

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: **0518135**

Insp Area: 2

Thos Bros: 317A5

Site Address: **6130 SOUTH LAND PARK DR SAC**

Parcel No: 024-0271-001

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR

BRAZIL QUALITY ROOFING INC
3219 FITZGERALD RD
RANCHO CORDOVA, CA 95742

OWNER

GILES HAROLD/DONNA L
6130 SOUTH LAND PARK D
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: REROOF - T/O; RESHEET; INSTALL 44SQ LIGHTWEIGHT TILE ON SFD & GAR

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-29 License Number 747348 Date _____ Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractor's 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 11/15/05 Applicant/Agent Signature [Signature]

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 MAINSTAY Policy Number WCCN6403164183041 Exp Date 02/28/2006

(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 11/15/05 Applicant Signature [Signature]

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.



CITY OF SACRAMENTO
 PLANNING & BUILDING DEPARTMENT
 BUILDING DIVISION

www.cityofsacramento.org
 Help Line: 1-916-264-5656 OR 1-866-EZ-PERMIT
 Inspection: 1-916-808-4677



North Permit Center 1-916-808-2354
 2101 Arena Blvd., Suite 200, Sacramento, CA 95834

Fax # 916-264-1901

Downtown Permit Center 1-916-264-6807
 1231 I Street, Suite 200, Sacramento, CA 95814

FAXED PERMIT APPLICATION
 (certain restrictions apply)

Faxed request must be received in this office by 3:00 P.M. to be processed the following work day.

Note: Contractors must have a current certificate of Worker's Compensation Insurance.

Note: Work started before a Building Permit is issued will be subject to quad fee.

IN ORDER TO PROCESS THIS REQUEST ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:

RESIDENTIAL APARTMENTS (4+ units per building) COMMERCIAL (limited)

Contract Price \$ 30,600.00

6180 SOUTH LAND PARK

Job Address: 6180 SOUTH LAND PARK

Contact Person: JOHN GALIOTTO

Property Owner: HERALD GILES

Address: 6180 SOUTH LAND PARK

City/State/Zip: SAC, CA 95831

Phone: 916-428-0391

Contact Phone: 916-825-8081

Contractor: BRAZIL QUALITY ROOFING

Address: 3219 FITZGERALD RD

City/State/Zip: PANCHO CORDOVA, CA 95742

Phone: 916-858-8050 FAX: 916-858-8052

NATURE OF REQUEST: Indicate from the selections below & provide details under description of work.

Reroof (excluding tile)
 Tear-Off
 Resheet
 House Garage
 # Stories: ONE
 # Squares: 44
 Material: tile
 Siding
 Wood
 T-111
 Horiz
 Vinyl
 Stucco

HVAC Installations (Residential Only)
 Change-out New
 Heat Pump Package
 Split system
 Roof mount
 Cut-in
 Heat pump or elect. unit to gas.
 Wall furnace
 Other (describe below)
 Value of duct work: \$ _____
 Equipment: \$ _____
 Cut-in: \$ _____

Water Heater (Residential Only)
 Gas Electric
 Change-out
 Electric to Gas
 Relocate
 New
 Dry Rot or Termites
 Damage Repair (Describe Locations Below)

Minor Electric and/or Minor Plumbing (Residential Only)
 Electric Service Change # _____
 New electric circuits
 Re-wire
 Water Service Replacement
 Sewer Service Replacement
 Gas Line Replacement
 Re-plumb
 Water Waste

Public Utilities Safety Inspection (Residential and single apartment units Only)
 SMUD
 PG&E

*Design Review approval may be required.

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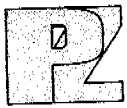
*Design Review approval may be required.

DESCRIPTION OF WORK:

◆ NOTE:
 Correction Notice items will require an additional building permit.

0518135

Giles



Paul Zacher - Structural Engineers, Inc
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.6552

CITY COPY

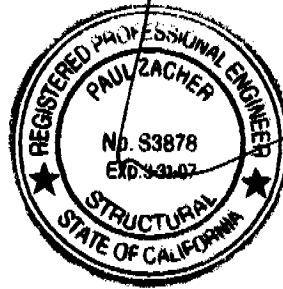
October 14, 2005

Brazil Roofing
3219 Fitzgerald Road
Rancho Cordova, CA 95702
TEL: (916) 858-8050
FAX: (916) 858-8052

ISSUED
City of Sacramento

NOV 15 2005

**NORTH PERMIT
CENTER**



Attn.: Mr. Mike Brazil,

re: Job 2005554: GILES

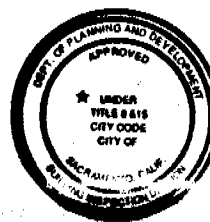
Subject: Structural Investigation Report of the Roof for the Residence located at 6130 South Land Park Drive, Sacramento, CA 95831.

As requested by Mr. Mike Brazil, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site October 4, 2005. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report are based on the 1997 Uniform Building Code with 2001 CBC Title 24 Amendments.

The following is based on visual observations with no subsurface investigation being made.

DESCRIPTION:

Type of Facility:	Residence.
Year Built:	Estimated 1960's vintage.
Occupancy:	Residential.
No. of Stories:	One.
Dimensions:	Approximately 3000 square feet.



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

OKAY by DH bycar 11/15/05

CONSTRUCTION:

Roof:
The roof covering will consist of a Light Weight Concrete Tile over 7/16" solid sheathing. The roof structure is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 8'-0" on center by 2x4 struts bearing on walls below. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

CONCLUSIONS:

Roof:
The roof structure currently lacks sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the roof structure up to the required capacity. There is an existing sag in the garage door header of approximately 2 inches due to the original construction.

RECEIVED PERMITS DEPARTMENT 11/15/05

*SEM
Tile
165
AP*

1/4

Giles



Paul Zacher - Structural Engineers, Inc
4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.6552

RECOMMENDATIONS:

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work.

Roof Structure:

1. Shim the areas as required where the existing sags occur to provide an even contour at the roof level. See detail 1.
2. Add a 2x6 DF#2 x 24'-0" long purlin with 2x4 struts to the bearing walls below. The maximum spacing between the struts shall not exceed 6'-0" on center. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts shall not be less than 45 degrees from the horizontal. See detail 1.
3. Scab a 2x6 rafter to the existing 2x6 rafters with 16d's @ 12" on center where the span is greater than 12'-0". The rafter to be scabbed to the existing rafter may be held short of the intersecting bearing wall, hip, valley, ridge or purlin by no more than 4". See detail 1.
4. Provide additional 2x4 struts from the existing purlins to the bearing walls below. The maximum spacing between the new and existing struts shall not exceed 6'-0" on center. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts shall not be less than 45 degrees from the horizontal. See detail 1.

It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure.

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects that are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

Sincerely,

Paul Zacher, P.E., S.E.
file

Job #: 05_554

Date: 10/14/2005

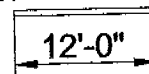
LOADING:

Rafter:

Dr = 11.6 psf x 2'-0" = 23.2 plf
Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

23.2 / 32.0

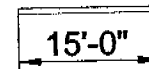


Rafter:

Dr = 11.6 psf x 2'-0" = 23.2 plf
Lr = 16.0 psf x 2'-0" = 32.0 plf

2-2x6 #2

23.2 / 32.0

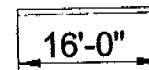


B1:

Dr = 11.6 psf x 7'-0" = 81 plf
Lr = 16.0 psf x 7'-0" = 112 plf

4x12 #2

81 / 112

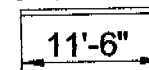


B2:

Dr = 11.6 psf x 7'-0" = 81 plf
Lr = 16.0 psf x 7'-0" = 112 plf

4x10 #1

81 / 112

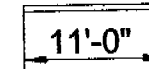


B3:

Dr = 11.6 psf x 7'-0" = 81 plf
Lr = 16.0 psf x 7'-0" = 112 plf

4x8 #1

81 / 112



Rev: 580006
User: KW-0602844, Ver 5.8.0, 1-Dec-2003
(c)1983-2003 ENERCALC Engineering Software

Timber Beam & Joist

Giles.ecw:Calculations

Description RAFTERS AND BEAMS

Timber Member Information Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

	rafter	rafter	B1	B2	B3
Timber Section	2x8	2-2x6	4x12	4x10	4x8
Beam Width	in 1.500	3.000	3.500	3.500	3.500
Beam Depth	in 5.500	5.500	11.250	9.250	7.250
Le: Unbraced Length	ft 0.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.1	Douglas Fir - Larch, No.1
Fb - Basic Allow	psi 875.0	875.0	875.0	1,000.0	1,000.0
Fv - Basic Allow	psi 95.0	95.0	95.0	95.0	95.0
Elastic Modulus	ksi 1,600.0	1,600.0	1,600.0	1,700.0	1,700.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Sawn	Sawn
Repetitive Status	Repetitive	Repetitive	No	No	No

Center Span Data

		12.00	15.00	16.00	11.50	11.00
Span	ft					
Dead Load	#/ft	23.20	23.20	81.00	81.00	81.00
Live Load	#/ft	32.00	32.00	112.00	112.00	112.00

Results Ratio = 0.9642 0.7533 0.8344 0.5114 0.7031

Mmax @ Center	in-k	11.92	18.63	74.11	38.29	35.03
@ X =	ft	6.00	7.50	8.00	5.75	5.50
fb : Actual	psi	1,576.6	1,231.7	1,003.8	767.1	1,142.5
Fb : Allowable	psi	1,635.2	1,635.2	1,203.1	1,500.0	1,625.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	psi	55.9	35.5	52.2	44.8	56.2
Fv : Allowable	psi	118.8	118.8	118.8	118.8	118.8
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

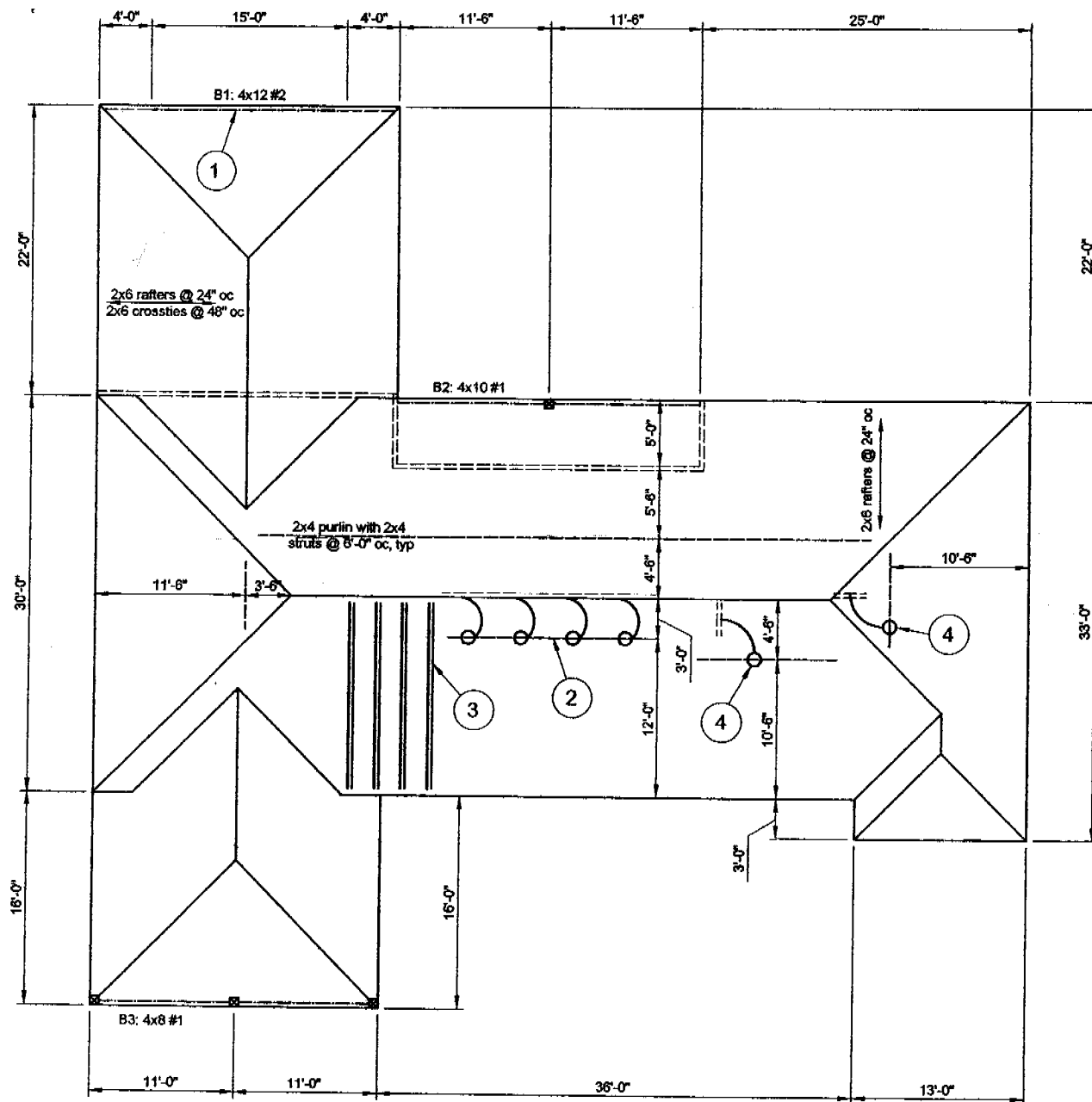
Reactions

@ Left End	DL	lbs	139.20	174.00	648.00	465.75	445.50
	LL	lbs	192.00	240.00	896.00	644.00	616.00
	Max. DL+LL	lbs	331.20	414.00	1,544.00	1,109.75	1,061.50
@ Right End	DL	lbs	139.20	174.00	648.00	465.75	445.50
	LL	lbs	192.00	240.00	896.00	644.00	616.00
	Max. DL+LL	lbs	331.20	414.00	1,544.00	1,109.75	1,061.50

Deflections Ratio OK Deflection OK Deflection OK Deflection OK Deflection OK

Center DL Defl	in	-0.325	-0.397	-0.180	-0.081	-0.141
L/Defl Ratio		442.7	453.3	1,068.1	1,699.0	934.8
Center LL Defl	in	-0.449	-0.548	-0.249	-0.112	-0.195
L/Defl Ratio		320.9	328.7	772.5	1,228.7	676.0
Center Total Defl	in	-0.774	-0.945	-0.428	-0.194	-0.336
Location	ft	6.000	7.500	8.000	5.750	5.500
L/Defl Ratio		186.1	190.5	448.3	713.1	392.3

5



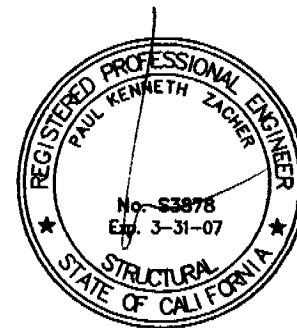
FRAMING NOTES:

1. Shim the areas as required where the existing sags occur to provide an even contour at the roof level .
2. Add a 2x6 DF#2 x 24'-0" long purlin with 2x4 struts to bearing below.
3. Scab a 2x6 to existing 2x6 rafters where the span is greater than 12'-0" (total 4).
4. Add a 2x4 strut to bearing below (total 1).

NOTES:

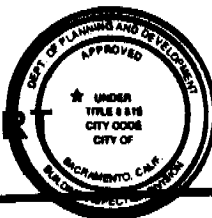
- A. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile. The tile shall weigh less than or equal to 7.3 psf.
- B. All framing members including rafters, purlins, joists and beams are existing unless otherwise noted in the framing notes above.
- C. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
- D. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.1 "Roof and Ceiling Framing" unless otherwise shown.
- E. All structural wood members that were observed appear to be in sound condition and without structural defect.

1 ROOF PLAN - GILES
Not to Scale 6





LEGACY REPORT



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. **ER-4660**
 Reissued June 1, 2003
 The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law

ICC Evaluation Service, Inc.
 www.icc-es.org

Business/Regional Office # 5360 Workman Mill Road, Whittier, California 90601 # (562) 699-0543
 Regional Office # 900 Montclair Road, Suite A, Birmingham, Alabama 35213 # (205) 599-9800
 Regional Office # 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 # (708) 799-2305

Legacy report on the 1997 *Uniform Building Code*™

DIVISION: 07—THERMAL AND MOISTURE PROTECTOR
Section: 07320—Roof Tile

EAGLE AND EAGLELITE INTERLOCKING CONCRETE ROOFING TILES

EAGLE ROOFING PRODUCTS
 3546 NORTH RIVERSIDE AVENUE
 RIALTO, CALIFORNIA 92377

1.0 SUBJECT

Eagle and Eaglelite™ Interlocking Concrete Roofing Tiles.

2.0 DESCRIPTION

2.1 General:

2.1.1 Eagle Tiles: Eagle conventional-weight interlocking concrete roofing tiles are produced in high-profile (Capistrano), low-profile (Malibu), and flat-profile styles with either smooth surfaces (Bel Air Standard, Bel Air Estate or Bel Air Double Eagle) or textured surfaces (Ponderosa Standard, Ponderosa Estate, Ponderosa Double Eagle or Ponderosa Golden Eagle). Ridge and rake trim units are produced to match each product.

The tiles are composed of Type II portland cement, washed sand, and proprietary additives. Mineral coloring oxides are added to or are mixed with portland cement and water for surface application following extrusion. Units are cured under controlled temperature and humidity conditions. Tiles are 17 inches (432 mm) long, 12³/₈ inches (315 mm) wide, and nominally 1/2 inch (12.7 mm) thick. They are manufactured in either flat or profile style with 3/4-inch-wide (19 mm) interlocking sidelaps designed to resist surface water penetration and maintain proper alignment. All tiles have protruding head lugs on the underside, which provide for mechanical attachment over wooden battens, or provide a stable foundation for nail attachment to solid decking. Two nail holes are provided in each tile for use where half tiles are needed at roof edges, chimneys, skylights, etc. Approximate installed dry weights with 3-inch (76 mm) head laps are 9.5 psf (46 kg/m²) for Capistrano tiles, 9.5 psf (46 kg/m²) for Malibu tiles and 10.0 psf (49 kg/m²) for Ponderosa and Bel Air tiles.

2.1.2 Eaglelite Tiles: Eaglelite tiles are produced in the same size, manner and shapes as the conventional-weight Eagle tiles described in Section 2.1.1, except for substitution of lightweight aggregates and additives for sand. Approximate installed dry weights with 3-inch (76 mm) head laps are 5.7 psf (28 kg/m²) for Capistrano tiles, 5.5 psf (27 kg/m²) for

Malibu tiles and 7.0 psf (34 kg/m²) for Ponderosa and Bel Air tiles.

2.2 Installation:

2.2.1 New Construction: Installation shall be in accordance with the Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions. See evaluation report ER-6034P.

2.2.2 Reroofing: Eagle tiles, as described in Section 2.1.1, provide a Class A roof when installed over existing asphalt shingle roofs. Care should be taken to ensure both horizontal and vertical alignment on the roof. Foreign matter must be cleaned from all interlocking areas. Cracked or broken tiles must be removed from the roof. Damaged or rusted flashing should be replaced. Existing framing must be adequate for the additional load. Structural data verifying adequacy should be submitted to the building official. The existing roof must be inspected in accordance with Appendix Chapter 15, Section 1515, of the 1997 *Uniform Building Code*™ (UBC). When reroofing wood shake roofs, existing shakes must be removed and solid decking and tile must be installed, as with new construction. When installed over existing spaced sheathing boards, underlayment complying with the UBC or an underlayment recognized specifically for this type of use in an ICC-ES evaluation report, installed with or without battens, may be used. One layer of No. 30 felt or approved equal underlayment must be installed on the roof prior to application of tile. In lieu of this underlayment's being provided, the building official may determine that the existing roof covering provides the required underlayment protection.

Details not covered under this section are identical to those described in Section 2.2.1.

2.3 Roof Classification:

When installed over solid sheathing in accordance with this report, Eagle and Eaglelite roofing tiles are Class A roof coverings in accordance with Section 1504.1 of the UBC. When installed over spaced or solid sheathing in accordance with this report, the tiles are noncombustible roof coverings in accordance with Section 1504.2 of the UBC. The tiles are Class A roof coverings when installed over existing asphalt shingles in accordance with Section 2.2.2 of this report.

2.4 Identification:

The name EAGLE and the evaluation report number (ER-4660) are imprinted on each tile. A tag on each shipping pallet indicates the producing plant location, product identification and the installed weight. Each Eaglelite tile is identified by the product name "Eaglelite" on a tag and a light-colored strip across the headlap area.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



3.0 EVIDENCE SUBMITTED

Results of tests in accordance with the ICC-ES Interim Criteria for Clay and Concrete Roof Tiles (AC180), dated January 2002, and a quality control manual.

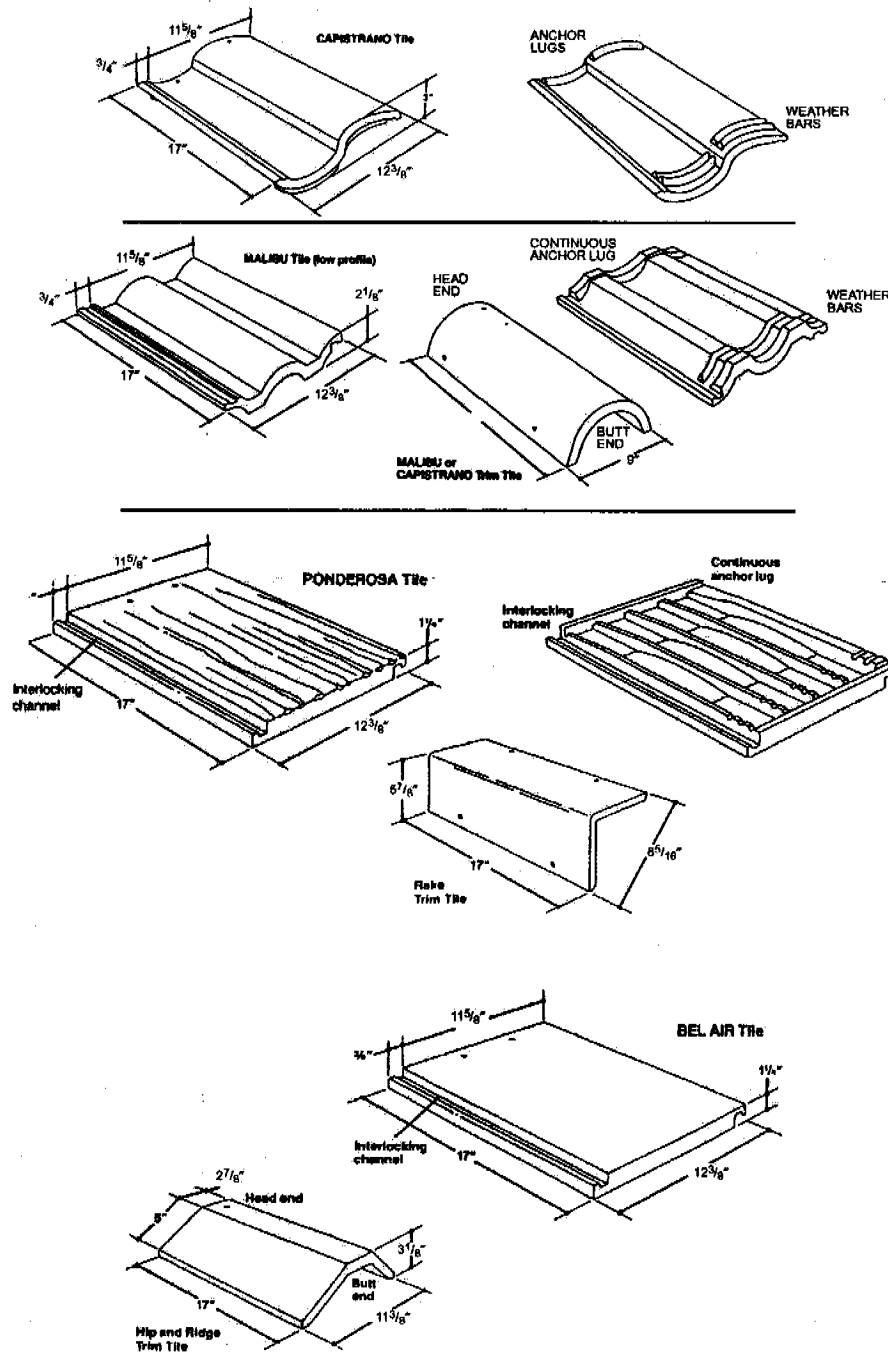
4.0 FINDINGS

That the Eagle Concrete Roofing Tiles described in this report comply with the 1997 *Uniform Building Code*™, subject to the following conditions:

4.1 Tiles are manufactured, identified and installed in accordance with this report and the manufacturer's instructions.

4.2 Tiles are manufactured at Eagle Roofing Products facilities located in Rialto, California, and Phoenix, Arizona.

This report is subject to re-examination in two years.



FIELD AND TRIM SPECIFICATIONS