	DING		AVSTO
PRE-SUBMITTAL WORKSHEET 201	3.0	Stars Achieved	No Stars
STAR LEVELS	POINTS	RATING RESU	JLTS
PRESCRIPTIVE		Total Dainta	0
1 Star \star Basic Requirements (BR)	None	Total Points	U
2 Stars ** BR + 2-Star Requirements + points	25	Basic Requirements	Not Fulfilled
3 Stars *** BR + 3-Star Requirements + points	50	2-5 Star Special Requirements met	No Stars
4 Stars **** BR + 4-Star Requirements + points	75	Square feet per ton of cooling	
5 Stars + + + + BR + 5-Star Requirements + points	100	TCV score	0
This form is for planning and field use (not a legally-binding document). Use online Rating to submit actual Ra	only ting.		
INSTRUCTIONS TO SUBMITTER (ARCHITECT/DESIGNER OR BUILDER)			
1. Use this Excel document as a design, specification a	and pre-rati	ingsubmittal tool.	
Consult with your Rater and the "Guide to the Single-Family	Rating 2013	' for help.	
Basic Requirements must be met for all Ratings for new construction. Exceptions may be made for renovations.			
2. When starting the design please begin the online rating process.			
3. You will be charged a service fee of \$50 for each rati	ng.		
After an online rating application has been accepted, you wi	ll be sent an	invoice.	
You must make payment to Austin Energy before your rating	g can be com	pleted.	
4. If your project is located outside the AE service area but is inside the Extended Rating Area: You must work with an Extended Area Rater (see www.greenbuilding.austinenergy.com for information). Use the online rating, just as for ratings in the AE service area.			
See "Guide to the Single-Family Rating Place an x in each vellow box at left an	for explan d fill in other	ations of all measures.	
All Basic Requirements must be	checked for	a home to rate.	

REQUIRED				
Codes and testing				
	Modeling score (applies only to new-construction, detached homes) Minimum IC3-Austin score required in 2013 is 0.0.			
	OR minimum HERS score required in 2013 is 70			
	Current City of Austin IRC, IECC Codes and Amendments must be met, regardless of project location			
	IRC. with Austin amendments			
	IECC with Austin amendments			
	UPC with Austin amendments			
	Including Austin Irrigation Design Criteria			
HVA	C efficiency and design			
	Cooling and heating equipment and duct sizing determined by correct Manual J and D calculation			
	based on orientation, plans and specifications			
	a Use ACCA Manual J inputs for Mechanical Equipment Sizing for nomes in the AE service area and appropriate ACCA inputs for other climate areas. Equipment installed must match calculation.			
	b If correct Manual J calculation results in fewer than 600 sf of living space per ton of cooling,			
	the design is inappropriate for Central Texas and the home will not be rated.			
	d Home design and construction must accommodate the selected equipment and the correctly sized and insulated ductwork.			
	e Submit full Manual J and D Report with equipment specified; split-system equipment must be an AHRI match.			
	f Submit AHRI certificate for split system <i>installed</i> . For mini/multi-split or alternative system, submit website printout.			
	Cooling and heating equipment minimum efficiency for split systems:			
	Cooling: 15 SEER/12 EER; Heating: gas furnace 80 AFUE; heat pump 8.2 HSPF			
	Air nandlers must meet the Fionda building code, Section 13-610.2.A.2.1 standard; see manufacturer's specifications.			
	Ductwork system is masked / sealed at supplies and returns during construction			
	Ceiling registers: curved blade-typefixed or adjustable; wall registers may be flat-blade, installed/adjusted to direct airflow across ceiling			
Insul	ation installation			
	Insulation installation meets Energy Star Grade I + No added urea formaldehyde; sealing of thermal enclosure/envelope meets current IECC standard for limiting air infiltration			
Skyli	ghts			
	No skylights into conditioned space OR any skylights installed meet current Energy Star criteria for SHGC and U-factor			
Indo	or environmemtal quality			
	Exhaust fans venting to outside for cooktops and bathrooms with tub or shower Kitchen exhaust that equals or exceeds 400cfm has make-up air provided			
	Bathroom exhaust fans are connected to timer or humidistat (not motion-sensor); recommended sone rating: \leq 1.0			
	Low-VOC interior wall and ceiling paint: VOC <50 grams per liter or is CoA recycled paint;			
	Carbon monoxide detector installed, exceptions include; no gas appliances, detached garages (may be combined with smoke detector)			
Elect	rical			
	Energy Star appliances / fixtures ≥4 from following list: appliances, ventilation fans light fixtures, ceiling fans			
	Ceiling fans: minimum of 2 installed within heated and cooled space			
Land	scaping			
	Planting beds have a minimum depth of 6" of soil containing 25% compost (such as Dillo Dirt) and minimum depth of 2" organic mulch			
	A minimum of 90% of new plants are from current Grow Green plant list			
	All Basic Requirements Fulfilled			

Star Requirements Points for Measure

B. Measures For Points Place an x in the yellow column to the left of the measures you intend to select

	EDUCATION		
1. Gr	1. Green Building education		
5		Green Boots Graduate: Applicant is a certified graduate of Green Boots, additional points available for each trade who attends the trade specific Green Boots session	
3		Green By Design attended by professional: AEGB Green by Design workshop attended by member of current design +/or builder staff	
3 2 To	am doc	Green by Design attended by homeowner: AEGB Green by Design workshop attended by homeowner before home plans are finalized	
2. 10		Documented design team meeting held in design stage: team includes owner, architect/designer, builder, mechanical contractor	
- 3. Ho	meown	er Training manual	
5		Homeowner training manual	
		SITE	
1. Der	nsity		
4		Lot has more than one dwelling unit	
3		Lot size is less than 5,750 sq. ft.	
2. Cor	nmunit	y	
3		Street, electricity, water and wastewater have been in place for a minimum of 25 years Public transit stop is within a 1/4 mile walk	
2		Food store is within a 1/2 mile walk	
2		Four or more community resources within a 1/2 mile walk (public park/trail, school, post office, community center/daycare/community garden)	
3. Rai	n gutte	rs - Four Star Requirement	
3		Complete gutter and downspout system directs stormwater away from foundation to landscaping or catchment system	
⁴ 3		OR Alternative rain water management system to direct water off of the roof and away from the building onto a non-splatter pervious surface.	
4. Site	Work	and Landscape	
3		Site work diverts water to onsite infiltration- retaining walls, berms, french drains to a rain garden, vegetated filter strip, swale, or detention pond	
2		Permeable materials- used for a minimum of 25% of driveways, parking areas, walkways, and patios; not installed over impermeable base - excluding decomposed granite	
2		Light pollution- All exterior light fixtures are designed to reduce up-lighting/light pollution; or fixture locations are shielded from above Exterior lighting- All exterior lighting has motion detectors with photocell controllers	
1		Landscaping- All new plants, shrubs and trees have trunk, base or stem located at least 36" from foundation	
5. Ou	tdoor li	iving	
4		Built-in outdoor kitchen	
3		Built-in outdoor fireplace (no indoor fireplace installed)	
3		Plumbed outdoor shower Covered, usable front porch protects entry door (minimum depth: 6': minimum area: 100 sf)	
2		Covered, usable porch other than front porch (minimum side dimension: 6'; minimum area 100 sf)	
1		One of the above porches is fully screened	
1		Uncovered patio (minimum side dimension: 6'; minimum area 150 sf)	
		ENERGY	
1. Atti	c syste	ms Cleased/acaled attic systemy unverted, polywrathons form insulation at reaf, minimum 5.5" depth	
2		Recessed-can lighting fixtures do not penetrate the thermal enclosure: OR no recessed-can fixtures are installed	
1		Vented attic system: continuous ridge and continuous soffit vents; no other functioning vents installed	
2. Ins	ulation	and thermal bridging - Four Star Requirement	
3		"Total fill" insulation in walls (blown cellulose, BIBS, spray foam) AND ≥ R-2 exterior sheathing (corner-brace sheathing excepted);or 2 x 6 exterior framing total fill or SIPs	
4 2		OR R-2 or greater exterior insulation	
1		OR Insulated headers are sized for the loads they bear; no headers in non-load-bearing wall	
0		OR the building is a remodel	
3. Ro	of sola	r reflectance - Five Star Requirement	
5 2		Roofing solar reflectance + Solar Reflectance Index (SRI): slope >5/12= <u>>0.20/16</u> ; <u>>3/12<5/12</u> : <u>>0.30/30</u> ; <3/12: <u>>0.55/64</u>	
4. Ov	erhang	S and glazing	
3		Glazing on east and west walls combined does not exceed 25% of total glazing area; glazing on west wall does not exceed 10% of the west wall; and	
3		glazing on east wall does not exceed 10% of the east wall (calculations must be provided)	
3		Total glazing area is no greater than 15% of conditioned floor area	
2		All roof overhangs project a minimum of 24" horizontally	
2		Shading of burner spaces on west/sournwest waits of living space for at least 50% of wall area (e.g. porch, pergola, garage, closets) Window and exterior door glass: -< 0.30 U-Factor	

5. Mecha	nical within the thermal envelope - Four Star Requiremnt			
4 5	All duct work and indoor cooling equipments is located within the thermal enclosure/envelope; OR home has no duct work			
4 3	OR Indoor cooling equipment is located within the thermal enclosure/envelope, Duct work is located in the attic, R-40 attic insulation, and Duct leakage			
	of < 2 CFM per 100sf			
6. High p	erformance systems			
5	Whole-house, inverter driven mini- or multi-split heating and cooling system			
4	Variable-capacity compressor			
2	Dual capacity compressor			
2	Variable-speed air handler			
2	Ground source heat pump			
7. Water	heater efficiency - 3 Star Requirement			
5	Water heater is solar thermal; meets Austin Energy requirements			
4	OR Water heater is integral heat pump; minimum efficiency: 2.0 EF			
2	OR Gas water heater is tankless/on-demand; minimum efficiency: 0.82 EF			
3 2	OR Gas water neater is sealed-combustion/direct vent model; minimum efficiency: 0.80 EF (Energy Factor)			
2	OR Energy Star rated gas tank			
0	OR in high as is a variable in high-oi way.>40 Gallon electric while >.94 EF			
8. Contro	bis and monitoring - Five Star Requirement			
5	Complete energy management monitoring and control system, Austin Energy Power Partner preferred			
5 3	OR Prug and play monitoring system, includes smart appliances			
1	OR The report the sinternet connected approved thermostat			
0	UK I nermostat has integral hygrometer or humidistat (or fixed stand-alone)			
9. Comm	issioning: blower door, duct blaster			
3	Blower door test performed results in envelope leakage no greater than 3 ACH50			
3	Fresh air commissioning / testing for exhaust fans: +20% 50 cfm for Bath and 100 CFM for Kitchen exhaust			
10. Fans,	lighting, and additional Energy Star appliances			
4	Occupancy sensors control <a>50% of interior lighting			
3	Energy Star Advanced Lighting Package requirements met			
3	90% LED lighting			
1	Energy Star appliances/fixtures: ≥2 in addition to 4 of Basic Requirements			
11. Solar	ready / photovoltaic systems / EV Charging			
5	Solar photovoltaic (PV) power system: minimum of 2.5 kW			
2	OR Home is wired as solar-ready with roof area >400 sf: oriented within 75 degrees of due south, unshaded, no penetrations, 9:12 max pitch			
2	Electric car charging station installed			
1	OR Dedicated 240 volt outlet for future electic car charging			
	WATER			
1. Water	heating design - Four Star Requirement			
4 4	>R-4 insulation of hot water lines located outside the thermal envelope/enclosure and in exterior walls			
	And/OR Plumbing runs- All water heaters in 1-story home are located within 20 piped feet of appliances +/or fixtures they serve: 30 piped feet for 2-			
4 3	story			
4 3	And/OR Push-button on-demand, hot-water recirculation system (not continuously recirculating; not motion-activated)			
2. Indoor	water conservation			
3	All shower heads have maximum flow of 1.5 gallons per minute: no more than one shower head per shower or tub			
2	All bathroom sink faucets are WaterSense models			
2	Toilet is ultra HET model			
3. Turfora	ss and irrigation - Four Star Requirement			
Jangia	Any installed irritation system must include water-efficiency features listed in Rating Guide			
4 3	AND Turfgrass area installed or planned does not exceed 2000 sg. ft.or equal to the foot print of the house or uses Water Sense			
4 Auvilia	rv water			
5	Rainwater is sole source of potable water: 20 000 gallon minimum storage: back-up well allowed			
5	Auxiliary harvesting: >5.001 gallons storage			
4	OR auxiliary water harvesting: 1001-5.000 gallons storage			
3	OR auxiliary water harvesting: 501-1.000 gallons storage			
1	OR auxiliary water harvesting: 110-500 gallons storage			
	MATERIALS AND RESOURCES			
1 CWM				
3	Minimum 50%-by-weight of waste is recycled/reused not landfilled: documentation required			
2 3	OR Construction waste management plan, approved by Rater at commencement of project: documentation required			
2 Durahl	e finished floor - Four Star Pequirement			
4	Flooring is 100% durable material for a minimum 50% of all floor area (a grapmic tile concrete wood) and All non-dwahle flooring installed in seci-			
2	renewable or CRI Green Label			
3 Recivel	Provided and rouse of existing buildings and materials			
	Project is renovation of and/or addition to existing home			
5	OR Existing home removed from site is relocated for use at another site			
4	OR existing home removed from site is deconstructed and materials are >75% reclaimed/reused (not landfilled)			

4. Dur	4. Durable, locally sourced, and recycled materials				
2		Roofing: metal or tile			
2		Significant use of reclaimed/reused materials, such as doors, hardware, flooring, trim			
2		Use of recycled-content products			
2		Decking material of raised porch/deck is recycled-plastic/composite lumber			
2		Use of local materials/products for major elements of the home; harvested or manufactured within 500 miles			
5. Ho	use size				
4		Less than 900 s.f			
3		OR Less than 1200 s.f.			
2		OR Less than 1500 s.f.			
6. Fra	aming				
2		Exterior wall framing is 24" o.c.			
1		Interior wall framing is 24" o.c.			
1		2-stud corners and ladder blocking, drywall clips			
7. Pe	st control	- Three Star Requirement			
3 2		All wood framing is treated with borate to a minimum of 3 feet above the foundation			
2		AND/OR Mechanical-barrier termite control system is used			
		INDOOR ENVIRONMENTAL QUALITY			
1. Me	chanical	ventilation - Four Star Requirement			
4		ERV (enthalpy recovery ventilator) with dedicated duct system			
3		OR Mechanical ventilation with automatic damper, timer, humidity, and temperature controls provides fresh air into return-air plenum			
2. Nat	ural venti	lation and daylighting			
3		Designed, effective stack ventilation: operable windows in cupola, clerestory or top of stairwell			
2		Windows are designed for daylighting: placed high on walls, not requiring privacy treatment			
2		Designed, effective cross-ventilation: operable windows in main living areas			
1		Energy Star tubular daylighting device/solar tube: spaces lacking natural lighting have an Energy Star tubular day-lighting device/solar, such as internal			
-		stairwell, powder room			
3. IEC	design:	garages and fireplaces			
3		No fireplace is located within conditioned space			
2		HVAC filter: \geq 4 ⁻ pleated-media, or electronic (not electrostatic); easily accessed; HVAC system designed for filter type			
3		Garage is detached from the house or house has no garage			
2		OR attached garage is thermally broken and air-sealed from conditioned living space			
1		OR Attached garage has exhaust fan with timer or passive vents installed 18" above floor			
4. Fin	ishes				
3		Cabinet materials + adhesives: a) meet E1Standard; or b) CARB Phase I Standard; or c) have no added urea-formaldehyde			
2		Interior wall and ceiling paint has maximum VOC level of 10 grams per liter			
1		Dedicated kitchen recycling center; approved by Rater			
5. Un	iversal de	sign			
3		Home incorporates other barrier-free/universal design/ADA elements: MUST SELECT 5 OF 15 OPTIONS IN GUIDE TO MEET MEASURE			
2		Basic access to house provided according to City of Austin Visitability Urdinance			
2		All interior doors are 2-6° or wider (doors to non-walk-in closets excepted)			
1		Grab bars installed in tub +/or shower of at least one bathroom			
1		Grab blocking install at all tubs and showers; ADA compliant			
		I oliet in at least one bath/powder room is WaterSense ADA model (located on entry-level floor; >2'-8" door width)			
	ADDITIONS AND INNOVATIONS				
		Describe other green measures incorporated in this project. Your AEGB Rater will determine points.			
	1				
	2				
	3				