

MINIMUM 3" x 3" x 3/16" RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER CORNERS OF OPENINGS.

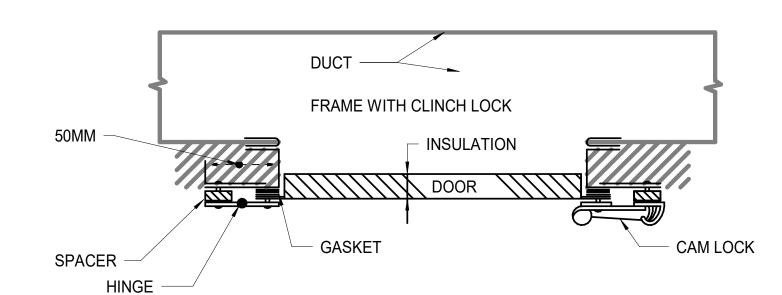
- 2. CLEARANCE, DAMPER SLEEVE TO WALL OPENING: 1/8" PER LINEAR FOOT. 1/4" MINIMUM.
- 3. STEEL SLEEVE: SLEEVE GAUGE SHALL BE MINIMUM 14 GAUGE UNLESS USING APPROVED BREAKWAY CONNECTIONS PER SMACNA FIRE, SMOKE, AND RADIATION DAMPER GUIDE, FIGURE 5-2. IF APPROVED BREAKAWAY CONNECTIONS ARE USED THEN SLEEVE GAUGE SHALL BE AT LEAST EQUAL TO THE GAUGE OF THE CONNECTING DUCT AND COMPLIANT WITH SPEC. 23 33 00 - 2.05.D.2. MINIMUM REQUIREMENTS.
- 4. SECURE RETAINING ANGLES TO SLEEVE, DAMPER TO SLEEVE AND MULTIPLE DAMPERS ON 8" CENTER WITH 1/4" BOLTS AND NUTS OR NO.10 STEEL SCREWS. MINIMUM TWO CONNECTIONS IN EACH SIDE.
- 5. THIS DETAIL SHOWN FOR REFERENCE ONLY, FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY THE U.L. MUST BE USED IN LIEU OF THIS DETAIL WHERE APPLICABLE.
- 6. DIMENSION VARIES FROM 0" TO 6". PROVIDE UNOBSTRUCTED AIRFLOW WHEREVER POSSIBLE.
- 7. REFER TO SPEC. 23 33 00 FOR ADDITIONAL REQUIREMENTS.

M-502

FIRE DAMPER W/ACCESS DOOR

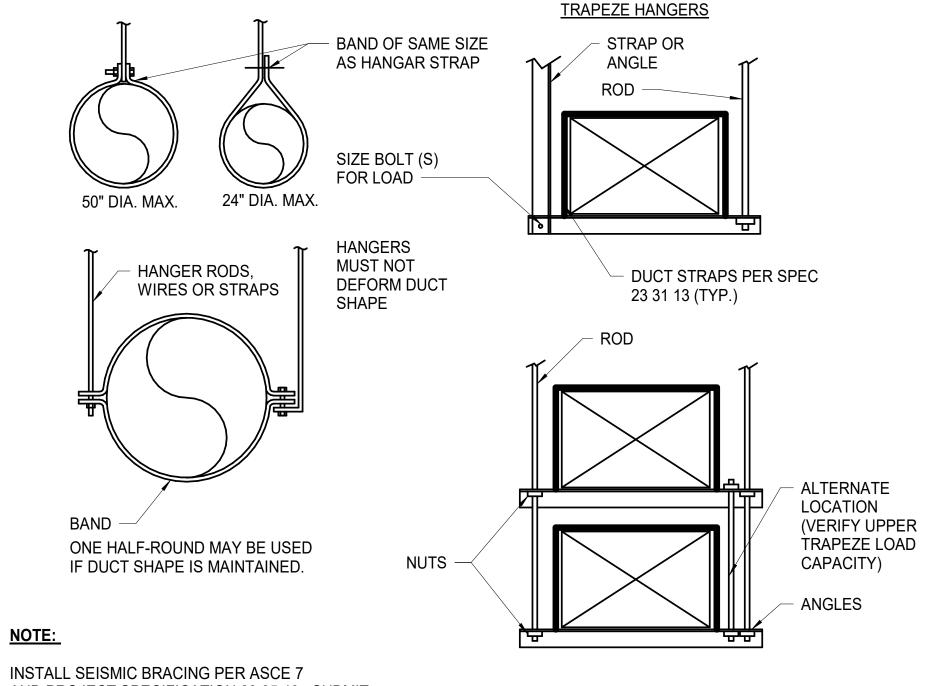
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	MIN. NO.	MIN. NO.	SHEET METAL GAUGE THICKNESS (mm)		
DOOR	OF	OF			
SIZE	HINGES	HANDLES	DOOR	BACK	FRAME
16" x 16"	SINGLE CONTINUOUS	1	24	26	22



ACCESS DOOR IN DUCTWORK M-502

SCALE: NO SCALE SHOWN

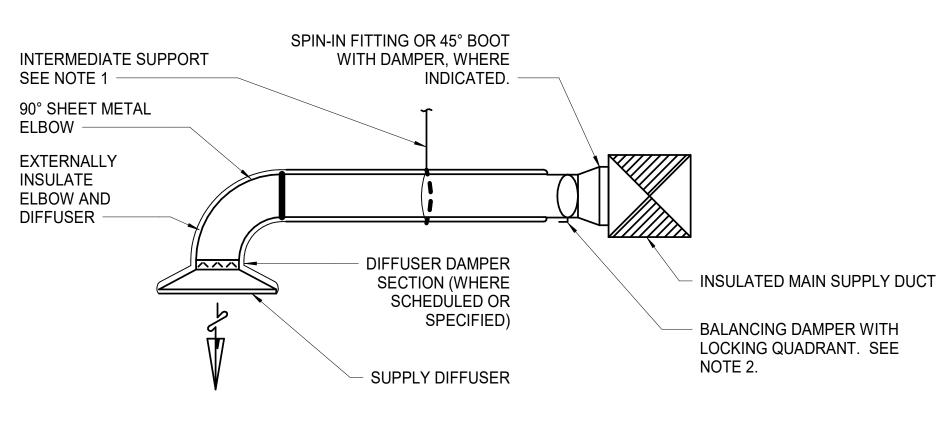


AND PROJECT SPECIFICATION 23 05 48. SUBMIT REINFORCEMENT MAY BE USED FOR SHOP DRAWINGS AND CALCULATIONS FOR ATTACHMENT IF IT QUALIFIES FOR BOTH SUPPORTS, ANCHORAGE, AND BRACING FOR DUTIES DO NOT EXCEEED ALLOWABLE APPROVAL AS A DELEGATED DESIGN SUBMITTAL LOAD LIMITS



DUCT & PIPE HANGERS

SCALE: NO SCALE SHOWN



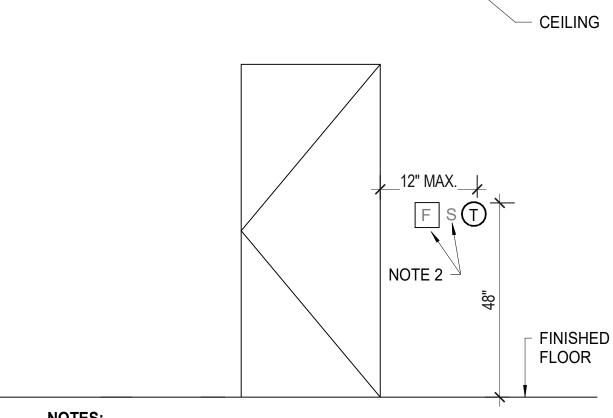
NOTES:

- 1. FURNISH AND INSTALL INTERMEDIATE SUPPORT, WHERE REQUIRED, TO PREVENT SAGGING. ALL BRANCH DUCTWORK MUST BE HARD DUCT. FLEX DUCT IS PROHIBITED.
- 2. FURNISH AND INSTALL 2" DUCT EXTENSION TO ALLOW OPERATION OF DAMPER WITHOUT DAMAGE TO INSULATION.



DUCT CONNECTION TO DIFFUSER

SCALE: NO SCALE SHOWN



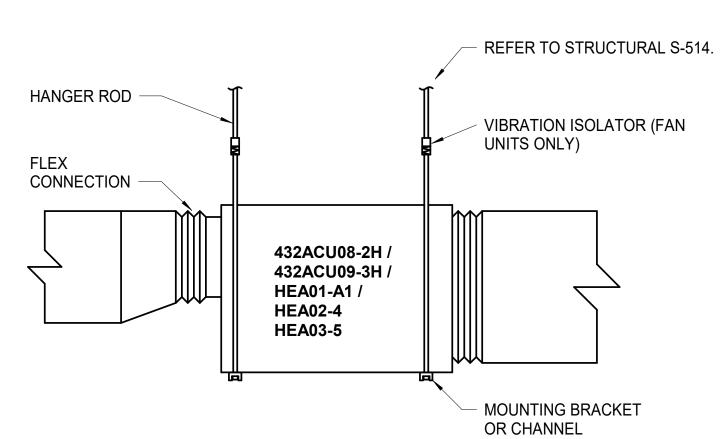
NOTES:

- 1. THERMOSTATS AND OTHER WALL-MOUNTED DEVICES MUST BE MOUNTED WITHIN 12" OF DOOR FRAME. WHERE DEVICES ARE SHOWN ADJACENT TO THE DOOR ON THE HINGE-SIDE OF THE DOOR, AND THE DOOR SWINGS IN A MANNER THAT MUST BLOCK THE DEVICE, MOUNT THE DEVICE 12" BEYOND THE DOOR SWING.
- 2. COORDINATE MOUNTING LOCATION WITH OTHER TRADES TO ENSURE A UNIFORM MOUNTING AND AESTHETICALLY-PLEASING APPEARANCE.
- 3. MOUNTING HEIGHT INDICATED IN LEGEND AND ON THE DRAWINGS MUST BE THE DISTANCE MEASURED FROM THE TOP OF THE DEVICE TO THE FINISHED FLOOR.



TYPICAL DEVICE MOUNTING

SCALE: NO SCALE SHOWN



NOTE:

- 1. INSTALL SEISMIC BRACING PER ASCE 7 AND PROJECT SPECIFICATION 23 05 48. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR SUPPORTS, ANCHORAGE, AND BRACING FOR APPROVAL AS A DELEGATED DESIGN SUBMITTAL.
- 2. REFER TO B4 / S-515 FOR ADDITIONAL REQUIREMENTS.



DUCT-MOUNTED INLINE HVAC COMPONENT

SCALE: NO SCALE SHOWN

Sheet Title

MECHANICAL DETAILS

Dwg. No. PLM2021-0432-0024D

Sht. No. M-502