

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9911056
Insp Area: 2

Site Address: 8008 WESTBORO WY SAC
Parcel No: 117-0064-007

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

CONTRACTOR
NEW CENTURY AIR
1129 LEE CIR #130
SACRAMENTO CA 95827

OWNER
SHIBATA BRUCE K & BRIDGET K
8008 WESTBORO WY
SACRAMENTO CA 95823

ARCHITECT

Nature of Work: HVAC REPLACEMENT

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 LD License Number 718740 Date 9/30/99 Contractor Signature [Signature]

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 an 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 9/30/99 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 CLARENDON NATIONAL INSURANCE Policy Number 01KR5046205 Exp Date 01/10/2000

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 9/30/99 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.



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Service
916-264-7619
FAX 916-264-7046

Jason Taira
2025 Waterview

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 Momier Villa
2. TILE WEIGHT PER SQUARE 585
3. WEIGHT OF ROOF SYSTEM PER SQUARE 150
4. TOTAL WEIGHT OF ROOF SYSTEM 735
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.

All attached engin. report

Taira



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

TEL: 916.961.3960
FAX: 916.961.3960

CONCLUSIONS:

Roof:

The living area lacks sufficient structural capacity for the applied live and dead loads. The garage has sufficient structural capacity for the applied live and dead loads.

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.

Living Area:

1. 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.

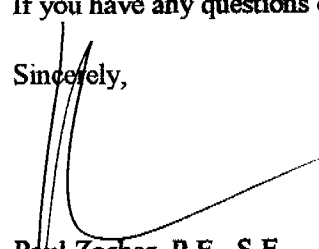
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and 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 which 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

DESIGN LOADING:

Roof Pitch 4 in 12
Pitch Adjustment Factor 1.05

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.00	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
1/2" OSB/ plywood	1.50	psf
2x6 rafters @ 24" oc	1.00	psf
	Load	10.9 psf
	Roof Pitch Adjustment	0.59 psf
	Total Load	11.5 psf

Paul Zacher-Structural Engineer
 4701 Lakeside Way
 Fair Oaks, CA 95628
 TEL: (916) 961-3960
 FAX: (916) 961-3960

Title :
 Dsgnr:
 Description :

Job #
 Date: 8:27PM, 21 SEP 99

Scope :

Rev: 510304
 User: KW-0602844, Ver 5.1.3, 22-Jun-1999, Win32
 (c) 1993-99 ENERCALC

Timber Beam & Joist

c:\enercalc\test.ecw\Calculations

Description RAFTERS AND BEAMS

Timber Member Information Calculations are designed to 1997 NDS and 1997 UBC Requirements

	rafter	porch	patio	purlin	garage header
Timber Section	2x6	4x12	4x12	2-2x12	4x12
Beam Width	1.500	3.500	3.500	3.000	3.500
Beam Depth	5.500	11.250	11.250	11.250	11.250
Le: Unbraced Length	2.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch
Fb - Basic Allow	875.0	1,000.0	1,000.0	875.0	875.0
Fv - Basic Allow	95.0	95.0	95.0	95.0	95.0
Elastic Modulus	1,600.0	1,700.0	1,700.0	1,600.0	1,600.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Sawn	Sawn
Repetitive Status	Repetitive	No	No	No	No

Center Span Data

	rafter	porch	patio	purlin	garage header
Span	12.00	15.50	16.50	16.50	16.00
Dead Load	23.00	81.00	69.00	67.00	81.00
Live Load	32.00	112.00	96.00	92.00	112.00

Results Ratio =

	rafter	porch	patio	purlin	garage header
Mmax @ Center	11.88	69.55	67.38	64.93	74.11
@ X =	6.00	7.75	8.25	8.25	8.00
fb : Actual	1,570.9	942.1	912.7	1,026.1	1,003.8
Fb : Allowable	1,604.5	1,375.0	1,375.0	1,093.8	1,203.1
	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	55.7	50.1	46.0	51.8	52.2
Fv : Allowable	118.8	118.8	118.8	118.8	118.8
	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

Reactions

	rafter	porch	patio	purlin	garage header
@ Left End DL	138.00	627.75	569.25	552.75	648.00
LL	192.00	868.00	792.00	759.00	896.00
Max. DL+LL	330.00	1,495.75	1,361.25	1,311.75	1,544.00
@ Right End DL	138.00	627.75	569.25	552.75	648.00
LL	192.00	868.00	792.00	759.00	896.00
Max. DL+LL	330.00	1,495.75	1,361.25	1,311.75	1,544.00

Deflections

	rafter	porch	patio	purlin	garage header
Center DL Defl	-0.322	-0.149	-0.163	-0.196	-0.180
L/Defl Ratio	446.5	1,248.3	1,214.8	1,009.3	1,068.1
Center LL Defl	-0.449	-0.206	-0.227	-0.269	-0.249
L/Defl Ratio	320.9	902.8	873.1	735.0	772.5
Center Total Defl	-0.771	-0.355	-0.390	-0.466	-0.428
Location	6.000	7.750	8.250	8.250	8.000
L/Defl Ratio	186.7	523.9	508.0	425.3	448.3

