



Imagine... a Roof that can pay for Itself!



MCA... #1 Cool Roof Leader

THE LEADER IN COOL ROOF TILE IN THE U.S.

MCA is the number one leader in clay cool roof tile manufacturing in the U.S. MCA offers 33 CRRC rated colors of clay tile, creating an endless array of blends. MCA can also help with Leed points. Cool Roof, SRI values, new DSA & metal roof deck installation information are available upon request.



Project: Eleanor Roosevelt High School, Corona, CA

Architect: WLC Architects, Rancho Cucamonga

1400 SQ, One Piece "S" Mission Tile

Color: 90% B301 Old Mission Blend, 10% RB45 Santa Fe Brown

Average Solar Reflectance 42%, Average Emissivity 85%,

SRI Value 47.26



1985 Sampson Ave., Corona, CA 92879, U.S.A.

(800) 736-6221 * Fax (951) 736-6052

www.mca-tile.com

MCA & Leed[®] Credits

A Product Solution for Green Architecture and Sustainable Building Design

In today's world, an awareness and demand for energy efficient, environmentally friendly products is rapidly growing. Manufacturers have been challenged to meet the demand for products that are "greener" and longer lasting, particularly in products such as insulation and roofing materials.

MCA clay tiles are qualified by the U.S. Green Building Counsel's Leadership in Energy and Environmental Design (LEED) program, which, among other things, promotes integrated, whole-building design practices, and recognizes environmental leadership in the building industry. Creating a "green" building, in effect, means matching the products and materials to the specific project design and site in order to minimize the overall environmental impact. In the past, building green was often associated with higher "first costs" versus savings on the "life cycle" maintenance costs. But, today, building green is a good long-term investment that doesn't have to cost more than a building with traditional materials. Saving energy not only benefits the environment and saves money by lowering energy costs, but also, MCA's "Cool Roof" tile comes at no additional cost.

The Energy Star program has long recognized the consumer and environmental benefits of energy efficient products. This program also establishes the criteria for product qualification under LEED. In addition to earning the Energy Star rating on many of its products, MCA Clay Roof Tile can also contribute to earning LEED rating points. Below is a list of the Credits that can be earned by using MCA Clay Roof Tile.

- EA - Energy & Atmosphere
Credit 1 Optimize Energy Performance

Many of MCA's colors meet the Energy Star standards and would assist in reaching the specified reduction of design energy cost.

- MR -Materials & Resources
Credit 4.1 Recycled Content 5%
Credit 4.2 Recycled Content 10%

Note: 25% of MCA's clay content is pre-consumer recycled material

*Credit 5.1 Local/Regional Materials 10%

**Credit 5.2 Regional Materials 20%

*M.C.A.'s plant is located in Corona, CA, so, for projects in Southern California, credit will be given for meeting the requirement of manufacturing the product within 500 miles.

**100% of the materials used in the manufacturing process were extracted within 500 miles of the project site.

- SS - Sustainable Sites

Credit 7.2 Heat Island Effect

Reduce Heat Islands to minimize the impact on microclimate and human and wildlife habitat.

Option 1

Use roofing materials that have a Solar Reflectance Index (SRI) equal to or greater than 29 for roof slopes >2:12

MCA has 33 colors listed with the Cool Roof Rating Council that meet this requirement.

Please contact us for more information

MCA[®]

1-800-736-6221

Cool Roof Projects



B301 Old Mission Blend®

Solar Reflectance Avg. – 0.43 / Thermal Emittance Avg. – 0.86 / SRI – 48



Custom Blend

Solar Reflectance Avg. – 0.43 / Thermal Emittance Avg. – 0.86 / SRI – 48



B301 Old Mission Blend®

Solar Reflectance Avg. – 0.43 / Thermal Emittance Avg. – 0.86 / SRI – 48



B307 Mediterranean Blend®

Solar Reflectance Avg. – 0.584 / Thermal Emittance Avg. – 0.84 / SRI – 68

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Cool Roof Color Selections



Traditional Flash - 2F41
 CRRC Product ID # 0882-0001
 Solar Reflectance - 0.32
 Thermal Emittance - 0.88
 SRI Value - 34



Cactus Green - 2F48
 CRRC Product ID # 0882-0002
 Solar Reflectance - 0.38
 Thermal Emittance - 0.85
 SRI Value - 40



Weathered Green Light - CC137L
 CRRC Product ID # 0882-0003
 Solar Reflectance - 0.43
 Thermal Emittance - 0.82
 SRI Value - 46



Weathered Green Medium - CC137M
 CRRC Product ID # 0882-0003
 Solar Reflectance - 0.43
 Thermal Emittance - 0.82
 SRI Value - 46



Weathered Green Dark - CC137D
 CRRC Product ID # 0882-0003
 Solar Reflectance - 0.43
 Thermal Emittance - 0.82
 SRI Value - 46



Light Cactus Green - 2F53
 CRRC Product ID # 0882-0004
 Solar Reflectance - 0.50
 Thermal Emittance - 0.84
 SRI Value - 56



Light Pale Green - 2F54
 CRRC Product ID # 0882-0005
 Solar Reflectance - 0.62
 Thermal Emittance - 0.84
 SRI Value - 72



Regency Blue - 2F52
 CRRC Product ID # 0882-0006
 Solar Reflectance - 0.36
 Thermal Emittance - 0.83
 SRI Value - 37



True Buff - RB01
 CRRC Product ID # 0882-0007
 Solar Reflectance - 0.49
 Thermal Emittance - 0.83
 SRI Value - 55



Sandstone - RB39
 CRRC Product ID # 0882-0008
 Solar Reflectance - 0.62
 Thermal Emittance - 0.82
 SRI Value - 72



Santa Fe Brown - RB45
 CRRC Product ID # 0882-0009
 Solar Reflectance - 0.41
 Thermal Emittance - 0.82
 SRI Value - 43



Navajo Gold - RB46
 CRRC Product ID # 0882-0010
 Solar Reflectance - 0.53
 Thermal Emittance - 0.82
 SRI Value - 60



Imperial Peach - RB47
 CRRC Product ID # 0882-0011
 Solar Reflectance - 0.50
 Thermal Emittance - 0.82
 SRI Value - 56



Apricot Smoke - CF62
 CRRC Product ID # 0882-0012
 Solar Reflectance - 0.46
 Thermal Emittance - 0.83
 SRI Value - 50



Apricot Buff - CF50
 CRRC Product ID # 0882-0013
 Solar Reflectance - 0.62
 Thermal Emittance - 0.83
 SRI Value - 73



Vanilla Buff - CF51
 CRRC Product ID # 0882-0014
 Solar Reflectance - 0.58
 Thermal Emittance - 0.82
 SRI Value - 67



Zorro Smoke Dark - CC138D
 CRRC Product ID # 0882-0015
 Solar Reflectance - 0.33
 Thermal Emittance - 0.82
 SRI Value - 33



Zorro Smoke Medium - CC138M
 CRRC Product ID # 0882-0016
 Solar Reflectance - 0.38
 Thermal Emittance - 0.82
 SRI Value - 40



Zorro Smoke Light - CC138L
 CRRC Product ID # 0882-0017
 Solar Reflectance - 0.44
 Thermal Emittance - 0.83
 SRI Value - 48

These colors are available in the One Piece "S" Mission and all MCA Two Piece Mission Tiles
 NOTE: Some tiles may have slight variations in color due to the inherent nature of clay tile and the limitations of the lithographic printing process.

Cool Roof Color Selections



Ivory Smoke Light - CC133L
 CRRC Product ID # 0882-0018
 Solar Reflectance - 0.51
 Thermal Emittance - 0.82
 SRI Value - 57



Ivory Smoke Medium - CC133M
 CRRC Product ID # 0882-0019
 Solar Reflectance - 0.45
 Thermal Emittance - 0.82
 SRI Value - 48



Ivory Smoke Dark - CC133D
 CRRC Product ID # 0882-0020
 Solar Reflectance - 0.34
 Thermal Emittance - 0.83
 SRI Value - 35



Peach Buff - F47
 CRRC Product ID # 0882-0021
 Solar Reflectance - 0.52
 Thermal Emittance - 0.82
 SRI Value - 59



Adobe Gold - F46
 CRRC Product ID # 0882-0022
 Solar Reflectance - 0.54
 Thermal Emittance - 0.83
 SRI Value - 62



Carmel - 2F34
 CRRC Product ID # 0882-0023
 Solar Reflectance - 0.35
 Thermal Emittance - 0.82
 SRI Value - 35



Desert Sand - 2F99
 CRRC Product ID # 0882-0024
 Solar Reflectance - 0.41
 Thermal Emittance - 0.82
 SRI Value - 43



Peach Buff Full - 2F47
 CRRC Product ID # 0882-0025
 Solar Reflectance - 0.57
 Thermal Emittance - 0.83
 SRI Value - 66



Tobacco Flash - 2F45
 CRRC Product ID # 0882-0026
 Solar Reflectance - 0.42
 Thermal Emittance - 0.86
 SRI Value - 46



Brick Red - 2F43
 CRRC Product ID # 0882-0027
 Solar Reflectance - 0.42
 Thermal Emittance - 0.84
 SRI Value - 45



White Buff Full - 2F44
 CRRC Product ID # 0882-0028
 Solar Reflectance - 0.76
 Thermal Emittance - 0.84
 SRI Value - 93



Adobe Gold Full - 2F46
 CRRC Product ID # 0882-0029
 Solar Reflectance - 0.51
 Thermal Emittance - 0.82
 SRI Value - 57



Natural Red - F40
 CRRC Product ID # 0882-0030
 Solar Reflectance - 0.45
 Thermal Emittance - 0.88
 SRI Value - 51



Canyon Red - 2F23
 CRRC Product ID # 0882-0031
 Solar Reflectance - 0.36
 Thermal Emittance - 0.88
 SRI Value - 39



Cinnamon - 2F18
 CRRC Product ID # 0882-0032
 Solar Reflectance - 0.35
 Thermal Emittance - 0.97
 SRI Value - 42



Cafe Rustic Light - CC136L
 CRRC Product ID # 0882-0033
 Solar Reflectance - 0.37
 Thermal Emittance - 0.96
 SRI Value - 44



Cafe Rustic Medium - CC136M
 CRRC Product ID # 0882-0033
 Solar Reflectance - 0.37
 Thermal Emittance - 0.96
 SRI Value - 44



Cafe Rustic Dark - CC136D
 CRRC Product ID # 0882-0033
 Solar Reflectance - 0.37
 Thermal Emittance - 0.96
 SRI Value - 44

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F40 Natural Red
Solar Reflectance Avg. - 0.45
Thermal Emittance Avg. - 0.88
SRI Value - 51



2F43 Brick Red
Solar Reflectance Avg. - 0.42
Thermal Emittance Avg. - 0.84
SRI Value - 45



B307 Mediterranean Blend[®]
Solar Reflectance Avg. - 0.584
Thermal Emittance Avg. - 0.84
SRI Value - 68



B303 Santiago Blend
Solar Reflectance Avg. - 0.446
Thermal Emittance Avg. - 0.87
SRI Value - 50



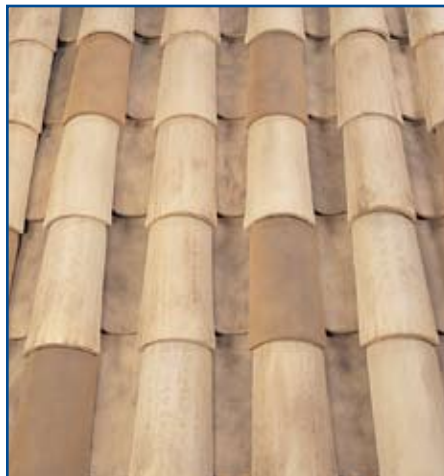
B301 Old Mission Blend[®]
Solar Reflectance Avg. - 0.430
Thermal Emittance Avg. - 0.86
SRI Value - 48



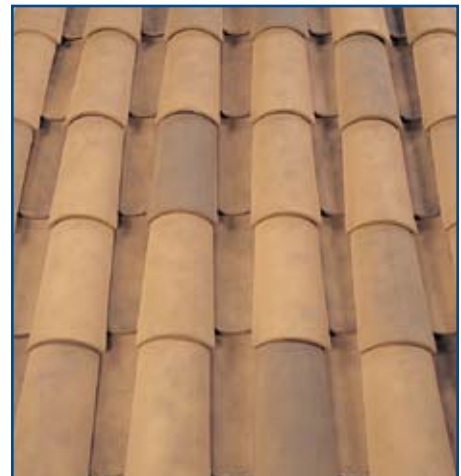
B304 Sierra Blend
Solar Reflectance Avg. - 0.40
Thermal Emittance Avg. - 0.88
SRI Value - 44



B319-R Ivory Smoke Blend
Solar Reflectance Avg. - 0.433
Thermal Emittance Avg. - 0.82
SRI Value - 46



B334-R Rustic Ivory Blend
Solar Reflectance Avg. - 0.423
Thermal Emittance Avg. - 0.82
SRI Value - 45



B331-R Zorro Blend
Solar Reflectance Avg. - 0.383
Thermal Emittance Avg. - 0.82
SRI Value - 40

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Cool Roof Designer's Selections



B339 Suncoast Blend
Solar Reflectance Avg. - 0.56
Thermal Emittance Avg. - 0.83
SRI Value - 64



B309 Eclipse Blend
Solar Reflectance Avg. - 0.48
Thermal Emittance Avg. - 0.82
SRI Value - 53



B338 Palace Blend
Solar Reflectance Avg. - 0.481
Thermal Emittance Avg. - 0.83
SRI Value - 53



B341 Carmel Blend
Solar Reflectance Avg. - 0.373
Thermal Emittance Avg. - 0.88
SRI Value - 41



B318-R Cafe Rustic Blend
Solar Reflectance Avg. - 0.37
Thermal Emittance Avg. - 0.96
SRI Value - 43



B386 Havana Blend
Solar Reflectance Avg. - 0.49
Thermal Emittance Avg. - 0.84
SRI Value - 55



B387 Laguna Blend
Solar Reflectance Avg. - 0.46
Thermal Emittance Avg. - 0.83
SRI Value - 51



B388 Lanai Blend
Solar Reflectance Avg. - 0.46
Thermal Emittance Avg. - 0.88
SRI Value - 52



B305 Weathered Green Blend®
Solar Reflectance Avg. - 0.43
Thermal Emittance Avg. - 0.82
SRI Value - 46

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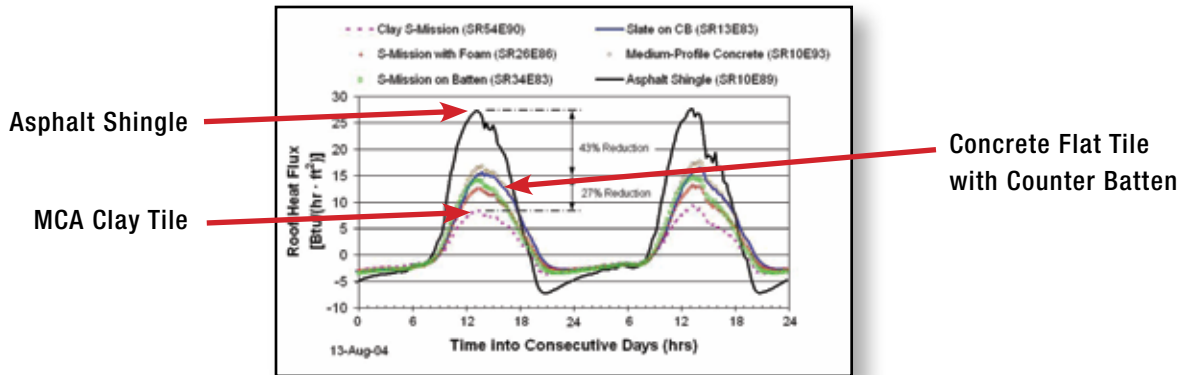
Rebates are available for Cool Roof Products.
(Please check with your utility company to see what is available.)



33 colors to select from that are cool roof rated. Wide array of blends can be created.
(Please see pages 3,4,5 and 6.)



MCA clay roof tiles showed up to a 70% reduction of heat entering the house, compared to asphalt shingles, and 27% reduction of heat compared to concrete flat tile with counter batten system.
(Please see footnote1)



Highest Quality Products in the Industry
*ASTM C-1167 Grade 1 Product



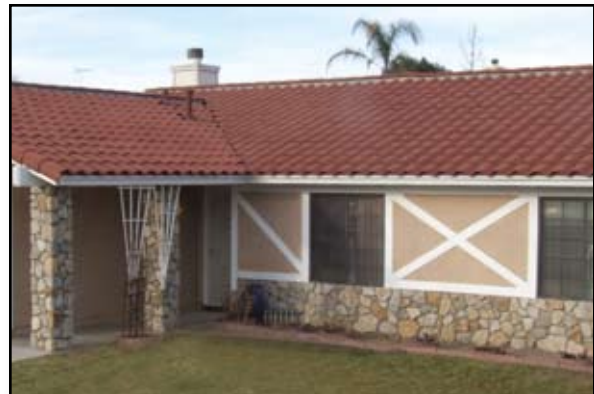
50 Year Limited Transferable Warranty

Example of a Re-roofed House



Before

Gray Asphalt Shingle



After

MCA One Piece "S" Tile with 2F43 Brick Red

Footnote 1: William A. Miller, Ph.D. , Steep-Slope Assembly Testing of Clay and Concrete Tile with and without Cool Pigmented Colors
(Buildings Technology Center, Oak Ridge National Laboratory, November 2005)