

**Cool Roof Resources... to better understand highly reflective cool roofs.  
(Each of these web sites has links to many additional resources)**

Name	Description/Info	Link
Energy Star	<p>Contains basic information, links to product lists, and articles etc.</p> <ul style="list-style-type: none"> <li>• Click on “Find a Product” to find all GAF-Elk products that are Energy Star qualified</li> <li>• Answers basic questions like “Why choose ENERGY STAR reflective roofing for your building?”</li> <li>• FAQ’s... be sure to read the section on frequently asked questions</li> </ul>	<a href="http://www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products">http://www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products</a>
Cool Roof Rating Council (CRRC)	<p>Independent organization that evaluates roof products and rates reflectivity/emissivity thereof. Under <b>Resources</b>, it contains a myriad of information from building codes and rebate programs to help with contractor selection to the end user.</p>	<a href="http://www.coolroofs.org/">http://www.coolroofs.org/</a>
Database of State Incentives for Renewables & Efficiency (DSIRE)	<p>An ongoing project of the North Carolina Solar Center and the Interstate Renewable Energy Council (IREC) funded by the U.S. Department of Energy. It includes an easy-to-search database of incentives for energy efficiency (which includes roof products).</p>	<a href="http://www.dsireusa.org/">http://www.dsireusa.org/</a>
Environmental Protection Agency (EPA)	<p>This section contains useful selling points to the “green” crowd.</p>	<a href="http://www.epa.gov/heatislands/mitigation/coolroofs.htm">http://www.epa.gov/heatislands/mitigation/coolroofs.htm</a>
The California Energy Commission	<p>It provides information on new standards that will be in effect as of AUGUST 1, 2009 (mandating cool roofs on new residential buildings).</p>	<a href="http://www.energy.ca.gov/title24/2008standards/">http://www.energy.ca.gov/title24/2008standards/</a>
Cool Roof Energy Savings Calculator	<p>DOE Department of Energy Cool Roof Calculator... estimates Cooling and Heating Savings for Flat Roofs with Non-Black Surfaces</p> <ul style="list-style-type: none"> <li>• Engineering assistance may be needed</li> </ul>	<a href="http://www.ornl.gov/sci/roofs+walls/facts/CoolCalcEnergy.htm">http://www.ornl.gov/sci/roofs+walls/facts/CoolCalcEnergy.htm</a>

**Cool Roof Rebates... to assist in learning about potential tax credits and rebates for cool roofing.  
(Some rebate programs are time or geography limited and changes often. Property owners can contact their  
local utility, governmental unit, or tax advisor for assistance.)**

Description	Web Site	Comment
Federal Tax Credits for Energy Efficiency	<a href="http://www.energystar.gov/index.cfm?c=products.pr_tax_credits#chart">http://www.energystar.gov/index.cfm?c=products.pr_tax_credits#chart</a>	Energy Star qualified cool roofs [may] qualify for the tax credits up to \$1,500 per property
Process Energy	<a href="http://www.progress-energy.com/custservice/flares/energyhome/roof.asp">http://www.progress-energy.com/custservice/flares/energyhome/roof.asp</a>	Customers in North Carolina, South Carolina & Florida
The Sacramento Municipal Utility District-California	<a href="http://www.smud.org/en/rebates/cool%20roof/Pages/index.aspx">http://www.smud.org/en/rebates/cool%20roof/Pages/index.aspx</a>	Lasts until Dec. 31, 2009, or until funding is depleted. Sacramento County and Parts of Placer County
PGE – Pacific Gas & Electric	<a href="http://www.pge.com/myhome/saveenergymoney/rebates/remodeling/coolroof/index.shtml">http://www.pge.com/myhome/saveenergymoney/rebates/remodeling/coolroof/index.shtml</a>	Expires Dec. 31, 2009. Service Area... tends to be northern CA. Some other limits apply such as climate zone.

## Summary of Cool Roof Requirements/Incentives from ARMA Codes and Standards

Location	Agency	Policy Name	Description	Reflectance Requirement – Low Slope	Reflectance Requirement - Steep Slope	Emittance Requirement - Low Slope	Emittance Requirement – Steep Slope	Contact
Arizona	Arizona Energy Commission	ASHRAE / IESNA 90.-1999	Mandatory for all state owned and funded buildings	0.7	0.65	0.75	0.75	
Arkansas	Arkansas Energy Office	Arkansas Energy Code	2003 IECC for residential buildings; 2003 IECC and ASHRAE 90.1-2001 for commercial buildings	0.7	0.65	0.75	0.75	Arkansas Energy Office Commercial: Susan Recken - Phone: 501-682-7334, Email: srecon@arkansasedc.com
California	California Energy Commission	Title 24	Performance credits for inclusion of cool roofs in buildings; CRRC named as supervisory entity	0.7	N/A	0.75	N/A	Title 24 Hotline: 916-654-5106, Email: title24@energy.state.ca.us
Chicago, Illinois	Department of Buildings	Energy Conservation Code	Section 18-13-303.1 USEPA Energy Star Roofs	0.65	Medium Slope: 0.15	None	N/A	Department of Environment: Gerry Bakker - Phone: 312-744-3634, Email: en00237@cityofchicago.org
Dallas, Texas	Dallas City Council	Dallas Cool Roof Code	Comprehensive building standard for both residential and commercial construction	<50,000sf: 0.65	N/A	<50,000sf: 0.50	N/A	Phone: 214-670-6646, Email: greendallas@dallascityhall.com
Florida	Department of Community Affairs	Florida Energy Code 2004, Ch. 13	Performance-based (earn a credit) for residential buildings. CRRC recognized in code.	0.65	N/A	0.8	N/A	Main Info Line: 850-487-1824
Georgia	Department of Community Affairs	Georgia Construction Code ASHRAE / IESNA 90.1-2004	Mandatory statewide for commercial buildings	0.7	0.65	0.75	0.75	Main Info Line: 404-679-3118

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Hawaii	Hawaii Department of Business Economic Development and Tourism: Energy Efficiency	ASHRAE / IESNA 90.-1989 (mandatory in Hawaii County) and ASHRAE / IESNA 90.-1999 (Honolulu, Kauai, Maui Counties)	Mandatory in specific counties for commercial buildings	0.7	0.65	0.75	0.75	Phone: 808-587-3811, Email: <a href="mailto:hwiig@dbedt.hawaii.gov">hwiig@dbedt.hawaii.gov</a>
Louisiana	Department of Natural Resources / Technology Assessment Division	ASHRAE / IESNA 90.1-2004 (and 2006 IECC for buildings not covered by ASHRAE)	Mandatory statewide for commercial buildings	0.7	0.65	0.75	0.75	Phone: 225-342-4500, Email: <a href="mailto:info@dnr.state.la.us">info@dnr.state.la.us</a>
New Mexico	Energy, Minerals, and Natural Resources Department	ASHRAE / IESNA 90.1-2004	Mandatory statewide for commercial buildings	0.7	0.65	0.75	0.75	Fermin Aragon - Phone: 505-827-7030, Email: <a href="mailto:fermin.aragon@state.nm.us">fermin.aragon@state.nm.us</a>
North Carolina	Department of Insurance	ASHRAE / IESNA 90.1-2004	2003 IECC and Standard 90.1-2004 for non-residential buildings; IECC 2003 compliance for residential	0.7	0.65	0.75	0.75	North Carolina State Energy Office
South Carolina	South Carolina Energy Office	2006 IECC with reference to ASHRAE / IESNA 90.1-2001	Mandatory statewide for commercial and residential buildings	0.7	0.65	0.75	0.75	South Carolina State Energy Office
Texas	State Energy Conservation Office	ASHRAE / IESNA 90.1-2004	Mandatory for all state funded buildings	0.7	0.65	0.75	0.75	Felix Lopez - Phone: 512-463-1080, Email: <a href="mailto:felix.lopez@cpa.state.tx.us">felix.lopez@cpa.state.tx.us</a>
United States	ASHRAE	90.1 (commercial buildings) and 90.2 (residential buildings)	If a cool roof is used in climate zones 1, 2, or 3, the minimum requirement for insulation is reduced. CRRC is recognized as an informative reference.	0.7	N/A	0.75	N/A	Claire Ramspeck - Phone: 404-636-8400, Email: <a href="mailto:cramspeck@ashrae.org">cramspeck@ashrae.org</a>

## Summary of Cool Roof Requirements/Incentives from ARMA Rebate Programs

State	Location	Agency	Program Name
Arizona	Greater Phoenix Metropolitan Area	Salt River Project	Powerwise Cool Roof Business Solutions Rebate Program
California	Northern and Central	Pacific Gas and Electric	Residential Cool Roof Rebate
California	Sacramento County and Parts of Placer County	Sacramento Municipality District (SMUD)	Residential Cool Roof Program
California	Burbank	Burbank Water and Power	Energy Solutions: Business Rebate Program
California	Central, Coastal, and Southern	Southern California Edison Company	Cool Roof Rebate Program
Carolinas	North Carolina and South Carolina	Progress Energy	Reflective Roof Incentive
Florida		Florida Light and Power	Business Building Envelope Program
Florida		Progress Energy	Reflective Roof Incentive
Florida	City of Gainesville	Gainesville Regional Utilities	Reflective Roof Coating Rebate
Idaho	Entire State	Idaho Power	Building Efficiency for Commercial Construction
Texas	Bryan	Bryan Texas Utilities	Green Plus Reflective Roof Program
Texas	San Antonio	CPS Energy	CPS Energy Rebate Program for Commercial and Industrial Customers
Texas	City of Austin, Travis County, and some of Williamson County	Austin Energy	Building Envelope Rebates

## Summary of Cool Roof Requirements/Incentives from ARMA Voluntary Programs

Agency	Location	Program Name	Reflectance - Low Slope	Reflectance - Steep Slope	Contact
Environmental Protection Agency / Department of Energy	Federal	Energy Star	0.65 (0.50 aged)	0.25 (0.15 aged)	Phone: 888-STAR-YES
United States Green Building Council	International	LEED Green Building Rating System / LEED Advocacy and Policy Program	Solar Reflectance Index (SRI) of 78	Solar Reflectance Index (SRI) of 29	Phone: 202-828-7422, Email: leedinfo@usgbc.org
Sacramento Tree Foundation	Sacramento, CA	Sacramento Cool Community Program	Solar Reflectance Index (SRI) of 78 or higher	Solar Reflectance Index (SRI) of 29 or higher	Phone: 510-595-PNRG (Lisa Gartland, Director), Email: lisa@pstvnrq.com
Green Building Initiative	National	Green Globes	Solar Reflectance Index (SRI) of 78 or higher	Solar Reflectance Index (SRI) of 29 or higher	Phone: 877-GBI-GBI1, Email: info@thegbi.org