

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0002217
Insp Area: 2

Site Address: 6600 HAVENSIDE DR SAC
Parcel No: 030-0130-026

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

CONTRACTOR
FERGUSON GARY DBA: JOINT EFFORTS
6729 WALNUT AVE
ORANGEVALLE CA 95662

OWNER
6600 HAVENSIDE DR
SACRAMENTO CA 95831

ARCHITECT
MUIR JENNINGS E/SHARON A

Nature of Work: TEAR OFF & REROOF W/TILE

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.

X License Class B3 License Number 607864 Date 3/6/2008 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 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.

X Date 3/6/2008 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 _____ Policy Number _____ Exp Date _____

____ (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.

X Date 3/6/2008 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.

ANDERSON ENGINEERING CONSULTANTS

225 Vista Ridge Dr.
Meadow Vista, CA 95722
Phone: (530) 878-4770

Ventilated Roofing Systems
P.O. Box 607
Orangevale, CA. 95662

February 9, 2000

Subject: Lightweight Tile Re-roof
6600 Havenside Drive
Sacramento, CA. 95801

ISSUED

MAR 08 2000

DEPT. OF SACRAMENTO
PLANNING & DEVELOPMENT SERVICES DIV.

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 in abeyance. Violation of any law or ordinance.

Dear Gary,

Pursuant to your request, Anderson Engineering Consultants has reviewed the roof framing of the structure at the above address for structural adequacy. The house is approximately 28 years old and is conventionally framed. The roof is comprised of the following:

- 2x6 rafters at 24" o.c. with a 11'-0" maximum span and ceiling joist system
- 2x6 purlins with 2x6 struts at 6' o.c. brace the rafters, see attached drawing.
- 2x8 hip boards

The roof has a pitch of 4:12 and appears to be in sound condition. 2x6 purlins support the rafters at approximately mid-span and are braced adequately to bearing members. The hip boards are 2x8's and braced adequately to bearing members. The total dead load on the rafters including roofing material does not exceed 9 psf.

OK - tear off required

Attached ICBO report requires special underlayment
flotters.

Bartile Roofs Inc. UltraLite Roofing Tile.

It is our opinion that using your proposed re-roof system consisting of the following will not compromise the structural integrity of the roof system:

- 7/8" - 22 gage hat channel fastened to the rafters with 10d galvanized nails (or equal) at 24" o.c.
- "Thermo-ply" underlayment fastened to the hat channel with #8 self-tapping screws (or equal).
- 7/8" - 22 gage steel hat channel battens over the "Thermo-ply" underlayment fastened with #8 self tapping screws (or equal) at every rafter.
- Lightweight concrete tile weighing less than 7.0 psf.

The determination of the roof's structural integrity is based on observation and known mechanical properties of wood.

After re-roofing minor cracking of the ceiling and interior and exterior walls may occur. In addition, a small amount of deflection in the rafters may be observed. These conditions are cosmetic only and do not affect the structural integrity of the roof framing.

Should you have any questions, please do not hesitate to contact us.

Sincerely,



Carl Anderson, P.E.



Project: VRS - Location: 6600 HAVENSIDE

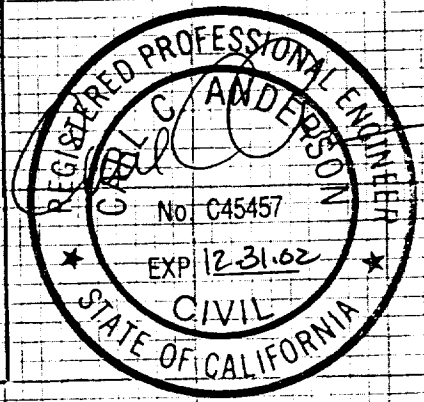
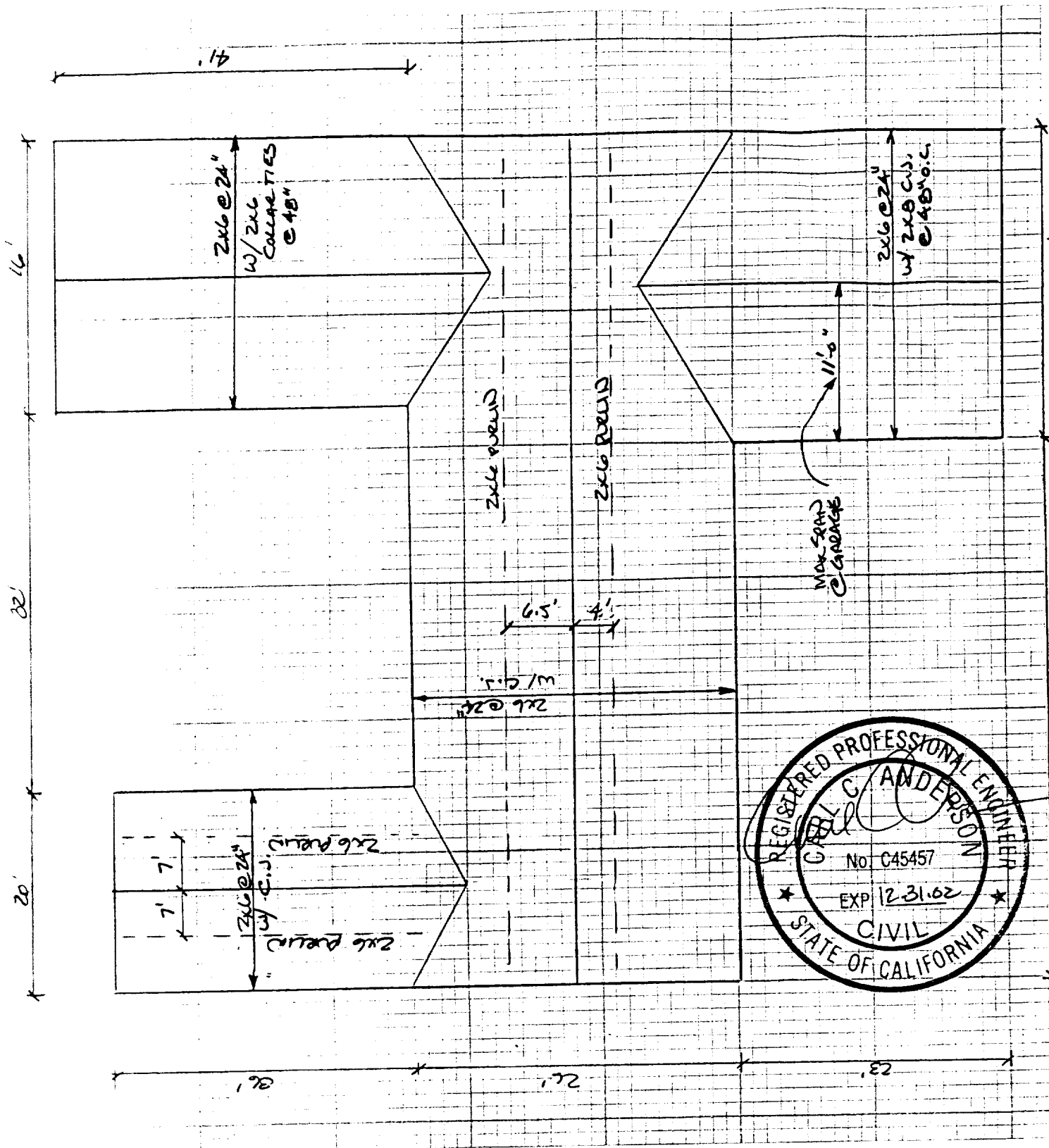
Summary:
 1.50 IN x 5.50 IN x 11.0 FT (Actual 11.595 FT) @ 24.00 O.C. / #2 - DOUGLAS FIR-LARCH - Dry Use
 Section Adequate By: 33.7% Controlling Factor: Section Modulus / Depth Required 4.94 In

Deflections:		DLD=	0.21	IN
Dead Load:		LLD=	0.35	IN = L/395
Live Load:		TLD=	0.56	IN = L/248
Total Load:				
Rafter End Loads and Reactions:		LOADS:	RXNS:	
Upper Live Load:		88 PLF	176 LB	
Upper Dead Load:		52 PLF	104 LB	
Upper Total Load:		140 PLF	280 LB	
Lower Live Load:		88 PLF	176 LB	
Lower Dead Load:		52 PLF	104 LB	
Lower Total Load:		140 PLF	280 LB	
Upper Equiv. Tributary Width:		UTWeq=	5.798	FT
Lower Equiv. Tributary Width:		LTWeq=	5.798	FT
Rafter Data:				
Interior Span:		L=	11.0	FT
Cantilever Span:		CS1=	0.0	FT
Live Load Deflect. Criteria:		L/	240	
Total Load Deflect. Criteria:		L/	180	
Rafter Spacing:		SPC=	24.00	IN O.C.
Rafter Loads:				
Roof Live Load:		LL=	16	PSF
Roof Dead Load:		DL=	9	PSF
Rafter Pitch:		RP=	4.00	: 12
Rafter Unbraced Length:		Lu=	0.0	FT
Roof Duration Factor:		Cd=	1.25	
Slope Adjusted Spans And Loads:				
Interior Span:		Ladj=	11.6	FT
Cantilever Span:		CS1adj=	0.0	FT
Rafter Live Load:		wL=	29	PLF
Roof Loaded Area:		RLA=	23	SF
Roof Live Load Method: 1				
Rafter Dead Load:		wD=	17	PLF
Rafter Total Load:		wT=	46	PLF
Properties For: #2- DOUGLAS FIR-LARCH				
Bending Stress:		Fb=	875	PSI
Shear Stress:		Fv=	95	PSI
Modulus of Elasticity:		E=	1600000	PSI
Stress Perpendicular to Grain:		Fc_perp=	625	PSI
Adjusted Properties				
Fb' (Tension):		Fb'=	1635	PSI
Adjustment Factors: Cd=1.25 Cf=1.30 Cr=1.15				
Fv':		Fv'=	119	PSI
Adjustment Factors: Cd=1.25				
Design Requirements:				
Maximum Moment(Interior Span):		Mcent=	771	FT-LB
At Location(From Upper Support):		X=	5.798	FT
Moment At Cantilever:		Mcant=	0	FT-LB
Maximum Shear:		Vmax=	266	LB
Shear At Peak:		Vpeak=	266	LB
Required Cantilever Depth:		D(cant)=	0.00	IN
Comparisons With Required Sections:				
Section Modulus:		Sreq=	5.7	IN3
		S=	7.5	IN3
Area:		Areq=	3.4	IN2
		A=	8.2	IN2
Moment of Inertia:		Ireq=	15.1	IN4
		I=	20.7	IN4



Anderson Engineering Consultants

Project: V&S RE-ROOF Job No. _____ Sheet 1 of 1
6600 HAVENSIDE DR.
 Designed By: CCA Checked By: _____ Date: 2-9-00





ICBO Evaluation Service, Inc.

5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2299

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EVALUATION REPORT

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ER-3909

Reissued May 1, 1998

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

BARTILE EXTRUDED CONCRETE ROOF TILES

BARTILE ROOFS, INC.
725 NORTH 1000 WEST
CENTERVILLE, UTAH 84014

1.0 SUBJECT

Bartile Extruded Concrete Roof Tiles.

2.0 DESCRIPTION

2.1 General:

Bartile Extruded Concrete Roof Tiles are available in European, Mission "S" and Flat styles. Flat tiles are available in shake and slate designs. The tiles are 15¹/₄ inches long by 10¹/₂ inches wide and have 1¹/₈ inch to 1¹/₄ inch interlocking double tongue-and-groove side laps. The tiles also have anchor lugs at the bottom intended for installation over wood furring strips. The lugs are typically 1/2 inch deep, 1¹/₂ inches wide and 5/8 inch thick. The tile thickness varies from 1/2 inch to 1 inch at the ribs. Accessory tiles in each style are available for rakes, ridges and hips.

The tiles are available in both standard weight and light-weight varieties for each style. They vary only in weight due to the lightweight tiles using crushed lightweight shale in place of sand.

The basic concrete mix for the tiles is three parts of white sand (crushed lightweight shale for lightweight tiles) to one part of portland cement with appropriate amounts of water, air-entraining agents and accelerators. Mineral oxide coloring is added to the mix design as desired. When installed with a standard 3-inch head lap, the following are the approximate installed weights:

DESCRIPTION	INSTALLED WEIGHT* (pounds per square foot)	
	Standard-weight Tiles	Lightweight Tiles
European	9.0	7.0
Mission "S"	9.0	7.0
Flat (Shake & Slate)	9.5	7.25

*Includes underlayment and battens.

See Figure 1 for details.

2.2 Installation:

On roof slopes less than 3:12, tiles are only considered as decorative and must be applied over an approved roof covering, subject to the local building official's approval.

2.2.1 Standard-weight Tiles: On roof slopes 3:12 to 24:12, the tiles are installed over a minimum 1/2-inch thick solid sheathing with one layer of Type 30 asphalt-saturated organic roofing felt placed with a minimum 3-inch head lap and 6-inch end lap. 1-inch by 2-inch nominal cedar or fir wood strips perpendicular to the eaves may be optionally used between 4:12 and 6:12 slope. 1-inch by 2-inch nominal wood battens are

laid parallel to the eaves and spaced maximum 12¹/₂-inches on center. Battens are attached with 8 penny common corrosion-resistant nails spaced 24 inches on center. Nails must be of sufficient length to penetrate 1 inch into or through the sheathing thickness, whichever is less. A minimum 1/2-inch space is provided between the ends of battens every 4 feet to allow for water drainage. Tiles are nailed to battens with No. 11 gage corrosion-resistant roofing nails in accordance with Tables 15-D-1 and 15-D-2 of the code. Nails must be of sufficient length to penetrate 3/4 inch into or through the thickness of the supporting member, whichever is less.

Ridge, hip and rake tiles are attached with 8 penny common corrosion-resistant nails. All tiles must have a minimum 3-inch head lap, and vertical edges must be interlocked and staggered from adjacent courses.

On slopes 3:12 to 24:12, 1-inch by 6-inch spaced sheathing, grade marked in accordance with Chapter 23 of the code and installed at a maximum 12 inches on center, may be used.

When installed on spaced sheathing, an underlayment recognized specifically for this type of use in an ICBO ES evaluation report must be installed with 6-inch side and head laps. Rake and coping tiles are fastened with two nails. See Tables 15-D-1 and 15-D-2 of the code for field and perimeter tile nailing schedule. Valley flashing consists of minimum No. 28 gauge corrosion-resistant metal extending at least 12 inches from the centerline each way. See Figure 2 for installation details.

2.2.2 Lightweight Tiles: Lightweight tiles are installed in the same manner as standard-weight tiles except that each tile is attached with roofing nails as specified in Table 15-D-2 of Chapter 15 of the code.

2.3 Identification:

The shipping pallets have labels bearing the name "Bartile," the style, color of the tile, date of manufacture, installed weight and the evaluation report number (ICBO ES ER-3909). The lightweight tile labels bear the words LT. WT. Bartile.

3.0 EVIDENCE SUBMITTED

Test in accordance with the Acceptance Criteria for Special Roofing Systems (AC07), dated July 1997.

4.0 FINDINGS

That the Bartile Extruded Concrete Roof Tiles described in this report and applied over new construction are non-combustible roof coverings complying with the 1997 Uniform Building Code™, subject to the following conditions:

Evaluation reports of ICBO Evaluation Service, Inc., are issued solely to provide information to Class A members of ICBO, utilizing the code upon which the report is based. Evaluation reports are not to be construed as representing aesthetics or any other attributes not specifically addressed nor as an endorsement or recommendation for use of the subject report.

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.

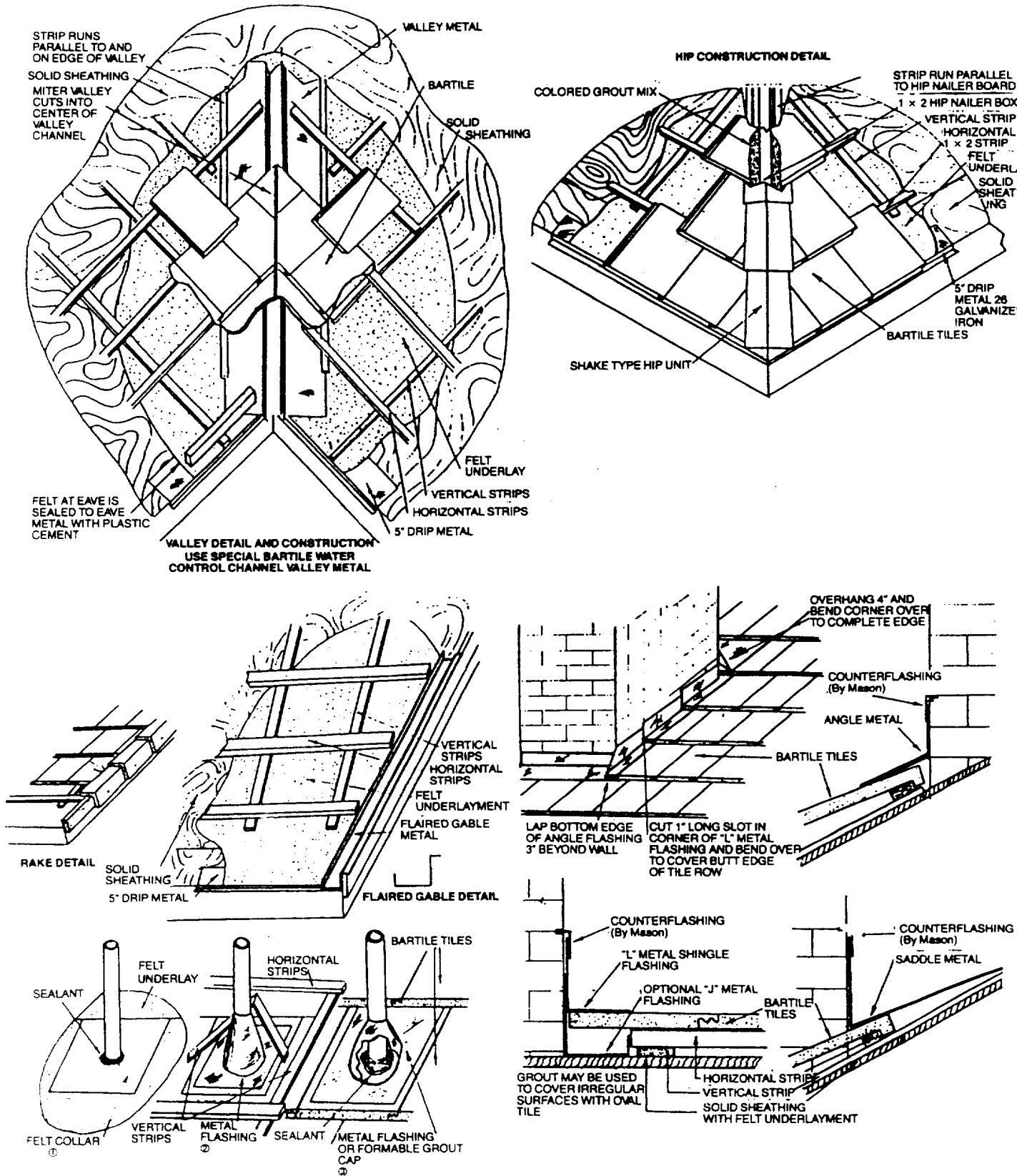


FIGURE 2

- 4.1 The tiles are manufactured, identified and installed in accordance with this report and the manufacturer's instructions.
- 4.2 Underlayment must be used in all installations, and the maximum roof slope must not exceed 24 inches

in 12 inches.

- 4.3 The tiles are manufactured at the Bartile Roofs, Inc., facility at Centerville, Utah.

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

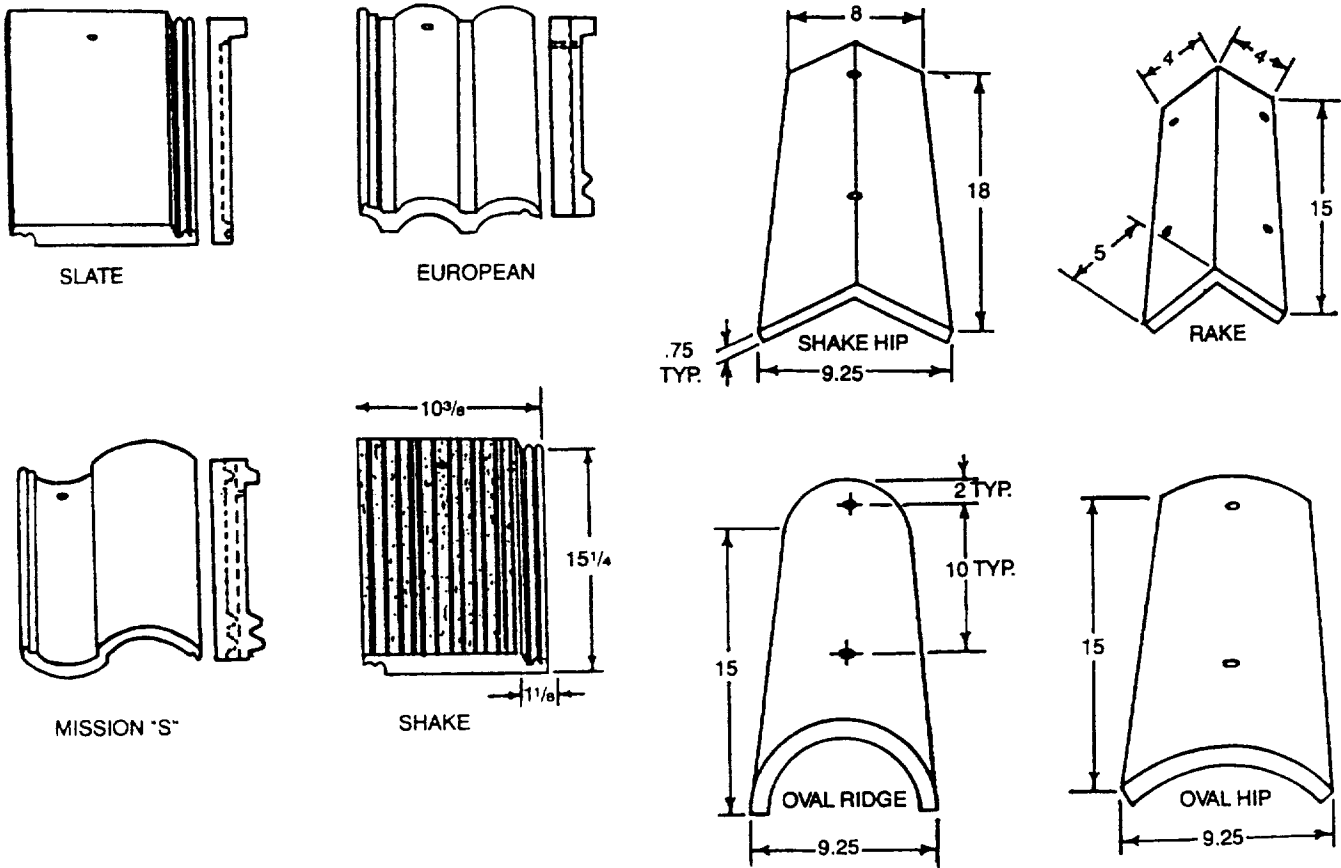


FIGURE 1