



GREEN BUILDING PROGRAM

SINGLE-FAMILY HOME RATING 8.0

Risinger Homes LP
2005 Matthews Drive

RATING INFORMATION						
Star Point Requirements		Special Star Requirements		Rating Summary		
1 Star	★	40--59	Basic Requirements (BR) only		STAR RATING	5
2 Stars	★★	60--84	BR only		Total Points	180
3 Stars	★★★	85--114	BR, 2.07, 3.02 or 3.03, 5.08 or 5.09		Basic Requirements	Fulfilled
4 Stars	★★★★	115--149	BR, 3-Star, 7.14, 7.15, 7.17, 8.01, 8.02, 8.03		Special Star Requirements	Five Stars
5 Stars	★★★★★	≥ 150	BR, 4-Star, 2.08, 2.09		Square feet per ton of cooling	670

PROJECT INFORMATION					
Submitted by (Business Name) Risinger Homes LP		Electric Source Austin Energy <input checked="" type="checkbox"/>		Street Address 2005 Matthews Drive	
Contact Person Matt Risinger		Describe other: <input type="text"/>		City Austin Zip 78703	
Phone 466-6078 cell		Other <input type="checkbox"/>		Subdivision Tarry Town	
Contact E-mail matt@risingerhomes.com		Water Source City of Austin <input checked="" type="checkbox"/>		Building Permit Austin <input checked="" type="checkbox"/> Other <input type="checkbox"/>	
Builder/Contractor Risinger Homes LP		Describe other: <input type="text"/>		Describe other: <input type="text"/>	
Contact Name Matt Risinger		City of Austin <input checked="" type="checkbox"/>		Required-Rating Information	
Phone 466-6078 cell		Other <input type="checkbox"/>		For S.M.A.R.T. Housing <input type="checkbox"/>	
Architect/Designer Hugh Jefferson Randolph Architects		Heating Gas Furnace <input checked="" type="checkbox"/>		Required by other agreement (e.g. PUD) <input type="checkbox"/>	
Contact Name Hugh Randolph		Describe other: <input type="text"/>		Star level required <input type="checkbox"/>	
Phone 796-4001		Heat Pump <input checked="" type="checkbox"/>		Construction Type	
Mechanical Contractor Air-Rite AC		Cooling Split System AC <input checked="" type="checkbox"/>		Project Type	
Contact Name Bert Rosipal		Describe other: <input type="text"/>		Wood Frame <input checked="" type="checkbox"/>	
Phone 554-4609		Other <input type="checkbox"/>		Other <input type="checkbox"/>	
Tons of cooling per unit: Unit 1 2.5		Describe other below: <input type="text"/>		Single-Family <input checked="" type="checkbox"/>	
Unit 2 3		Foundation Concrete/Slab		Duplex <input type="checkbox"/>	
Unit 3 <input type="checkbox"/>		Exterior Walls 2x6		New home <input type="checkbox"/>	
Unit 4 <input type="checkbox"/>		Roof System 2x8		Remodel <input type="checkbox"/>	
Total # of cooling tons: 5.5		Interior Walls 2x4		Addition: sf <input type="checkbox"/>	
Sq.ft. gross living space measured from outside		Begun as: Spec <input checked="" type="checkbox"/> Custom <input type="checkbox"/>		No. of bedrooms 3	
of exterior framed wall: 3955		Signature <input type="text"/>		House faces N	
Sq. ft. net conditioned living space derived from		Date <input type="text"/>		Lot size 7,500	
Manual J calculation: 3687		To the best of my knowledge, this project meets the requirements for Rating requested at time of submittal.			

RATING SUBMITTALS and INSPECTIONS

- 1. Complete and submit all applicable pages of this Rating (see tabs below).**
 - a. **Project Information:** provide requested information in all light-yellow cells above on this page.
 - b. **Basic Requirements For All Ratings:** mark an x (lower case) in the yellow box for all implemented items on page 2.
 - c. **Choice Items for points:** mark an x (lower case) in the yellow column for all implemented items on pages 3-5.
Points total automatically. If Star Rating does not match point total, you have not met a Basic or Special Star Requirement.
 - Section 12: Additions and Innovations** implemented: mark an x (lower case) and describe. Your rep will assign points.
Note: If information is not known at time of original submittal, leave blank and revise for final submittal. If either/ **OR**, check only one.
 - e. **Production builders:** use "Production" tab--enter addresses and other information for all homes with same specifications.
 - f. **Submit Rating:** e-mail it to your GBP rep at: firstname.lastname@austinenergy.com
- 2. Submit Manual J Reports to your GBP representative prior to rough-in GBP inspection.**
Manual J calculations must be based on actual site, plans and specifications. See GBP Manual J Inputs for SF Homes
www.austinenergy.com/go/greenbuilding (For Bid. Professionals); e-mail pdf or fax required Reports to representative
Note: Submitting Rating and Manual J reports prior to construction is strongly recommended.
- 3. Schedule project inspections with your GBP representative.**
 - a. Schedule and conduct a GBP rough-in inspection and before the rough-in mechanical work is covered (before drywall).
 - b. Schedule and conduct a GBP final inspection after all items have been implemented.
- 4. Submit home performance test results to your GBP representative.**
 - a. For all Ratings, submit duct pressure test results (Basic Requirement #4).
 - b. For 4 and 5 Star Ratings, submit results for additional tests (see Section 8).
- 5. Convey Rating Certificate and Homeowner Packet to homeowner.**

a. GBP will provide a Rating Certificate to the Rating submitter to be conveyed to the homeowner.

b. GBP will provide two Rating Certificates for 4 and 5 Star homes, one for submitter and one for homeowner.

A green home is comfortable, efficient, durable, 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 control 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.**

www.eeba.org

A. Basic Requirements For All Ratings

(See Section B. for Three, Four and Five-Star Requirements)

Place an x (lower case) in each box. All must be fulfilled for points in Section B. to register.

1. Home design allows a minimum of 500 sq. ft. of living space per ton of cooling, calculated by correct Manual J, based on actual site orientation, plans and specifications

Use calculation design inputs for Austin, TX, and "GBP Manual J Inputs for Single-Family Homes."

www.austinenergy.com/go/greenbuilding

See "For Building Professionals" for "Manual J Inputs" information

Submit the Manual J Reports listed therein. Required Reports vary with software used.

2. Cooling equipment specified and installed matches sizing as determined by Manual J

3. Cooling equipment minimum efficiency: 14.0 SEER for split systems

4. Duct leakage no greater than 10%, as verified by a direct-pressure test, performed by approved 3rd party

Submit Austin Energy Green Building Program Home Performance Testing for final approval

www.austinenergy.com/go/greenbuilding

See "For Building Professionals" for list of testing companies

5. Pleated-media filters installed in heating and cooling system

One-inch minimum thickness; mechanical system designed for filter installed

6. No unvented gas logs, fireplaces, or heaters installed

7. Air barriers installed on attic side of knee-wall insulation and on interior side of insulation behind tubs, showers and fireplaces located on exterior walls

8. Fluorescent lights (compact or tube) installed in a minimum of 5 light fixtures

9. Ceiling fans: minimum of 2 installed

10. Low VOC interior wall and ceiling paint: maximum VOC level of 150 grams per liter

Mfr./product

Benjamin Moore Regal

VOCs (grams/liter)

49

11. Minimum of 2 toilets selected from current Austin Water Conservation Program Rebate list

(One for one-bath homes)

<http://www.ci.austin.tx.us/watercon/toiletrebate.html>

Rebates for HET models available for new homes; rebates for other models on list available for replacement

Brand

Toto

Model, type

Aquia Dual Flush (All)

Brand

Model, type

12. Current City of Austin IRC, IECC Codes and Amendments must be met, regardless of project location (including prohibition of electric water heaters)

All Basic Requirements Fulfilled



B. Points

Place a **lower-case x** in the yellow column to the left of the items incorporated in your project.

Note: If items are either/or, no points register if both are checked.

See far-left green column for 3, 4, and 5 Star Requirements.

A Four-Star Rating requires all items marked 3 and 4. A Five-Star Rating requires all items marked 3, 4 and 5.

Star Requirements	Total Points	x
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SECTION 1: SITE SELECTION

5	x	1.01	GBP Green by Design workshop attended by homeowner +/- design staff +/- builder staff	www.ci.austin.tx.us/greenbuilder
4		1.02	Lot size is less than 5,750 sq. ft.	
4	x	1.03	Street, electricity, water and wastewater have been in place for a minimum of 25 years	
2	x	1.04	Public transit stop is within a 1/4 mile radius	
2	x	1.05	Grocery store is within a 1/2 mile radius	
2	x	1.06	Public hike and bike trail, green belt, or park is within a 1/2 mile radius	

SECTION 2: HOME DESIGN

5	x	2.01	Documented design team meeting(s) held in design/planning stage (including designer, builder, mechanical contractor)	
5		2.02	Conditioned space of main residence or duplex unit: maximum of 1,500 sq. ft.	
4		2.03	Lot has more than one dwelling unit (e.g. duplex, garage apartment, "granny flat" [not a guest house or studio])	
4		2.04	Project is renovation of, and/or addition to existing home	
4		2.05	Home is factory-built modular construction on permanent foundation	
3		2.06	Exterior rough-in dimensions are modules of 4'-0"	
3	5	x	2.07 Home 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 GBP rep for these points)	
5	3	x	2.08 Indoor heating and cooling equipment is located within the thermal enclosure OR home has no interior H+C equipment	
5	5	x	2.09 All duct work is located within the thermal enclosure OR home has no duct work	
2		2.10	All water heaters are located within 20 piped feet of appliances and/or fixtures they serve	
2		2.11	Washer and dryer are located outside the home's conditioned space	
1		2.12	No fireplace within conditioned space	
2		2.13	Covered, usable <u>front</u> porch (minimum: side 6', minimum area 100 sf)	
2	x	2.14	Covered, usable porch other than front porch (minimum: side 6', minimum area 100 sf)	
2	x	2.15	Raised-heel roof trusses OR sealed attic: unvented, spray-foam-insulated at rafters, any gas equipment is sealed-combustion	
2	x	2.16	All roof overhangs project a minimum of 24" horizontally	
3		2.17	Designed, effective cross-ventilation (e.g. open plan, window type and placement)	
3		2.18	Designed, effective stack ventilation (e.g. operable cupola or clerestory exhaust)	
2		2.19	Living areas protected by buffer spaces on at least 50% of west and southwest walls (e.g. garage, closets)	
2	x	2.20	Shading on east and west walls of living space for at least 50% of wall area (e.g. covered porch, pergola, trees)	
3		2.21	Glazing on east and west walls combined does not exceed 25% of total house glazing area and glazing on west wall does not exceed 20% of west wall; likewise for east wall	
1	x	2.22	No skylights into conditioned space (solar tubes acceptable)	
3		2.23	Garage is detached from the house or house has no garage	
2	x	2.24	OR Attached garage has exhaust fan with timer, or passive vent openings are installed a minimum of 18" above finish floor	See Guide
2	x	2.25	Basic access to house provided according to City of Austin Visitability Ordinance	See Guide
4		2.26	OR Accessibility provided according to City of Austin Barrier-Free Residential Construction Guidelines	See Guide

SECTION 3: CONSTRUCTION WASTE MANAGEMENT

4	x	3.01	Existing home removed from site is reused (whether deconstructed and recycled or moved)	
3		3.02	Construction waste plan includes minimum 25%-by-volume waste used on-site (e.g. mulched)	
3	x	3.03	AND/OR Approved construction waste plan includes a minimum of 3 of the following (add points for items not included in 3.02):	
1		3.03-a	Lumber longer than 2 feet is used/recycled	
1	x	3.03-b	Corrugated cardboard used/recycled	
1	x	3.03-c	Jobsite garbage is recycled: paper, plastic bottles, glass bottles, metal cans (no hazardous materials)	
1		3.03-d	Metal and unfinished gypsum board used/recycled	
1	x	3.03-e	Stone, concrete and masonry rubble used/recycled	

SECTION 4: BUILDING STRUCTURE AND ENCLOSURE

1		4.01	Fill-dirt bags in slab foundation are plastic (not paper)	
3	x	4.02	Slab foundation finish level is at least 12" above soil on <u>all</u> sides (Code requires 8" minimum)	
2	x	4.03	Sand or mechanical-barrier termite control system is used (or structure is not termite-edible)	
3		4.04	All wood framing is treated with borate to a minimum of 3 feet above the foundation (or structure is not termite-edible)	
1		4.05	All exterior wood-to-concrete connections are separated by metal or plastic fasteners/dividers	
2		4.06	Finger-jointed studs/lumber used for minimum 50% of wall construction	
2		4.07	Exterior wall framing is 24" on center	
3		4.08	OR Exterior wall framing is by the "Optimum Value Engineering" or "advanced framing" method	
3		4.09	OR Exterior wall panels are constructed off-site	

Star Requirements
Total Points
x

B. Points continued

SECTION 4: BUILDING STRUCTURE AND ENCLOSURE continued

1		4.11 Interior wall framing is 24" on center
2		4.12 OR Interior framing is by the "Optimum Value Engineering" or "advanced framing" method
3		4.13 OR Interior walls are a "solid" or "infill" system (e.g. SIPS, ICF, AAC block, straw, earth)
3		4.14 FSC-certified engineered products or lumber: minimum 50% of framing/sheathing/decking material used
2	X	4.15 Floor framing system: engineered trusses or materials such as I-joists, truss joists, LVLs (no solid lumber $\geq 2 \times 10$)
2		4.16 Roof framing system: engineered trusses or materials such as I-joists, truss joists, LVLs (no solid lumber $\geq 2 \times 10$)
3		4.17 Alternative roof system (e.g. SIPS)

SECTION 5: THERMAL AND MOISTURE CONTROL

3		5.01 Energy Star windows	www.energystar.gov
2		5.02 Glazing has a SHGC of 0.30 or lower	
5	X	5.03 Energy Star Thermal Bypass Inspection Checklist met; inspected by certified HERS rater	www.energystar.gov
3	X	5.04 "Total fill" insulation in walls (e.g. blown cellulose, BIBS, spray foam, SIPS)	
2		5.05 Insulation has no added urea-formaldehyde	
2		5.06 Wall and attic insulation have average total-recycled-content of 75% minimum	
1		5.07 Vented attic: continuous ridge and continuous soffit vents	
3		5.08 Roof radiant barrier attached to roof decking or rafters	
5	X	5.09 AND/OR attic is within thermal enclosure: unvented, sealed, spray-foam-insulated at rafters, gas equipment is sealed-combustion	
2	X	5.10 Roofing material meets requirements of Energy Star	www.energystar.gov
4	X	5.11 Roofing is tile or metal	www.coolroofs.org
2		5.12 Gutter and downspout system directs stormwater away from foundation to landscaping or catchment system	

SECTION 6: PLUMBING AND APPLIANCES

2		6.01 No plumbing pipes located in exterior walls (except for hose bibbs)	
1		6.02 Central-manifold water-supply piping system	
1	X	6.03 PEX piping	
2		6.04 All hot water piping located outside the thermal enclosure or in/under slab is insulated	
2	X	6.05 Gas water heater minimum Energy Factor: if ≤ 50 gallons--0.63 EF; if ≥ 50 gallons--0.60 EF; tankless--0.80 EF	
2		6.06 Gas water heater is sealed-combustion/direct vent model	
2	X	6.07 OR Gas water heater is tankless/on-demand	
4		6.08 OR Water heater is solar thermal	
2		6.09 <u>On-demand</u> hot water recirculation system (not continuously-operating pump system)	
3	X	6.10 All toilets selected from current CoA Water Conservation Program toilet rebate list	www.ci.austin.tx.us/watercon
2	X	6.11 Dual-flush or high-efficiency toilet(s) from current CoA toilet rebate list	
3		6.12 All bathroom faucets have built-in aerators or restrictors that cannot be removed	
3		6.13 All shower heads have maximum flow of 2.0 gallons per minute; no more than one shower head per shower or tub	
1	X	6.14 Dishwasher is Energy Star model	www.energystar.gov
3	X	6.15 Clothes washer is from the current CoA Water Conservation WashWise list	www.ci.austin.tx.us/watercon

SECTION 7: MECHANICAL

1		7.01 Cooling system refrigerant is non-R-22	
5		7.02 Whole-house, ductless, mini-split heating and cooling system	
2		7.03 Variable-speed air handler and minimum 600 sq. ft./ton of cooling	
2		7.04 Variable-capacity compressor and minimum 600 sq. ft./ton of cooling	
5		7.05 Ground-source heat pump	
4	X	7.06 Gas furnace is sealed-combustion/direct-vent model (CoA requirement if in sealed attic)	www.texasgasservice.com
2		7.07 Hydronic space heat is supplied by gas water heater or is solar-assisted	
4	X	7.08 Sheet metal plenum and main trunk lines; any flex-duct take-offs are no longer than 10'	
1	X	7.09 R-8 duct insulation	
1	X	7.10 Ducts are cut to exact length; original diameter maintained	
1		7.11 No change in direction in any single duct greater than 180 ° and no single turn greater than 90 °	
1	X	7.12 Ductwork in attic is placed on attic floor (except in walk-way to equipment)	
3	X	7.13 Supply-air-register location: high on walls or in ceiling; ceiling registers are curved-blade type	
4	3	X	7.14 Pressure-relief for all bedrooms by means of jump ducts, transfer grills, or ducted returns
4	4	X	7.15 Return-air grille size: minimum face dimension of 200 sq. inches/ton of cooling; return-air duct sized to match air-flow
2	X	7.16 HVAC filter: ≥ 4 " pleated-media, or electronic (not electrostatic); easily accessed (HVAC system designed for filter type)	
4	3	X	7.17 Mechanical ventilation with damper brings outside air into return-air plenum
1	X	7.18 Ductwork system is masked/sealed at supplies and returns during construction	

1	x	7.19 Programmable thermostat
3		7.20 Ducted dehumidification system (independent from cooling system operation)

Star Requires	Total	B. Points continued
	x	

SECTION 8. 3rd PARTY PERFORMANCE TESTING (See TESTING tab for required form)

4	4	x	8.01	Blower door test performed; results are \leq 0.50 ACH
4	4	x	8.02	Air duct system air-flow, static pressure, return-air sizing tests performed and standard met; or system is ductless
4	2	x	8.03	House passes combustion safety/backdraft test or test is not required (see Testing requirements)

SECTION 9: ELECTRICAL

2	x	9.01	Ceiling fans in all main rooms and bedrooms (not required in dining areas)
1		9.02	Whole-house fan with insulated cover
2	x	9.03	Exhaust fans for cooktop/stove and any rooms with a tub or shower are vented to exterior (to daylight)
2	x	9.04	Bathroom exhaust fans are connected to timer or humidistat
2	x	9.05	Recessed-can lighting fixtures do not break through the thermal enclosure; OR no recessed-can fixtures
3	x	9.06	At least 5 Energy Star electrical fixtures installed (lights, ceiling fans) www.energystar.gov
2	x	9.07	Exterior light fixtures are designed to reduce up-lighting/light pollution, or locations are shielded from above
1	x	9.08	All exterior lighting has motion detectors with photocell controllers, or is solar-powered
5	x	9.09	Solar photovoltaic (PV) power system installed: 1.5 kW minimum System size:
2		9.10	Homeowner participates in the Austin Energy Power Partner Program (must be verified) www.austinenergy.com
1		9.11	Homeowner participates in the Austin Energy GreenChoice Program (must be verified) www.austinenergy.com

SECTION 10: INTERIOR CONSTRUCTION AND FINISHES

1	x	10.01	Interior moulding is finger-jointed or MDF
2		10.02	OR Interior moulding is reused, locally milled local species, or FSC-certified wood
2	x	10.03	Cabinet material (boxes, doors, drawers) meets E1 standard or has no added urea-formaldehyde
2		10.04	At least 75% of all cabinet faces are reused; locally milled local species; or FSC-certified wood
2		10.05	At least 75% of all doors are reused; 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)
2		10.07	Finish flooring is durable material for a minimum of 50% of all floor area (e.g. ceramic tile, concrete, wood)
4	x	10.08	OR Flooring is 100% durable material
2	x	10.09	Flooring is rapidly renewable or reused 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 www.carpet-rug.com
1	x	10.11	Interior wall and ceiling paint has maximum VOC level of 100 grams per liter
3		10.12	OR Interior wall and ceiling paint has maximum VOC level of 10 grams per liter
2		10.13	Cabinet, millwork and floor finishes are Green Seal approved www.greenseal.com
1		10.14	Doors have lever handles
2		10.15	Grab bars installed in tub and shower of at least one bathroom
1	x	10.16	Carbon monoxide detector installed

SECTION 11: SITEWORK AND LANDSCAPING

2	x	11.01	Porch decking material is recycled-plastic/composite lumber and/or patios are concrete or masonry
2		11.02	Existing natural vegetation retained on \geq 50% of pervious cover area
4		11.03	No turfgrass installed or planned (See Rating Guide)
2	x	11.04	OR Turfgrass/lawn area does not exceed 50% of pervious cover area
2	x	11.05	Turfgrass/lawn in full sun is GBP-approved low-water variety (e.g. common bermuda, zoysia japonica, buffalo)
3	x	11.06	New plants from current Grow Green plant or WaterWise lists (minimum 90% all plants; \geq 7 plants) www.growgreen.org
2	x	11.07	Plant-based mulch covers all planting beds to a 2" minimum depth (11.06: www.ci.austin.tx.us/watercon/landscap)
4	x	11.08	Turfgrass areas have at least 6" of soil containing 25% compost (e.g. Dillo Dirt)
2	x	11.09	Planting beds have at least 6" of soil containing 25% compost (e.g. Dillo Dirt)
1		11.10	All new plants, shrubs and trees have trunk, base or stem located at least 36" from foundation
2	x	11.11	Trees are protected with fencing at the <u>drip line</u> ; or a tree protection plan by a professional arborist is followed
2		11.12	Rainwater harvesting: 110-600 gallons storage
3		11.13	OR Rainwater harvesting: 601-2,000 gallons storage
4		11.14	OR Rainwater harvesting: 2,001 or more gallons storage

SECTION 12: ADDITIONS AND INNOVATIONS (points to be determined by GBP)

		12.01	Induction Cooktop for very efficient cooking
		12.02	Outdoor built-in kitchen with gas grill and gas single burner to reduce cooling load in summer months
		12.03	
		12.04	
		12.05	
		12.06	
		12.07	

12.08	12.09	
12.09		