

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9908918
Insp Area: 1

Site Address: 2820 NOTRE DAME DR SAC
Parcel No: 079-0171-001

Sub-Type: RES
Housing (Y/N): N

CONTRACTOR
CAL-PAC ROOFING
11267 COLOMA RD
RANCHO CORDOVA CA 95670

OWNER
MATSUMOTO MICKEY M/JOYCE E
2820 NOTRE DAME DR
SACRAMENTO CA 95826

ARCHITECT

Nature of Work: OVERLAY SHAKE WITH LIGHTWT. STEEL TILE/28 SQ

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class: C-39 License Number: C116821 Date: 8-11-99 Contractor Signature: Cal-Pac J.D. Gray

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00):

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

____ I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date: 8-11-99 Applicant/Agent Signature: J.D. Gray

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier: STATE FUND Policy Number: 1461825-98 Exp Date: 08/01/1999

____ (This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 8-11-99 Applicant Signature: J.D. Gray

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Services
916-264-7619
FAX 916-264-7046

TILE ROOF WORKSHEET

This worksheet must be filled out whenever any type of tile roof is applied for.

If the answer to question #5 is yes, a written engineering report from a registered engineer must be provided with each application.

1. BRAND AND MODEL OF TILE Decra Tile
2. TILE WEIGHT PER SQUARE 150 lbs.
3. WEIGHT OF ROOF SYSTEM PER SQUARE 157 lbs.
4. TOTAL WEIGHT OF ROOF SYSTEM 3300 lbs.
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE 4/12

PLEASE PROVIDE A SEPARATE WORKSHEET FOR EACH APPLICATION INVOLVING A TILE ROOF.

Reviewed by Matt P. 8/11/99



ICBO Evaluation Service, Inc.

5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2299

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EVALUATION REPORT

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Filing Category: ROOF COVERING AND ROOF DECK CONSTRUCTION—ROOF COVERING (202)

DECRA STEEL ROOFING PANELS
CARTER HOLT HARVEY ROOFING, INC.
1230 RAILROAD STREET
CORONA, CALIFORNIA 91720

1.0 SUBJECT

Decra Tile, Decra Shake, and Decra Slate Steel Roofing Panels.

2.0 DESCRIPTION

2.1 General:

The roofing panels are pressure-formed from structural-quality sheet steel complying with ASTM Designation A 792, Grade 37, with an AZ50 class, hot-dip aluminum-zinc alloy coating. The base metal thickness for the steel is No. 26 gage [0.0159 inch (0.4 mm)]. The steel has a minimum yield strength of 37,000 psi (255 MPa). The overall panel size of Decra Tile is 16 1/2 inches (419 mm) by 52 1/4 inches (1327 mm), with an installed exposure of 14 1/2 inches (368 mm) by 49 1/2 inches (1257 mm). The overall panel size of Decra Shake is 14 1/2 inches (368 mm) by 53 inches (1346 mm), with an installed exposure of 12 5/8 inches (321 mm) by 51 inches (1295 mm). The overall panel size of Decra Slate is 15 1/2 inches (394 mm) by 51 1/2 inches (1308 mm), with an installed exposure of 12 5/8 inches (321 mm) by 49 1/4 inches (1251 mm). Side panel laps are 2 inches (51 mm). The Decra Tile panel has curved pan sections that form a tile profile, while the Decra Shake panel has impressions forming individual irregular shake pieces across the panel. The Decra Slate panel consists of raised and lowered sections that form a series of rectangular slate pieces. The panel butt edges are bent down approximately 1 inch (25.4 mm) to provide an overlap for weather protection and nailing purposes. The top back edge of each panel is bent up vertically, then lipped back horizontally from 1 inch (25.4 mm) to 1 1/2 inches (38 mm). Each panel weighs approximately 6.5 pounds (3 kg). The installed weight of the Decra system is approximately 150 pounds per square (7.3 kg/m²).

Both sides of the aluminum-zinc alloy coated base of the Decra panels are treated with a corrosion-inhibiting coating. An opaque base coat of acrylic resin is applied to exposed surfaces, followed by embedment of colored stone chips. The surface is then spray-finished with 100 percent acrylic resin clear overglaze and oven-baked to cure.

2.2 Roof Slope:

The steel panels described in this report may be installed on roof slopes of 3:12 (25 percent slope) and greater without an underlayment. For roof slopes 2 1/2:12 (21 percent slope) to less than 3:12 (25 percent slope), installation requires solid sheathing and underlayment as described in Section 2.3, below. For roof slopes less than 2 1/2:12 (21 percent slope), the

panels must be installed over a roof covering system installed in accordance with the code, subject to building official approval.

2.3 Underlayment:

In areas subject to wind-driven snow, ice build-up, wind-driven dust or sand, or other areas as designated by the building official, an underlayment, and both of the following, are required:

1. Solid sheathing with two layers of Type 15 felt or one layer of Type 30 felt for the field of the roof. For installations without solid sheathing, underlayment must comply with the ICBO ES Acceptance Criteria for Concrete Tile Underlayment on Spaced Sheathing (AC08), and must be recognized in an ICBO ES or NES evaluation report.
2. Solid sheathing with two layers of Type 15, felt applied shingle-fashion, solidly cemented together with approved cementing material between the plies, extending from the eave up the roof to a point 36 inches (914 mm) inside the exterior wall line of the building.

2.4 Battens:

Battens are used for fixing the panels to the framing member, and must be nominal 2 by 2 standard grade Douglas fir-larch or better. When acting as spaced sheathing, the battens are to be limited to supports spaced a maximum of 24 inches (610 mm) on center.

attach to
1x4
under fram.

2.5 New Construction Application:

See Figure 1. The panels are installed on wood battens placed 14 1/2 inches (368 mm) on center for Decra Tile, or placed 12 5/8 inches (321 mm) on center for Decra Shake and Decra Slate, over solid or spaced sheathing, and fastened to the supporting framing member with 16d common nails or equivalent when using nominal 2 by 2 lumber. Where the rafter length matches the full panel course, the batten spacings are measured from the face of the ridge board downward. Where the rafter length does not match full panel courses, measurements are from the face of the fascia board up to the face of succeeding battens. The panel width adjacent to the ridge board is adjusted by cutting and bending vertically in the field. All ridges and hips are provided with either two nominal 2 by 2 boards or one nominal 2 by 4 board. Valleys must be flashed in accordance with Section 1508.3 of the code. Where the roof slopes range from 2 1/2:12 to less than 3:12, flashing sections have minimum 6-inch (152 mm) end laps. All panels are nailed in place on the roof before any cutting and placement at hips and valleys. The panels should be staggered. In cases where staggering is not practical, straight-laying the panels in adjacent rows is acceptable.

Panels are fastened to the wood battens with a minimum of four, 6d, corrosion-resistant common nails, or equivalent. One nail is placed near the bottom on the downturn of the pan-

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This report is based upon independent tests or other technical data submitted by the applicant. The ICBO Evaluation Service, Inc., technical staff has reviewed the test results and/or other data, but does not possess test facilities to make an independent verification. There is no warranty by ICBO Evaluation Service, Inc., express or implied, as to any "Finding" or other matter in the report or as to any product covered by the report. This disclaimer includes, but is not limited to, merchantability.

el, approximately 1 inch (25.4 mm) from the overlapped edge of the adjoining panel. The remaining nails are evenly spaced across the panel at the same placement as the first nail. Care must be exercised in the nailing process to avoid striking the finished panel surfaces. Gable rakes are provided with a continuous gable cap piece or barge cover, with the exposed surface treated the same as the roofing panels. Ridges and hips have the panels fastened to the side of the ridge or hip boards after mitering and bending, and are capped with minimum No. 26 gage aluminum-zinc coated, formed, stone-coated steel caps. Openings in the roof covering must be flashed in accordance with Sections 1402.2 and 1509 of the code and Figure 1 of this report. The panels may be cut using a guillotine, circular saw with a carborundum blade, or a saber saw with a metal cutting blade for mitering to the valley and hip angles. A portable brake press is used when making a right-angle bend for panel installation at ridge and hip locations.

Openings through the panels for vents, etc., must be adequately weatherproofed as described in this section, and supported by additional blocking or roof framing as necessary.

2.6 Roof Covering Classification:

Decra roofing panels installed in accordance with Section 2.5 are recognized as a Class A roof covering under Section 1504 of the 1994 *Uniform Building Code*TM. Under the 1996 Accumulative Supplement the roof covering is considered non-combustible.

2.7 Reroofing Application:

2.7.1 General: When the old roof covering is completely removed, all conditions noted in Sections 2.1 through 2.6 shall apply. The existing structure must be inspected as set forth in Appendix Chapter 15 of the *Uniform Building Code*.

Decra steel roofing panels may also be installed over existing wood shake, wood shingle, asphalt shingle, or built-up roofs, provided the roof slope complies with Section 2.2. When a Decra steel panel roofing assembly is installed over an existing classified roof covering, the classification remains unchanged. When a Decra steel panel roofing system is installed over wood shingle or shake roofs, the entire roof surface must be covered with mineral fiber, glass fiber, gypsum sheathing or other approved materials in accordance with Section 1516.3 of the code, and firestopped in accordance with Table A-15-A of the UBC Appendix.

2.7.2 Installation Requirements for Reroofing: Class C: Wood shake and wood shingle ridge and hip caps must be removed, and the existing roof covering cut back flush with the fascia or barge cover. Nominal 1 by 4 wood counterbattens are installed parallel to the framing (perpendicular to the eaves) at a maximum spacing of 24 inches (610 mm). Counterbattens are securely fastened to framing members using nails of sufficient length to penetrate 1 inch (25.4 mm) into the framing member or through minimum 3/4-inch-thick (19.1 mm) sheathing. Nail spacing is 12 inches (305 mm) on center. The diamond point of the nail must be fully exposed on the underside of the sheathing. Care should be taken to avoid splitting the battens and counterbattens. Nominal 2 by 2 battens are spaced 14 1/2 inches (368 mm) on center for Decra Tiles, and spaced 12 5/8 inches (321 mm) on center for Decra Shake and Decra Slate, and are nailed to the counterbattens using 16d common nails or equivalent. The panels are fastened to the battens in the same manner as shown in Section 2.5. New flashings are installed over and around all existing valleys, vents and chimneys in accordance with local code requirements. The valley used in reroofing must be as shown in Figure 1.

When the Decra steel panel roofing system is installed over wood shingle or shake roofs, 1 1/2-inch-thick (38 mm) fiberglass insulation is installed over the existing wood roof, between the 2 by 2 battens, to comply with the requirements of Section 1516.3 and Table A-15-A of the UBC Appendix. See Figure 4 for Class 'C' Roofing Assembly. All exposed wood

used must be covered with No. 26 gage [0.019 inch (0.48 mm)] corrosion-resistant metal flashing.

For installation over existing built-up roof coverings, all loose gravel and debris must be swept off. Blisters in the plies must be cut and nailed flat. Raised perimeters, such as gravel stops, must be covered by the Decra roofing system. The system may be installed over integral gutters, provided there is a fascia board nailed to the rafters and installed outside the gutter. The battens and counterbattens are nailed in accordance with this section.

2.7.3 Installation Requirements for Reroofing: Class B: When a Class B roof covering system is desired over an existing nonrated roof covering as described in Section 2.7.1, installation is as set forth in Section 2.7.2, with the following addition: Mineral-surfaced, 72-pound cap sheet, listed by a quality control agency possessing an ICBO ES or NES evaluation report, is installed in the customary manner, with 2-inch (51 mm) head laps over the existing roof covering system, prior to application of the 1 by 4 counterbattens and the 2 by 2 battens. The cap sheet functions as a fire-resistive sheet and may also be used to satisfy the underlayment requirement of Section 2.3. Additionally, when the Decra Steel panel roofing system is installed over wood shingle or shake roofs, 1 1/2-inch-thick (38 mm) insulation is installed between the 2 by 2 battens and over the surface of the cap sheet in order to comply with the requirements of Section 1516.3 and Table A-15-A of the UBC Appendix.

As an alternative to using mineral-surfaced 72-pound cap sheet for Class B installations, an underlayment of 1 1/2-inch-thick (38 mm) foil-faced fiberglass batt insulation, listed by a quality control agency which has an ICBO ES or NES evaluation report, may be installed with the foil face up, with 2-inch (51 mm) headlaps over the existing roof surface, prior to the installation of the battening system. The installation of 1 1/2-inch-thick (38 mm) foil-faced fiberglass insulation over wood shingle or shake roofs satisfies the requirements of Section 1516.3 and Table A-15-A of the UBC Appendix. See Figure 4 for Class 'B' Roofing Assembly.

2.7.4 Installation Requirements for Reroofing: Class A: Installation shall be as set forth in Section 2.7.2, except as follows: a layer of minimum 1/2-inch-thick (12.7 mm) water-resistant core gypsum sheathing complying with ASTM C 79-92 is installed over the counterbattens using 4d drywall nails. The gypsum sheathing joints must be tightly butted. When the Decra Roofing system is installed over an existing wood shingle or shake roof, the space between the existing wood roof and the 1/2-inch-thick (12.7 mm) gypsum sheathing, and the space between the gypsum sheathing and the new roof covering, must be firestopped with mineral fiber, glass fiber, or gypsum sheathing, with spacing to result in a maximum contained area of 100 square feet (9.29 m²), in order to comply with the requirements of Section 1516.3 and Table A-15-A of the UBC Appendix. See Figure 4 for Class 'A' Roofing Assembly.

2.8 Structural Diaphragm:

The Decra panel roofing systems may be used as structural roof diaphragms when constructed as follows: Installation over an existing wood shake roof is acceptable, provided the shakes are in nailable condition, with all shakes securely fastened in accordance with Table 15-B-2 of the code. If the shakes are installed on nominal 1 by 6 spaced sheathing nailed to framing as specified in the code, or if the shakes are installed over solid sheathing, 1 by 4 counterbattens aligned over framing 24 inches (610 mm) on center maximum, are secured with nails at 10 inches (254 mm) on center. The nails must be long enough for the diamond point to penetrate through the sheathing. Nails must be within 6 inches (152 mm) of counterbatten ends. With existing wood shake or shingle roofing removed, the counterbatten nail size must be minimum 16d. If the shakes are installed over nominal 1 by 4 spaced sheathing nailed to the framing in accordance with the code, 1 by 4 counterbattens aligned over framing at a

1 1/2" nailing to truss