

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9906092
Insp Area: 4

Site Address: 2880 GATEWAY OAKS DR SAC
Parcel No: 225-0230-093 PHASE II BLDG D

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

CONTRACTOR

DPR
1451 RIVER PARK DR SUITE 210
SACTO, CA 95815

OWNER

BTV CROWN EQUITIES
400 CAPITOL MALL STE 2340
SACRAMENTO CA 95814

ARCHITECT

Nature of Work: NEW THREE STORY TYPE II 1-HOUR OFFICE BUILDING SHELL BUILDING "D"

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 B License Number 599846 Date 9-5-00 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 9-5-00 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.

X 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 RELIANCE Policy Number WD8546721 Exp Date 02/01/2001

(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 9-5-00 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.



November 7, 2000

BTV Crown Equities, Inc.
Attention: Ron Russell
400 Capitol Mall, Suite 2340
Sacramento, California 95814

Special Inspection Monthly Report
CROWN CORPORATE CENTER BUILDING D
Sacramento, California
Month of October
Permit No. 99-06092C
WKA No. 3697.10

In accordance with your request, our firm has performed the *Special Testing and Inspection* services for the subject project during the time period stated above. The items observed are listed below:

Concrete: Inspected placement of reinforcing steel and concrete for cast-in-place shear wall panels. Obtained concrete samples for laboratory compressive strength testing and performed slump tests.

Structural
Steel: Performed shop welding inspection of embeds at Davison Iron, Sacramento, California. Monitored contractor compliance with Welding Procedure Specifications (WPS). Identified material with manufacturer's mill certificates. Checked welder certification records.

Please contact our office if you have any questions regarding this information.

Wallace - Kuhl & Associates, Inc.

A handwritten signature in black ink that reads 'Jim Carlson'. The signature is written in a cursive, flowing style.

Jim Carlson
Manager of Construction Materials Services

JC:mlo

cc: LPA
DPR Construction
City of Sacramento

Natomas Unified School District

1515 Sports Drive, #1 • Sacramento, CA 95834-1905

Phone 916/641-3300 • Fax 916/928-1629

CERTIFICATION OF COMPLIANCE

SCHOOL DISTRICT DEVELOPMENT FEES

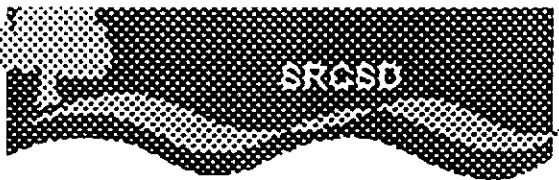
PART I: TO BE COMPLETED BY APPLICANT	
Property Owner's Name	BTV CROWN PROPERTIES
Owner's Address	400 CAPITAL MALL, SUITE 2340
Project Address	2880 GATEWAY OAKS DR.
Parcel Number	225-0230-093
Subdivision Name	N/A
Number of Units	N/A
Print Applicant's Name	Applicant's Signature
Title of Applicant	
Date	Telephone Number
PART II: TO BE COMPLETED BY BUILDING DEPARTMENT	
Plan Identification Number	77-06092
Building Type (Check One)	
<input type="checkbox"/> Residential	<input type="checkbox"/> Apartment/Condominium
	<input checked="" type="checkbox"/> Commercial/Industrial
Square Feet of Chargeable Building Area	71,417 S.F.
Signature	
Title	Date
PART III: TO BE COMPLETED BY NATOMAS UNIFIED SCHOOL DISTRICT	
District Certification Number	CI-377
Fees Collected:	
Residential:	Sq. Ft. X \$ = \$
Apartment/Condominium:	Sq. Ft. X \$ = \$
Commercial/Industrial:	91,419 Sq. Ft. X \$.33 = \$ 30,168.27
<p>NOTICE TO APPLICANT: Pursuant to government code section 66020 (d), this will serve to notify you that the 90-day approval period in which you may protest the fees, or other payment identified above, will begin to run on the date in which the building or installation permit for this project is issued, or on which they are paid to the District, or to another public entity authorized to collect them on behalf of the District, whichever is earlier.</p>	
Applicant Signature:	Date: 9-1-00

This certification covers only the amount of square footage indicated above. Any additions or corrections to the square footage for this project will require an amendment to the Certificate of Compliance.

As the authorize Natomas Unified School District official, I hereby certify that the requirements of Government Code Section 95995 have been complied with by the above signed applicant.

SIGNATURE: _____ DATE: 9/1/00

TITLE: _____



FAXED 9/5/00

REQUEST FOR SEWER FEE QUOTE

9906092

DATE	9.5.00	REQUESTOR	Monte Gillan	NUMBER OF PAGES	264-2693
FROM	City of	RESPONDER	Sacramento	FAX	PHONE
TO	SRCSD Customer Service		Debrae Ross	FAX	PHONE

URGENT -- Applicant is in office or ready to pay permit

If urgent, call 875-6820 to notify an Engineering employee that you faxed a request.
 Press zero to speak to the operator.

NOT URGENT -- Applicant has requested informal quote

Applicant	NAME	PETE MORRISON		PHONE	916/568-3434
Property	ASSESSOR'S PARCEL NUMBER(S)	225-0230-093		PROPERTY ADDRESS	2880 GATEWAY DR
Project	PLAN CHECK / BUILDING PERMIT NO	9906092		(mark all that apply)	
		New construction	X	Remodel	Change in use
	USE	CURRENT // PREVIOUS	PLANNED		
		Vacant	Commercial OFFICE Bldg one of 5 BLDGS		
	SQUARE FOOTAGE	CURRENT // PREVIOUS	PLANNED		
		90,552 S.F. →	Vacant		

CITY OF SACRAMENTO
 BUILDING INSPECTION DIVISION
 APPLICATION FOR BUILDING PERMIT - HAZARDOUS MATERIAL SURVEY

As Required by Assembly Bill #3205 - A Building Permit Cannot be Approved Without This Completed Form

1. Business Name: BTV Crown Equities, Inc. Phone: _____
 Site Address: 2880 Gateway Oaks Drive Suite: _____
 (Street) (Zip)
 Business Owner/Representative: PETE MORRISON Phone: 568-3434
 Nature of Business: Commercial office building
 Property Owner: BTV Crown Equities, Inc. Phone: _____
 Address: 400 CAPITAL Mall Suite: 2346
 (Street)
Sacramento (City) CA (State) _____ (Zip)

2. Are you developing an undetermined tenant space? Yes ___ No Is this permit for a shell building? Yes No ___
 Notify lessee of the responsibility to coordinate with the Fire Department regarding the use and handling of hazardous materials.

3. Does/Will your business generate hazardous waste? Yes ___ No

4. Does/Will your business handle, store or transport any solid, liquid, or gaseous chemicals? Yes ___ No

CONSULT THE EPA CHEMICAL LIST LOCATED AT THE BUILDING DIVISION COUNTER FOR HAZARDOUS OR ACUTELY HAZARDOUS MATERIALS TO COMPLETE THE FOLLOWING QUESTIONS.

If you answered "YES" to questions #3 and/or #4 above, continue on to questions 5 - 8.

5. Do you handle, store, or transport 55 gallons, 500 pounds, or 200 cubic feet (at Standard Temperature or Pressure) of a product or formulation containing hazardous materials at any one time? Yes ___ No ___

6. Do you handle, store or transport any amount of acutely hazardous materials? Yes ___ No ___

7. Is/Will your business be located within 1,000 feet of a school? Yes ___ No ___

If you answered "yes" to questions #6 and/or #7, complete the RMPP Informational sheet.

8. Is/Will your business be located within 1,000 feet of a hospital, and/or long-term healthcare facility? Yes ___ No ___


IF YOU ANSWERED "YES" TO QUESTION #3 AND/OR #4, PLEASE CONTACT THE CITY OF SACRAMENTO FIRE DEPARTMENT LOCATED AT 1231 I STREET, SUITE 401, SACRAMENTO, CA OR CALL 449-5416.

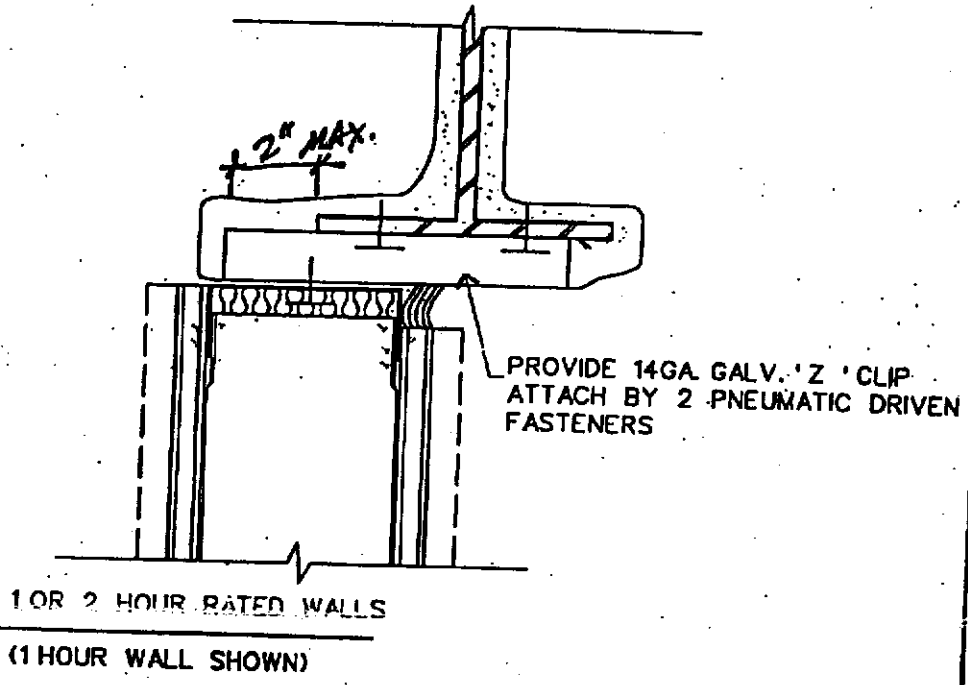
Prior to issuance of a certificate of occupancy, each business owner(s) shall contact the City of Sacramento Fire Department and comply with the Health and Safety Code regarding the use and handling of hazardous materials.

PENALTY: Any business that violates Section 25531-25541 of the Health and Safety Code shall be civilly liable to the administering agency in an amount of not more than two thousand dollars (\$2,000) for each day in which the violation occurs. If the violation results in, or significantly contributes to, an emergency, including a fire, the business shall also be assessed the full cost of the city emergency response, as well as the cost of cleaning up and disposing of the hazardous materials. Additional liability and punishment may be assessed for knowing a violation after reasonable notice of the violation.

Applicant's Name: PETE MORRISON
 (Print)
P. Morrison (Signature) 9.5.00. (Date)

BID Use Only: Plan Ck# _____	Permit # <u>9906092</u>
OK to issue prmt? <input checked="" type="checkbox"/> <u>6.29/5/00</u> init date	F.D. Appr Req'd? Yes <input checked="" type="checkbox"/> No ___
Hold on Certificate of Occupancy? Yes ___ No <input checked="" type="checkbox"/>	
Fire Dept. Use Only:	
OK to issue permit? init _____ date _____	
OK to issue Certificate of Occupancy? init _____ date _____	

SEE  FOR ADDITIONAL INFO.



FIRE RATED WALL @ BM.

N.T.S.

H9

R

... 3-story BLDG. OVERHANG L.S.N. 03/21/01 09:35:07 AM

A913

BTV CROWN CORP. CENTER
BLDG. D
3-21-01

FAX REC'D
DPR Construction, Inc.

BTV Crown Corporate Center-Building D

MAR 01 '01

SITE

SHELL

LPA SACRAMENTO, INC. REQUEST FOR INFORMATION

RFI No. 23

CONTRACTOR:	TRANSMITTAL RECORD	ATTENTION / FIRM	DATE SENT	DATE RECD	DATE DUE
DPR Construction Inc.	CONTRACTOR TO ARCHITECT	MIKE HOSS/LPA	01-Mar-01		03/01/01
INFORMATION REQUESTED BY: DPR Construction, Inc.	CONTRACTOR TO CONSULTANTS				
SUB RFI: N/A	ARCH/CONSULT. TO CONTRACTOR	Todd	03/05		
SUBJECT: Framing Details at Barncy Walls	DPR TO SUBCONTRACTOR				
DRAWING/SPEC REFERENCE: Detail H12/A3.31/ Correction Notice	DPR ANTICIPATES IMPACT TO:		YES	NO	
	BUDGET				X
	SCHEDULE				X

INFORMATION REQUESTED:

Mike-Please note attached correction notice. Please provide fastening type, location and quantity along with framing member guage, welding, etc. (for punched opening wall called out in detail H12/A3.31). Please call with questions. Thank you.

Signature: 

Date: 3/1/01

Pages: 2

REPLY:

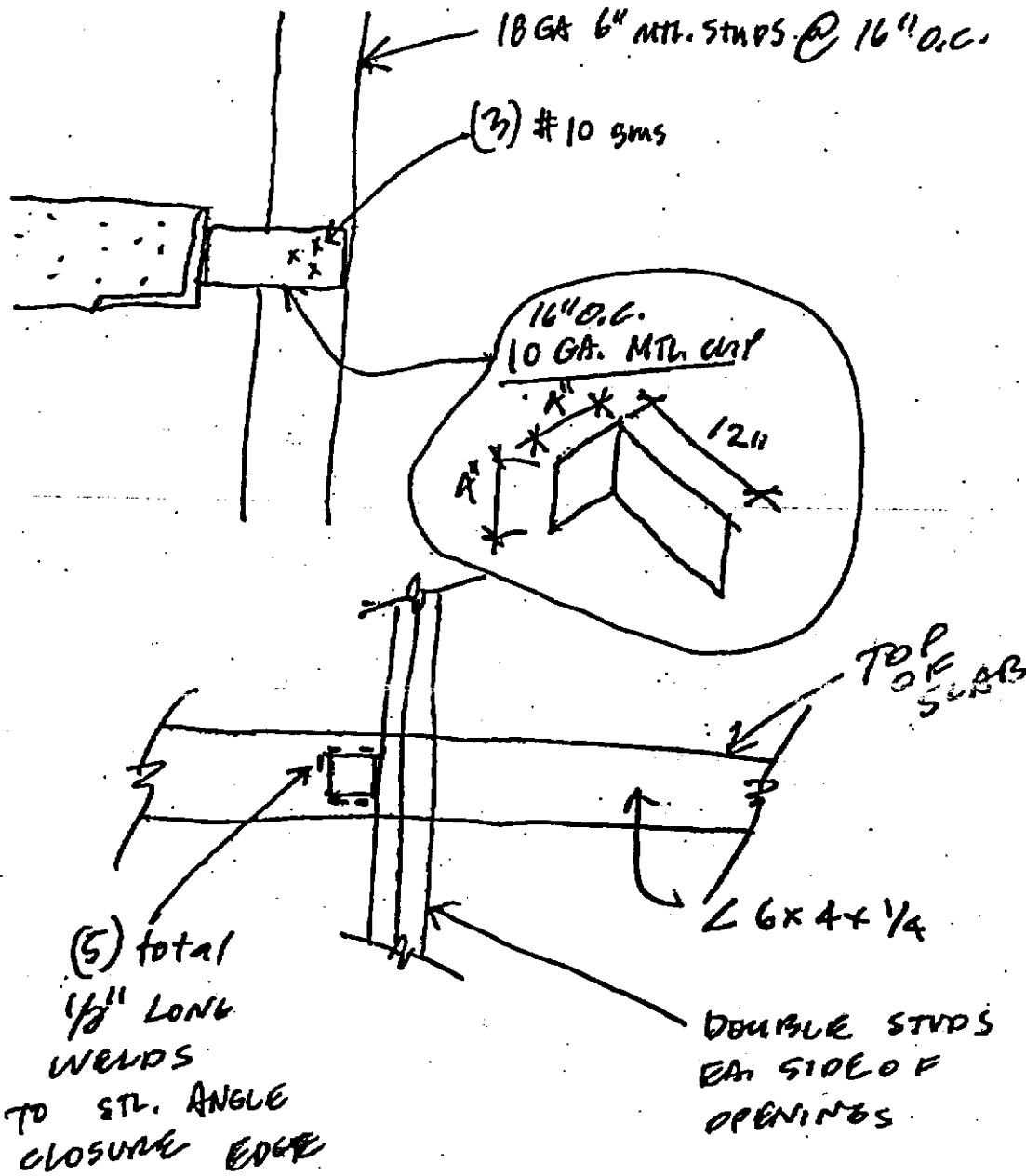
enclosed are details providing the above requested information. Our Structural Engineer checked the shear capacity of the fasteners & found adequate support for the studs connecting to the slab edge and studs.

Date: 3.5.01

Signature: 

Energy & Technology

Sacramento Municipal Utility District



STEEL STUD ATTACHMENT

RFI 23

BTV CROWN CORP. CENTER, BLDG. D 3.2.01
LPA SACRAMENTO, INC.



Culp & Tanner

Structural Engineers

55 Independence Circle, Suite 201 Chico, CA 95973
530-895-3518 FAX: 530-895-3544
E-MAIL: ctchico@culpandtanner.com

FAX TRANSMISSION COVER SHEET

ATTN: MIKE HOSS

COMPANY: LPA DATE: 3/5/01

RE: BTU "D"

FROM: BOYD BUCK Original: Mailed Next Day
 2nd Day Not sent

You should receive 3 page(s), including this cover sheet.

TEOSIDU CAPACITY OF STUD CONNECTION

Series of horizontal lines for additional information or notes.



LPA
SACRAMENTO, INC.

Architecture
Planning
Landscape Architecture
Interior Design
1215 G STREET
SACRAMENTO, CA 95814
PHONE 916.441.2823
FAX 916.441.2827

FAX TRANSMITTAL

Date: 3/2/01
To: Culp & Tanner
55 Independence Circle, Suite 201
Chico, CA 95973

Attn: Boyd Buck
Fax No.: 530-895-3544
Project: BTY Building D
Project No.: 384037
From: Michael Hoss, AIA, CSI
Email Address: mhoss@lpasacramento.com
No. of Pages:

<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Approved	<input type="checkbox"/> No Exceptions Taken
<input type="checkbox"/> Letter	<input type="checkbox"/> Your Use	<input type="checkbox"/> Make Corrections Noted
<input type="checkbox"/> Print	<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned after Loan
<input type="checkbox"/> Change Order	<input checked="" type="checkbox"/> Review and Comments	<input type="checkbox"/> Review and Remarks
<input type="checkbox"/> Plans		<input type="checkbox"/> Submit
<input type="checkbox"/> Samples		<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input type="checkbox"/> Attached	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:	<input type="checkbox"/> Separate Cover Via:	<input type="checkbox"/> Tick Doc

1 1 3/2/01

Exterior Metal Stud Attachment

Remarks: *MIRIS*

THE TENSION CONNECTION CAPACITY OF THE 10 GAGE ANGLE PER ENCLOSED SKETCH IS 780#.

3 #10 SCREWS IN SHEAR = 3(260) = 780# ←

2 - 1/2" WELDS = 2(.5)928 = 928#

Tc = .131(4)21600 = 11320#

Boyd Buck 3/5/01

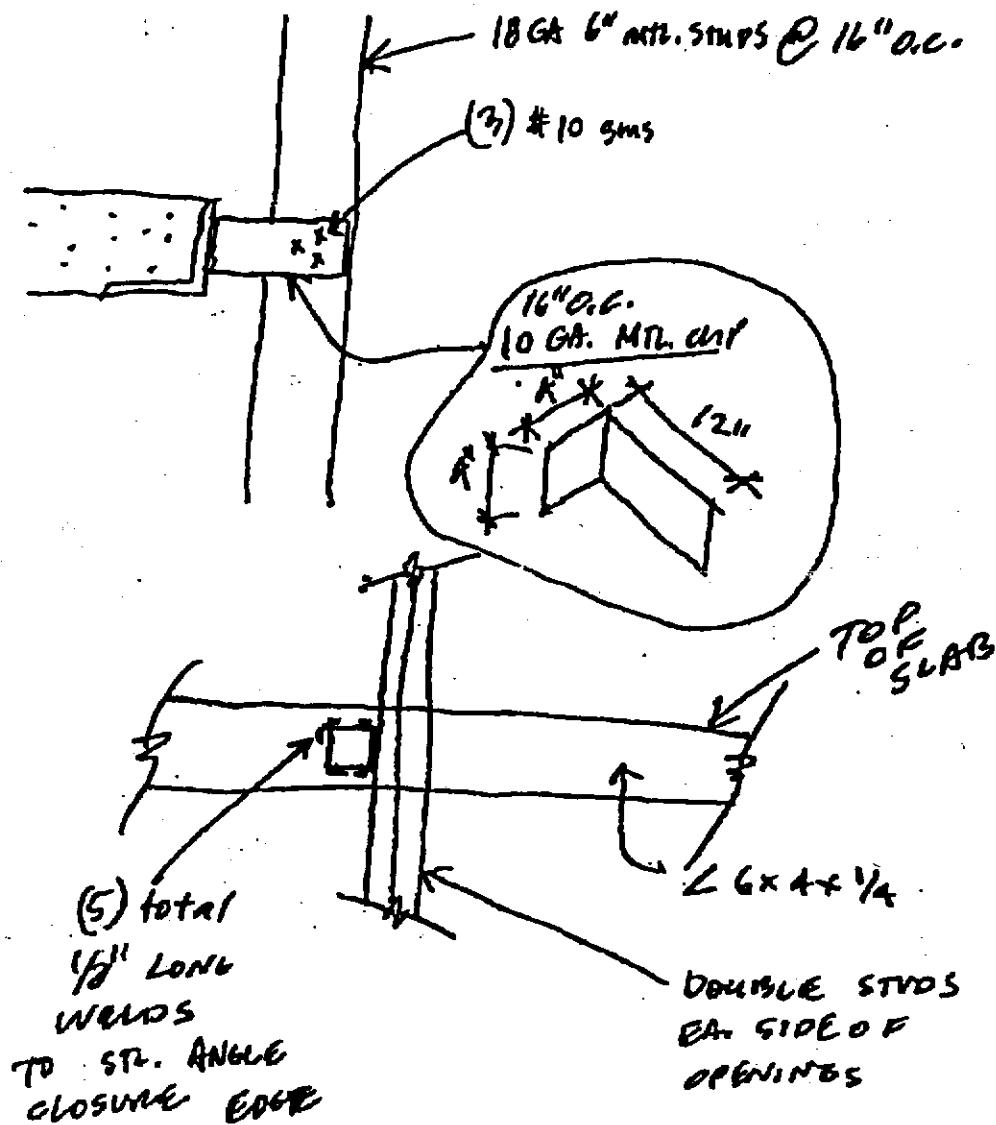
cc:

Ref: Exterior Framing Details

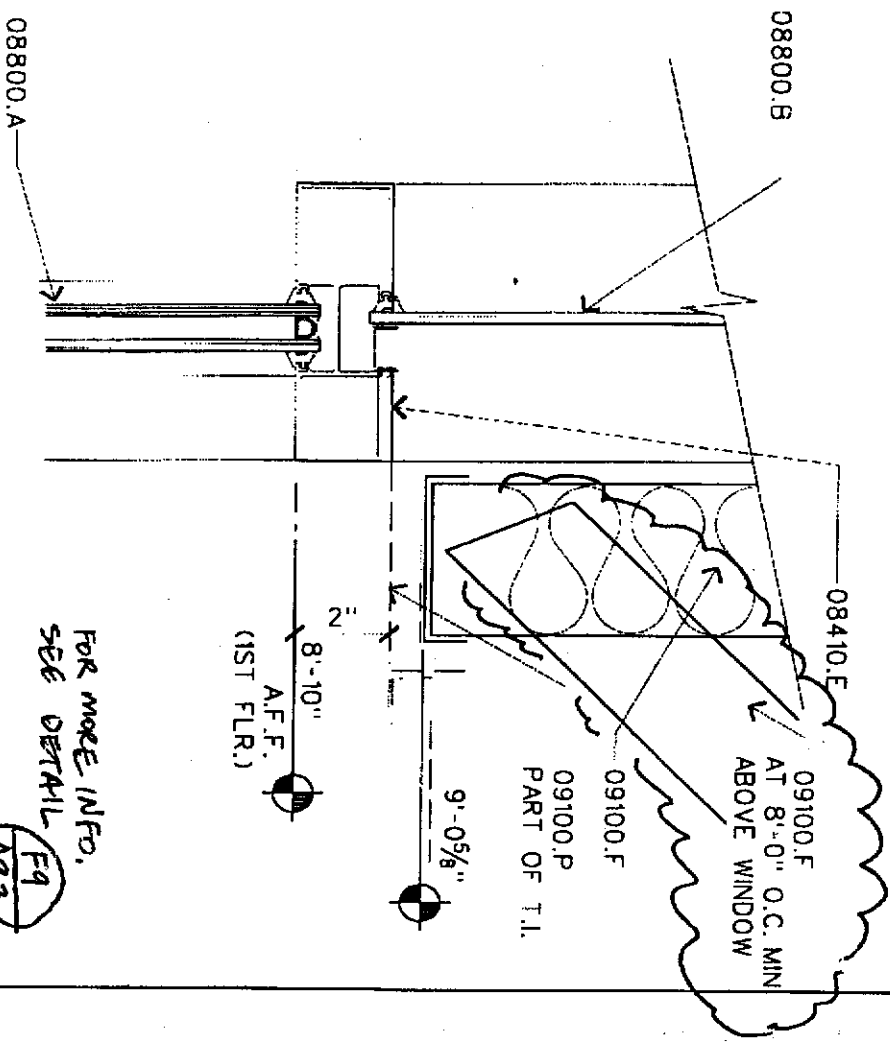
The information contained in this facsimile message is client PRIVILEGED and CONFIDENTIAL and is intended only for the individual or entity named on this transmission sheet. If the reader of this message is not the intended recipient, or employee or agent responsible for delivering it to the intended recipient, you are hereby notified that dissemination, or copying of this communication is strictly prohibited. If you have received this transmission in error, notify us by phone immediately so we can arrange for the return of the original documents to us at no charge to you.

Energy & Technology Center

Sacramento Municipal Utility District



ETV CROWN CORP. CENTER
BLDG. D



INTERMEDIATE HORIZONTAL
 MULLION

3" x 1'-0"

D5

A8.1

GROUND FAULT TEST REPORT

CUSTOMER KR Moore LOCATION 2895 Gateway Ave. Blvd A DATE Mar 27 '01

DESIGNATION N5B - MV BE JOB NUMBER 1500000000 TEST EQUIP. USED Adv. 152 Phosor TECH. DS

NAMEPLATE DATA

SWBD MFG. GE SERIAL # #168562 MAIN OVERCURRENT DEV. 200A

GROUND FAULT SYSTEM TYPE (CIRCLE ONE) RESIDUAL SOURCE GND. 12% RELAY MFG. N/A RELAY CAT. # N/A

RESIDUAL ZERO SEQ. TIME RANGES 1.2-3 (.1-.5 sec) CURRENT SETTING 400 TIME SETTING 3 (.45 sec) 1 1/2 out

VISUAL AND MECHANICAL INSPECTIONS

ITEM	STATUS	NOTES
GROUND POINT	A	TEST PANEL OPERATION
NEUTRAL SENSOR LOCATION	A	CONTROL POWER XFMR
NEUTRAL SENSOR POLARITY	A	ZONE INTERLOCKING
MAIN BONDING JUMPER	A	MULTIPLE SOURCE SCHEME
REDUCED VOLTAGE TEST	N/A	NEUTRAL CONDUCTOR

ELECTRICAL TESTS

PICK UP CURRENT	PRIMARY TEST CURRENT (AMPS)	NEUTRAL INSULATION TO GROUND	MEASURED TIME (SEC)	ACCEPTABLE TIME (SEC)
<u>150%</u>	<u>396</u>	<u>2K</u>	<u>46 sec</u>	<u>OK</u>

NOTES

PASS FAIL

*STATUS A - ACCEPTABLE R - NEEDS REPAIR OR REPLACEMENT X - UNACCEPTABLE NA - NOT APPLIC.

INDUSTRIAL TESTS INC.

"AN ELECTRICAL TESTING CONTRACTOR"

916-859-5959

Material Safety Data Sheet

Company: Pasco

Product: Shower Pan Liner

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
SHOWER PAN LINER

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name PASCO SPECIALTY & MANUFACTURING, INC.	Emergency Telephone Number N/A
Address (Number, Street, City, State, and ZIP Code) 11156 Wright Road, P.O. Box 1747 Lynwood, CA 90262	Telephone Number for Information (213) 537-7782
	Date Prepared June 7, 1988
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
TiO2 & OTHERS; Pigment				
CaCO3; Stabilizer				

Section III — Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H2O = 1) 1.20-1.70
Vapor Pressure (mm Hg.) N/A	Melting Point N/A
Vapor Density (AIR = 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water Slight	
Appearance and Odor N/A	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 320°C-390°C (ASTMD-1929)	Flammable Limits	LEL	UEL
Extinguishing Media Water, Dry Chemical, CO2			
Special Fire Fighting Procedures Wear self-contained breathing apparatus and preventitive clothing to prevent contact with skin and eyes			
Unusual Fire and Explosion Hazards None Known			

Section V - Reactivity Data

Stability None Known	Unstable None known	Conditions to Avoid none known
	Stable None known X	

Incompatibility (Materials to Avoid)

Oxidizing materials can cause a reaction

Hazardous Decomposition or Byproducts

HC1, CO, CO2, Benzene, Aromatic and Aliphatic Hydrocarbons

Hazardous Polymerization	May Occur	Conditions to Avoid None known
	Will Not Occur X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? None known	Skin? None known	Ingestion? None known
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Health Hazards (Acute and Chronic)

None expected

Carcinogenicity: None known	NTP? None known	IARC Monographs? None known	OSHA Regulated?
--------------------------------	--------------------	--------------------------------	-----------------

Signs and Symptoms of Exposure

None known

Medical Conditions
Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures

If irritation persists from processing vapors or decomposition of product, remove sensitive individual from area

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

N/A

Waste Disposal Method

Use approved methods as recommended by State and Local Agencies.

Precautions to Be Taken in Handling and Storing

None known

Other Precautions

None known

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None

Ventilation None known	Local Exhaust None	Special None known
	Mechanical (General) Recommended	Other None known

Protective Gloves
When material is heated
Eye Protection Recommended for all industrial work places.

Other Protective Clothing or Equipment

Always wear rubber gloves when cleaning exhaust equipment.

Work/Hygiene Practices

None known

RUSKIN

April 3, 2001

Gary Vogel
DPR Construction

Re: 2880 Gateway Oaks Floor Mounted Fire/Smoke Damper

Dear Gary:

This letter is in response to our telephone conversation earlier today. Fire and fire/smoke dampers are not required to be fire stopped or sealed once they have been installed in a wall or floor. That is also true for fire and fire/smoke dampers that are installed in a concrete floor with a fluted steel deck. The angles on the bottom side of the deck can be installed in different planes but are not required to be fire stopped or sealed. Please let me know if I can be of further assistance.

Sincerely,



Richard L. Cravy
Product Manager



Ruskin Fax

**3900 Dr. Greaves Rd.
Grandview, MO 64030
Phone (816) 761-7476
Fax # (816) 761-1936**

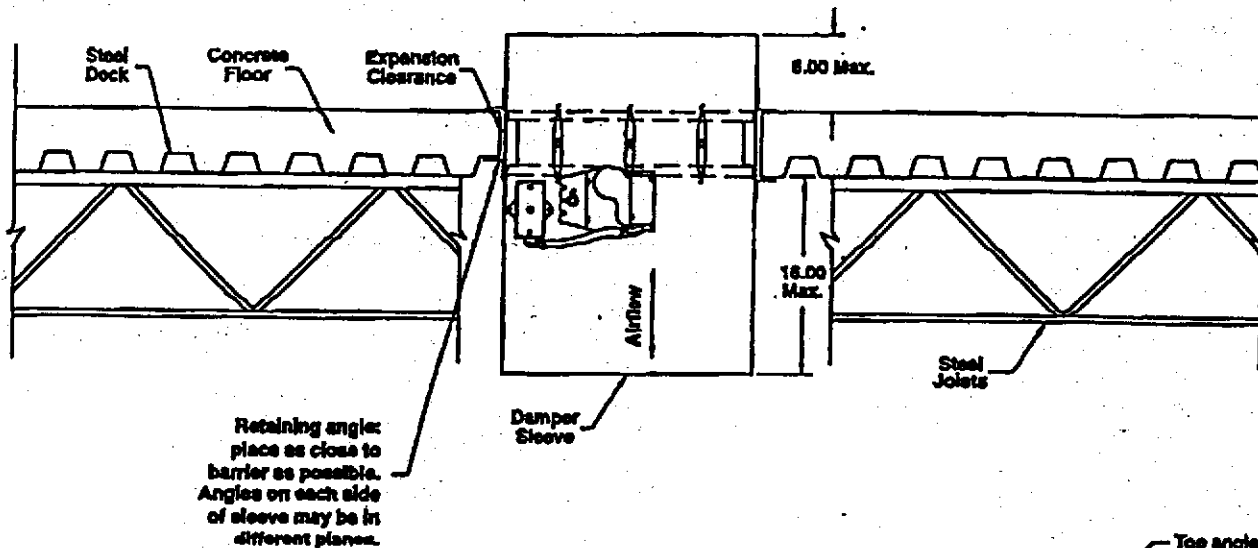
Date: April 2, 2001
To: Gary Vaine
From: Richard L. Cravy
E-mail: rickc@ruskin.com
Subj: Concrete Deck Installation
Pages: 2

Gary,

Here is the installation supplement we spoke about.

Thanks.

INSTALLATION INSTRUCTIONS SUPPLEMENT FIRE AND COMBINATION FIRE SMOKE DAMPER INSTALLATION IN CONCRETE FLOOR WITH STEEL DECK

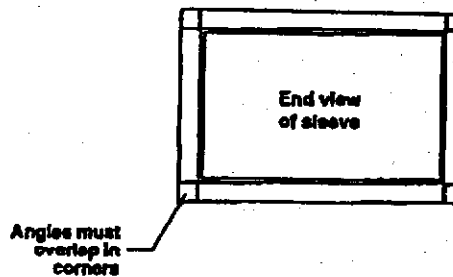
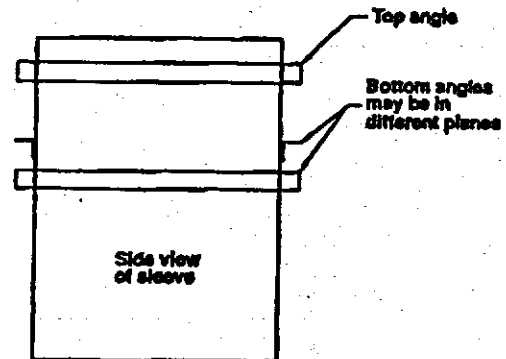


APPLICATION

Horizontal installation of fire and combination fire smoke dampers in concrete floors utilizing a steel deck may not allow the bottom angle to be placed against the steel deck on an even plane. This installation details how to properly install the required angles next to the steel deck.

NOTES

1. Retaining angles are required on top and bottom sides of the damper as detailed in the damper installation instructions. Angles may be reversed so that one leg of the angle points into the floor opening.
2. Installation of the bottom angle against the uneven steel deck shall be done so the angles on each side of the sleeve are as close to the barrier as possible. The angles may be in different planes relative to each other (see figures 1 and 2).
3. When viewed from the end of the sleeve, the angles must overlap each other in the corners to prevent "see through."



SEE DETAILS ON
UL CLASSIFICATION
MARKING ON ENCLOSED
PRODUCT

Richard L. Cravy

RUSKIN

*City of Sac.
Andrew*

March 26, 2001

Gary Vogel
DPR Construction
2880 Gateway Oaks Drive
Sacramento, CA 95815

Re: Shaft Wall Mechanical Penetration for Building D

Dear Gary:

The Dietrich Industries framing detail you sent me is for a 2 hour fire tested shaft wall partition. The test for this shaft wall was performed by Warnock Hersey (not UL). The listing number for the shaft wall is DI/WA 120-01.

The mechanical penetration should be framed in accordance to the detail shown on the Dietrich Industries data sheet, which, no doubt, meets Warnock Hersey requirements. The mechanical penetration framing detail meets the intent of our UL approved installation instructions and Ruskin fire and fire/smoke dampers may be installed in this fire rated partition without affecting the UL listing of the damper.

Please let me know if I can be of further assistance.

Sincerely,



Richard L. Cravy
Product Manager

RUSKIN®

3900 Dr. Greaves Rd.

Kansas City, MO 64030

(816) 781-7476

FAX (816) 766-8955

SHAFT WALL METAL STUD FRAMING FOR WALL DESIGNS U438 AND U497 INSTALLATION INSTRUCTIONS SUPPLEMENT

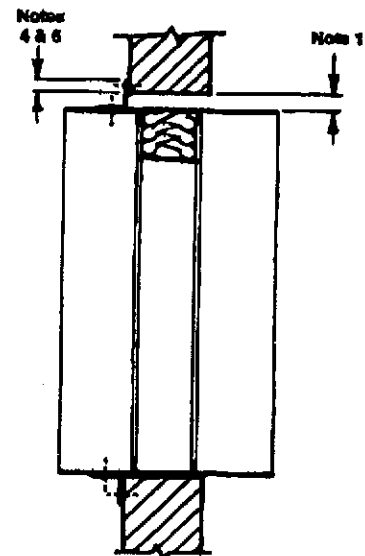
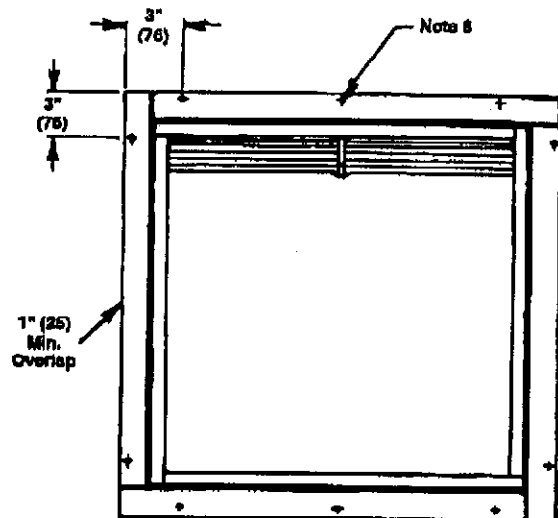
APPLICATION

These installations are for curtain type IBD and multiple blade fire dampers and fire/smoke damper installations in shaft wall designs U438 and U497. They differ from conventional fire damper installations in that they require mounting angles on only one side of the wall which are fastened to the wall as well as the damper. The maximum damper size for one side angle is 48" w x 36" h (1219 x 914). Dampers larger than 48" w x 36" h (1219 x 914) require mounting angles on both sides of the wall which are fastened only to the sleeve.

GENERAL INSTALLATION

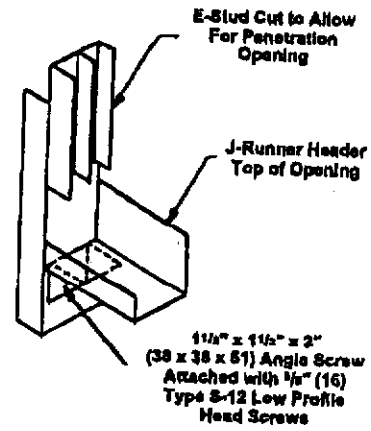
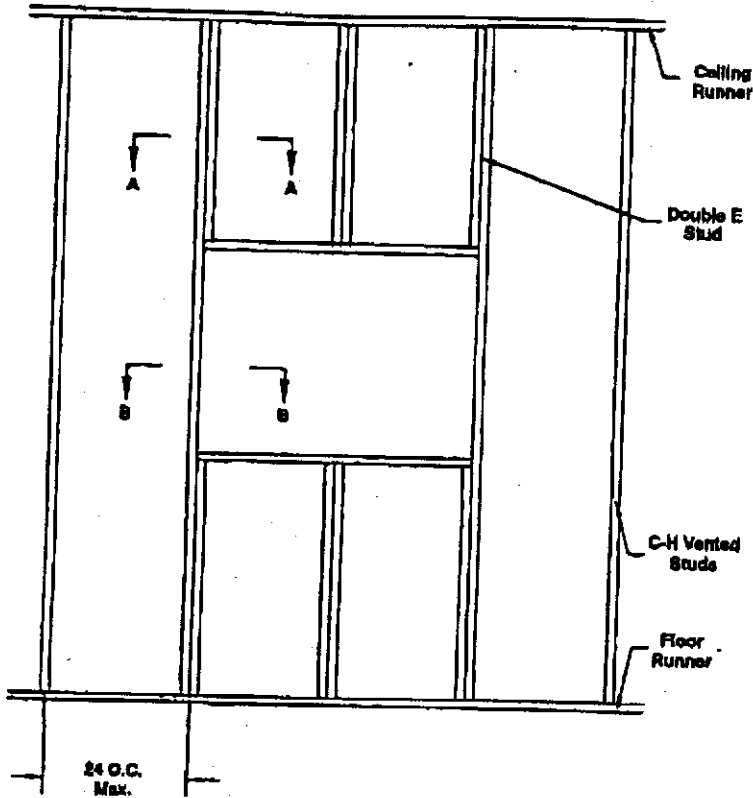
- Opening in wall shall be a minimum $1/8"$ (3) per foot larger than overall size of damper and sleeve assembly for galvanized steel dampers and a minimum $3/16"$ (5) per foot for stainless steel dampers. Maximum opening not to exceed $1/8"$ (3) per foot plus two inches for galvanized steel dampers and $3/16"$ (5) per foot plus two inches for stainless steel dampers. Opening shall not be less than $1/4"$ (6) larger for any size damper and sleeve assembly.
- Sleeve gage shall be at least equal to the gage of the duct as defined by the appropriate SMACNA duct construction standard and described in NFPA 90A when one or more of the following duct-sleeve connections are used (S-and-Drivemate No. 14880, breakaway ductmate, plain "S" slip, hemmed "S" slip, standing "S" slip, reinforced standing "S" slip, inside slip joint, and double "S" slip.)
- If any other duct-sleeve connections are used, sleeve shall be minimum of 16 gage (1.6) for dampers up to 36" w x 24" h (914 x 610) and 14 gage (1.9) if damper width exceeds 36" (914) or height exceeds 24" (610).
- Mounting angles shall be a minimum of $1 1/2" \times 1 1/2" \times 20$ gage (38 x 38 x 1.0) and fastened with #10 bolts or screws, $1/2"$ (13) lg. welds, or $3/16"$ (5) rivets to sleeve at a maximum spacing of 6" (152) O.C. not more than 2" (51) from each end with a minimum of two connections in each side, top and bottom (see illustration). Ruskin Picture Frame Mounting Angle can be used in lieu of conventional mounting angles. NOTE: Mounting angles are required on one side of wall only.
- When multiple damper assemblies are joined or fastening damper to sleeve dampers shall be fastened with no. 10 bolt or screws, $3/16"$ (5) rivet or $1/2"$ (13) lg. weld staggered intermittently, and spaced 12" (305) maximum c-c for galvanized and 6" (152) maximum c-c for stainless steel.
- Mounting angles screw to wall with #10 screws. Use a minimum of two fasteners per side. For dampers over 21" (533) wide, use three fasteners minimum at top and bottom sides.
- See framing detail on back of page for opening preparation.

NOTE: Dimensions shown in parentheses () indicate millimeters.

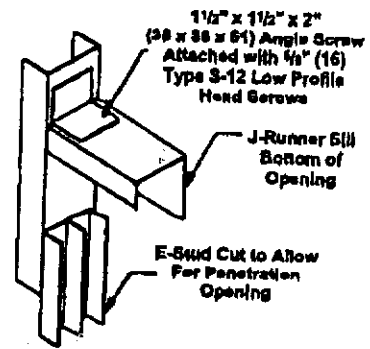


SEE DETAILS ON
UL CLASSIFICATION
MARKING ON ENCLOSED
PRODUCT

FRAMING DETAILS - U438

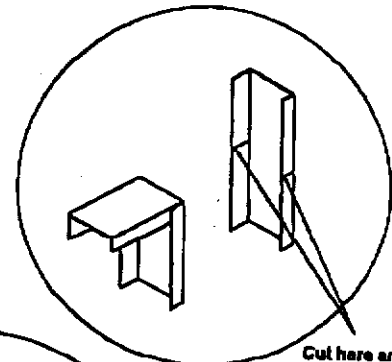
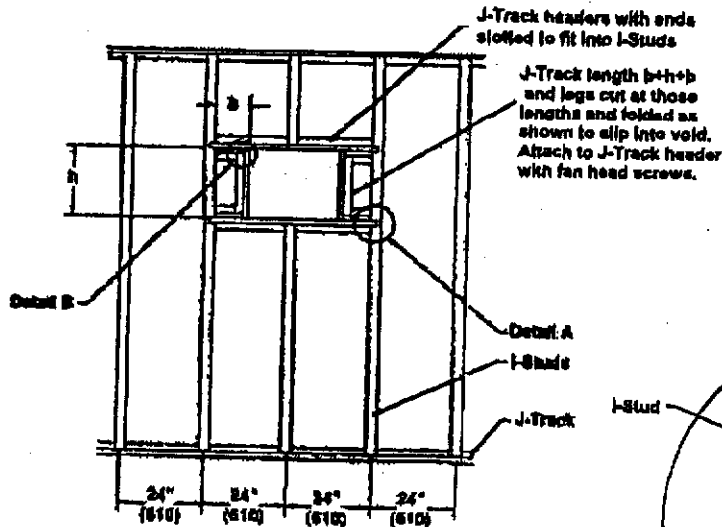


SECTION A-A

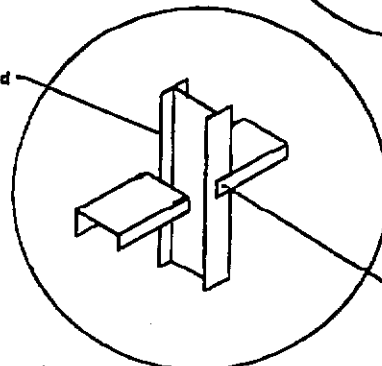


SECTION B-B

FRAMING DETAILS - U497



DETAIL B



DETAIL A

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Plant Locations/Phone Numbers

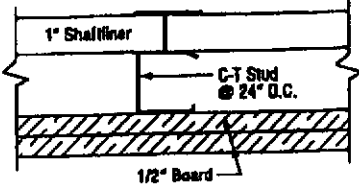
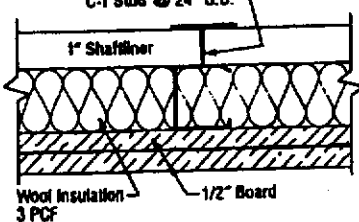
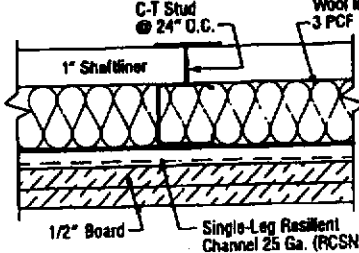
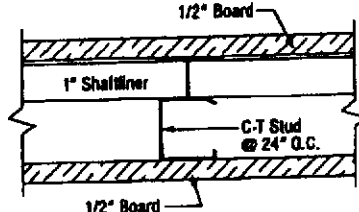
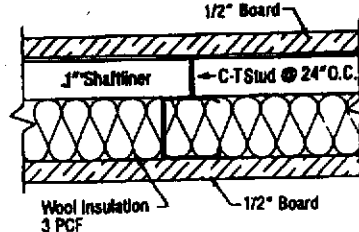
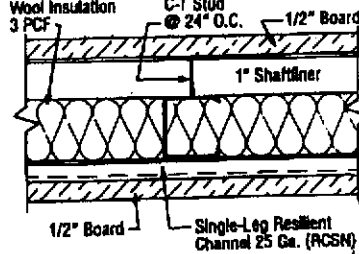
- | | |
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Corporate Headquarters
500 Grant Street/Suite 2226/Pittsburgh, PA 15219
(412) 281-2805

Printed in U.S.A.

SOUND RATINGS: Shaftwall/Stairwall

STC Rating	Test Number	Wall Detail	Description
38	RAL-TL92-40 (Shaftwall #1)		C-T studs 24" o.c. in J-Track. Friction fitted 1" shaftliner panels into "T" section. Base layer of 1/2" gypsum wallboard attached horizontally to "C" section with 1" screws spaced 24" o.c. and 3" from top and bottom tracks. Face layer attached vertically with 1 1/4" screws spaced 12" o.c. and 6" from top and bottom tracks. Face layers are finished with paper tape and joint compound.
44	RAL-TL92-41 (Shaftwall #2)		Same as Shaftwall #1 with 3 pcf mineral wool insulation in cavity.
53	RAL-TL92-42 (Shaftwall #3)		Same as Shaftwall #2 with single leg 25-gage resilient channel applied horizontally and spaced 24" o.c. attached with (1) 3/8" screw at each stud.
39	RAL-TL92-43 (Stairwall #1)		C-T studs 24" o.c. in J-Track. Friction fitted 1" shaftliner panels into "T" section. A face layer of 1/2" gypsum wallboard applied vertically, attached to each side of C-T stud. Wallboard is attached with 1" screws spaced 12" o.c. and 6" from top and bottom tracks. Face layers are finished with paper tape and joint compound.
43	RAL-TL92-44 (Stairwall #2)		Same as Stairwall #1 with 3 pcf mineral wool insulation in cavity.
51	RAL-TL92-46 (Stairwall #3)		Same as Stairwall #2 with single leg 25-gage resilient channel applied horizontally and spaced 24" o.c. attached with (1) 3/8" screw at each stud.

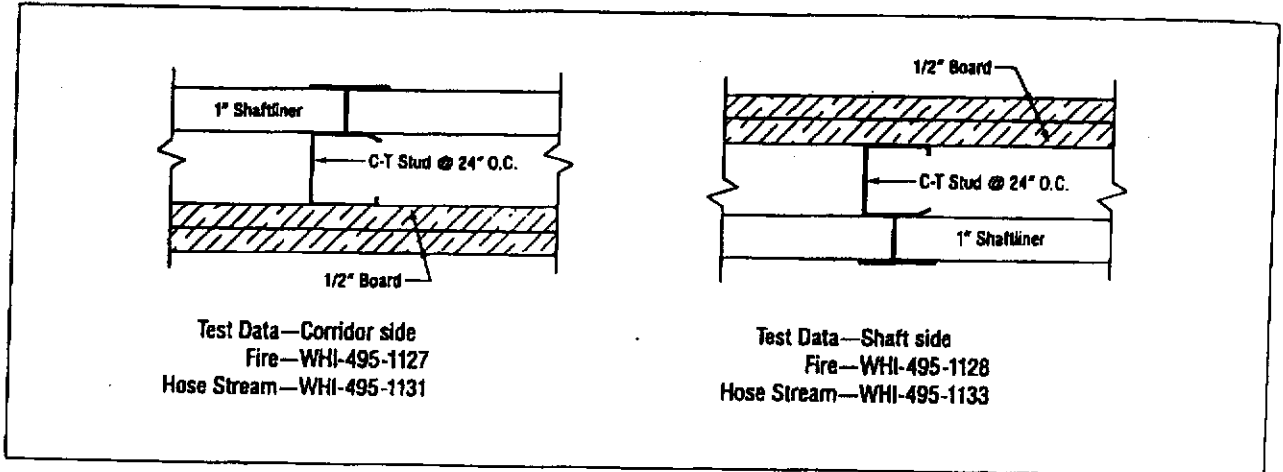
Approvals:
 BOCA: 92-20
 CABO:
 New York City: MEA449-92-M

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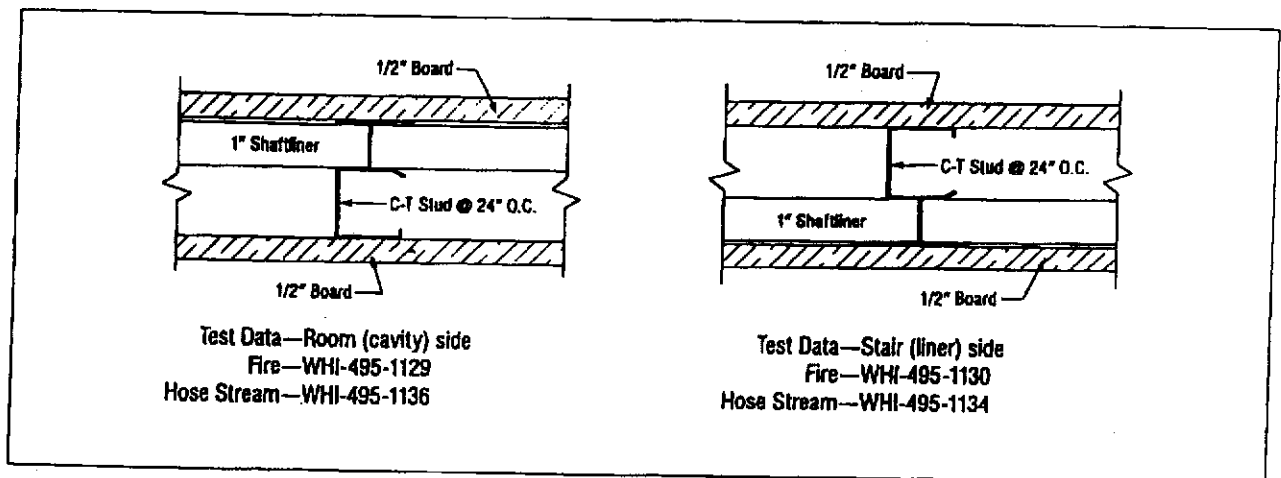
2-HOUR RATED SHAFTWALL/STAIRWALL PARTITIONS WITH U.S.G. GYPSUM PRODUCTS

SHAFTWALL: Warnock Hersey Listing, #DI/WA 120-01



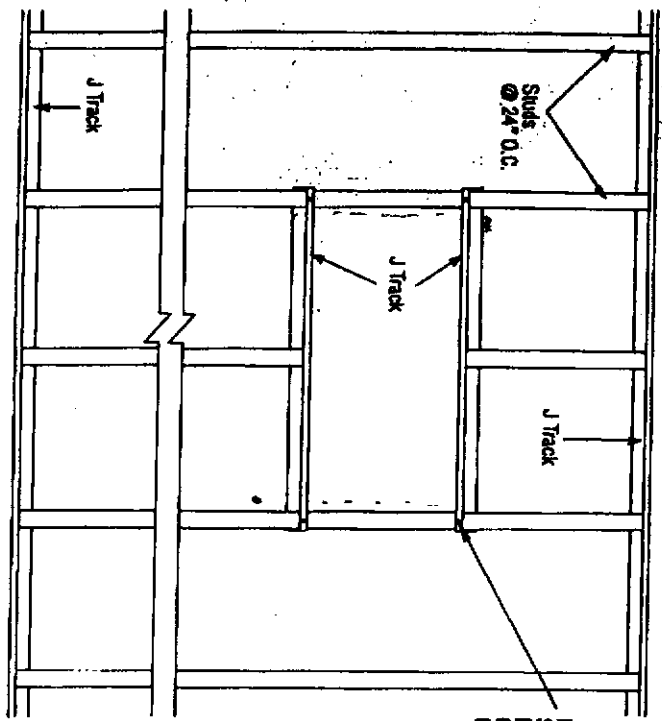
Construction: 1" U.S.G. shaftwall liner friction fit between C-T studs 24" o.c. and perimeter J-Track. Facing consists of 2 layers of 1/2" U.S.G. Firecode 'C' wallboard. Base layer is applied perpendicular to facing and attached with 1" type S screws spaced 24" o.c. and 3" from top and bottom track. Face layer is applied vertically with 1 1/4" type S screws 12" o.c. and 6" from top and bottom track. Face layer joints are finished with paper tape and joint compound.

STAIRWALL: Warnock Hersey Listing, #DI/WA 120-02

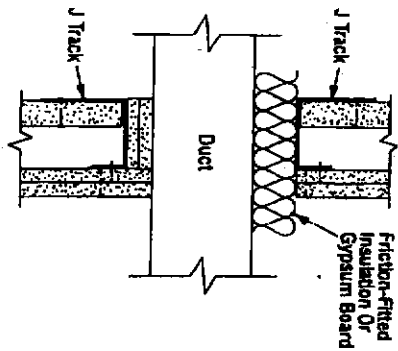


Construction: 1" U.S.G. shaftwall liner friction fit between C-T studs 24" o.c. and perimeter J-Track. Facing consists of (1) layer of 1/2" U.S.G. Firecode 'C' wallboard applied vertically to both sides of the C-T stud with joints offset. Attached with 1" type S screws spaced 12" o.c. and starting 6" from top and bottom track. Finish all exposed joints with paper tape and joint compound.

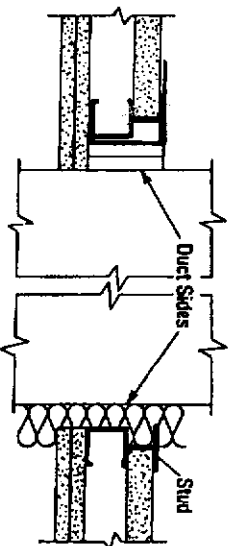
Mechanical Penetrations



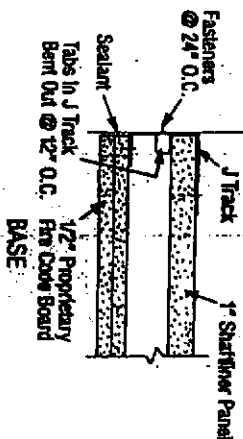
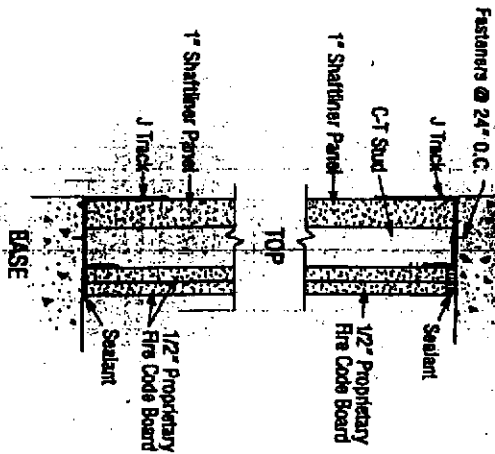
Part-Head Screws On Both Sides Of All Metal Openings



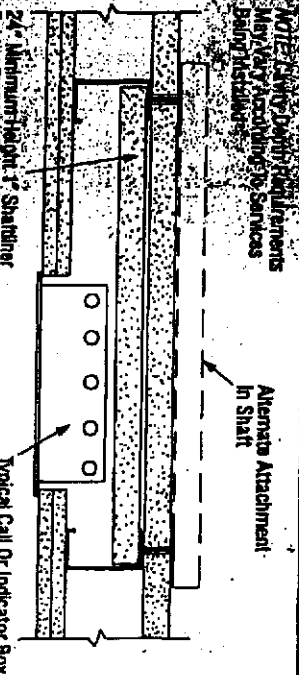
ALTERNATE DUCT DETAIL



ALTERNATE DUCT DETAIL

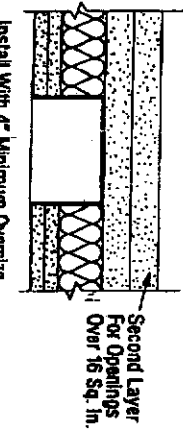


(Alternate to fastening tabs Use 1.5/8" Type S Screws @ 24" O.C.)



NOTE: Verify Depth Requirements Whenever Penetrating Services Being Installed

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