2011

1	A bill to be entitled	
2	An act relating to energy conservation standards; amending	
3	s. 553.955, F.S.; defining the terms "ballasted roof,"	
4	"cool roof," "hardscape," "heat island effect," "low-	
5	sloped roof," "pervious pavement system," "solar	
6	reflectance," and "steep-sloped roof"; amending s.	
7	553.957, F.S.; expanding the list of products covered	
8	under certain energy conservation standards to include	
9	nonresidential roofs, hardscapes, and related materials;	
10	amending s. 553.963, F.S.; providing energy conservation	
11	standards for nonresidential roofs, hardscapes, and	
12	related materials; providing exemptions; conforming a	
13	cross-reference; providing an effective date.	
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15	Be It Enacted by the Legislature of the State of Florida:	
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17	Section 1. Section 553.955, Florida Statutes, is amended	
18	to read:	
19	553.955 DefinitionsFor purposes of this part:	
20	(1) "AV" means the adjusted volume for refrigerators,	
21	refrigerator-freezers, and freezers, as defined in the	
22	applicable test procedure.	
23	(2) "Ballast" or "fluorescent lamp ballast" means a device	
24	to operate a fluorescent lamp by providing a starting voltage	
25	and current and limiting the current during normal operation. It	
26	must also be designed to:	
27	(a) Operate at nominal input voltages of 120 or 227 volts.	
28	(b) Operate with an input frequency of 60 hertz.	
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29 "Ballast efficiency factor" means the ratio of (3) 30 relative light output, expressed as a percent, to the power input, expressed in watts under test conditions. 31 32 "Ballasted roof" means a roof with a minimum of 15 (4) 33 pounds per square foot of ballast for the purpose of weighing 34 down a roofing membrane over a substrate to resist wind uplift. 35 For purposes of this subsection, ballast includes, but is not 36 limited to, river rock aggregate and pavers. (5) (4) "Code" means the Florida Energy Efficiency Code for 37 38 Building Construction. (6) "Cool roof" means a roof that reflects the sun's heat 39 and emits absorbed radiation back into the atmosphere within the 40 41 standards set forth in this part. 42 (7) (7) (5) "Date of sale" means the day when the product is 43 physically delivered to the buyer. (8) (6) "Department" means the Department of Community 44 45 Affairs. (9) (7) "Distributor" means any person or business entity 46 47 which distributes a privately labeled product on a national basis for which the specifications for manufacture, testing, and 48 49 certification are established and attested to by the 50 distributor, rather than the manufacturer. 51 (10) (8) "Energy conservation standard" means: 52 (a) A performance standard which prescribes a minimum level of energy efficiency or a maximum quantity of energy use 53 54 for a covered product, determined in accordance with applicable 55 test procedures; 56 (b) A design requirement for the products specified in s. Page 2 of 9

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57 553.957; or

(c) A testing and rating requirement for the productsspecified in s. 553.957; and

61 includes any other requirements which the department may 62 prescribe.

63 <u>(11)(9)</u> "F40T12 lamp" means a tubular fluorescent lamp 64 which is a nominal 40 watts, with a 48-inch tube, 1.5 inches in 65 diameter. These lamps conform to American National Standards 66 Institute standard C.78.1-1978.

67 (12) (10) "F96T12 lamp" means a tubular fluorescent lamp
68 which is a nominal 75 watts, with a 96-inch tube, 1.5 inches in
69 diameter. These lamps conform to American National Standards
70 Institute standard C.78.3-1978.

71 <u>(13) "Hardscape" means the nonliving portions of a</u> 72 <u>building's landscaping, including, but not limited to, roads,</u> 73 <u>sidewalks, courtyards, and parking lots.</u>

74 <u>(14) "Heat island effect" means an elevated temperature</u> 75 <u>over an urban area compared to rural areas, typically caused by</u> 76 <u>the increased presence of dark, heat-absorbing materials.</u>

77 (15) "Low-sloped roof" means a roof with a slope of a rise 78 of zero units in a horizontal length up to, and including, roofs 79 with slopes of a rise of 2 units in a horizontal length of 12 80 units.

81 <u>(16)(11)</u> "Luminaire" means a complete lighting unit 82 consisting of a fluorescent lamp or lamps, together with parts 83 designed to distribute the light, to position and protect such 84 lamps, and to connect such lamps to the power supply.

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85	(17) (12) "Manufacturer" means any person or business
86	entity engaged in the original production or assembly of a
87	product.
88	(18) (13) "New product" means a product that is sold,
89	offered for sale, or installed for the first time and
90	specifically includes floor models and demonstration units.
91	(19) (14) "Nominal input voltage" means an input voltage
92	within plus 5 percent or minus 5 percent of a specified value.
93	(20) (15) "Nominal lamp watts" means the wattage at which a
94	fluorescent lamp is designed to operate.
95	(21) (16) "Occupancy" means an occupied building or part of
96	a building.
97	(22) (17) "Operation" means the ability to start the lamp
98	at least 8 times out of 10 with a minimum of 1 minute between
99	attempts when tested under test conditions.
100	(23) "Pervious pavement system" means a porous surface
101	system with a stabilized base that allows water from
102	precipitation and other sources to pass directly through,
103	thereby reducing runoff from a site, allowing groundwater
104	recharge, and naturally cooling the surface through evaporation
105	from pavement voids beneath.
106	(24) (18) "Power input" means the rate of energy
107	consumption in watts of a ballast and fluorescent lamp or lamps.
108	(25) (19) "Relative light output" means the test ballast
109	light output divided by a reference ballast light output using
110	the same reference lamp and expressing the value as a percent.
111	(26) "Solar reflectance" means the fraction of solar
112	energy reflected by a material.
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(27) "Steep-sloped roof" means a roof with a slope of greater than 2 units in a horizontal length of 12 units.

115 (28) (20) With respect to refrigerators, freezers, and 116 refrigerator-freezers:

(a) "Automatic defrost system" means a defrost system in
which the defrosting action for all refrigerated surfaces is
initiated and terminated automatically.

(b) "Freezer" means a cabinet designed as a unit for the storage of food at temperatures of about 0 °F, having the ability to freeze food, and having a source of refrigeration requiring an energy input.

124 "Refrigerator" means a cabinet designed for the (C) 125 refrigerated storage of food at temperatures above 32 °F, and 126 having a source of refrigeration requiring an energy input. It may include a compartment for the freezing and storage of food 127 at temperatures below 32 °F, but does not provide a separate low 128 129 temperature compartment designed for the freezing of and the 130 long-term storage of food at temperatures below 8 °F. It has 131 only one exterior door, but it may have interior doors on compartments. 132

(d) "Refrigerator-freezer" means a cabinet which consists of two or more compartments with at least one of the compartments designed for the refrigerated storage of foods at temperatures above 32 °F, and with at least one of the compartments designed for the freezing of and the storage of frozen foods at temperatures of 8 °F or below. The source of refrigeration requires energy input.

140 (29) (21) Definitions used in the code shall also apply to Page 5 of 9

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141 terms used in this part. Section 2. Subsection (1) of section 553.957, Florida 142 143 Statutes, is amended to read: 144 553.957 Products covered by this part.-145 The provisions of this part apply to the testing, (1)146 certification, and enforcement of energy conservation standards 147 for the following types of new products sold in the state: 148 Refrigerators, refrigerator-freezers, and freezers (a) 149 which can be operated by alternating current electricity, 150 excluding: 151 1. Any type designed to be used without doors; and 152 Any type which does not include a compressor and 2. 153 condenser unit as an integral part of the cabinet assembly. 154 (b) Lighting equipment. (c) Showerheads. 155 156 (d) Nonresidential roofs and roofing materials. 157 (e) Nonresidential hardscapes and related materials. 158 (f) (d) Any other type of consumer product which the 159 department classifies as a covered product as specified in this 160 part. 161 Section 3. Subsection (4) of section 553.963, Florida 162 Statutes, is renumbered as subsection (6) and amended, and new 163 subsections (4) and (5) are added to that section, to read: 164 553.963 Energy conservation standards.-165 (4) STANDARDS FOR NONRESIDENTIAL ROOFS.-166 (a) This subsection does not apply to: 167 1. The repair or replacement of less than 50 percent by 168 area of a roof in existence before July 1, 2011.

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169	2. The portion of the roof acting as a substructure for
170	and covered by a rooftop deck.
171	3. Vegetation associated with an extensive or intensive
172	green roof as defined by the United States Environmental
173	Protection Agency for the purpose of reducing the heat island
174	effect.
175	4. A rooftop deck covering a maximum of one-third of the
176	rooftop total gross.
177	5. Any area utilized by photovoltaic and solar equipment.
178	(b) All roof exterior surfaces and roofing materials shall
179	have a minimum solar reflectance as certified by one of the
180	following:
181	1. ASTM E903 or ASTM E1918.
182	2. A test with a portable reflectometer at near ambient
183	conditions.
184	3. The Cool Roof Rating Council.
185	4. The United States Department of Energy's Energy Star
186	program.
187	(c) Low-sloped roofs constructed as part of a new building
188	shall use roofing products with an initial minimum reflectance
189	value of 0.72 or a 3-year installed reflectance value of 0.5 as
190	determined by the Cool Roof Rating Council or the United States
191	Department of Energy's Energy Star program. If greater than 50
192	percent of the total gross area is covered with vegetation
193	associated with an extensive or intensive green roof as defined
194	by the United States Environmental Protection Agency for the
195	purpose of reducing the heat island effect, the remainder of the
196	roof shall have a minimum solar reflectance value of 0.30.
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197 (d) Ballasted roofs constructed as part of a new building shall have a minimum solar reflectance value of 0.30. 198 199 (e) Steep-sloped roofs shall have an initial minimum solar 200 reflectance value of 0.15. 201 (f) Roofs with multiple slopes shall be subject to those 202 standards applicable to the slope that covers the largest area 203 of the building's footprint. 204 (5) STANDARDS FOR NONRESIDENTIAL HARDSCAPES.-205 (a) All hardscape surfaces and related materials shall 206 have a minimum solar reflectance as certified by ASTM E903 or 207 ASTM E1918 or a test with a portable reflectometer at near 208 ambient conditions. 209 (b) One of the following default solar reflectance values 210 for paving materials may be used: 211 1. Typical new gray concrete 0.35 212 2. Typical weathered concrete 0.20 213 3. Typical new white concrete 0.70 214 4. Typical weathered white concrete 0.40 215 5. New asphalt 0.05 216 0.10 6. Weathered asphalt 217 (c) A minimum of 50 percent of the hardscape area of a site with new construction shall comply with one of the 218 219 following: 220 1. Shade for solar panels or roofing materials with a 221 minimum solar reflectance of 0.30. 222 2. Shade from trees within 5 years of occupancy. 223 3. Paving materials with a minimum solar reflectance of 224 0.30.

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225 226 227 4. A pervious pavement system.

A minimum of 50 percent of parking spaces placed under 5. cover, underground, under deck, under roof, or under building. 228 Any roof used to shade or cover parking must have a minimum 229 solar reflectance of 0.30.

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(6) (4) STANDARDS FOR OTHER COVERED PRODUCTS.-

231 The department may prescribe an energy conservation (a) 232 standard for any type or class of covered products of a type specified in s. 553.957, except where precluded by federal law, 233 if the department determines that: 234

235 1. The average per occupancy energy use within this state 236 resulting from performance of products of such type or class 237 exceeded 80 kilowatt hours or its Btu equivalent for any 12 238 calendar-month period ending before such determination; and

239 2. Substantial improvement in the energy efficiency of 240 products of such type or class is technologically feasible.

241 The department may prescribe an energy conservation (b) 242 testing and rating standard for any type or class of covered 243 products of a type specified in s. 553.957 if the department 244 determines that the certifications to the state and uniform product labeling required by this part will improve the 245 246 enforceability of the code.

247 Any new or amended standard for covered products of a (C) type specified in s. 553.957(1)(f)(d) shall not apply to 248 products manufactured within 2 years after the publication of a 249 final rule establishing such standard. 250

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Section 4. This act shall take effect July 1, 2011.

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