation
- 6. Interior window treatments with light color and reflective properties and/or insulated

**Structural Frame (Choose 3 features)**

- 1. Large dimension solid lumber (2x10 or greater) avoided
- 2. Engineered wood "I" joists used for floor
- 3. Trusses or "I" joists used for roofs
- 4. Engineered wall framing material used in at least 80 percent of wall construction
- 5. Structural insulated panels used for walls or roofs
- 6. Reinforced cementitious structure using a minimum 15% fly ash concrete. Supplier documentation required
- 7. Engineered lumber products for beams, joists or headers
- 8. Optimum value engineering framing (24" O.C. studs, 3 or less stud corners and reduced window framing)
- 9. Engineered alternatives to wood framing
- 10. Borate-treated wood used where applicable, instead of pressure-treated wood
- 11. Gypsum board made from recycled paper and recycled or synthetic fiber integrated into gypsum. Manufacturer documentation required
- 12. Steel studs used in more than 90% of the interior walls of structure
- 13. Reinforced insulated masonry used for walls
- 14. Reinforced foam-formed concrete walls

**Mechanical Equipment & Design (4 features required)**

- All mechanical equipment installed must be Energy Star® rated\*
- Include a set-back thermostat (programmable), two stage for heat pumps
- All ductwork joints sealed with low toxic mastic or gaskets in accordance with manufacturer's instruction. No duct tape permitted.
- Sealed combustion gas fireplace or sealed wood-burning fireplace or stove with outside combustion air

**(Choose 3 additional features)**

- 1. Mechanical zoning provided for every 1500 sq. ft. of living area
- 2. Air handling unit centrally located, within 15% of the horizontal center of the home's living area
- 3. Home designed for active or passive solar heating system providing 40% or greater of the home's heating needs. Verification required by load calculations
- 4. Active solar system for cooling, contributing at least 30% reduction in mechanical cooling. Verification required by load calculations
- 5. All (100%) air-supply and distribution ducts within conditioned building envelope
- 6. Return air ducts or transfer grills in every enclosed livable room
- 7. Earth-sheltered design reduces heating and cooling needs by at least 30%. Verification required by load calculations
- 8. Thermal chimney to increase natural ventilation
- 9. Humidifiers installed
- 10. Minimum of three EnergyStar® rated\* ceiling fans installed
- 11. Stack and/or cross ventilation for seasonal cooling (ventilation paths no greater than 20 ft.)

\*Energy Star® rated features must be based on specifications effective on the date the G-1 Worksheet is submitted

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**Water and Water Heating Equipment (3 features required)**

- Minimum water heater performance factors: Gas = 0.60 EF Electric = 0.91 EF
- ½" insulation on all hot water lines
- Toilet water usage of 1.6 gallons per flush (GPF) or less

**(Choose 2 additional features)**

- 1. Solar water heating (min. 40% of hot water needs). Verification required by calculations
- 2. Photovoltaic power system (min. 10% of electric load). Verification required by load calculations
- 3. Wind power system (min. 10% of electric load). Verification required by load calculations
- 4. Water heater located within 15% of the horizontal center of the home's living area
- 5. Zoned hot water system provided for needs at farthest location from the primary water heater
- 6. Electric heat pump water heater
- 7. Sealed combustion or power vented domestic gas water heater
- 8. Permeable materials (60% of areas for all walkways, patios and driveways)
- 9. Grass that uses less water such as blue gramma, buffalo or fescue in turf area
- 10. Valved water distribution system included
- 11. Xeriscape that is more than 80% of non-paved area
- 12. 2.0 gpm faucets in kitchen, installed to manufacturer's specifications
- 13. Energy Star® rated\* clothes washer installed
- 14. Water conserving irrigation system: rain-override timer or soil moisture sensor, drip irrigation, soaker hoses and bubblers; irrigation zoned for plants' needs with separate valving
- 15. Graywater irrigation system
- 16. Site graded to direct water away from foundation to harvesting areas that prevent runoff
- 17. No garbage disposal (Garbage disposals encourage additional water use, by not including a disposal additional water use is avoided and composting encouraged)
- 18. Whole house water purification system using titanium/copper electrode-granulated activated carbon (GAC) filter or non-GAC system
- 19. Under sink water purification system using reverse osmosis or carbon filter
- 20. Gravity hot water recirculating system installed

**Finishes and Adhesives (Choose 2 features)**

- 1. Interior paints and finishes that contain less than 250 grams/liter of VOCs
- 2. Only low-tox mastics, sealants and petroleum solvent-free or water based adhesives used throughout
- 3. Paints or finishes with recycled-content
- 4. Water-based urethane/lacquer finishes on wood floors and woodwork
- 5. Gypsum wallboard with least toxic joint compound
- 6. Locally produced brick for interior wall
- 7. Reconstituted, synthetic or recycled-content wall board
- 8. Concrete or gypsum plaster
- 9. Agricultural by-product paneling
- 10. Recycled gypsum plaster
- 11. Low-biocide paints
- 12. Plant/mineral based paints, sealers and finishes
- 13. Non-toxic interior clear wood sealers
- 14. Carpeting tacked throughout, not glued

**Appliances (1 feature required)**

- Built-in dishwashers must be EnergyStar® rated\*

**(Choose 1 additional feature)**

- 1. EnergyStar® rated\* refrigerator
- 2. Built-in microwave oven provided
- 3. Clothes dryer with humidity sensor
- 4. EnergyStar® rated\* clothes washer
- 5. Provide gas rough-in for appliances not included
- 6. Interior and/or exterior clotheslines provided

**Lighting (4 features required)**

- Kitchen area lighting is fluorescent
- Each bathroom contains a fluorescent fixture
- Switches for the most efficient lighting fixture is located nearest each door
- All exterior lighting is photocell controlled

**(Choose 3 additional features)**

- 1. Light interior colors
- 2. Light colored floor coverings
- 3. Compact fluorescent light fixtures provided for at least 50% of total number of fixtures
- 4. Low-voltage halogen lighting substituted for incandescent down lights
- 5. Solar-powered walkway or outdoor area lighting
- 6. Daylighting strategies used to reduce the need for artificial lighting

**Cabinetry and Trim (Choose 1 feature)**

- 1. Tropical hardwood trim or cabinets only from certified sustainably-managed forests
- 2. Finger-jointed or recycled content trim
- 3. Cabinets made with formaldehyde-free particleboard or MDF (medium density fiberboard)
- 4. Domestic hardwood trim
- 5. Any exposed particleboard is painted with water-based sealer inside cabinets, underside of countertops
- 6. Urea formaldehyde-free products are used throughout
- 7. On-site application of cabinet finishes done with least toxic (50 or less grams of VOCs per liter) finishes
- 8. Solid domestic hardwood cabinets
- 9. Least toxic reconstituted recycled-content cabinet materials
- 10. Recycled content countertops (min. 20% recycled content)

**Finish Floor (Choose 2 features)**

- 1. Recycled-content carpet pad. (See note 1)
- 2. Recycled-content carpet (tacked not glued). (See note 1)
- 3. Natural linoleum with low toxic adhesive or backing. (See note 2)
- 4. Ceramic tile installed with low toxic mastic and grout
- 5. Natural material carpeting and backing (such as domestic cotton or wool) untreated, tacked not glued. (See note 1)
- 6. Recycled-content ceramic tile
- 7. Reused wood flooring. (See note 1)
- 8. Locally quarried and processed stone (i.e. flagstone) or locally produced brick. (See note 1)
- 9. Locally produced coal flyash concrete (slab foundation doubles as finished floor). (See note 1)
- 10. Domestic hardwood flooring with least toxic glues or backing
- 11. Recycled content floor tile. (See note 2)
- 12. Cork flooring. (See note 2)
- 13. Bamboo flooring. (See note 2)

Note 1. In order to receive credit in this category, the total area of the selected finish floor material must be at least 35% of the total livable floor area.

Note 2. In order to receive credit in this category, the total area of the selected finish floor material must be at least 10% of the total livable floor area.