

Please note that this is
an example of our rating
only.

Please contact an Austin
Energy Green Building
representative to find out
[how to rate a project.](#)

A green home is comfortable, efficient, durable, and healthy and safe for inhabitants, workers, and the planet.



A green home must be designed and constructed so all parts interact successfully with each other and their environment to manage heat, air and moisture. Since it is difficult to address all crucial design and construction matters within a rating, please see the following publication from the Energy and Environmental Building Association (EEBA) for effective construction details:

Builder's Guide for Hot-Humid Climates and the Water Management Guide. Purchase at [Builders Guide](#)

A. Basic Requirements

See "Guide to the Single-Family Rating" for explanations of all measures. [Rating Guide](#)

Place an x in each box. All items must be included in any rated home.

- 1 Energy-efficient home design: minimum of 500 sq. ft. of living space per ton of cooling as calculated by correct Manual J, based on site orientation, plans and specifications**
Use calculation design inputs for Austin, TX, and "GBP Manual J Inputs for Single-Family Homes." [Manual J Inputs](#)
- 2 Cooling and heating equipment minimum efficiency for split systems**

Cooling: 14.0 SEER/11.5 EER AC or heat pump	Brand	<input type="text"/>	SEER	<input type="text"/>
Gas furnace: ≥ 80 AFUE or Heat Pump ≥ 8.2 HSPF	Model	<input type="text"/>	+EER	<input type="text"/>
			AFUE	<input type="text"/>
			/HSPF	<input type="text"/>
- 3 Window efficiency: ≤ 0.35 SHGC and ≤ 0.55 U-Value in Climate Zone 2 (Zone 3: ≤ 0.40 and ≤ 0.40)** Climate Zone
- 4 Wall insulation--one of the following:**
 - a. Energy Star Grade 1 installation Approved by:
 - b. Batts + insulative exterior sheathing with R-value of ≥ 2.0 , taped at seams (unfaced batts preferred)
 - c. "Total fill" type (e.g. blown cellulose, BIBS, spray foam, SIPs)
- 5 Floor insulation over ambient or unconditioned space: $\geq R-13$ with air barrier**
- 6 Blocking for grab bar installed in all showers and tub-shower combinations**
- 7 Gas water heater minimum efficiency (EF): 40 Gal: 0.61; 50 Gal: 0.59; 60 Gal: 0.57; 80 Gal: 0.53; tankless: 0.80**
Or WH is solar thermal: Or if no gas available in right-of way, electric WH meets current Austin code requirements
- 8 No unvented gas logs/fireplaces**
- 9 Exhaust fans venting to outside for cooktop/stove/microwave and baths with tub or shower**
- 10 Ceiling fans: minimum of 2 installed within heated and cooled space**
- 11 A minimum of 75% of all lamps/bulbs are Energy Star-compliant**
- 12 Low-VOC interior wall and ceiling paint: VOC ≤ 100 grams per liter or is CoA recycled paint**

Brand <input type="text"/>	Product <input type="text"/>	VOC gpl <input type="text"/>	Paint from CoA Household Hazardous Waste <input type="text"/>
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For information on "Second Chance Paint": (512) 974-4343 [CoA Recycled Paint](#)
- 13 Minimum of 2 toilets selected from current Austin Water Conservation Program Rebate list**
One per one-bath home; check list for available rebates [CoA Toilet List](#)

Brand <input type="text"/>	Model, type <input type="text"/>
Brand <input type="text"/>	Model, type <input type="text"/>
- 14 Planting beds have a minimum depth of 6" of soil containing 25% compost (such as Dillo Dirt) and minimum depth of 2" organic mulch**
- 15 A minimum of 90% of new plants are from current Grow Green plant list** [Grow Green](#)
- 16 Current City of Austin IRC, IECC Codes and Amendments must be met, regardless of project location (including complete air barrier and restrictions on electric water heaters)** [CoA Codes](#)
Scroll to Energy Code 2006

If you intend to obtain an Energy Star Rating, code-required testing must be done by a HERS rater.
- All Basic Requirements Fulfilled**



B. Measures For Points

Place an x in the yellow column to the left of the items you are incorporating in your project.

If items are either/or, do not check both: points will subtract.

See far-left green column for star level requirements above One Star and S.M.A.R.T. Housing requirements. Required star items are cumulative: e.g. all items required for a 3-Star Rating are required for a Four-Star Rating.

Star Requirements	
Total Points	x

SECTION 1: PLANNING PROCESS

3		1.01	AEGB Green by Design workshop attended by homeowner before completion of design stage
3		1.02	AEGB Green by Design workshop attended by design staff +/- or builder staff
3		1.03	Documented design team meeting held in design stage (including owner, designer, builder, mechanical contractor)

SECTION 2: SITE SELECTION

3		2.01	Lot size is less than 5,750 sq. ft.
3		2.02	Street, electricity, water and wastewater have been in place for a minimum of 25 years
2		2.03	Public transit stop is within a 1/4 mile walk
2		2.04	Grocery store is within a 1/2 mile walk
2		2.05	Public hike and bike trail, green belt, or park is within a 1/2 mile walk

SECTION 3: DESIGN

2		3.01	Energy-efficient design allows for a minimum of 600 sq. ft. of living space per ton of cooling if home is 1500 sq. ft. or larger (Smaller homes: square footage per ton must be approved by Rater for these points if 600 sf is not met)
3		3.02	OR Home design allows for a minimum of 700 sq. ft. of living space per ton of cooling
4		3.03	OR Home design allows for a minimum of 800 sq. ft. of living space per ton of cooling
5		3.04	Indoor cooling equipment is located within the thermal envelope
5		3.05	All duct work is located within the thermal envelope OR home has no duct work
2		3.06	All water heaters in 1-story home located within 20 piped feet of appliances +/- or fixtures they serve; 30 piped feet for 2-story
1		3.07	No fireplace located within conditioned space
2		3.08	Covered, usable <u>front</u> porch (minimum side dimension: 6'; minimum area: 100 sf)
2		3.09	Covered, usable porch other than front porch (minimum side dimension: 6'; minimum area 100 sf)
2		3.10	All roof overhangs project a minimum of 24" horizontally
4		3.11	Overhang projection factor for all windows facing east and west is ≥ 0.5 See projection factor calculation: Overhangs
3		3.12	Windows designed for daylighting (e.g. high windows not requiring privacy treatment)
2		3.13	Designed, effective cross-ventilation in main living areas
2		3.14	Designed, effective stack ventilation (e.g. operable cupola, clerestory, or stairwell exhaust)
2		3.15	Shading on east and west walls of living space for at least 50% of wall area (e.g. covered porch, pergola, trees)
3		3.16	Total glazing area is no greater than 18% of conditioned floor area
5		3.17	Glazing on east and west walls combined does not exceed 25% of total glazing area; glazing on west wall does not exceed 10% of west wall and glazing on east wall does not exceed 10% of east wall
1		3.18	No skylights into conditioned space (solar tubes are acceptable)
3		3.19	Garage is detached from the house or house has no garage
2		3.20	OR Attached garage has exhaust fan with timer or passive vent openings installed 18" above floor
2		3.21	Basic access to house provided according to <i>City of Austin Visitability Ordinance</i> SMART Housing Rating Guide
4		3.22	OR Accessibility provided according to <i>Barrier-Free Residential Construction Guidelines</i>

SECTION 4: MATERIAL EFFICIENCY AND CONSTRUCTION WASTE

4		4.01	Lot has more than one dwelling unit												
3		4.02	Existing home removed from site is reused (deconstructed and recycled/reused or relocated)												
4		4.03	Project is renovation of, and/or addition to existing home												
4		4.04	Home is factory-built modular construction placed on a permanent foundation Make and model: <input type="text"/>												
3		4.05	Conditioned space: maximum of 1,500 sq. ft.												
4		4.06	OR Conditioned space: maximum of 1,200 sq. ft.												
5		4.07	OR Conditioned space: maximum of 900 sq. ft.												
2		4.08	Exterior structure dimensions are in modules of 4'												
2		4.09	Exterior wall system is constructed off-site (e.g. panelized wood frame, SIPs)												
2		4.10	OR Exterior wall system is ICF, AAC block, straw, earth or other AEGB-approved system												
2		4.11	OR Wall framing is by the "Optimum Value Engineering" or "advanced framing" method: employ a minimum of 3 measures: <table border="0" style="margin-left: 20px;"> <tr> <td><input type="text"/></td> <td>a. Exterior wall framing 24" o.c.</td> <td><input type="text"/></td> <td>d. 2-stud corners and ladder blocking; drywall clips</td> </tr> <tr> <td><input type="text"/></td> <td>b. Interior wall framing 24" o.c.</td> <td><input type="text"/></td> <td>e. No wood wall sheathing (corners excepted)</td> </tr> <tr> <td><input type="text"/></td> <td>c. Headers sized for loads</td> <td><input type="text"/></td> <td>f. Window framing without jack studs</td> </tr> </table>	<input type="text"/>	a. Exterior wall framing 24" o.c.	<input type="text"/>	d. 2-stud corners and ladder blocking; drywall clips	<input type="text"/>	b. Interior wall framing 24" o.c.	<input type="text"/>	e. No wood wall sheathing (corners excepted)	<input type="text"/>	c. Headers sized for loads	<input type="text"/>	f. Window framing without jack studs
<input type="text"/>	a. Exterior wall framing 24" o.c.	<input type="text"/>	d. 2-stud corners and ladder blocking; drywall clips												
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<input type="text"/>	c. Headers sized for loads	<input type="text"/>	f. Window framing without jack studs												
1		4.12	Finger-jointed studs												
1		4.13	Roof framing system: engineered trusses or materials/products such as I-joists, truss joists, LVLs, SIPs												

B. Measures for Points Continued



SECTION 4: CONTINUED

1	4.14	A minimum of 50% of framing or sheathing or decking material is SFI-certified engineered products or lumber	
2	4.15	A minimum of 50% of framing or sheathing or decking material is FSC-certified engineered products or lumber	
2	4.16	Use of reclaimed materials, such as doors, hardware, flooring; list in Section 12	
4	4.17	80% of excess lumber and drywall is recycled/reused (not landfilled); approved documentation required	Documentation
3	4	4.18 OR Minimum 40%-by-weight of waste is recycled/reused (not landfilled); approved documentation required	Documentation
4	4.19	OR Approved construction waste management plan; approved documentation for reuse/recycling required	
1	4.20	Concrete-truck wash-out managed to recycle concrete residue and treat wash-out water	

SECTION 5: INTEGRATED PEST MANAGEMENT

2	5.01	Sand or mechanical-barrier termite control system is used: OR structure is not termite-edible	
3	5.02	All wood framing is treated with borate to a minimum of 3 feet above the foundation; OR structure is not termite-edible	
1	5.03	All exterior wood-to-concrete connections are separated by metal or plastic fasteners/dividers (e.g. deck posts)	
1	5.04	All new plants, shrubs and trees have trunk, base or stem located at least 36" from foundation	

SECTION 6: THERMAL ENVELOPE AND MOISTURE CONTROL

		See "Builder's Guide to Hot-Humid Climates" + "Water Management" for design and construction guidelines.	
		In Central TX, make wall system as air-tight as possible but vapor permeable and able to dry to both inside and outside.	
2	6.01	Window U-value of 0.51 or lower	
2	6.02	Glazing has a SHGC of 0.30 or lower	
1	6.03	"Raised-heel"/"energy" roof trusses	
2	6.04	Vented attic system: continuous ridge and continuous soffit vents (no functioning gable vents)	
5	6.05	OR Closed/sealed attic system: unvented; polyurethane foam insulation at roof; minimum 5.5" depth	
3	6.06	"Total fill" insulation in walls (e.g. blown cellulose, BIBS, spray foam, SIPs)	
2	6.07	Insulation has no added formaldehyde	
2	6.08	Wall and attic insulation have average total-recycled-content of 75% minimum	
2	6.09	Roofing meets requirements of Energy Star; minimum 10-year warranty	Energy Star
4	6.10	Tile roof or Metal roof	Cool Roofs
2	6.11	Gutter and downspout system directs stormwater away from foundation to landscaping or catchment system	
2	6.12	Blower door test performed results in envelope leakage no greater than 0.40	

SECTION 7: PLUMBING AND APPLIANCES

1	7.01	≥R-2 insulation of all water lines located outside the thermal envelope and in exterior walls	
2	7.02	Gas water heater is sealed-combustion/direct vent model (required if located in sealed attic)	
2	7.03	Gas water heater is tankless/on-demand; minimum 0.82 efficiency	
4	7.04	OR Water heater is solar thermal	
2	7.05	Push-button on-demand hot water recirculation system (not continuously-operating pump system)	
2	7.06	Toilet is dual-flush or HET model from current CoA toilet list (at least one)	
2	7.07	Toilet is ADA model from current CoA toilet list (at least one)	CoA Toilet List
3	7.08	All shower heads have maximum flow of 2.0 gallons per minute; no more than one shower head per shower or tub	
3	7.09	Clothes washer is from the current CoA Water Conservation WashWise list	CoA Washer List

SECTION 8: MECHANICAL

1	8.01	Cooling tonnage does not exceed 5 tons	
2	8.02	OR cooling tonnage does not exceed 4 tons	
3	8.03	OR cooling tonnage does not exceed 3 tons	
4	8.04	OR cooling tonnage does not exceed 2 tons (If tonnage is lower than 2, write amount in Section 12.)	
5	8.05	Whole-house, ductless, mini-split heating and cooling system	Brand, model #: _____
3	8.06	Variable-speed air handler and minimum 600 sq. ft./ton of cooling	Brand, model #: _____
2	8.07	Variable-capacity compressor and minimum 600 sf/ton of cooling	Brand, model #: _____
3	8.08	Ground-source heat pump	
2	8.09	Gas furnace is sealed-combustion/direct-vent model (CoA requirement if in sealed attic)	Texas Gas Service
2	8.10	Hydronic space heat is supplied by gas water heater or is solar-assisted	
4	8.11	Sheet metal plenum and main trunk lines; any flex-duct take-offs are no longer than 10'	
2	8.12	Air-tight supply boots (ductboard or pre-fabricated)	
2	8.13	Ceiling registers are curved-blade type located high on walls or in ceiling	
1	8.14	Ductwork system is masked/sealed at supplies and returns during construction	
2	8.15	HVAC filter: ≥ 4" pleated-media, or electronic (not electrostatic); easily accessed (HVAC system designed for filter type)	
3	8.16	Mechanical ventilation with automatic damper + humidity sensor provides fresh air into return-air plenum	
1	8.17	Stand-alone hygrometer; OR thermostat has integral hygrometer or humidistat	
1	8.18	Energy Star programmable thermostat	
2	8.19	Air distribution system leakage no greater than 5% as ascertained by duct-blaster testing method	

B. Measures for Points Continued



SECTION 9: ELECTRICAL

2	9.01	Ceiling fans in all bedrooms	
2	9.02	Whole-house fan with insulated cover	
2	9.03	Bathroom exhaust fans are connected to humidistat or timer	
2	9.04	Recessed-can lighting fixtures do not break through the thermal envelope; OR no recessed-can fixtures are installed	
2	9.05	Energy Star Advanced Lighting Package requirements met	Advanced Lighting Package
2	9.06	Energy Star-qualified fixtures--≥5 from following list: appliances, light fixtures/luminaires, ceiling fans, +/- ventilation fans	
3	9.07	A minimum of 90% of lamps/bulbs are Energy Star-compliant	Energy Star lamps/bulbs
2	9.08	All exterior light fixtures are designed to reduce up-lighting/light pollution; OR fixture locations are shielded from above	
1	9.09	All exterior lighting has motion detectors with photocell controllers; OR is solar-powered	
1	9.10	Central vacuum system; exhausts to outside	
5	9.11	Solar photovoltaic (PV) power system installed: 1.5 kW minimum	kW installed: <input type="text"/>
2	9.12	A minimum of 1.5 kW additional solar PV installed (in addition to 9.11)	Additional kW installed: <input type="text"/>

SECTION 10: INTERIOR CONSTRUCTION AND FINISHES

1	10.01	Interior moulding is finger-jointed or MDF	
2	10.02	OR Interior moulding is locally milled local species; made from agricultural waste product; or is FSC-certified wood	
2	10.03	Cabinet boxes, doors, drawers + adhesives: a) meet E1; or b) CARB Phase I; or c) have no added urea-formaldehyde	<input type="text"/>
2	10.04	At least 75% of all cabinet faces are locally milled local species; or FSC-certified wood	a, b or c
2	10.05	At least 75% of all doors are locally milled local species; or FSC-certified wood	
2	10.06	Structural floor is the finish floor for a minimum 50% of all floor area (e.g. exposed concrete, single-layer wood)	
4	10.07	Finish flooring is durable material for a minimum of 50% of all floor area (e.g. ceramic tile, concrete, wood)	
4	10.08	OR Flooring is 100% durable material	
2	10.09	Flooring is rapidly renewable material for a minimum 25% of all floor area (e.g. cork, wool)	
1	10.10	Carpet, carpet padding and flooring adhesives have the CRI Green Label	Product: <input type="text"/> Green Label
3	10.11	Interior wall and ceiling paint has maximum VOC level of 10 grams per liter	Product: <input type="text"/> VOCs: <input type="text"/>
1	10.12	All doors have lever handles	
2	10.13	Grab bars installed in tub +/- shower of at least one bathroom	
1	10.14	Carbon monoxide detector installed (may be combined with smoke detector)	

SECTION 11: SITEWORK AND LANDSCAPING

		See Grow Green for information on appropriate, water-wise landscaping for Central Texas.	Grow Green
3	11.01	Permanent erosion and storm-water control measures (e.g. piped drainage system, berms and swales)	
2	11.02	Decking material of raised porch/deck is recycled-plastic/composite lumber	
2	11.03	Existing vegetation retained on at least 50% of pervious cover area	
3	11.04	No turfgrass installed or planned	
2	11.05	OR Turfgrass/lawn area does not exceed 50% of pervious cover area	
5	0	Existing vegetation substantially retained; OR all new plants from Grow Green list AND turfgrass area installed ≤2000 sq. ft.	
2	11.07	Turfgrass/lawn in full sun is AEGB-approved low-water variety (e.g. common bermuda, zoysia japonica, buffalo)	
5	4	Newly installed turfgrass areas have at least 6" of soil containing 25% compost; OR no turfgrass installed or planned	
2	11.09	Trees are protected with fencing at the <u>drip line</u> ; or a tree protection plan by a professional arborist is followed	
2	11.10	Rainwater harvesting: 110-600 gallons storage	
3	11.11	OR Rainwater harvesting: 601-2,000 gallons storage	
4	11.12	OR Rainwater harvesting: 2,001 or more gallons storage	
3	11.13	Rainwater is sole source of indoor water	

SECTION 12: ADDITIONS AND INNOVATIONS

		Describe other green measures incorporated in this project. Your AEGB Rater will determine points.	
	12.01		
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