SCOTTSDALE GREEN BUILDING CHECKLIST - TIER 1

area.		Review		Cert. of Compl.	M7. <u>Ducts</u> (exclu
OPERATION AND MAINTENANCE	Tier 1	Ver	rificatio	on	a) <u>Duc</u>
120. <u>A homeowner's manual shall be provided including the following</u> : a) City supplied Green Certificate of Occupancy.		Plan Review		Cert. of Compl.	b) Duc spa
 b) Copy of signed Green Certificate of Compliance. c) List of green building measures (including green building checklist items). 					M8. Every
d) Product literature and maintenance instructions for materials and finishes.					pantrie inlets, t
 e) Manufacturer's operation and maintenance manuals for equipment, fixtures and appliances. 					M9. All <u>ba</u>
 f) Operations & maintenance documentation for whole-house ventilation including: i. Date installed and serviced 					shall b therma
ii. Installer's name and contact information					M10. Insta
iii. Description of system: ventilation system type, manufacturer, model number, components, operation controls, location					mainta design
iv. Whole-house ventilation worksheet					located
 v. Operating instructions and schedule (frequency and duration of each cycle) vi. Performance test: testing protocol and test results including measured airflow rate 					withou mecha
vii. Required maintenance including but not limited to air filter MERV rating and replacement interval					bypass
g) Listing and contact information of vendors and contractors.					M11. <u>Duc</u> shall b
 A diagram showing the location of safety valves and controls for major building systems including electrical panels, water shut-off valves, sewer diverter valves and clean-outs. 					M12. Insta habitat
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Tier 1

SOLID WASTE

Verification

HEATING, COOLING, VENTILATI	ON	Tier 1	Veri	fication	SCOTTSDALE City of Sco	ottsdale				
ts and air handlers shall be located entirely within the building thermal envelope			Plan Review	Cert. of Compl.	One- and Two-Fan	•				
cluding underground return ducts) and not located ins uct seams and connections shall be sealed with wate			Review		Green Rating					
ucts shall be insulated with min. R-4.2, where located	d within a semi-conditioned				New Construction, Major F					
bace such as an unventilated cathedralized attic (insu	ulation at roof deck).				Version 5.0 (Jar Plan Check # Building	g Permit #	GB	Rating		
ry habitable room with a door (not including bathroon	ns. kitchens. closets.		Plan	Cert. of	Project or Owner's Name:			0		
ies, and laundry rooms) shall have a return air path t			Review	Compl.	Project Address:					
, transfer grills and/or jumper ducts.					GREEN BUILDING Architect / Designer Name:					
<u>athroom exhaust fans</u> shall be Energy Star certified. be equipped with a motorized or back-draft damper,			Plan Review	Cert. of Compl.	PROGRAM Builder Name:					
nal barrier.					Use this rating worksheet to qualify projects under the Green Buildi	ng Program for one an	d two famil	, dwellings a	and mult	inlo
tall air filters with a min. MERV rating of 11. Ensure	air handlers are designed to		Plan	Cert. of	single-family dwellings (townhouses) not more than three stories					
tain adequate pressure and air flow. Filter locations shall be labeled with the gn airflow and maximum allowable clean-filter pressure drop. Filters shall be ted and installed so as to facilitate access and regular service by the owner			Review	Compl.	Residential Code - IRC Section R101.2).					
					All building system components, materials, and equipment must be	installed per code and r	manufacture	er's instructio	ns.	
ut special tools. Filter access panels shall include ga	sket or comparable sealing				Tier 1 - Baseline GB DesignationTier	Tier 2 - Adv	vanced GB	Designatio	n	
anism and fit snugly against the exposed edge of filt ss.	er when closed to prevent				Meet all <u>20 mandatory measures</u> (Tier 1).	Meet all 20 mandator	y measures	(Tier 1).		
	unter a cita a su la la succe face			Cort of		Accumulate at least 2		. ,	options i	in the
<u>icts shall be sealed off</u> during construction <u>OR</u> the dube cleaned before occupancy.	ucts, colls and blower fan			Cert. of Compl.		checklist (Tier 2).				
tall electrical ceiling boxes for Energy Star certified of	ceiling fans in at least 50% of		Plan	Cert. of			la Deinte			
able rooms (e.g living room, dining room, study, be			Review	Compl.	Advanced Level - Rating Categories					
rages shall be meet one or more of the following:			Plan	Cert. of	1. Site 14 pts 6. Lighting and Powe 2. Structural Elements 22 pts 7. Diversion System	· · ·		abinetry, Trir		12 pts
stall a carbon monoxide (CO) <u>alarm</u> inside the house			Review	Compl.	2.Structural Elements22 pts7.Plumbing System3.Energy Rating/Renewables39 pts8.Roofing	•	. Flooring . Solid Wa	ste		15 pts 12 pts
erify (test) that the garage-to-house air barrier will ma	•				3. Energy Rating/Renewables39 pts8. Rooting4. Thermal Envelope8 pts9. Exterior Finishes	•	. Solid wa			varies
greater than 45 Pascals while the home maintains a fference with respect to the outdoors.	i ou mascal pressure				5.HVAC16 pts10.Interior Finishes	I	. Innovativ			8 pts
ovide at least a 70 cfm non-ducted exhaust fan or at					TIER 1 - BASELINE MANDATORY MEASUR	FS	LEVEL		FICATIO	אר
haust fan with automatic timer control linked to a light switch, occupant sensor, rbon monoxide sensor, or garage door opening/closing device. The timer shall						20		Blan	City	JN 3rc
e set to provide at least three air changes each time t	he fan is turned on. Balance				SITE		Tier 1 Tie	r 2 Review	Insp.	Part
e exhausted air with outside make-up air through a s etached or no garage.	creened opening.				M1 a) All <u>primary exterior entrances</u> shall be protected from direct s exposures (east, west, south) with recessed or covered elem			Plan Review		Cert. Com
					b) At least 50% of site hardscape (e.g. walkways, patios, playge					Com
LIGHTING AND APPLIANCES		Tier 1		fication	courts, driveways, parking areas) shall be provided with one					
sign and install <u>individually switched task lighting</u> in a s (e.g bathroom vanity, kitchen counter, laundry).	at least 3 separate task		Plan Review	Cert. of Compl.	following: 1) Light colored surface with a minimum solar reflectance in	dev (SPI) of 20				
					 2) Permeable paving system with an open-graded engineer 	· · ·				
<u>stalled appliances</u> (refrigerator, freezer, dishwasher, clothes washer, clothes r) shall be Energy Star certified (www.energystar.gov/products).			Plan Review	Cert. of Compl.	accommodate drainage and migration of water (e.g., - per					
		Tion 4			pavers, pervious concrete, porous asphalt)3) Stabilized decomposed granite (open-graded uniform-sized)	ed angregate)				
PLUMBING		Tier 1		fication	c) At least 80% of improved landscape shall be Xeriscape with					
<u>chen faucets</u> shall have a max. flow rate of 1.8 gallou ets may temporarily increase the flow rate to 2.2 gpm	•		Plan Review	Cert. of Compl.	plants and a non-sprinkler type irrigation system (e.g drip or	•				
et default setting for the max. 1.8 gpm).	whom there is an integral				d) Divert roof run-off to landscape areas via roof edge, gutters, of					
			Plan	Cert. of	scuppers, grading, swales and micro-basins.					
<u>ater treatment systems</u> . /here installed, water softeners shall be equipped wi	th demand-initiated		Review	Compl.	e) Where installed, <u>landscape irrigation systems</u> shall meet the	•				
generation control systems and have a max. water c	consumption during				 Shall be divided into zones to regulate water needs based soil, exposure, and other factors (e.g., ground cover, shru 	•				
egeneration of 4 gallons per 1000 grains of hardness ertified in accordance with NSF/ANSI 44 (cation exch					separate valves).					
ater softeners shall use potassium rather than sodiu	m. Devices that use				2) Shall be provided with a moisture sensor or weather-base	ed smart controller.				
uto-initiated regeneration on a fixed time schedule wi equirements.	II not meet these				ENERGY RATING & RENEWABLE ENERGY	(Tier 1	Ver	ification	n
/here installed, reverse osmosis treatment systems	shall be listed and labeled in				M2. Comply with one or more of the following energy efficiency rati	ng options:		Plan		Cert.
ccordance with NSF/ANSI 58 and shall be equipped	with an automatic shut off				a) <u>ENERGY STAR</u> for Homes certification (version 3.1);			Review		Com
alve that prevents the production of reject water when eated water. Such systems shall yield at least 85 gal					 b) Maximum <u>HERS index</u> rating of 52; c) <u>REScheck compliance</u> report demonstrating a minimum 5% 	improvement over the				
ach 100 gallons of water processed.					c) <u>REScheck</u> compliance report demonstrating a <u>minimum 5%</u> 2015 International Energy Conservation Code (IECC).					
INTERIOR FINISHES		Tier 1	Veri	fication		the offlat raction		Plan		Cert.
erior paints, coatings, adhesives and sealants shall i	meet the following VOC		Plan	Cert. of	M3. Provide a <u>solar-ready zone</u> by designating not less than 500 so sloped roof area that is oriented between 110 degrees and 270			Review		Cert. Com
ile organic compound) content limits in grams/liter:			Review	Compl.	Provide a 1" electrical conduit from the electrical service panel a	nd/or a 1" insulated				
Interior Paints, Coatings, Adhesives and Sealants	VOC Limits grams/liter				water line loop from the water heater storage area to the solar red demonstrate a minimum 20% improvement over 2015 IECC.	eauy zone. <u>Or</u>				
Vall and Ceiling Paints	Flat: 50						Time			
	Nonflat: 100 Nonflat high-gloss: 150				THERMAL ENVELOPE		Tier 1		ification	
•	100				M4. Ceiling/roof insulation shall comply with one of the following:	adheeive hinder)		Plan Review		Cert. Com
					a) Provide <u>unventilated attic with spray applied insulation</u> (with installed at underside of roof sheathing (batt is not acceptable)					- 0111
rimers, Sealers & Undercoaters	100				purposes of this requirement when installed at the underside	of roof sheathing).				
rimers, Sealers & Undercoaters loor Coatings concrete and Masonry Sealers	100				 b) b) Provide <u>ventilated attic with batt</u>, blown-in or foam insulation of attic space with a radiant barrier at underside of roof sheat 					
rimers, Sealers & Undercoaters loor Coatings concrete and Masonry Sealers tains	100 250									0.5.1
Primers, Sealers & Undercoaters Ioor Coatings Ioor Coatings Ioor Coatings Concrete and Masonry Sealers Ioor Coatings Itains Ioor Coatings	100					-			. lé	Cert.
Primers, Sealers & Undercoaters	100 250 275				M5. Where permitted by zoning and HOA rules, <u>low-slope roofs</u> (le in 12 pitch) shall have a minimum three-year-aged Solar Reflect	ss than or equal to a 2		Plan Review		Com
Primers, Sealers & Undercoaters Ioor Coatings Ioor Coatings Ioor Coatings	100 250 275 50				in 12 pitch) shall have a minimum three-year-aged Solar Reflect 64 as measured in accordance with the Cool Roof Rating Counc	ss than or equal to a 2 tance Index (SRI) of				Com
Primers, Sealers & Undercoaters Ioor Coatings Ioor Coatings Ioor Coatings Stains Ioor Coatings Vood Coatings Ioor Coatings Carpet and carpet pad adhesives Ioor Coating adhesives Vood flooring adhesives Ioor Coating adhesives	100 250 275 50 65 100 50				in 12 pitch) shall have a minimum three-year-aged Solar Reflect	ss than or equal to a 2 tance Index (SRI) of				Com
Primers, Sealers & Undercoaters Ioor Coatings Ioor Coatings Ioor Coatings Concrete and Masonry Sealers Ioor Coatings Itains Ioor Coatings Vood Coatings Ioor Coatings Carpet and carpet pad adhesives Ioor Coatings Ceramic tile adhesives Ioor Coating adhesives Vood flooring adhesives Ioor Coating adhesives Prywall and panel adhesives Ioor Coating adhesives	100 250 275 50 65 100 50 100 50 100 50 100				in 12 pitch) shall have a minimum three-year-aged Solar Reflect 64 as measured in accordance with the Cool Roof Rating Counc	ss than or equal to a 2 tance Index (SRI) of	Tier 1	Review		
Primers, Sealers & Undercoaters Primers, Sealers & Undercoaters Floor Coatings Primers, Sealers & Primers Concrete and Masonry Sealers Primers, Sealers & Primers Stains Primers, Sealers & Primers Vood Coatings Primers, Sealers & Primers Carpet and carpet pad adhesives Primers, Sealers & Primers Carpet and carpet pad adhesives Primers, Sealers & Primers Coord flooring adhesives Primers, Sealers & Primers Prywall and panel adhesives Primers, Sealers & Primers Structural glazing adhesives Primers, Sealers & Primers Aultipurpose adhesives Primers, Sealers & Primers Architectural sealants Primers, Sealers & Primers	100 250 275 50 65 100 50				 in 12 pitch) shall have a minimum three-year-aged <u>Solar Reflect</u> 64 as measured in accordance with the Cool Roof Rating Counce or otherwise qualify as an Energy Star certified roof. HEATING, COOLING, VENTILATION M6. Cooling and heating systems shall consist of one or more of the systems is a start of the systems of the systems is a start of the systems of the systems is a start of the systems of the systems is a start of the systems of the sy	ss than or equal to a 2 tance Index (SRI) of cil standard (CRRC-1) e following:		Review Ver Plan	ificatio	n Cert.
Primers, Sealers & Undercoaters Image: Concrete and Masonry Sealers Concrete and Masonry Sealers Image: Concrete and Masonry Sealers Stains Image: Concrete and Masonry Sealers Vood Coatings Image: Concrete and Concr	100 250 275 50 65 100 50 100 70				 in 12 pitch) shall have a minimum three-year-aged <u>Solar Reflect</u> 64 as measured in accordance with the Cool Roof Rating Count or otherwise qualify as an Energy Star certified roof. HEATING, COOLING, VENTILATION M6. Cooling and heating systems shall consist of one or more of th a) <u>Energy Star certified</u> air-source heat pumps (or air conditioned) 	e following: ers) with variable	Tier 1	Review Ver	ificatio	n Cert.
Primers, Sealers & Undercoaters Image: Concrete and Masonry Sealers Concrete and Masonry Sealers Image: Concrete and Masonry Sealers Stains Image: Concrete and Masonry Sealers Vood Coatings Image: Concrete and Concr	100 250 275 50 65 100 50 100 70				 in 12 pitch) shall have a minimum three-year-aged <u>Solar Reflect</u> 64 as measured in accordance with the Cool Roof Rating Count or otherwise qualify as an Energy Star certified roof. HEATING, COOLING, VENTILATION M6. <u>Cooling and heating systems</u> shall consist of one or more of the a) <u>Energy Star certified</u> air-source heat pumps (or air conditioned speed air blower fan, and dual-speed or dual-capacity compression) 	e following: ers) with variable	Tier 1	Review Ver Plan	ificatio	n Cert.
Primers, Sealers & Undercoaters Image: Concrete and Masonry Sealers Concrete and Masonry Sealers Image: Concrete and Masonry Sealers Stains Image: Concrete and Masonry Sealers Vood Coatings Image: Concrete and Concr	100 250 275 50 65 100 50 100 70				 in 12 pitch) shall have a minimum three-year-aged <u>Solar Reflect</u> 64 as measured in accordance with the Cool Roof Rating Count or otherwise qualify as an Energy Star certified roof. HEATING, COOLING, VENTILATION M6. Cooling and heating systems shall consist of one or more of th a) <u>Energy Star certified</u> air-source heat pumps (or air conditioned) 	e following: ers) with variable	Tier 1	Review Ver Plan	ificatio	Com n Cert. Com
Primers, Sealers & Undercoaters Ioor Coatings Ioor Coatings Ioor Coatings Concrete and Masonry Sealers Ioor Coatings Itains Ioor Coatings Vood Coatings Ioor Coatings Carpet and carpet pad adhesives Ioor Coating adhesives Vood flooring adhesives Ioor Coating adhesives Prywall and panel adhesives Ioor Coating adhesives Iultipurpose adhesives Ioor Coating adhesives	100 250 275 50 65 100 50 100 70				 in 12 pitch) shall have a minimum three-year-aged <u>Solar Reflect</u> 64 as measured in accordance with the Cool Roof Rating Count or otherwise qualify as an Energy Star certified roof. HEATING, COOLING, VENTILATION M6. <u>Cooling and heating systems</u> shall consist of one or more of the a) <u>Energy Star certified</u> air-source heat pumps (or air conditioned speed air blower fan, and dual-speed or dual-capacity compression) <u>Ground-source</u> or <u>water-source</u> heat pumps. 	e following: ers) with variable ressor.	Tier 1	Review Ver Plan	ificatio	n Cert.

24x36 Sheet 1/8" Text Tier 1