



LEED
QUALIFYING



MADE IN
U.S.A.



Almost Unbelievable! Classic "S" Mission Tile

THE LEADER IN THE CLAY ROOF TILE INDUSTRY IN THE U.S.A.



Classic "S" Mission

Exposure Size: 16" L x 10" O.C.

Number of Pieces/Sq: 90 PCs

Weight per Sq: 788 lbs

IAPMO ES 0356 • TDI RC-21 • Miami Dade County NOA No. 17-0329.12

Class A (ASTM E108) • Grade 1 (ASTM C1167)



1985 Sampson Avenue, Corona, CA 92879

Order Desk: 1-800-736-6221

Tel: 951-736-9590 • Fax: 951-736-6052

www.mca-tile.com



Coral Canyon at Crystal Cove, Newport Coast, CA - CB364-R Vintage Carmel Blend. Enhanced Starter Eave Application

Classic "S" Mission™ Tile

MCA is proud to announce the most recent addition to our standard tile profile lines- our 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 or enhanced starter eave 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....."

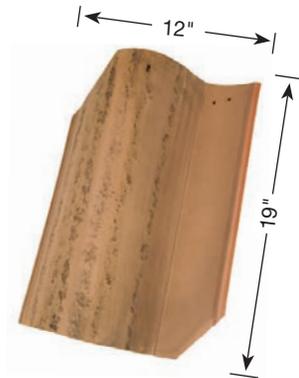
Classic "S Mission tile is available in Natural Red or in an array of colors, blends and textures, including sand cast, to create a signature roof for your custom home or project.

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 MCA Tiles.

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

CC/CODES, CERTIFICATIONS

- IAPMO Report ES 0356
- TDI Approval RC-21
- Florida Building Code, FL22539.3
- Class A, E108 (UL790)
- ASTM C 1167 Grade 1
- Miami-Dade County NOA No. 17-0329.12



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:	406mm 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.

US Patent No. D650096

TWO PIECE EAVE PRODUCT FEATURES

- Cost-effective two-piece tile look with two-piece eave line
- Transition from two-piece eave into Classic "S" Field tile virtually seamless
- Compatible Turret Tile option available

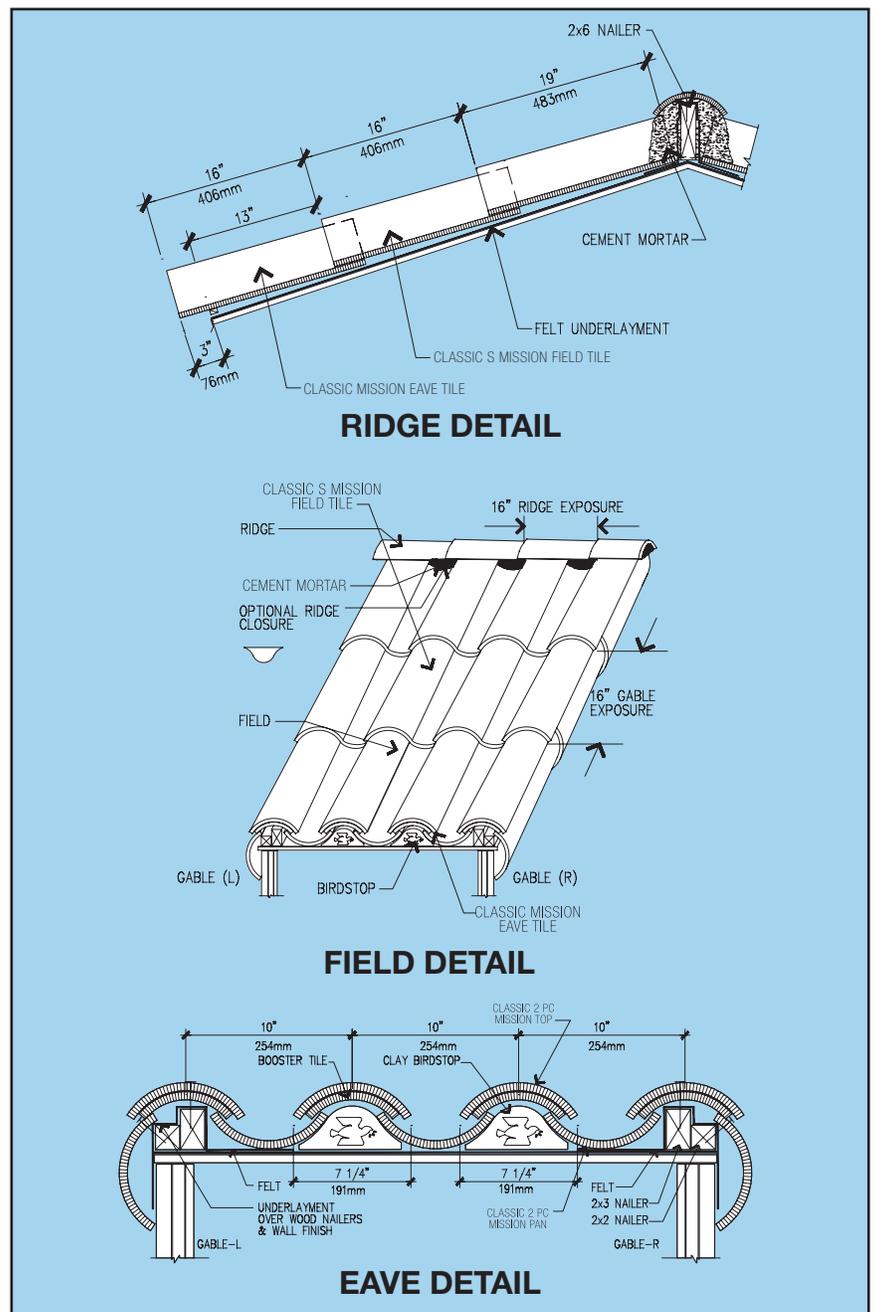


TWO PIECE EAVE



TWO PIECE EAVE APPLICATION METHOD

- (1) At roof pitches of 3:12 and steeper, provide a minimum of two layers ASTM D-226 Type 30 (14kg) felt or upgraded material. Provide in strict accordance with the pertinent requirements of governmental and/or other agencies having jurisdiction.
- (2) Chalk Lines: Chalk horizontal and vertical guide lines on the membrane to assure water tightness and proper appearance
- (3) Birdstops, boosters, Classic Two Piece Pan & Top:
 - a. Install the specified clay birdstops or concrete mud ball birdstop full length of all eaves.
 - b. Install first row of Classic Two Piece Mission Pan tiles 13" (330mm) from the eave, leaving a 3" (76mm) overhang. If rain gutter is involved, use 1 1/2" (38mm) overhang.
 - c. Install booster above birdstops.
 - d. Install Classic Two Piece Mission Top tiles directly above booster tiles; length exposure shall not exceed 16" (406mm) centers, and width exposure shall not exceed 10" (254mm) centers.
 - e. Install the specified nailers at ridges, rakes and gables.
- (4) Install Classic S Mission field tile in the 2nd row from left to right, beginning at the lowest portion of the roof.
 - a. Install each tile successively, fastening each tile with the specified fasteners.
 - b. Length of exposure on field tile shall not exceed 16" (406mm) on centers, and width exposure on field tiles shall not exceed 10" (254mm) on centers.
 - c. Install ridge, hip, and valley tiles in accordance with pertinent requirements of governmental agencies having jurisdiction.
 - (1) Provide cement mortar at all ridges and hips to completely seal the area under the ridge and hip.
 - (2) Completely and neatly fill and point-up all voids.
- (5) To avoid color patterning, checker boarding, spotting and stair stepping:
 - a. After the installation of each 80 ~100 roofing tiles, make a visual inspection from the ground level and at a distance from the building of about 40 feet (12m);
 - b. Verify that tile courses follow straight and true lines;
 - c. Verify that color range is smooth with no abrupt changes.
 - d. Make necessary corrections before proceeding with further installation.
- (6) For more detailed installation information, please contact MCA Sales Office at 800-736-6221 or sales@mca-tile.com



ENHANCED STARTER EAVE FEATURES

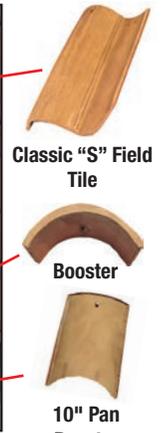
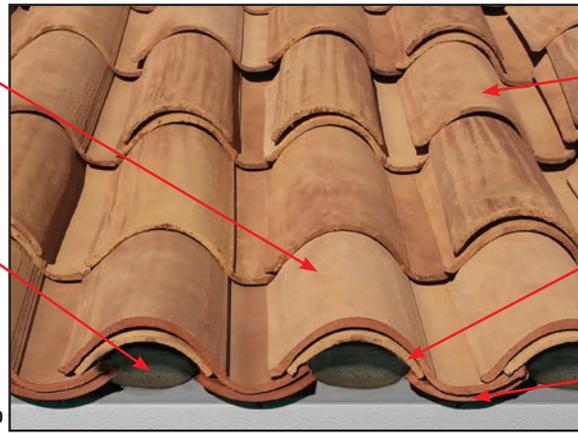
- Enhanced Starter piece with no cut corner creates full pan look
- Pan booster adds style and improves illusion of two piece tile
- Mortar mud ball application optional*

Enhanced Starter
No Cut Corner Eave Tile



*Compatible clay birdstop also available

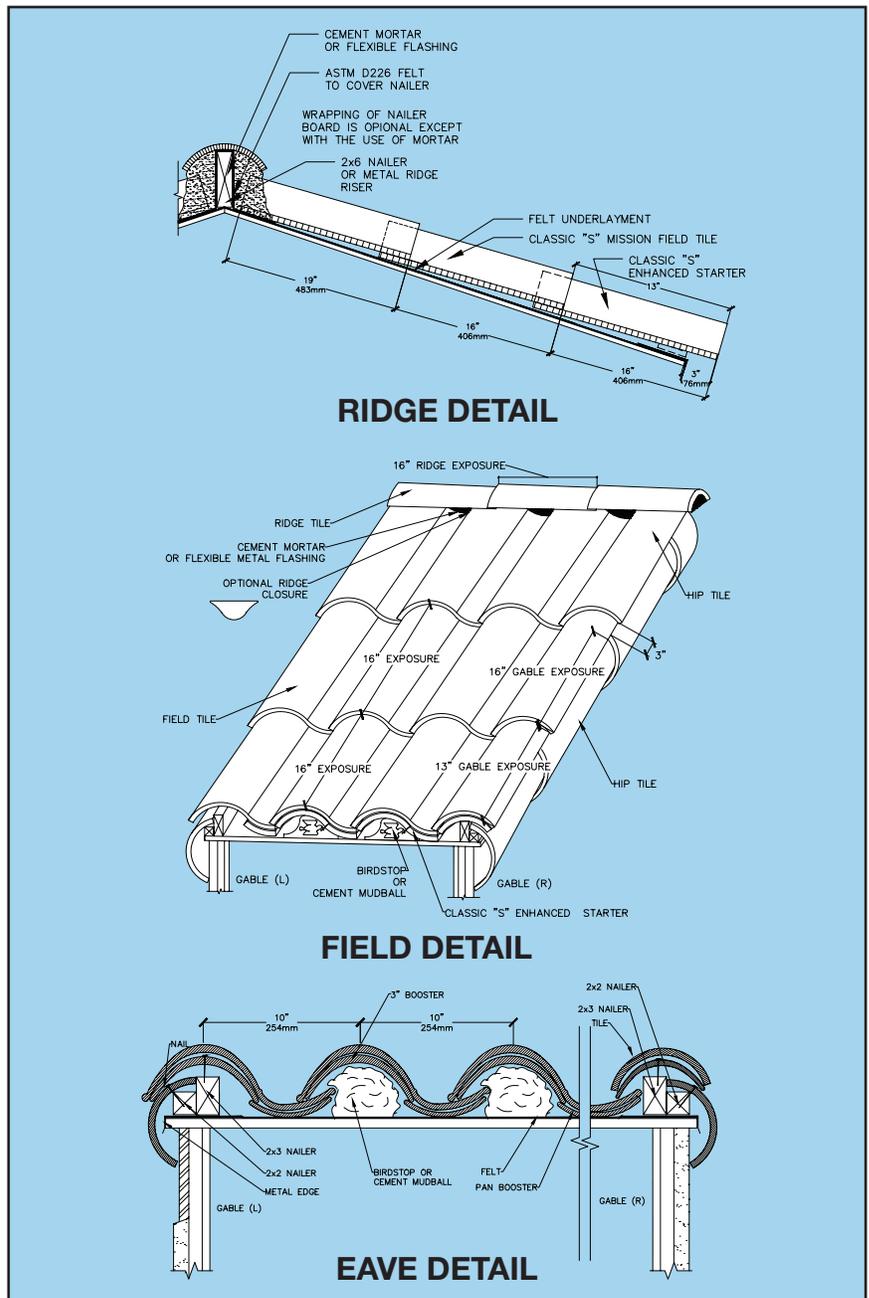
ENHANCED STARTER EAVE



CB46-SC Rustic Tuscan Blend

ENHANCED STARTER EAVE APPLICATION

- (1) At roof pitches of 3:12 and steeper, provide a minimum of two layers ASTM D-226 Type 30 (14kg) felt or upgraded material. Provide in strict accordance with the pertinent requirements of governmental and/or other agencies having jurisdiction.
- (2) Chalk Lines: Chalk horizontal and vertical guide lines on the membrane to assure water tightness and proper appearance
- (3) Birdstops, boosters, enhanced starter, and pan booster:
 - a. Install the specified clay birdstops or concrete mud ball birdstop full length of all eaves.
 - b. Install first row of pan booster tiles 13" (330mm) from the eave, leaving a 3" (76mm) overhang. If rain gutter is involved, use 1 1/2" (38mm) overhang.
 - c. Install booster above birdstops or mud balls.
 - d. Install enhanced starter tiles directly above booster tiles; length exposure shall not exceed 16" (406mm) centers, and width exposure shall not exceed 10" (254mm) centers.
 - e. Install the specified nailers at ridges, rakes and gables.
- (4) Install Classic S Mission field tile in the 2nd row from left to right, beginning at the lowest portion of the roof.
 - a. Install each tile successively, fastening each tile with the specified fasteners.
 - b. Length of exposure on field tile shall not exceed 16" (406mm) on centers, and width exposure on field tiles shall not exceed 10" (254mm) on centers.
 - c. Install ridge, hip, and valley tiles in accordance with pertinent requirements of governmental agencies having jurisdiction.
 - (1) Provide cement mortar at all ridges and hips to completely seal the area under the ridge and hip.
 - (2) Completely and neatly fill and point-up all voids.
- (5) To avoid color patterning, checker boarding, spotting and stair stepping:
 - a. After the installation of each 80 ~100 roofing tiles, make a visual inspection from the ground level and at a distance from the building of about 40 feet (12m);
 - b. Verify that tile courses follow straight and true lines;
 - c. Verify that color range is smooth with no abrupt changes.
 - d. Make necessary corrections before proceeding with further installation.
- (6) For more detailed installation information, please contact MCA Sales Office at 800-736-6221 or sales@mca-tile.com



Classic "S" Mission™ Tile Standard Eave Application



STANDARD EAVE PRODUCT FEATURES

- Easy and cost-effective installation
- US Patented S Crown and Pan breaking line creates illusion of two piece tile
- Balanced crown height and shape
- Compatible Turret Tile option available

US Patented Design Breaking Line
Patent No. D650096



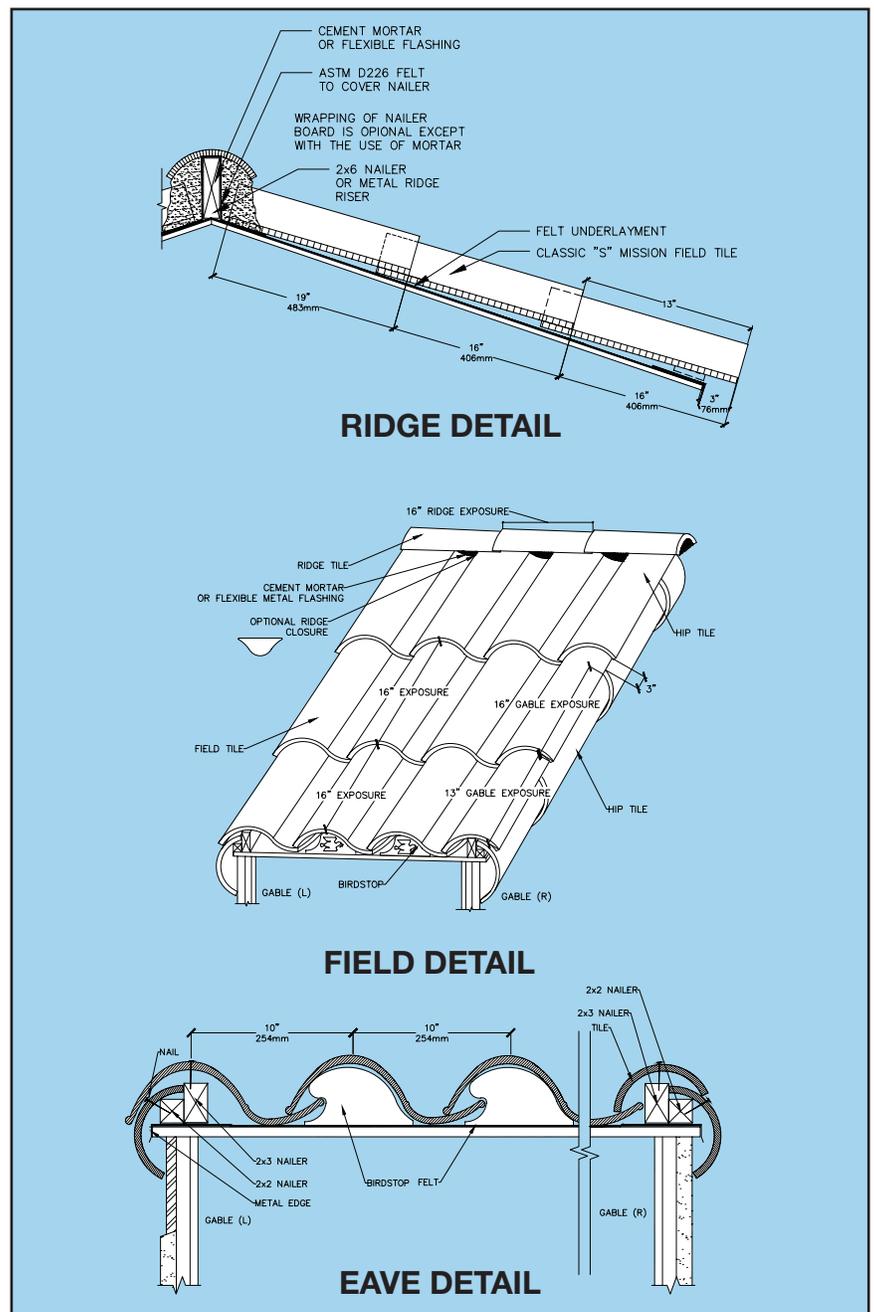
STANDARD EAVE



B330-R Old Santa Barbara Blend

STANDARD EAVE APPLICATION

- (1) At roof pitches of 3:12 and steeper, provide a minimum of two layers ASTM D-226 Type 30 (14kg) felt or upgraded material. Provide in strict accordance with the pertinent requirements of governmental and/or other agencies having jurisdiction.
- (2) Chalk Lines: Chalk horizontal and vertical guide lines on the membrane to assure water tightness and proper appearance
- (3) Installing Classic "S" Mission roofing tiles:
 - a. Install the specified clay birdstops or concrete mud ball birdstop full length of all eaves.
 - b. Install first row of Classic "S" tiles 13" (330mm) from the eave, leaving a 3" (76mm) overhang. If rain gutter is involved, use 1 1/2" (38mm) overhang.
 - c. Install the specified nailers at ridges, rakes and gables.
- (4) Install Classic S Mission field tile in the 2nd row from left to right, beginning at the lowest portion of the roof.
 - a. Install each tile successively, fastening each tile with the specified fasteners.
 - b. Length of exposure on field tile shall not exceed 16" (406mm) on centers, and width exposure on field tiles shall not exceed 10" (254mm) on centers.
 - c. Install ridge, hip, and valley tiles in accordance with pertinent requirements of governmental agencies having jurisdiction.
 - (1) Provide cement mortar at all ridges and hips to completely seal the area under the ridge and hip.
 - (2) Completely and neatly fill and point-up all voids.
- (5) To avoid color patterning, checker boarding, spotting and stair stepping:
 - a. After the installation of each 80 ~100 roofing tiles, make a visual inspection from the ground level and at a distance from the building of about 40 feet (12m);
 - b. Verify that tile courses follow straight and true lines;
 - c. Verify that color range is smooth with no abrupt changes.
 - d. Make necessary corrections before proceeding with further installation.
- (6) For more detailed installation information, please contact MCA Sales Office at 800-736-6221 or sales@mca-tile.com





Custom Home in San Diego, CA
CB388-R Vintage Green Blend with Two Piece Eave Application





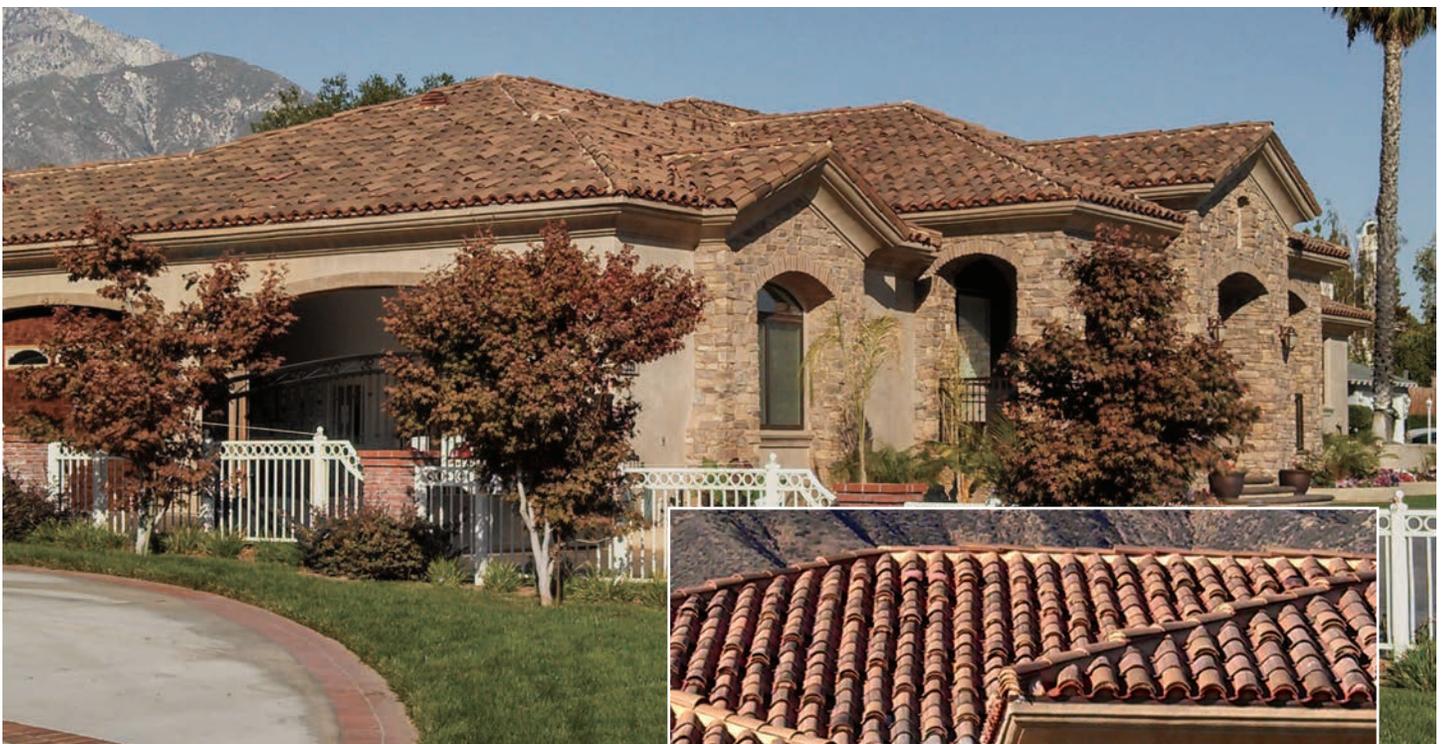
Coral Canyon at Crystal Cove, Newport Coast, CA - CB46-SC Rustic Tuscan Blend with Enhanced Eave Starter Application



Residence in Northern California - B330-R Old Santa Barbara Blend with Two Piece Eave Application



Custom Home in Temecula, CA - Custom Colors with Standard Eave Application



Custom Home in Upland, CA
 B320-R Rustic Red Blend with B330 Pans with Two Piece
 Eave Application
 Add: 11% field boosting with Classic Tapered Mission in
 CB364-R Vintage Carmel



B301 Old Mission Blend



Solar Reflectance Avg. - 0.42
Thermal Emittance Avg. - 0.86



B308 Canyon Red Blend



Solar Reflectance Avg. - 0.38
Thermal Emittance Avg. - 0.85



B341 Carmel Blend



Solar Reflectance Avg. - 0.38
Thermal Emittance Avg. - 0.88



B318-R Cafe Rustic Blend



Solar Reflectance Avg. - 0.37
Thermal Emittance Avg. - 0.89



B340-R Vintage Red Blend



Solar Reflectance Avg. - 0.30
Thermal Emittance Avg. - 0.84



B330-R Old Santa Barbara Blend



Solar Reflectance Avg. - 0.33
Thermal Emittance Avg. - 0.84



70% B392-R C. Mahogany
30% B393-R C. Burnt Sienna



Solar Reflectance Avg. - 0.34
Thermal Emittance Avg. - 0.85



B331-R Zorro Blend



Solar Reflectance Avg. - 0.38
Thermal Emittance Avg. - 0.82



B317-R Taupe Smoke Blend



Solar Reflectance Avg. - 0.29
Thermal Emittance Avg. - 0.84

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.



CB46-SC Rustic Tuscan Blend 

Solar Reflectance Avg. - 0.47
Thermal Emittance Avg. - 0.83



CB47-SM Rustic Provence Blend 

Solar Reflectance Avg. - 0.42
Thermal Emittance Avg. - 0.84



F4645-SSC Tuscan Gold Blend 

Solar Reflectance Avg. - 0.39
Thermal Emittance Avg. - 0.85



B332-R Houstonian Blend 

Solar Reflectance Avg. - 0.34
Thermal Emittance Avg. - 0.84



B320-R Rustic Red Blend 

Solar Reflectance Avg. - 0.38
Thermal Emittance Avg. - 0.84



CC135L-R Rustic Red Light 

Solar Reflectance Avg. - 0.38
Thermal Emittance Avg. - 0.84



F46-SSC Veneto Dioces Blend 

Solar Reflectance Avg. - 0.40
Thermal Emittance Avg. - 0.84



CB364-R Vintage Carmel Blend 

Solar Reflectance Avg. - 0.32
Thermal Emittance Avg. - 0.83



CB389-SC Marco Blend 

Solar Reflectance Avg. - 0.36
Thermal Emittance Avg. - 0.84



CB2F3445SC Chocolate Mocca Blend
Solar Reflectance Avg. - 0.34
Thermal Emittance Avg. - 0.84



CB360-SC Cafe Mocca Blend
Solar Reflectance Avg. - 0.30
Thermal Emittance Avg. - 0.84



2F43-SSC Villa Rosso Blend
Solar Reflectance Avg. - 0.33
Thermal Emittance Avg. - 0.84



2F45-SSC Tierra Brown Blend
Solar Reflectance Avg. - 0.33
Thermal Emittance Avg. - 0.86



B2F45MSCXL Tierra BrownExtra Light Blend
Solar Reflectance Avg. - 0.37
Thermal Emittance Avg. - 0.85



B305 Weathered Green Blend
Solar Reflectance Avg. - 0.43
Thermal Emittance Avg. - 0.82



Residence in Northern California - B330-R Old Santa Barbara Blend with Two Piece Eave Application

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



Rustic Tuscan Light
CB46L-SC
Solar Reflectance - 0.50
Thermal Emittance - 0.84



Rustic Tuscan Medium
CB46M-SC
Solar Reflectance - 0.48
Thermal Emittance - 0.84



Rustic Tuscan Dark
CB46D-SC
Solar Reflectance - 0.44
Thermal Emittance - 0.85



Rustic Provence Light
CB47L-SM
Solar Reflectance - 0.44
Thermal Emittance - 0.84



Rustic Provence Medium
CB47M-SM
Solar Reflectance - 0.38
Thermal Emittance - 0.84



Rustic Provence Dark
CB47D-SM
Solar Reflectance - 0.35
Thermal Emittance - 0.85



Vintage Carmel Light
CB364L-R
Solar Reflectance - 0.36
Thermal Emittance - 0.83



Vintage Carmel Medium
CB364M-R
Solar Reflectance - 0.31
Thermal Emittance - 0.84



Vintage Carmel Dark
CB364D-R
Solar Reflectance - 0.29
Thermal Emittance - 0.84



Natural Red
F40
Solar Reflectance - 0.45
Thermal Emittance - 0.88



Tobacco Crown Flash
F45
Solar Reflectance - 0.38
Thermal Emittance - 0.85



Tobacco
2F45
Solar Reflectance - 0.42
Thermal Emittance - 0.86



Canyon Red Crown Flash
F23
Solar Reflectance - 0.38
Thermal Emittance - 0.84



Canyon Red
2F23
Solar Reflectance - 0.36
Thermal Emittance - 0.88



Mahogany Crown Flash
F72
Solar Reflectance - 0.35
Thermal Emittance - 0.85



Mahogany
2F72
Solar Reflectance - 0.27
Thermal Emittance - 0.85



Burnt Sienna Crown Flash
F22
Solar Reflectance - 0.30
Thermal Emittance - 0.85



Burnt Sienna
2F22
Solar Reflectance - 0.27
Thermal Emittance - 0.86



Custom Burnt Sienna Light
B392L-R
Solar Reflectance - 0.38
Thermal Emittance - 0.85



Custom Burnt Sienna Medium
B392M-R
Solar Reflectance - 0.32
Thermal Emittance - 0.86



Custom Burnt Sienna Dark
B392D-R
Solar Reflectance - 0.27
Thermal Emittance - 0.86



Custom Mahogany Light
B393L-R
Solar Reflectance - 0.37
Thermal Emittance - 0.85



Custom Mahogany Medium
B393M-R
Solar Reflectance - 0.35
Thermal Emittance - 0.85



Custom Mahogany Dark
B393D-R
Solar Reflectance - 0.33
Thermal Emittance - 0.86



Tierra Brown Extra Light Extra Light
B2F45XL-MSCXL
Solar Reflectance - 0.44
Thermal Emittance - 0.85



Tierra Brown Extra Light Light
B2F45L-MSCXL
Solar Reflectance - 0.37
Thermal Emittance - 0.85



Tierra Brown Extra Light Medium
B2F45M-MSCXL
Solar Reflectance - 0.34
Thermal Emittance - 0.86



Tierra Brown Extra Light Dark
B2F45D-MSCXL
Solar Reflectance - 0.31
Thermal Emittance - 0.86



Ironwood Crown Flash
F19
Solar Reflectance - 0.28
Thermal Emittance - 0.83



Ironwood
2F19
Solar Reflectance - 0.28
Thermal Emittance - 0.83

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.

(Edit as required. Delete non-applicable statements.)

1. GENERAL

(use the standard Part1 of your office)

2. PRODUCTS

2.1. ROOFING TILE:

- Where indicated on the Drawings, provide Classic "S" Mission™ Style roofing tile manufactured by M.C.A. Clay Roof Tile, Inc., 1985 Sampson Avenue, Corona, CA 92879, phone 800-736-6221, FAX (951) 736-6052, in color "_____", and with birdstop at eaves.
- Comply with pertinent provisions of ASTM C1167 (Grade 1) , and IAPMO ES 0356, and with the *Tile Roof Institute Manual*.

2.2. Other materials:

A. Membrane:

- Under all Classic "S" Mission™ Style roofing tile on roof pitches less than 3:12, except where heavier membrane is required by governmental agencies having jurisdiction, provide not less than two layers of 30 lb (14 kg) asphalt-saturated felt placed at right angles to roof pitch, mopped solidly between layers with 25 lbs (10 kg) of hot asphalt and mopped solidly on top of layers with hot asphalt.
- At roof pitches of 3:12 and steeper, provide a minimum of two layers of membrane complying with ASTM D226, Type 30 (14 kg), or upgrade material.
- If Polyset AH160 roof tile adhesive is used, use approved underlayment and apply large paddy placement (see Polyset application detail).
- Provide in strict accordance with pertinent requirements of governmental and/or other agencies having jurisdiction.

B. Nailers:

- Where indicated on the Drawings or otherwise required for proper nailing, provide:
 - 2" x 6" (50 mm x 152 mm) nailing strips at all hips and ridges;
 - 2" x 3" (50 mm x 76 mm) nailing strips under first row of cover tile after gable roll, with adjacent 2" x 2" (50 mm x 50 mm) nailing board along rake side;
 - 2" x 4" (50 mm x 102 mm) nailing board full length from ridge to eave for all top tile where architect specifies 2" x 4" nailing system.

C. Flashing:

- Flash at roof valleys in strict accordance with IBC or required by local governmental agencies having jurisdiction:
 - For valley flashing use not less than 0.019" (G90) (No. 26 gage) (.48 mm thick) corrosion resistant metal, extending at least 11" (279 mm) away from the centerline of the valley each way;
 - Provide a splash diverter rib not less than 1" (25 mm) high at the flow line, formed as part of the flashing;
 - Provide flashing overlap of not less than 4" (102 mm).
- For other flashing use not less than 0.019" (G90) (No. 26 gage) (.48 mm thick) corrosion resistant metal; at sides of dormers, chimneys, and other walls, extend flashing at least 6" (152 mm) up the vertical surface.
 - Thoroughly counterflash.
 - Extend flashing under tile at least 4" (102 mm), and turn the edge up 1-1/2" (38 mm).
- At lower side of dormers, chimneys, and other walls, extend flashing at least 3" (76 mm) up the wall and 4" (102 mm) over the tile, and then thoroughly counterflash.
- At wood saddles and returns, line with not less than 0.019" (G90) (No. 26 gage) (.48mm thick) corrosion resistant metal or 16 oz (454 g) copper extending up sloping roofs not less than 12" (305 mm), and more where necessary, and up vertical walls not less than 6" (152 mm), thoroughly counterflashed.
- Make all counterflashing plugged, pointed, and secure.
- Extend gutter metal up the roof to a point higher than the outer edge of the gutter.

D. Mortar, plastic cement, and sealant:

- To prevent lift up of tiles at hip, ridge, and gable, provide plastic cement at headlap portion of those tiles
- At gable, hip, ridges, and other conditions, provide a non-running, heavy body, plastic cement composed of asphalt and other mineral ingredients complying with ASTM D4586 and Fed Spec SSC-153 Type 1.
- When using sealant in lieu of the plastic cement, provide a silicone sealant complying with ASTM D1002 or ASTM E42.

E. Fasteners:

- Fasteners shall comply with IRC section R905.3.6 and IBC section 1507.3.6 and UBC Section 1507.3. Corrosion resistant meeting ASTM A641 Class I or approved equal, number 11 gauge diameter and of sufficient length to properly penetrate 3/4" into or through the thickness of the deck or batten, whichever is less. The head of the nail used for tile fastening shall not be less than 5/16" and shall comply with ASTM F1667 for dimensional tolerances. Other fastening systems such as screws, wire, or adhesive based systems as approved by code or local building officials will be allowed.
- In areas designated by the building official as being subject to high winds that exceed 80 mph, or where roof height exceeds 40 ft (12m) above grade, attach all tiles in strict accordance with Chapter 15 of UBC (or IBC Table 15-D-1, Footnote 2), or as required by local governmental agencies having jurisdiction.
 - Nail the heads of all tiles;
 - Fasten the noses of all eave course tiles with approved clips;
 - Nail rake tiles with two nails;
 - Set the noses of all ridge, hip, and rake tiles in a bead of approved mastic.
- On slopes over 24:12, securely fasten the nose end of all tiles.
- Provide "Wind Locks" where directed by the Architect.
- Tile tie systems of stainless steel or galvanized wire may be used where approved by governmental agencies having jurisdiction.
- At snow areas use "Wind Locks" with straw nails. In lieu of straw nails, install vertical 2x4 nailer boards full length from ridge to eave for all top tiles.

F. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Architect.

2.3 FOR METAL OR POURED CONCRETE ROOF DECKS:

- Where design indicates concrete roof deck or metal roof deck, Twisted Tile-Tie system or Polyset AH160 roof tile adhesive may be used where approved by the governmental agencies having jurisdiction.
 - If Twisted Tile-Tie system is used, follow MCA Tile-Tie system detail.
 - At coastal areas use only stainless steel;
 - At high wind and snow areas use "Wind Locks";
 - Twisted Wire anchor span is no more than 4 feet
 - If Polyset AH160 roof tile adhesive is used, apply large paddy placement (see Polyset application detail)

3. EXECUTION

3.1 SURFACE CONDITIONS:

- Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION GENERAL:

A. Membrane:

- Verify that deck surfaces are clean and dry prior to installation of membrane.
- Remove all foreign particles from substrate to assure proper seating and to prevent water damage.
- Install the specified membrane in strict accordance with pertinent requirements of governmental agencies having jurisdiction.

B. On vertical applications, and on extremely steep pitches where wind currents may cause lift

- Set the butt of each tile in a bead of the specified plastic cement or sealant, or provide stainless steel "Wind Locks" at intervals. Use plastic cement and sealant carefully, and avoid smearing the exposed tile surface.

C. Chalk lines:

- Chalk horizontal and vertical guide lines on the membrane to assure water tightness and proper appearance.
- Space the chalk lines by measuring the delivered tiles for average length and width exposures.
- Do not exceed an exposure length 1/4" (6 mm) beyond the average.

3.3 INSTALLING CLASSIC "S" MISSION™ WITH TWO PIECE EAVE TILES:

1. Birdstops and booster starters:

- Install the specified clay birdstops or concrete mud ball full length of all eaves.
- Install first row of Classic Two Piece Mission Pans 13" (330mm) from the eave, leaving a 3" (76mm) overhang; exposure length shall not exceed 16" (406mm) centers, and width exposure shall not exceed 10" (254mm) centers. If rain gutter is involved use 1 1/2" (38mm) overhang.
- Install booster above birdstops.
- Install Classic Two Piece Mission Tops directly above booster tiles; length exposure shall not exceed 13" (330 mm) centers, and width exposure shall not exceed 10" (254 mm) centers.
- Install the specified nailers at ridges, rakes, and gables.

2. Install Classic "S" Mission tile in rows from left or right, beginning at the lowest portion of the roof.

- Install each tile successively, fastening each tile with the specified fasteners.
- Length of exposure on field tile shall not exceed 16" (406 mm) on centers, and width exposure on field tiles shall not exceed 10" (254 mm) on centers.
- Install ridge, hip, and valley tiles in accordance with pertinent requirements of governmental agencies having jurisdiction.
 - Provide cement mortar at all ridges and hips to completely seal the area under ridge and hip tiles.
 - Completely and neatly fill and point up all voids.

3. To avoid color patterning, checker boarding, spotting, and stair stepping:

- After the installation of each 80-100 roofing tiles, make a visual inspection from the ground level and at a distance from the building of about 40 feet (12m);
- Verify that tile courses follow straight and true lines;
- Verify that color range is smooth with no abrupt changes.
- Make necessary corrections before proceeding with further installation.

3.4 CLEANING UP:

- Upon completion of the work of this Section, and as a condition of its acceptance, completely remove from the job site all tools, equipment, debris, and surplus materials pertaining to this portion of the work.

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 MCA 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. MCA 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, MCA 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 MCA Roof Tiles are installed, no maintenance is required.



MCA[®]
Clay Roof Tile

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

