With over a century of experience, MCA has progressively developed expertise in transforming rich, red clay into sophisticated clay roofing tiles, offering homeowners, builders, and architects alike, distinctive roofing options.

MCA is a leader in innovation and invention, applying new technology to an old-world art. Historical Tile, Turret Tile®, and Dome Tile are only a few examples of MCA’s revolutionary product lines, created to meet almost any design specification.

The first clay roof tile manufacturer to introduce both Energy Star® and Cool Roof tile to the industry, MCA has consistently been at the forefront of environmentally friendly and energy efficient clay roof products. MCA clay tiles are also qualified by the US Green Building Counsel’s LEED program.

In addition to superior quality tile, MCA’s outstanding customer service provides contractors, homeowners, architects, designers and everyone in between with exceptional technical support.

A commitment to quality, a broad range of clay tile products, and a dedication to provide the best products possible while competitively priced, makes MCA the leader in the clay roof tile industry in the U.S.A.

This newly updated General Catalog contains MCA Clay Roof Tile’s wide selection of styles, textures, colors, and blends. Fully illustrated, this brochure includes profile dimensions, color selections, LEED and Cool Roof information. After choosing a specific style, please refer to our individual product brochures for more detailed information. To request additional brochures, contact the MCA Sales Office at 800-736-6221, email to sales@mca-tile.com, or visit our website at www.mca-tile.com.

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Jim: please ad Mixed Solutions Logo here
Stone Creek Ranch, La Quinta, CA - 2/3 B317-R Taupe Smoke Blend, 1/3 B340-R Vintage Red Blend
Gold Nugget Award Winner – Photo Provided Courtesy of Andrew Pierce Builders, Palm Desert, CA, Two-Piece Corona Tapered Mission – Custom Blend CB227-R

Stone Creek Ranch, La Quinta, CA, 2/3 B317-R Taupe Smoke Blend, 1/3 B340-R Vintage Red Blend

Recreation Center, Turret Tile, F45 Tobacco, F40 Natural Red, 2F43 Brick Red
The Leader in Custom Home Colors & Blends

Custom House, HI, Two Piece Mission, B305 Weathered Green

Custom House, HI, One Piece “S” Mission, B335 Aloha Blend
Pacific Highlands Ranch Fire Station, San Diego, CA, 75% B301 Old Mission Blend and 25% 2F34 Carmel

Club House, Lake Las Vegas, NV, B301 Old Mission Blend® with Turret Tile®
The Leader in Commercial & Institutional Projects

Hyatt Regency, Huntington Beach, CA One Piece “S” Mission, B301 Old Mission Blend

Eleanor Roosevelt High School, Corona, CA, One Piece “S” Mission, Custom Blend
Port Europe, Wakayama Marine Resort in Japan. This project utilized various sizes of two piece mission tiles with custom blends.
Over 100 years of experience has allowed MCA to produce a superior tile that will last for generations. Having only 75 pieces of tile per square, the One Piece “S” style is a tremendous labor saving product. It is widely used on residential, commercial, military and institutional buildings.

“S” Mission tile is available in a great selection of colors and blends, including colors rated Cool Roof by the CRRC. In addition, the “S” tile’s natural ventilation properties translate into cooler attic temperatures in summer and warmer temperatures in winter. Energy efficient and labor saving, One Piece “S” Mission is the best clay roof tile value in the industry.

One Piece “S” Mission tile is made in the USA and is ASTM C1167 Grade 1, the highest quality available. It is competitively priced and backed by a 50-year limited warranty.

For more information, please contact MCA Sales office at 1-800-736-6221 or email sales@mca-tile.com.

**CC/CODES, CERTIFICATIONS**
- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C 1167 Grade 1
- Miami-Dade County, FL NOA No. 12.0320.32, (Exp. date: 7/11/17)
- Florida Building Code - FL1109-R2

**TILE SPECIFICATIONS:**
- Actual size: 19” x 14.5”
- Exposed size: 16” x 12” O.C.
- Weight per square: 788 lbs.
- Weight per piece: 10.5 lbs.
- No. of pieces per sq: 75 pcs.

**METRIC TILE SPECIFICATIONS:**
- Actual size: 483mm x 356mm
- Exposed size: 406mm x 305mm O.C.
- Weight per M2: 38 kg.
- Weight per piece: 4.8 kg.
- No. of pieces per square: 80 pcs.

Metric conversion of lumber is actual dimensions of lumber; use lumber of the closest dimensions available.

*Dimension of the head of the tile.*
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.
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.
## Color Selection

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<td>Carmel Full</td>
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<td>Carbon Flash</td>
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<td>Ironwood</td>
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**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.
Classic “S” Mission™ Tile

Classic “S” Mission offers a true two-piece tile look while offering the installation and weight savings of a standard “S” tile. Classic “S” installed with a two-piece eave line will astound you with the almost unbelievable look of two piece tile. Fooling all but the most experienced, “only your roofer will know for sure…..”

Classic “S” Mission tile is available in Natural Red or in an array of colors, blends and textures, including sand cast, to create a signature roof for your custom home or project. Many of these colors and blends are Energy Star® and Cool Roof rated products that can qualify for LEED points and save the end user money and energy. A 50-Year Limited Warranty is available on all M.C.A. Tiles.

For more information, please contact MCA Sales office at 1-800-736-6221 or email sales@mca-tile.com.

CC/CODES, CERTIFICATIONS
- ICC Report ESR-2144
- ASTM C 1167 Grade 1
- Florida Building Code - FL1109-R2
- Class A, E108 (UL790)
- ICC Report ESR-2144
- ASTM C 1167 Grade 1
- Florida Building Code - FL1109-R2
- Class A, E108 (UL790)
- US Patent No. D650096

TILE SPECIFICATIONS:
- Actual size: 19” x 12”
- Exposed size: 16” x 10” O.C.
- Weight per square: 788 lbs.
- Weight per piece: 8.75 lbs.
- No. of pieces per sq: 90 pcs

METRIC TILE SPECIFICATIONS:
- Actual size: 483mm x 305mm
- Exposed size: 408mm x 254mm O.C.
- Weight per M2: 35.56 kg/m2
- Weight per piece: 3.67 kg
- No. of pieces per M2: 9.69 pcs/M2

Metric conversion of lumber is actual dimensions of lumber; use lumber of the closest dimensions available.

*Dimension of the head of the tile.
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.
Corona Tapered Mission™ Tile

The most popular two-piece clay roof tile in the industry, Corona Tapered Mission tile brings the traditional beauty and warmth of Tuscan or Hacienda design to any project. Add distinction and style to custom homes and commercial buildings with this versatile clay tile. Combined with MCA’s Turret Tile®, the appeal of Corona Tapered Mission Tile is extraordinary.

Build Green when specifying Corona Tapered Mission Cool Roof Tile and at no additional charge. This tile is available in a wide range of colors and blends all rated Cool Roof by the CRRC and can earn LEEDs points.

Corona Tapered Mission Tile is made in the USA and is ASTM C1167 Grade 1, the highest quality available, meeting all freeze/thaw and salt intrusion conditions. It is competitively priced and backed by a 50-year limited warranty.

For more information, please contact MCA sales office at 1-800-736-6221 or visit the website at www.mca-tile.com.

CC/CODES, CERTIFICATIONS
- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C1167, Grade 1
- Florida Building Code - FL1109-R2

TILE SPECIFICATIONS:
- Actual size: 19” x 8.71” (5.94”)*
- Exposed size: 16” x 12” O.C.
- Weight per square: 1050 lbs
- Weight per piece: 7 lbs
- No. of pieces per sq: 150 pcs

METRIC TILE SPECIFICATIONS:
- Actual size: 483mm x 222mm (151mm)*
- Exposed size: 406mm x 305mm
- Weight per M2: 51.27 kg
- Weight per piece: 3.18 kg
- No. of pieces per M2: 16.15 pcs

Metric conversion of lumber is actual dimensions of lumber; use lumber of the closest dimensions available.

*Dimension of the head of the tile.

Corona Tapered Mission™ Tile offers you more colors, more textures, affordable prices and higher quality than any roof tile in the industry today.

Tile is Vintage Red

Marriott’s Newport Coast Villas, Newport Coast, CA - 4 Different Custom Blends: CB228-R, CB227-R, CB301-R, CB233-R
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.
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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.
**Classic Tapered Mission™ Tile**

Combining a high crown and narrow profile with rustic colors and textures, Classic Tapered Mission™ tile radiates old world charm. Available in many textures, including popular Sand Cast and Vintage, this tile has been used on many custom homes and commercial buildings, as well as restorations of historical buildings.

Choose from our Designer's Selection or create your own custom blend.

Classic Tapered Mission™ tile is made in the USA and is ASTM C1167 Grade 1, the highest quality clay roof product available. Competitively priced, this product is also backed by a 50-year limited warranty.

For more information, please contact MCA sales office at 1-800-736-6221 or sales@mca-tile.com.

**CC/CODES, CERTIFICATIONS**
- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C1167, Grade 1
- Florida Building Code - FL1109-R2

**TILE SPECIFICATIONS:**
- Actual size: 19" x 7 ¼" (5")
- Exposed size: 16" x 10" O.C.
- Weight per square: 990 lbs.
- Weight per piece: 5.5 lbs.
- No. of pieces per sq: 180

**METRIC TILE SPECIFICATIONS:**
- Actual size: 483mm x 184mm (127mm)
- Exposed size: 406mm x 254mm O.C.
- Weight per M²: 48.34 kg
- Weight per piece: 2.49 kg
- No. of pieces per M²: 19.38

Metric conversion of lumber is actual dimensions of lumber; use lumber of the closest dimensions available.

*Dimension of the head of the tile.*
Sand Cast Designer’s Selections

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.
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.
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.
Roman Pan Tile

Roman Pan Tile is truly an architectural legacy of Ancient Roman and Greek artistic design. Re-creating this traditional flat Roman Pan and pairing it with high-crown Classic Tapered Mission Tops, MCA captures this timeless architecture for both commercial and custom residential projects.

Available in a variety of textures, including popular Sand Cast and Vintage, and an endless array of cool roof-rated colors and blends, MCA Roman Pan Tile adds an inviting Tuscan look to any building. Choose from our Designer's Blends, or create your own custom blend.

MCA Roman Pan Tile is made in the USA and is ASTM C1167 Grade 1, the highest quality clay product available.

Competitively priced, this product is also backed by a 50-year limited warranty.

For more information, please contact MCA sales office at 1-800-736-6221 or sales@mca-tile.com

CC/CODES, CERTIFICATIONS

- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C1167, Grade 1
- Florida Building Code - FL1109-R2

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<td>Weight per Square:</td>
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<td>Weight per Piece Pan:</td>
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<tr>
<td>Weight per Piece Top:</td>
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<td>No. of Pieces per Square:</td>
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METRIC TILE SPECIFICATIONS:

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<td>No. of Pieces per M2:</td>
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*Dimension of the head of the tile.
**Designer’s Selections**

- Teja Bianco
  - CB383M

- Veneto Diores
  - CB372M

- Tuscan Gold
  - CB382M

- Cinnamon
  - 2F18

- Natural Red
  - F40

- Brick Red
  - 2F43

- Canyon Red
  - 2F23

- Cafe Rustic
  - CC136M

- Antique Kiln Flash
  - CB397

- Old Santa Barbara
  - CC16M

- Mahogany
  - 2F72

- Burnt Sienna
  - 2F22

- Tobacco
  - 2F45

- Carbon
  - 2F28

- Taupe Smoke
  - CC134M

- Ironwood
  - 2F19

**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.
Designer’s Selections

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.
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.
8-inch Straight Barrel Mission

8-Inch Straight Barrel Mission clay roof tile has been produced on the West Coast for more than 100 years and can be seen on many churches, civic centers, and universities. MCA is able to reproduce this timeless classic for restoration of historical projects, as well as for new construction. MCA has mastered the art of replicating the colors and textures of very old tile to match existing tile on earlier period buildings, or to give new buildings a seasoned, historic appeal with Cool Roof rated colors.

8-Inch Straight Barrel Mission tile is made in the USA and is ASTM C1167 Grade I, the highest quality of clay roof tile available. Competitively priced, this product is also backed by a 50-year limited warranty.

For more information, please contact MCA Sales office at 800-736-6221, or by email at sales@mca-tile.com, or visit the website at www.mca-tile.com.

CC/CODES, CERTIFICATIONS
• ICC Report ESR-2144
• Class A, E108 (UL790)
• ASTM C1167, Grade 1
• Florida Building Code - FL1109-R2

TILE SPECIFICATIONS:
- Actual Size: 19" x 8"
- Exposed Size: 16" x 11" O.C.
- Weight per Square: 1070 lbs.
- Weight per Piece Pan: 8.82 lbs.
- No. of Pieces per Square: 164 pcs

METRIC TILE SPECIFICATIONS:
- Actual Size: 483mm x 254mm
- Exposed Size: 406mm x 279mm O.C.
- Weight per Square: 52.24 kg
- Weight per Piece Pan: 2.96 kg
- No. of Pieces per M2: 15 pcs

Metric conversion of lumber is actual dimensions of lumber; use lumber of the closest dimensions available.
*Dimension of the head of the tile.
Historical Colors and Blends

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

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

2F22 Burnt Sienna
Solar Reflectance Avg. - 0.25
Thermal Emittance Avg. - 0.84

CB366 Alexander & Baldwin Blend

B308 Canyon Red Blend
Solar Reflectance Avg. - 0.42
Thermal Emittance Avg. - 0.88

CB425 Nob Hill Blend
Solar Reflectance Avg. - 0.44
Thermal Emittance Avg. - 0.88

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.
Turret Tile\textsuperscript{®} ... Excellence in Innovation

Turret Tile\textsuperscript{®}

MCA has earned a global reputation as the leading innovator in Turret Tile\textsuperscript{®} design and manufacturing. With a truly unique turret system, there is no need for roofing contractors to cut tiles to fit the shape of a conical roof. Eliminating unnecessary extra labor, MCA customizes the tiles for every job, with larger tiles at the bottom, medium in the center, and small, tapered tiles at the top. Enhanced by computer design, the exact number of each size is precisely calculated to fit a turret roof of any size.

Turret Tile\textsuperscript{®} is available in Natural Red, flashed, and standard blends. Custom colors and custom blends are also available.

Turret Tile\textsuperscript{®} is pre-cut decorative roof tile and requires a watertight membrane.

For more information, contact MCA Sales Office at 800-736-6221, by email at sales@mca-tile.com, or visit the website at mca-tile.com

CC/CODES, CERTIFICATIONS
• ICC Report ESR-2144
• ASTM C1167, Grade 1
• Class A, E108 (UL790)

How to Receive an Estimate for MCA Turret Tile\textsuperscript{®}:
Simply send MCA a scaled roof drawing or the following information:
• Roof Pitch
• Diameter of Turret Roof
• Angle in Degrees of Turret (example 360° or 180°)
We will provide your cost to an MCA Authorized Distributor in your area.

Recreation Center, Turret Tile - F45 Tobacco, F40 Natural Red, 2F43 Brick Red (360° Turret Tile\textsuperscript{®})

US Patent No. 547191
Oriental-Japanese Style

M.C.A.’s Oriental-Japanese tile is a unique, interlocking, high quality tile made in the Japanese tradition. This beautiful clay tile is available in grayish smoked, and various glazed colors and will keep its distinctive appearance while withstanding constant exposure to any weather condition.

Traditional designs, as in a Japanese style temple or teahouse, will feature ornaments in various shapes and sizes. The most traditional color used for a Japanese style teahouse or temple is the C09 Japanese Black. This color originated in China and was brought to Japan over 1400 years ago. Japanese Black, called “Ibushi” in Japan, is smoked and is a through body color.

Without the use of decorative ornaments, Oriental-Japanese Style tile is also suitable for western, contemporary designs.

A 50-Year Limited Warranty is available on all M.C.A. tiles.

For more information, please contact MCA sales office at 1-800-736-6221 or sales@mca-tile.com.

CC/CODES, CERTIFICATIONS
- ICC Report ESR-2144
- Miami-Dade County, FL NOA No. 12.1219.12 (Expiration Date 12/20/2017)
- Florida Building Code - FL1109-R2
- Made in Japan
- Class A, E108 (UL790)
- ASTM C1167, Grade 1

METRIC TILE SPECIFICATIONS:
- Actual size: 305mm x 305mm
- Exposed size: 266mm x 241mm
- Weight per M2: 54 kg
- Weight per piece: 3.6 kg
- No. of pieces per M2: 15.5 pcs

TILE SPECIFICATIONS:
- Actual size: 12" x 12"
- Exposed size: 10 1/2" x 9 1/2"
- Weight per square: 864 lbs
- Weight per piece: 6 lbs
- No. of pieces per sq: 144 pcs
Color Selections

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.

Temecula, California — Metallic Silver C23

Re-Roof Project, Encino, California — Japanese Black C09

Residence, New Mexico — Blue C01
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Dimensions: A = Length | B = Width Bottom | C = Width Top | D = Crown Height | E = Thickness

**NOTE:** Dimensions are approximate.
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Dimensions: A = Length | B = Width Bottom | C = Width Top or Ball Diameter | D = Crown Height | E = Thickness

NOTE: Dimensions are approximate.
Unique Products

Dome Tile

Dome Tile is MCA’s latest innovation. Nine different sizes of the “Fish Scale” tile are precisely calculated to fit the dome height and circumference. As the circumference of the dome decreases upward, the size of the tiles change to accommodate the variations and achieve a proper fit to the dome surface.*

The clay tile Dome Roof on the Wedding Rotunda at The Resort at Pelican Hill, Newport Coast, CA, has a dome base of 19'5" and dome height, excluding ornament, of 9'8". Approximately 4,000 pieces of Dome Tile were used in its construction. MCA also created the 2" x 2" Metope Tile that can be seen just below the base of the dome.

*This tile is strictly decorative, and a watertight membrane and nailable roof deck surface are required.

For information on Dome Tile construction and installation, please contact MCA Sales Office during the design stage of your project.

MIF108 Interlocking Flat

This unique interlocking flat tile has a built-in wind-lock to meet 150 MPH winds with a nail-on system. This distinctive tile is available in Natural Red (terra cotta), Metallic Silver, Matte Green, Matte Black, and Matte Brown.

TILE SPECIFICATIONS:
- Actual size: 13 3/4" x 13 3/4"
- Exposed size: 11 1/8" x 12"
- Weight per square: 850 lbs
- Weight per piece: 7.9 lbs
- No. of pieces per sq: 108 pcs

CC/CODES, CERTIFICATIONS
- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C1167, Grade 1
- Florida Building Code - FL1109-R2
- Made in Japan

Improved S

This durable interlocking “S” tile has a built-in wind-lock system and can withstand winds up to 200 MPH. Improved “S” has been used in areas subject to occasional high-wind conditions, such as Guam and the Caribbean. It is available in Blue, Chinese Gold, Dark Green, Maroon, and Metallic Silver.

TILE SPECIFICATIONS:
- Actual size: 11 1/4" x 12 1/4"
- Exposed size: 10 1/2" x 10 1/2"
- Weight per square: 950 lbs
- Weight per piece: 7.25 lbs
- No. of pieces per sq: 131 pcs

CC/CODES, CERTIFICATIONS
- ICC Report ESR-2144
- Class A, E108 (UL790)
- ASTM C1167, Grade 1
- Miami-Dade County, FL NOA No. 12.1219.11 (Expiration Date 12/20/2017)
- Florida Building Code - FL1109-R2
- Made in Japan

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Unique Applications

Two Piece Eave to One Piece “S” Application

By simply installing Two Piece Eave tops, pans, boosters and birdstops on the first course, then applying One Piece “S” Mission to the remaining roof area, you can create a Two Piece Mission appearance. Add additional boosting on the eave and field tile, and it becomes almost impossible to distinguish whether or not the roof is actually Two Piece Mission or a Two Piece-to-One Piece application. (See pictures below.) This application will save material costs and labor by more than 30% compared to a regular Two Piece Mission application.

**Step 1**

**Step 2**

**Step 3**

Clay Wind Screen Tile Application

Clay Wind Screen Tile decorations are often seen in the walls or on chimney tops. Just use 8” Straight Barrel Mission and 3” booster tile to create a clay screen tile. (Please see clay wind screen tile on page 33.) Please contact MCA sales office for more information on creating authentic clay wind screen decorations.

Decorative Eave Application

Stack booster tile 3 or 4 layers high under the eave on the wall of the building to create a decorative eave. From the bottom to the top row, the exposure is adjusted to become longer until the top row matches the exposure of the eave tile on the roof.
Why MCA Clay Roof Tile?
Over 100 years of experience has allowed MCA to produce superior clay tile.

ASTM C1167 GRADE 1 – MCA is the only Southern California manufacturer who produces ASTM C1167 Grade 1 clay roof tile. This is the highest quality roof tile for use in any climate – including freeze/thaw and coastal zones where salt intrusion may be a problem for lower grade tiles.

COOL ROOF PRODUCTS – MCA is the only clay roof tile manufacturer in the U.S. that carries over 33 colors and a wide range of reds, browns, and greens that are Cool Roof rated and at no additional cost.

LEED™ QUALIFYING (For Architects) – MCA Clay Roof Tile can help you earn LEED™ points.

COMPETITIVE PRICES – The highest quality tile, yet competitively priced with other brand’s products.

LABOR SAVER – With 75 pcs/sq vs. 88 pcs/sq, 13 fewer pcs/sq means MCA “S” tile can reduce labor costs by as much as 17%.

COLORS, BLENDS & TEXTURES – MCA has the widest selection available for colors, blends and textures.

GREAT CUSTOMER SERVICE & TECHNICAL ASSISTANCE – Our great customer service/sales team is available to provide assistance in color selection and technical matters. Please call our sales office for referral to your local rep.

50-YEAR LIMITED WARRANTY – Includes no color fading.

BEST ROOF HEAT REDUCTION – MCA clay “S” Mission roof tiles showed up to a 70% heat reduction entering the house as compared to a roof with asphalt shingles. (Please see footnote¹)

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)

OM/OPERATION, MAINTENANCE
Over 100 years of product knowledge has enabled us to create a roof tile that is highly resistant to chipping, wearing and fading. We stand behind our product 100%. To install M.C.A. Tile, use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work. M.C.A. Clay Roofing Tile may have color variations due to the inherent natural characteristics of the material used. To avoid color patterning, checkerboarding, spotting and stairstepping, the installer should periodically (after installing 80 pieces of roof tile) check the roof color from the ground level at approximately 40 feet (12m) from the building for a color “range.” By following this procedure, patterning or spotting should be avoided by blending the tiles over the entire deck. If this procedure is not followed, M.C.A. can not be held liable or responsible in any way once the tiles have been installed. All claims should be made in writing before installation of the tiles. No claims will be recognized after the tiles have been installed. Once M.C.A. Roof Tiles are installed, no maintenance is required.