

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0414236

Insp Area: 2

Thos Bros: 297E6

Site Address: 2201 BROADWAY SAC

Parcel No: 010-0222-018

Sub-Type: COM

Housing (Y/N): N

CONTRACTOR

SCHOLTEN ROOFING SERVICE
23401 MADERO, SUITE C
MISSION VIEJO, CA 92691

OWNER

BUZZ OATES CO
8615 ELDER CREEK RD
SACRAMENTO CA 95828

ARCHITECT

Nature of Work: INSTALL WESTERN COLLOID REINFORCED ROOF OVR EXIST. BUR 369 SQS, 2 STRY

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 BC39 License Number 389884 Date 8-31-04 Contractor Signature Linda Halphill

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 above mentioned property for inspection purposes.

Date 8-31-04 Applicant/Agnt Signature Linda Halphill

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 5289-2002 Exp Date 01/01/2004

_____, (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 8-31-04 Applicant Signature Linda Halphill

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.

WESTERN COLLOID



ALL SURFACE PROTECTION

Asphalt Sealcoats • Roofing Systems

October 7, 2004

City Of Sacramento

Patrick Mauch, Roofing Inspector

RE: Roofing Systems

2200 X Street
Sacramento, CA

#04 142 31

2201 Broadway
Sacramento, CA

#04 142 36

To Whom It May Concern:

Western Colloid approves the application by Scholten Roofing Service Company of the roofing systems on the above referenced projects.

Specifically, Western Colloid recommends the use of an extra layer of Polyester embedded in #298 Asphalt Emulsion as the proper reinforcement in all waterways and as extra protection for most transitions including pipe supports.

Sincerely,

Hal Arthur Leland
General Manager

revised 03/01

**FLUID APPLIED REINFORCED ROOF SYSTEM****SPECIFICATION NO. SM-1P-XE****UPGRADE SMOOTH SURFACE / CAP SHEET****1 PLY POLYESTER REINFORCED - EMBEDDED ACRYLIC SURFACE****PART 1 - GENERAL**

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

- 1.1.1 American Society for Testing and Materials Publication (ASTM)
- 1.1.2 Underwriters Laboratories Inc. (U.L.)

1.2 QUALITY CONTROL

1.2.1 Pre-Roofing Conference: Prior to starting the application of the roofing system, there will be a pre-roofing conference with the owner's representative to assure a clear understanding of the specifications. The conference shall be attended by the Contractor(s) and the Membrane Manufacturer's representative.

1.2.2 Warranty: The contractor shall warrant for 2 years, from the date of completion, that the roofing system is free of defective materials and workmanship. Repairs that become necessary because of defective materials and/or workmanship while this roofing is under warranty shall be performed by the contractor. Any additional warranties shall be provided by the contractor to the owner.

1.2.3 Manufacturer shall certify that materials submitted have been used in like application and that they have been actively engaged in the manufacture of these materials for a minimum period of 15 years prior to submittals, as required. The manufacturer shall certify that the contractor is authorized and approved for the application of their materials.

1.3 SUBMITTALS:

1.3.1 Descriptive literature: Submit manufacturer's application instructions and technical data sheets or catalog cuts on materials.

revised 03/01

1.4 DELIVERY, STORAGE AND HANDLING:

1.4.1 Storage: Prior to and during project, protect all materials from inclement weather conditions. Keep lids tightly closed on all containers when not in use. Locate materials temporarily stored on the roof in approved areas and distribute the load to stay within the live load limits of the roof construction.

1.4.2 Handling: Select and operate materials handling equipment so as not to damage existing construction and applied roofing. Handle roll materials in a manner to prevent damage to edges and ends.

1.5 ENVIRONMENTAL CONDITIONS: This Fluid Applied Reinforced Roof System is water based and should be applied when weather conditions permit proper application and drying. Application will not be permitted during inclement weather (wet, rain, snow, freeze). The temperature during application shall be a minimum of 55 degrees Fahrenheit (F) and rising. Do not attempt application when rain, inclement weather or temperatures below 40 degrees F are expected within 48 hours after application. The system should not be applied if there is ice or frost on the roof surface/deck. The preparation and repair portion of the system that does not include water based materials may be applied immediately prior to inclement weather if necessary.

1.6. PROTECTION OF PROPERTY:

1.6.1 Protective Coverings: Contractor shall take proper precautions to protect owners property against damage and overspray. The use of shield boards, maskings and protective coverings shall be used as necessary. Western Colloid is not responsible for damages caused by the overspray of any of its products.

SYSTEM COMPONENTS AND WEIGHTS

<u>No.</u>	<u>Component</u>	<u>Amount</u>	<u>Dry Weight Lb.**</u>
1	Base Coat #298 Emulsion	6 Gallons	23.
2	Polyester Fabric	1 Ply	2.5
4	Surface / Reflective Coating - ElastaHyde White Acrylic	3 Gallons	21.
Total System Dry Weight			46.5

** weight approximate (per 100 sq. ft.)

revised 03/01

PART 2 - PRODUCTS**2.1 DESCRIPTION OF ROOF SYSTEMS:**

2.1.1 This specified assembly is a cold process method to upgrade existing roofing. The system is water based and environmentally friendly. It has very low odor. It is reinforced with tough, light weight polyester fabrics. It is intended to significantly extend the life of applicable existing roof membranes. This system eliminates or indefinitely delays the need to remove existing roof membranes which reduces land fill usage. The system is surfaced with a highly reflective elastomeric coating. This type of reflective surface has proven to significantly reduce temperatures and save energy on many types of commercial structures.

2.2 MATERIALS: Shall conform to the respective specifications and to the requirements herein.

2.2.1 Polyester Fabric: Shall be Western Colloid's 2.75 ounce firm or 3.0 ounce soft, stitchbonded polyester fabric used as a reinforcing fabric in asphalt emulsion.

2.2.2 SBS Fiber Glass Base Sheet: Shall be minimum 25 lb., SBS asphalt coated, G-2 type base sheet conforming to ASTM D 4601-95.

2.2.3 SBS Modified Bitumen Cap Sheet: Shall be minimum 4mm., granule surfaced, SBS modified with fiberglass and or polyester reinforcement(s).

2.2.4 Asphalt Flashing Compound: Asbestos free, cut back roof mastic reinforced with non asbestos fibers. ASTM D 4586-86 Type 1.

2.2.5 Modified Asphalt Flashing Compound: Asbestos free, cut back roof mastic reinforced with non asbestos fibers. Modified to form a permanently rubberized compound.

2.2.6 Elastic Cement #800: Elastomeric Flashing & Sealing Compound: A water base, highly concentrated acrylic resinous plastic emulsion with inert mineral pigments and fillers as manufactured by Western Colloid S.C., Inc.. For application to all exposed terminations, metal joints and any areas needing a tough, highly flexible sealing compound. Available in white or black.

2.2.7 #298 Asphalt Emulsion: A premium clay stabilized asphalt emulsion ASTM D 1227 Type III as manufactured by Western Colloid S.C., Inc.. Produced in a continuous colloid mill process without any added surfactants or additives. Also known as Glas-Shield Waterproofing Compound for cold process roofing.

2.2.8 ElastaHyde: A premium, elastomeric acrylic, white reflective coating. ElastaHyde is manufactured from premium resins, pigments and components producing an acrylic coating of the highest quality. ElastaHyde is a durable coating that will resist rigorous weather conditions while protecting roof surfaces and contributing to substantial energy savings. Manufactured by Western Colloid S.C., Inc.. (ElastaHyde can be produced in colors)

~ Refer to current Technical bulletins for complete product data and proper application methods.

~ Refer to MSDS for proper handling procedures.

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PART 3 - EXECUTION

3.1 PREPARATION:

3.1.1 Roof membrane shall be repaired and made sound and watertight prior to application of the fluid applied reinforced roofing membrane using one or more of the following steps.

3.1.2 Remove all loose gravel, dirt, dust and foreign debris by vacuum, washing, sweeping or power blower.

3.1.3 Valleys and ponding areas shall be washed or primed so as to receive a positive attachment of the system. If priming is necessary to any area, use #298 Asphalt Emulsion diluted 20 to 30 percent with water as primer. Apply vigorously with brush and allow to dry. Valley and ponding areas shall receive an extra ply of polyester set in #298 Asphalt Emulsion prior to the application of the membrane.

3.1.4 All blisters are to be repaired using the "floating patch" (or other approved) method with asphalt flashing compound and modified base or cap sheet. Remove blisters with flat shovel, scraper or knife. Embed modified base or cap sheet in application of asphalt flashing compound. Apply pressure to smooth and achieve complete contact of sheet and flashing compound. Edges of sheet shall extend at least 6 inches beyond widest point of blister being repaired. Apply asphalt flashing compound to seal edge of sheet.

3.1.5 Large splits are to be repaired using the "floating patch" (or other approved) method with asphalt flashing compound and modified base or cap sheet. Make cuts in the membrane 2 to 3 inches long at the end of each split. Make cut at right angle to split to stop the split from continuing. Embed modified base or cap sheet in application of asphalt flashing compound. Apply pressure to smooth and achieve complete contact of sheet and flashing compound. Edges of sheet shall extend at least 6 inches beyond widest point of split being repaired. Apply asphalt flashing compound to seal edge of sheet.

3.1.6 Small splits and irregularities are to be repaired using a three course method with #800 Elastic Cement. To the area needing repair apply #800 at a rate of 5 gallons per 100 sq. ft. (approx. 1/8 in. thick). Into the wet #800 embed 1 ply of polyester fabric. Brush the fabric into the #800 to insure full saturation having no wrinkles or voids. Over the fabric apply another coat of #800 at a rate of 4 gal. per 100 sq. ft.. Allow to dry.

3.2 APPLICATION

3.2.1 **Base and Wall Flashings:** Prior to the application of the membrane, install one ply of Polyester Fabric into a full coat of 5 gallons per 100 sq. ft. (per ply) of #298 Asphalt Emulsion achieving full saturation. Polyester ply shall extend over cant onto deck and continue up wall to terminate as necessary, under counter flashing, reglet or wall cap flashing per Western Colloid details.

3.2.2 **Edge Flashings:** Remove and replace gravel stops and metal edge where necessary. Where gravel stop is replaced, replace with low or no rise metal edge. Metal edge shall be nailed at 4" O.C.. Strip-in the metal with modified base sheet set in asphalt flashing compound making sure to cover all nails. Leave at least 2" of metal bare at edge to insure positive attachment and seal of polyester fabric in emulsion. Where edge flashing is left in place, cut back roofing to provide for a positive attachment of the new membrane per Western Colloid details.

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3.2.3 Vent and Pipe Flashings: If flange is removed and replaced or new flange is installed, set flange of metal "jack" in a bed of asphalt flashing compound and attach with nails. Strip-in the metal with modified base or cap sheet set in asphalt flashing compound making sure to cover all nails. Continue new membrane up to base of conc. Apply #800 Elastic Cement to top of conc extending onto pipe and insure complete seal is achieved.

3.2.4 Roof Drains (clamping type): Prior to the application of the roofing membrane, remove clamping ring and clean as necessary. Embed modified cap sheet in application of modified asphalt flashing compound into the drain bowl and extending a minimum of 18" from center of drain onto the deck (or as necessary to extend beyond drain sump). Apply pressure to smooth and achieve complete contact of cap sheet and modified asphalt flashing compound. Replace clamping ring. The roofing membrane system is to be installed leaving approximately 2 to 3 inches distance from the drain ring. Apply a thin bead of # 800 Elastic Cement to the membrane termination after it has dried. Be sure to feather the #800 so as not to cause water to dam.

Optional: The new membrane may be terminated at the drain bowl and clamped with the drain clamping ring. Omit the SBS membrane and add an extra ply of polyester fabric set in #298 to the drain area. The polyester shall extend at least 18 inches from the center of the drain or as necessary to extend beyond the drain sump or ponding area. The new membrane must be allowed to dry before setting the clamping ring.

3.2.5 Misc. Flashings: Where sign anchors, equipment supports or other projections penetrate the roof membrane, seal with #800 Elastic Cement creating a "cone" shaped seal. Where large voids must be bridged use 1 ply of polyester fabric in the #800. Misc. flashings to be of #800 Elastic Cement and Polyester Fabric and to be constructed in a manner acceptable to the membrane manufacturer as necessary to meet the needs of each flashing detail.

Refer to Western Colloid detail drawings and notes for additional details and application information.

3.2.6 MEMBRANE: Over the properly prepared surface, apply a coat of #298 asphalt emulsion at a rate of 6 gallons per 100 sq. ft.. Immediately following and starting at the low edge of the roof, embed a full width of Polyester Felt continuing up the roof with full width sheets. Overlap each ply a minimum of 3". End laps shall overlap a minimum of 4". Lightly broom each ply of polyester felt to achieve full saturation having no wrinkles or voids. Polyester shall terminate 2 inches above cant. Avoid walking on the polyester during application, causing displacement of the #298 Asphalt Emulsion. Allow to cure.

3.2.7 Reflective Coating - ElastaHyde: After roof has cured apply reflective coating. To prevent damage to the membrane, the reflective coating should be applied early in the day prior to the heating and softening of the emulsion surface. If surface becomes soft and sticks to equipment or feet, discontinue application. Wash roof surface of any asphaltic residue that may cause lack of adhesion or "tobacco staining". Apply over the entire roof surface, ElastaHyde elastomeric reflective roof coating at a rate of 3 gallons per 100 sq. ft. to achieve a dry thickness of no less than 30 mils after cure. The reflective coating shall be applied in a two coat application. This shall be done in a "cross hatch" manner (the second coat shall be at a right angle to the first). Each coat shall be 1/2 of the total application rate. Before application, mix well and strain if spray applying. Do not thin or dilute.

3.2.8 Cleanup: Each day, remove from the job site, debris, scraps, containers and any rubbish resulting from the installation of the roofing system.