

CITY OF SACRAMENTO

Permit No: 9801673

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 7000 FRANKLIN BL SAC

Sub-Type: REM

Parcel No: 0410130008

Housing (Y/N): N

CONTRACTOR

OWNER

ARCHITECT

GIN WONG & ASSOCIATES

FRANKLIN BUSINESS CENTER ASSOCIATES

7000 FRANKLIN BL #605
SACRAMENTO CA

95823

10390 SANTA MONICA BL
IRVINE CA

92618

Nature of Work: INTERIOR REMODEL. ADDING 9 NEW DIALYSIS STATIONS.

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 3

License Number 48C-171

Date 8/20/98

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 above-mentioned property for inspection purposes.

Date 8/20/98

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 _____

(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 8/20/98

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
APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF PLANNING AND DEVELOPMENT
BUILDING INSPECTION DIVISION**

1231 I Street, Room 200
Sacramento, CA 95814
(916) 264-7619 FAX 264-7046

98014730

P.C. # 5843
SUITE # _____
AREA # 2c

ADDRESS 27000 FRANKLIN BLVD. STE# 880
 PARCEL # C40 0130 008
 CONTACT → Scott Beck LICENSED CONTRACTOR Lic.# _____

NAME PAT ARNETS / ADDRESS CONSULTANT NAME TO BE DETERMINED
 ADDRESS 20 LAURELWOOD ST #178 ADDRESS _____
IRVINE CA ZIP 92618 ZIP _____
 PHONE 714/951-6944 FAX: 714/951-6936 PHONE() - FAX() -

ARCH./ENG. 310/271-6638 OWNER _____
 NAME UNWORLDY ASSOC STE# _____ NAME TOTAL RENAL CARE, INC.
 ADDRESS 10390 SANTA MONICA BLVD ADDRESS 300 UNIVERSITY AVE #201
LOS ANGELES CA ZIP 90025 SACRAMENTO, CA ZIP 95823
 PHONE 310/271-6638 PHONE() - FAX() -

WILL THE PERMITEE HAVE ANY EMPLOYEE'S ON THE JOBSITE? YES NO

NATURE OF WORK IN DETAIL: ADD 1 NEW DIALYSIS STATIONS
TO EXISTING 7. ADD GENERAL INTERIOR OFFICE
REMOLDED & STRENGTHEN AREA, STORAGE, HVAC, PLUMBING
UP GRADES.

D.B.A. South Sac Dialysis Center VALUATION \$150,000.00
BELOW THIS LINE FOR BLDG. DEPT. USE ONLY

FLOOD STATUS _____ S.C.A.T. _____

JOB DESCR. BLDG SHEL APT TI() REM(X) SW FIRE ADD OTH

ENSP. DISCIPLINES BLDG MECH PLUMB ELEC FIRE

# OF STORIES	AREA 1ST FL.	TOTAL AREA	OCCUP. GROUP	CONST. TYPE	FIRE SPRINK.	FIRE ALARM	FED CODE	VIO. FILE
1		5963	B	V-N	Y/N	Y/N	14	OK
B	L	P	M	E	F	S	D	R
Name	JT	BD	BT	BT	JT		BT	

COMMENTS: _____

(SUBSTANTIAL IMPROVEMENTS)
AGREEMENT REGARDING
THE RISK OF FLOODING

RECITALS

A. The undersigned have contracted for construction of the improvements located at 7000 Franklin Blvd # 880 and described in the attached building permit (the "Improvements").

B. The undersigned expressly acknowledge that the Improvements may be subject to flooding hazards due to their location in a 100-year floodplain, as described in the Flood Insurance Rate Map dated November 15, 1989, ("FIRM"), prepared by the Federal Emergency Management Agency ("FEMA").

C. The undersigned acknowledge that they have read the Notice to Building Permit Applicants Regarding the Risk of Flooding attached as Exhibit "B."

D. Despite the potential for flood damage, the undersigned intend that the Improvements be constructed even though they will not be at least one foot above the 100-year floodplain elevation levels identified in the Preliminary Work Map dated January, 1989, prepared by the U.S. Army Corps of Engineers.

E. The undersigned acknowledge that the City of Sacramento (the "City") recommends obtaining flood insurance for the Improvements.

AGREEMENT

In consideration of the issuance of a building permit for construction of the Improvements, the undersigned agree as follows:

1. Flood-Related Property Damage. For purposes of this Agreement, the term "flood-related property damage" shall mean any property damage due to flooding resulting from an overtopping out of the channels of the Sacramento River, American River, Dry Creek, Arcade Creek or Morrison Creek levee systems or a break in those levee systems.

2. Assumption of Risk. The undersigned expressly assume the risk that the Improvements may be subject to flood-related property damage.

3. Waiver of Property Damage Claims. The undersigned unconditionally waive any flood-related property damage claim asserting liability on the part of the City, or its officers, agents or employees premised on the issuance of a permit for the Improvements,

9. Succession. The undersigned expressly intend that the obligations contained herein shall run with the Improvements and shall bind their respective heirs, assignees and successors in interest.

10. Termination. All of the obligations set forth in this Agreement shall terminate at such time as FEMA determines that the area in which the Improvements are located has attained at least 100-year flood protection.

DATED: 8/18/98

Mark Otani
SIGNATURE

Title of Signatory if Signing for an Entity

MARK OTANI
Name

7723 DUTRA BEND DR
Address

SALTO, CA 95831

Mark Otani
SIGNATURE

AGENT FOR OWNER
Title of Signatory if Signing for an Entity

Name

Address

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

Business Name: TOTAL RENAL CARE INC Phone: (916) 920-0256

Site Address: 7000 FRANKLIN BLVD Suite: 880
(Street) (Zip)

Business Owner/Representative: PAT SANDERS/SANDER CONSTRUCTION Phone: (714) 9516944

Nature of Business: FREE STANDING DIALYSIS CLINIC

Property Owner: BRESSIE & CO Phone: _____

Address: 520 THIRD ST Suite: 555
SAN FRANCISCO CA 94107
(City) (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: MARK CHAN
(Print)
Mark Chan 8/26/98
(Signature) (Date)

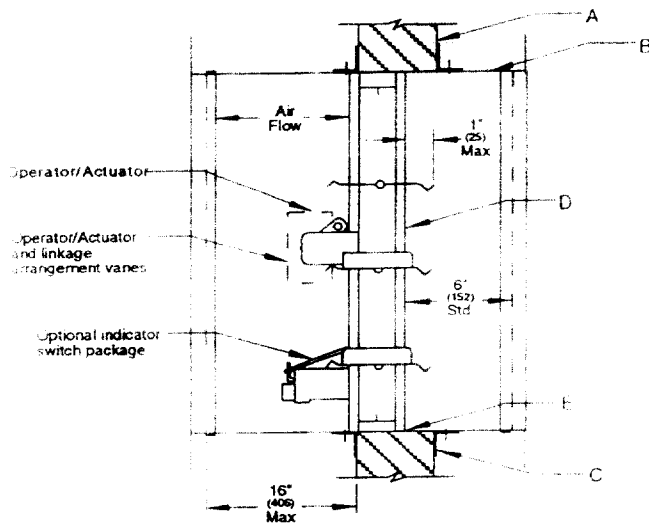
BID Use Only: Plan Ck# <u>5843</u> Permit # <u>9801673C</u> OK to issue prmt? <input checked="" type="checkbox"/> <u>JM 8-26-98</u> F.D. Appr Req'd? Yes No <small>init date</small>	
Hold on Certificate of Occupancy? Yes No	
Fire Dept. Use Only:	
OK to issue permit? init _____ date _____ OK to issue Certificate of Occupancy? init _____ date _____	

COMBINATION FIRE/SMOKE DAMPER

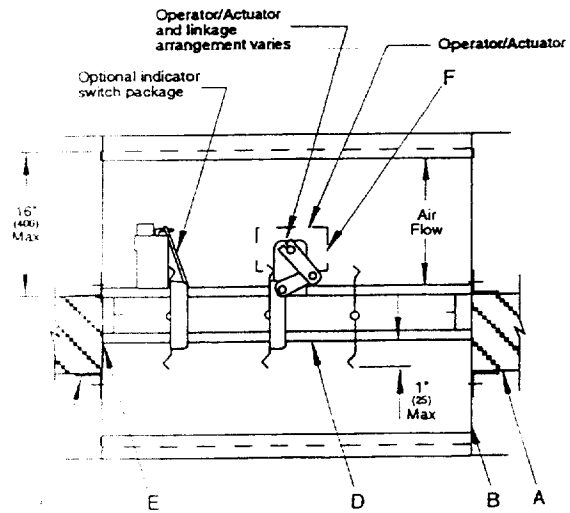
INSTALLATION INSTRUCTIONS

1 Hour Rating
1 1/2 Hour Rating

Series - FSD130



Vertical Mount



Horizontal Mount

Notes:

- All dimensions shown in () are in millimeters.
- Illustration depicts damper installed vertical right side up. Damper may also be installed up side down.

Note:

- Illustration depicts damper installed from the top down with the actuator above the ceiling line. Damper may also be installed from the bottom up with the actuator below the ceiling line.

Concrete or masonry fire partition shown. See Wood Stud and/or Steel Stud Framing for Fire Dampers In Drywall and/or Cavity Shaftwall Partitions Supplemental Installation Instructions for further vertical mount installation details. Opening shall be a minimum 1/4" (6) larger than the overall damper and sleeve assembly size and a maximum of 1-1/4" (32). Damper must be installed with leading edge of closed blade within the partition.

- For rigid type duct connections, the sleeve shall be a minimum of 16 gage (1.5) for dampers up to 24" wide by 24" high (610 x 610). When lighter gage sleeves are used, one or more of commonly used break away style connections are required. Refer to Sleeve Termination Supplemental Installation Instructions for further details. In no case will the sleeve gage be less than the duct gage to which it is connected. Damper sleeve shall not extend more than 16" (406) beyond the rated partition on the actuator side. The opposite side extension shall be a maximum of 6" (152) unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16" (406).
- Mounting angles shall be a minimum of 1-1/2" x 3/4" x 20 gage (38 x 19 x 1). Fastening or welding angles together at the corners is not required. The angles shall be attached to the sleeve, not the partition, with 3/16" (4.8) diameter steel rivets, Quick-Lock Joints, welds, or No. 10 (M5) bolts or sheet metal screws at 8" (203) o.c. maximum. A minimum of two connections per side, top, bottom. Mounting angles shall overlap the wall a minimum of 1" (25). A minimum 3/4" x 20 gage (19 x 1) flange termination may be used in lieu of mounting angles on one side. Refer to Sleeve Termination Supplemental Installation Instructions for further details. Ensure that attachment device does not interfere with the operation of the damper and the free movement of the damper blades.
- When joining multiple sections or fastening the damper to the sleeve, the damper shall be fastened with 3/16" (4.8) diameter steel rivets, Quick-Lock Joints, welds, or No. 10 (M5) bolts or sheet metal screws at 8" (203) o.c. maximum. A minimum of two connections per side, top, bottom.
- A continuous bead of Dow-Corning 999A, Dow-Corning 732, Fibertax, or GE RTV silicone rubber sealant shall be applied between the damper and the sleeve and between sections of a multiple damper assembly. Sealant is only required on one side of the damper.
- Fire/Leakage rated dampers and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Field installed qualified operators must bear the C&S Air Products UL Label and shall be installed according to the specific operator installation instructions for mounting arrangements, duct velocity, and damper size. Damper operator/actuator must be tested prior to system start-up to ensure proper operation. Before applying power to the operator/actuator, the power must be verified.

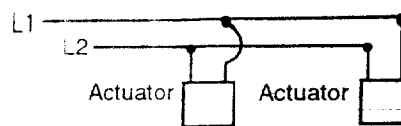
Model - FSD131 or FSD132

For Use in Dynamic or Static Systems
1-1/2 Hour Rated.

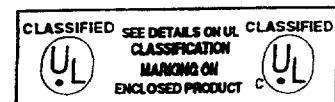
Galvanized or Stainless Steel construction.

Maximum damper size is 24" wide x 24" high. (610 x 610)

Minimum damper size is 6" wide x 6" high. (152 x 152)



**Multiple Actuator
Field Wiring / Pneumatic Piping**



Underwriter's Laboratories file #R14981

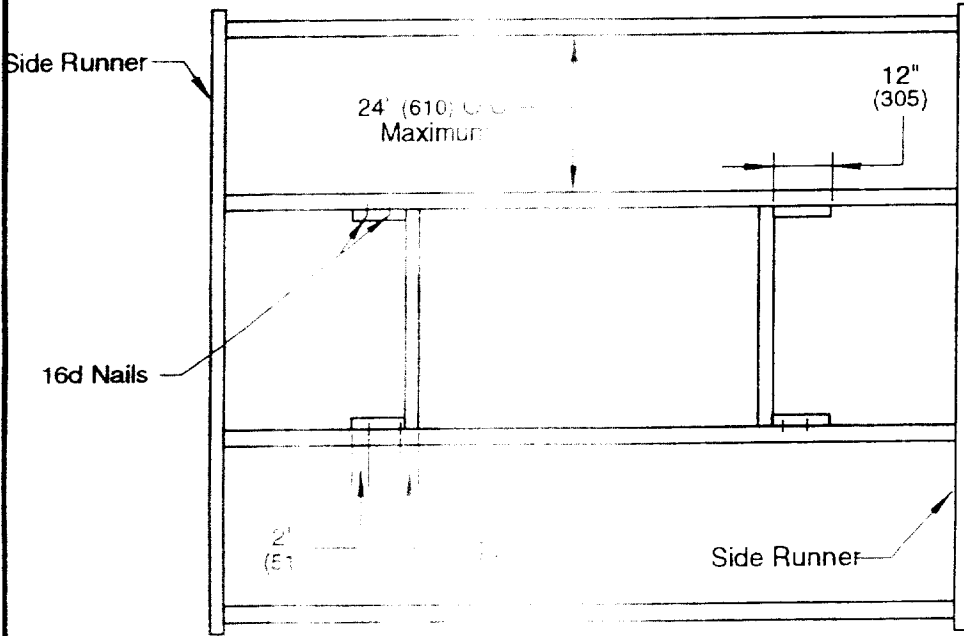
The product is also listed by CSFM file # 3225-1404:105 and 3230-1404:106 and conforms to NFPA 90-A and NFPA 92-A.

Information is correct at time of printing. However, we reserve the right to make changes without notice.

NOTE: Dimensions in parentheses () are millimeters.

CLASSIFIED SEE DETAILS ON U.L. CLASSIFIED
CLASSIFICATION MARKING ON ENCLOSED PRODUCT

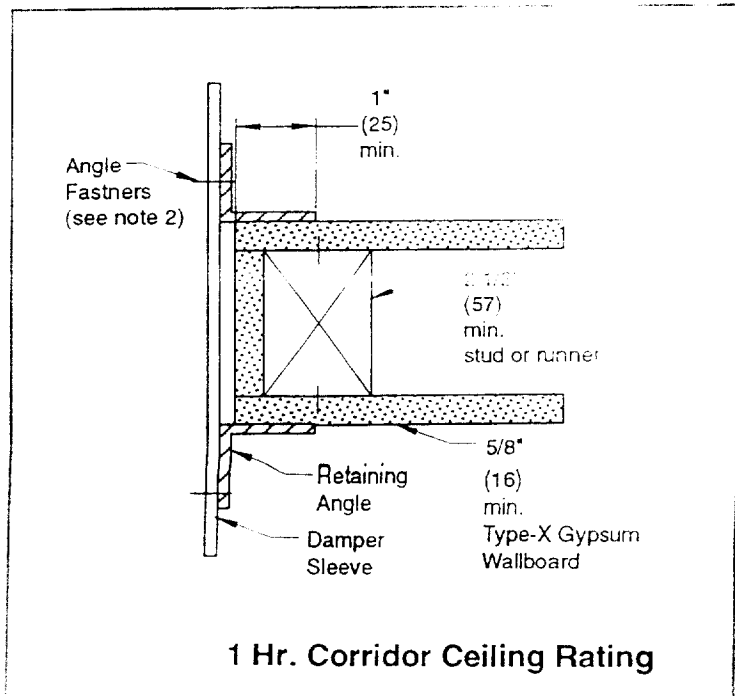
TESTED PER U.L. 555



Opening Preparation Detail - Top View

NOTES

1. Gypsum panels must be attached to all stud and runner flanges surrounding opening with 1-5/8" (41) drywall screws or 6d nails.
2. Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 1/8" gage (38 x 38 x 1.5). The angles should be attached to the sleeve, not the partition, with No. 10 (M5) sheet metal screws, or welds, or 1/4" x 20 gage (6 x 1) bolts at 6" (152) o.c. maximum. A minimum of two connections per side, top, bottom. Mounting angles shall overlap the wall a minimum of 1" (25). A minimum 3/4" x 20 gage (19 x 1) flange termination may be used in lieu of mounting angles on the corridor side of the damper sleeve. Refer to Sleeve Termination Supplemental Installation Instructions for further details.
3. See FSD-130 installation instruction sheet for additional details.

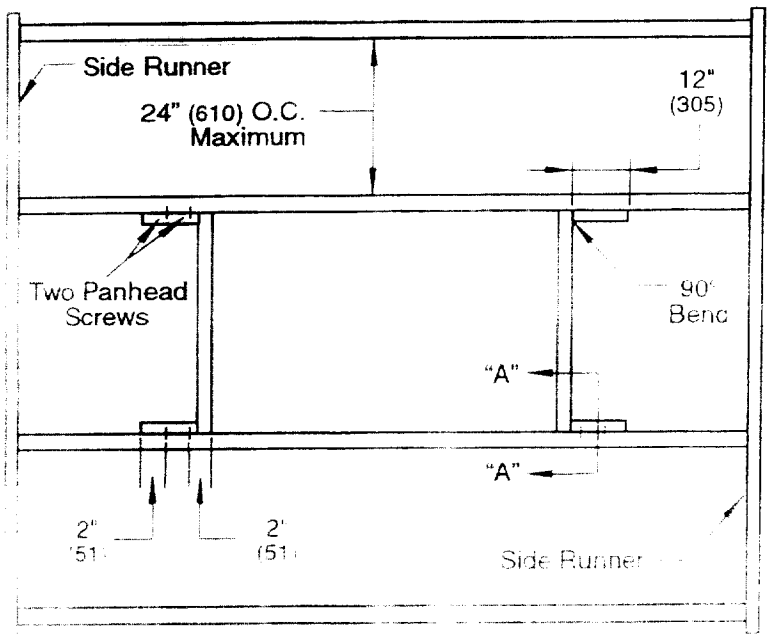


1 Hr. Corridor Ceiling Rating

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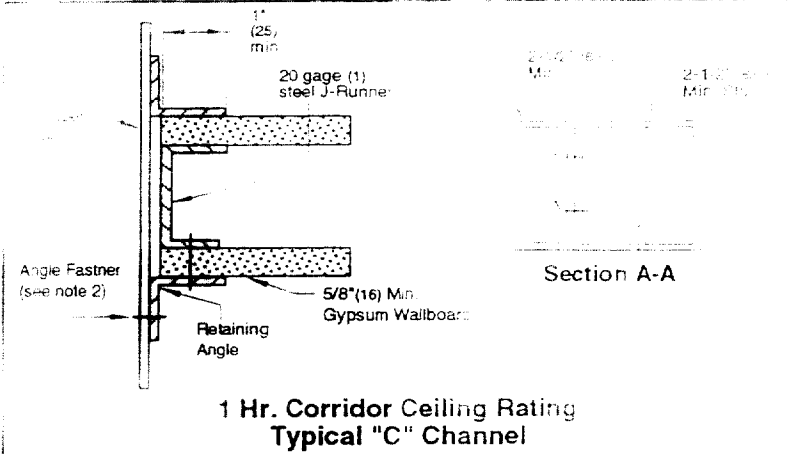
NOTE: Dimensions in parentheses () are millimeters.

spec. U.L. Supplem. FSD130 08/98



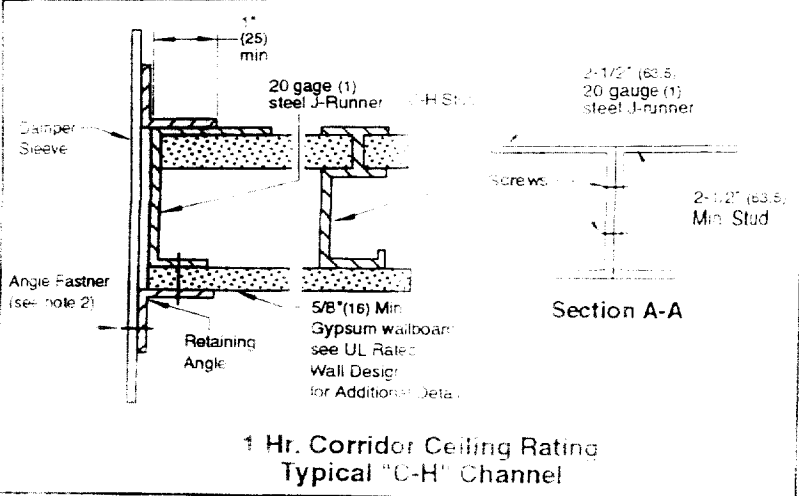
**Opening Preparation Detail
- Top View -**

CLASSIFIED SEE DETAILS ON UL CLASSIFIED
CLASSIFICATION MARKING ON ENCLOSED PRODUCT
UL UL
U.L. FILE # R15875



NOTES

- Gypsum panels must be attached 12" (305) O.C. maximum, to all steel side runner flanges surrounding opening with 1-5/8" (41) drywall screws.
- Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 16 gage (38 x 38 x .5). The angles shall be attached to the sleeve, not the partition, with 3/16" (4.8) steel rivets, Quick-Lock Joints, welds, or No. 10 (M5) bolts or sheet metal screws at 12" (305) O.C. maximum. A minimum of two connections per side, top, bottom. **Mounting angles shall overlap the wall a minimum of 1" (25).** A minimum 3/4" x 20 gage (19 x 1) flange termination may be used in lieu of mounting angles on the corridor side of the damper sleeve. Refer to Sleeve Termination Supplemental Installation Instructions for further details.
See FSD-130 Installation Instruction sheet for additional details.





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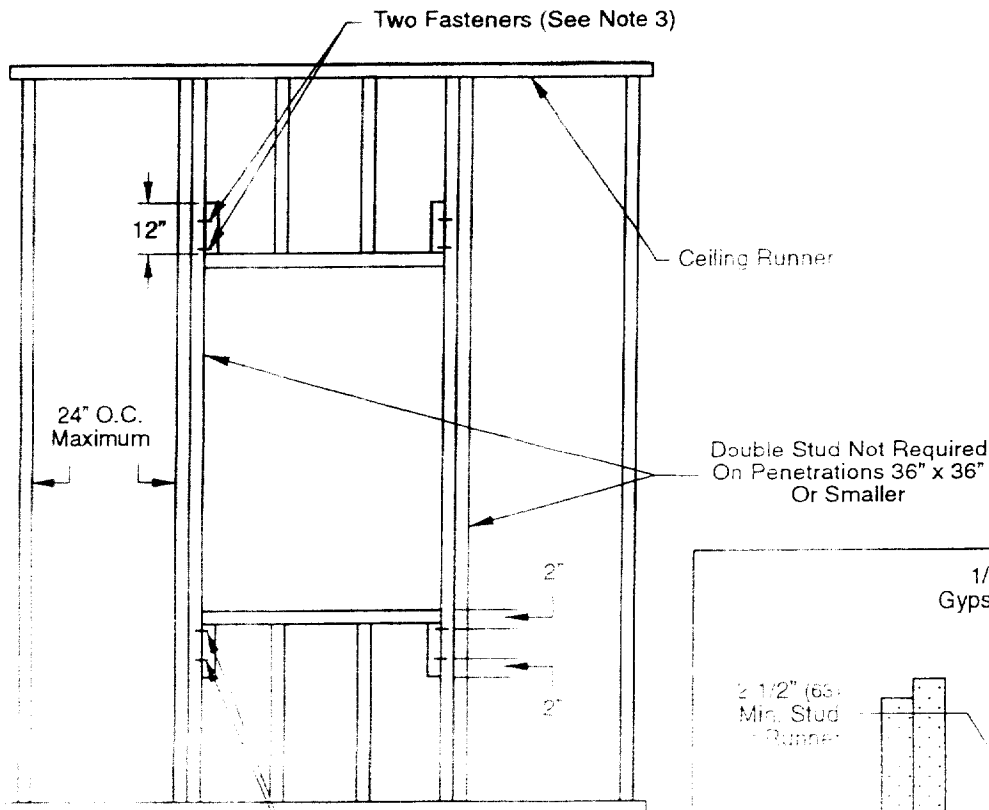
WOOD STUD FRAMING FOR FIRE DAMPERS IN DRYWALL PARTITIONS

INSTALLATION INSTRUCTIONS SUPPLEMENT

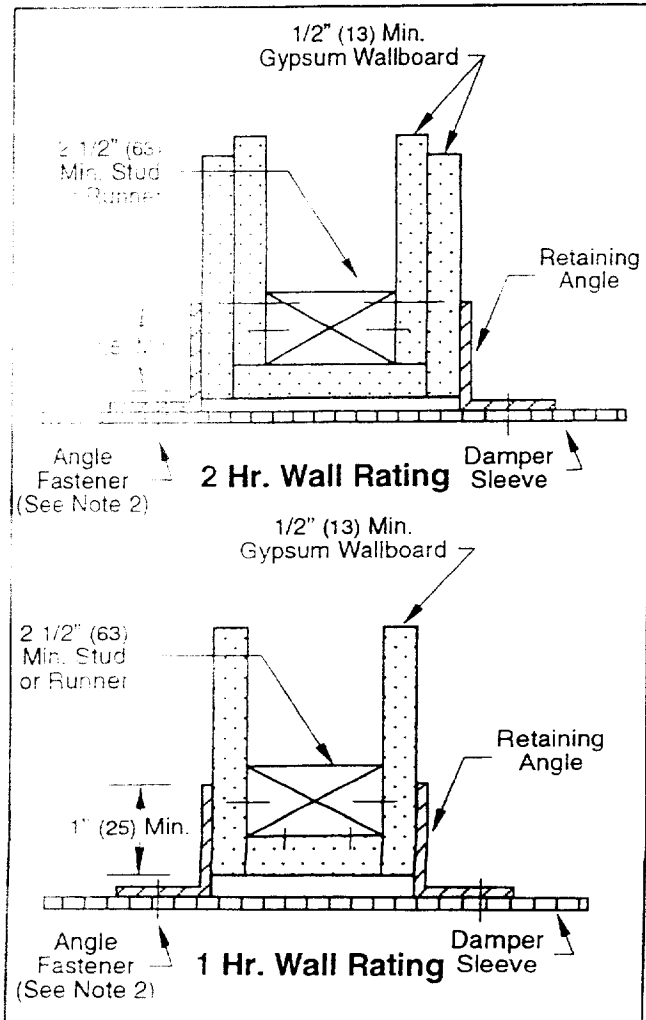
CLASSIFIED SEE DETAILS ON U.L. CLASSIFIED MARKING ON ENCLOSED PRODUCT CLASSIFIED

TESTED PER U.L. 555



Opening Preparation Detail



NOTES

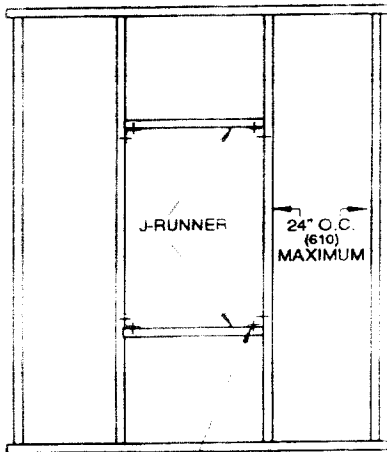
- Gypsum panels must be fastened 12" (305) O.C. maximum to all stud and runner flanges surrounding opening.
- Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 16ga (38 x 38 x 1.5). The angles should be attached to the sleeve, not the partition, with No. 10 (M5) sheet metal screws, or welds, or 1/4" (6) x 20 bolts at 12" (305) o.c. maximum. A minimum of two connections per side, top, bottom. Mounting angles shall overlap the wall a minimum of 1" (25). A minimum 3/4" x 20 gage (19 x 1) flange termination units sleeve flange may be used in lieu of mounting angles. Refer to Sleeve Termination Supplemental Installation Instructions for further details.
- All fasteners to be per U.L. Classified wall design.
- See standard installation instruction sheets for additional details.

Underwriter's Laboratories file #R14981

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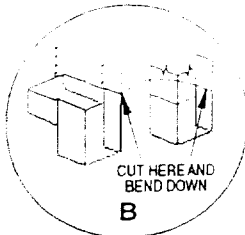
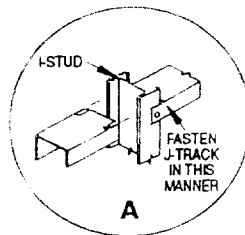
NOTE: Dimensions in parentheses () are millimeters.

Spec. I.I. Supplement - III 08/98



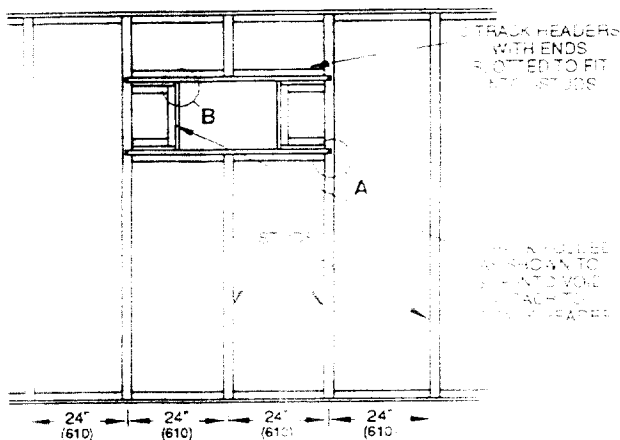
1-1/2" x 1-1/2" x 2"
(38 x 38 x 51) Min.
Angle Screw Attached with
5/8" (16) Type S-12 (Min.) Screw

Opening Preparation Detail



CLASSIFIED SEE DETAILS ON UL CLASSIFIED
CLASSIFICATION MARKING ON
ENCLOSED PRODUCT

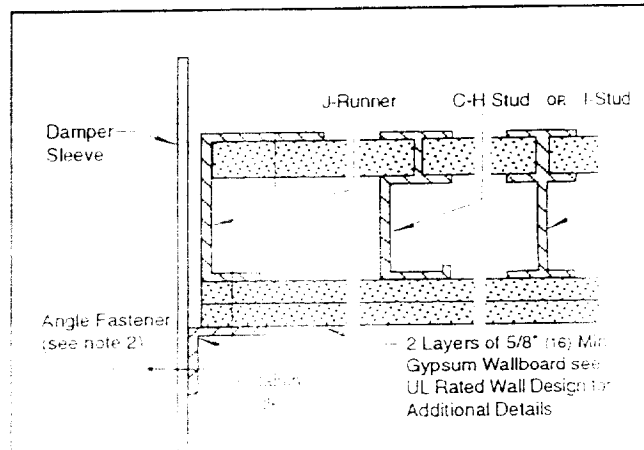
TESTED PER U.L. 555



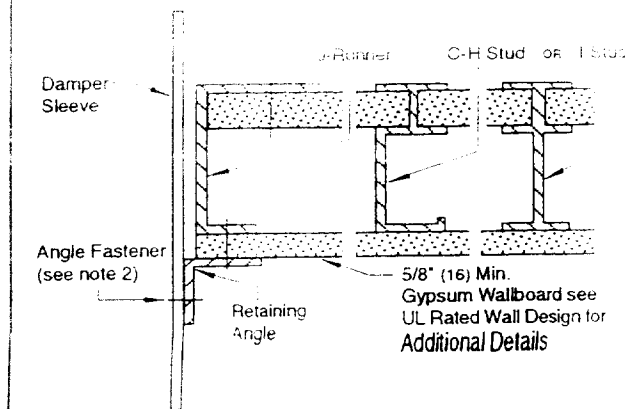
**Optional Opening Preparation Detail
for I-Stub Assembly**

NOTES

- Gypsum panels must be screwed 12" (305) O.C. maximum to all stud and runner flanges surrounding opening.
- Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 16ga (38 x 38 x 1.5). For opening sizes ≤ 48" x 36" (1224 x 915) retaining angles are only required on one side of the partition (see adjacent drawings) and must be attached to the sleeve and the partition. The mounting angles may be located on the exterior surface of the wallboard (as shown) or they may also be placed behind the drywall and in direct contact with the stud runner. For larger openings (or optional on smaller openings as well), retaining angles are required on both sides of the partition and must be attached to the sleeve. Attachment to the sleeve and/or the partition shall be with No. 10 (M5) sheet metal screws, or welds, or 1/4" (6) x 20 bolts at 12" (305) o.c. maximum. A minimum of two connections per side, top, bottom. Mounting angles shall overlap the wall a minimum of 1" (25). A minimum 3/4" x 20 gage (19 x 1) flange termination may be used in lieu of mounting angles. Refer to Sleeve Termination Supplemental Installation Instructions for further details.
- See standard installation instruction sheets for additional details



2 Hr. Wall Rating



1 Hr. Wall Rating

Spec: I.I. Supplement - IV 08/98

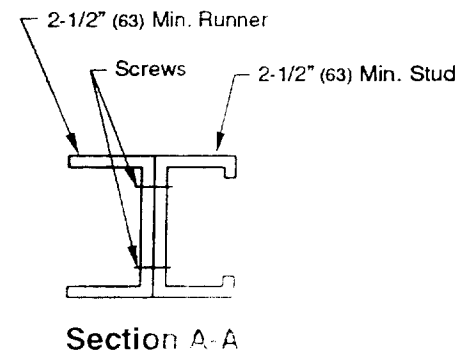
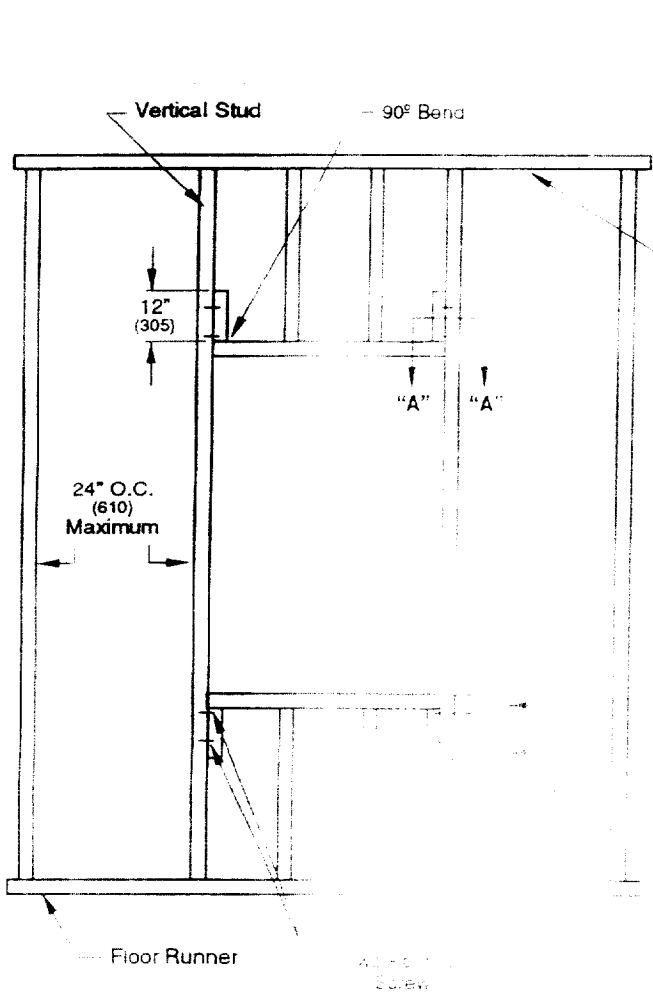
Underwriter's Laboratories file #R14981

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METAL STUD FRAMING FOR FIRE DAMPERS DRYWALL PARTITIONS

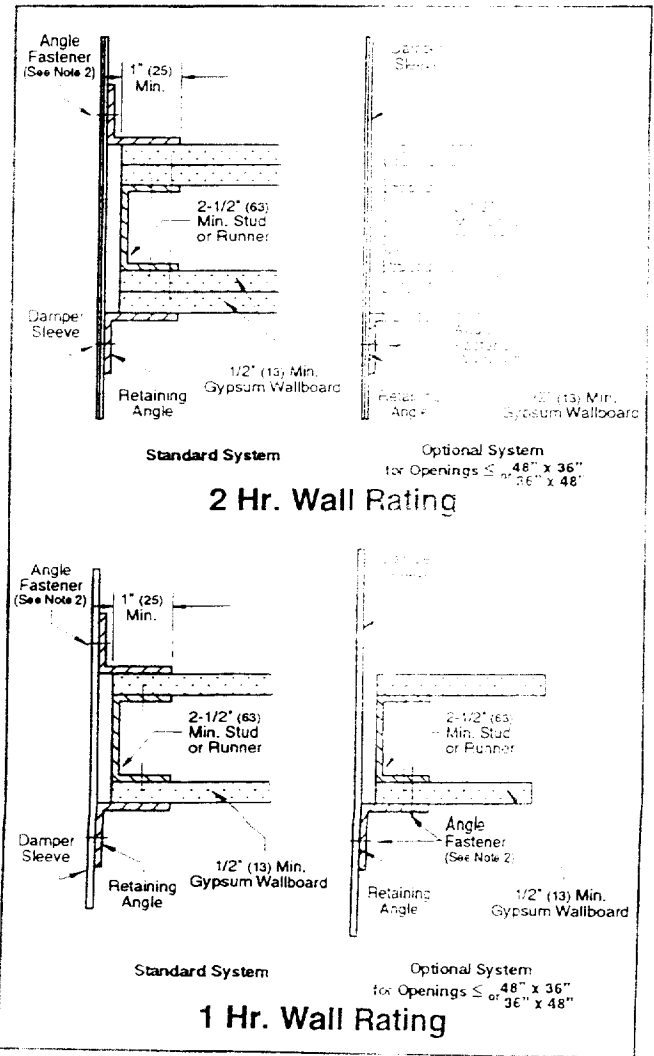
INSTALLATION INSTRUCTIONS SUPPLEMENT



CLASSIFIED SEE DETAILS ON UL CLASSIFICATION MARKING ON ENCLOSED PRODUCT CLASSIFIED

UL

TESTED PER U.L. 555



NOTES

1. Gypsum panels must be screwed 12" (305) O.C. maximum to all stud and runner flanges surrounding opening.
2. Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 1/8" (38 x 38 x 1.5). For opening sizes $\geq 48" \times 36"$ (1224 x 915) or $36" \times 48"$ (915 x 1224) retaining angles are only required on one side of the partition and must be attached to the sleeve and the partition. The mounting angles may be located on the exterior surface of the wallboard (as shown) or they may also be placed behind the drywall and in direct contact with the stud runner. For larger openings (or optional on smaller openings), retaining angles are required on both sides of the partition and must be attached to the sleeve. Attachment to the sleeve and/or the partition shall be with No. 10 (M5) sheet metal screws, or welds, or 1/4" (6) x 20 bolts at 12" (305) o.c. maximum. A minimum of two connections per side, top, bottom. Mounting angles shall overlap the wall a minimum of 1" (25). A minimum 3/4" x 20 gage (19 x 1) flange termination may be used in lieu of mounting angles. Refer to Sleeve Termination Supplemental Installation Instructions for further details.
3. See standard installation instruction sheets for additional details.
4. For dampers larger than 120" x 50" (3048 x 1232) double vertical studs are required.

SPEC. I.I. Supplement - II 08/98

Underwriter's Laboratories file #R14981

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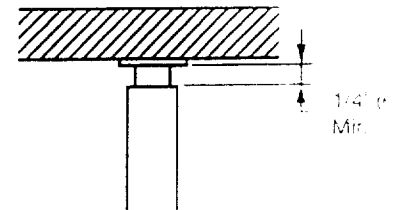
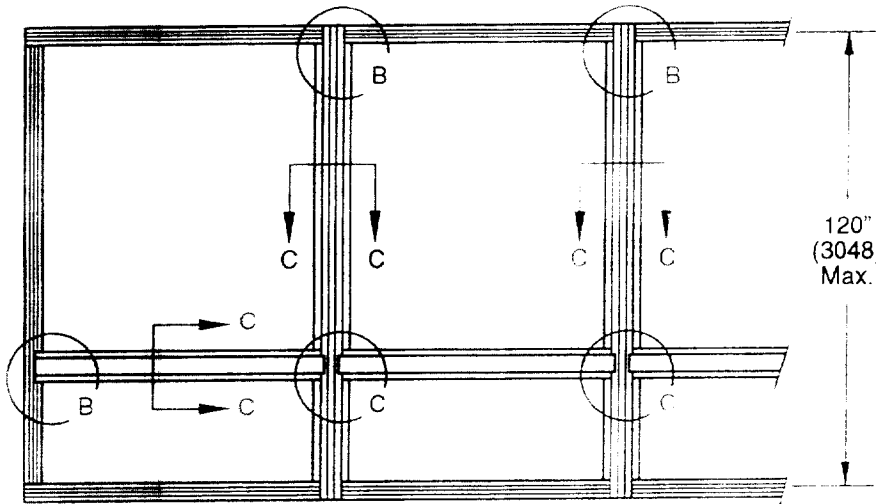
NOTE: Dimensions in parentheses () are millimeters.

MULLION IN OVERSIZED WALL OPENINGS

INSTALLATION INSTRUCTIONS

For Fire Damper

CLASSIFIED SEE DETAILS ON UL CLASSIFIED CLASSIFIED
 U.L. CLASSIFICATION MARKING ON U.L. ENCLOSED PRODUCT U.L.



Detail B

General Installation

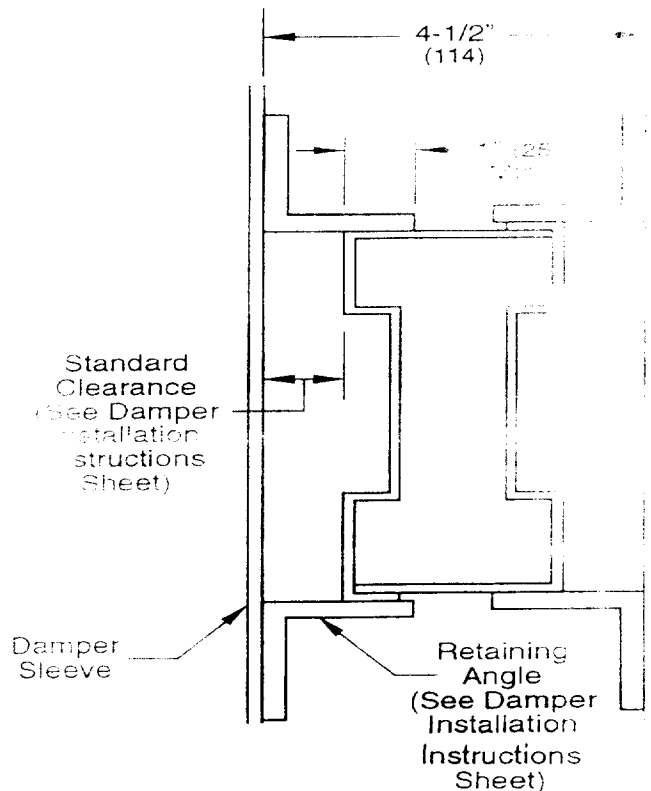
Fabricate mullions of 16 gauge (3) galvanized steel (Construction Details fig. 1). Two mullion pieces are joined with 3/16" (5) diameter steel pop rivets or 3/4" (19) long weld located 6" (152) maximum from each end and 1/2" (13) maximum. The mullions should permit clearance between the mullion and top cap. Required clearance for 8' (2438) foot (305) of wall opening height. Maximum permitted clearance is 1-1/4" (32). (eg., for 8' (2440) high opening the permitted clearance is $1/8" \text{ per foot} \times 8 = 1$ to 1-1/4" (3.2 per 305 x 8 = 25 to 32)).

Fabricate two caps per each mullion of 12 gauge (3) galvanized steel (Construction Details fig. 2). Top and bottom caps must permit mullion to overlap each cap by minimum 1/2" (13). Cap height is calculated by adding 3" (76) to permitted mullion expansion clearance which is 1/8" (3) per foot (305) of wall opening height.

Insert mullion caps into mullion end allowing mullion to fit between the caps. DO NOT fasten mullion to caps in any way. Locate within opening to provide correct expansion clearance for dampers.

Drill holes in caps and concrete for anchoring. Set mullion caps with 1/4" (6) - 20 x 5/16" (8) steel screws and 3/8" (9.5) diameter x 1" (25) concrete expansion anchors (Construction Details fig. 3).

If steel inlets are present, four 1" (25) welds (two per mullion cap leg) may be used to anchor each mullion cap.



Section A-A

Underwriter's Laboratories file #R1498:

information is correct at time of printing. However, we reserve the right to make changes without notice.

NOTE: Dimensions in parentheses () are millimeters.



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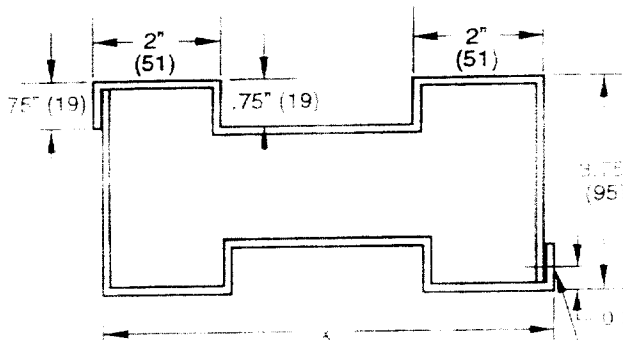


Figure 1

1/4"-20 Steel Concrete Anchor w/ Counter Sunk Flat Head Steel Screw

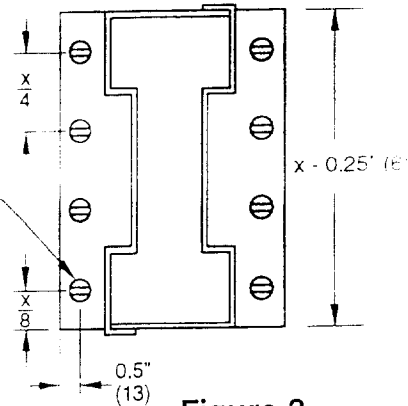


Figure 3

3/16" (5) Blind Rivet or 3/4" (19) Long Welds (305) o-c. 6" (152) Max From Ends

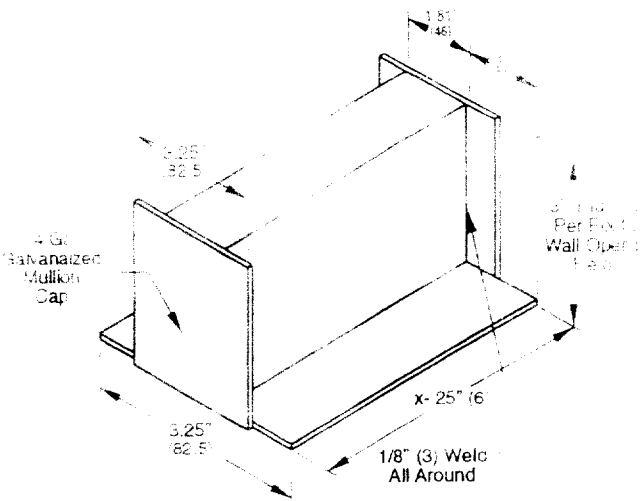
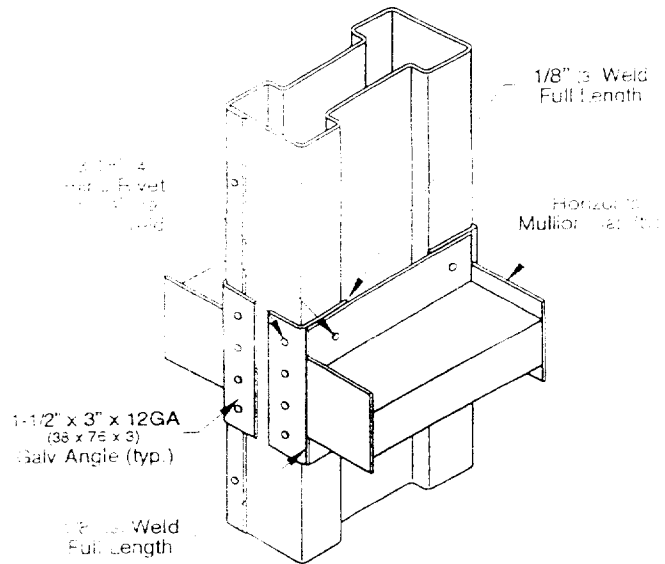


Figure 2



Detail C

Application

Fire rated dampers are U.L. classified for their maximum size or maximum assembly size. Generic steel mullion can be used to separate vertically mounted, galvanized steel fire dampers, in vertical wall openings larger than maximum U.L. permitted multiple damper assembly size. Fire dampers must not exceed a maximum of 120" (3048) width and height and must have 1-1/2 hour fire resistance. Mullions are not intended to be part of the duct work (i.e., exposed to air flow).

Whenever the duct size exceeds the maximum damper width, the opening must be divided into two or more separate openings with a mullion installed between damper sections. The mullion consists of a vertical mullion and two mullion caps - one cap for top of wall opening and one for the bottom.

The steel mullion is intended for use only in concrete block, masonry, brick or poured walls with 7" (178) minimum and 12" (305) maximum thickness. Hollow concrete block walls are to be suitably filled with minimum 3500 psi concrete for proper securing of mullion.

Underwriter's Laboratories file #R14861

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NOTE: Dimensions in parentheses () are millimeters.

SPEC. 1.1. Mullion 08/98

