

Millington Senior Village

Residential Buildings

172 Sassafras Street
Millington, MD 21651

PRESENT **POWER** COMPANY

PROJECT DIRECTORY

DEVELOPER
Home Partnership of Cecil County, Inc
626 TOWNE CENTER DRIVE, SUITE 102
JOPPA, MD 21085
TEL 410.679.3200

CIVIL ENGINEER
Atwell, LLC
4692 MILLENNIUM DRIVE, SUITE 305
BEL CAMP, MD 21017
TEL 302.369.2900

ARCHITECT
Present Company
2202 MARYLAND AVE
BALTIMORE, MD 21218
TEL 410.696.3321

STRUCTURAL ENGINEER
Skarda and Associates
2439 N CHARLES STREET
BALTIMORE, MD 21218
TEL 410.366.9394

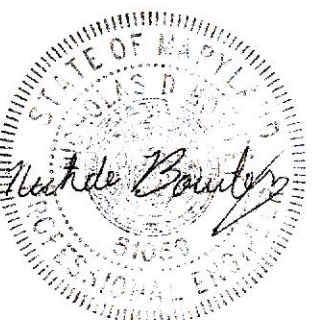
MEP ENGINEER
Bowley Jones
1107 BURKHARDT LANE
SEVERN, MARYLAND, 21144
TEL 410.777.9493

ENERGY CONSULTANT
Lorax Partnerships, LLC
808 ST. PAUL STREET
BALTIMORE, MD 21202
TEL 443.449.6319

GENERAL CONTRACTOR
Willow Construction
8849 COMMERCE DRIVE
EASTON, MD 21601
TEL 410.822.6000

© 2024 PRESENT COMPANY. ALL RIGHTS RESERVED

PROFESSIONAL CERTIFICATION



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 51059, Expiration Date: 06-01-2027.

REVISIONS

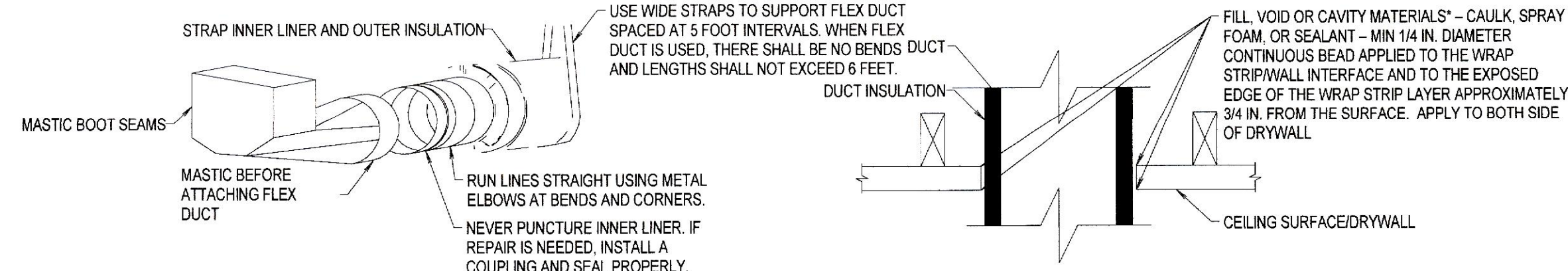
6/22/2026 8 Permit Set Revisions
DATE NO. ISSU
SUBMISSION

100% Construction Documents
PERMIT SET REISSUE
June 22, 2026

DRAWING NAME / NO. SCALE: 1/2" = 1'-0"

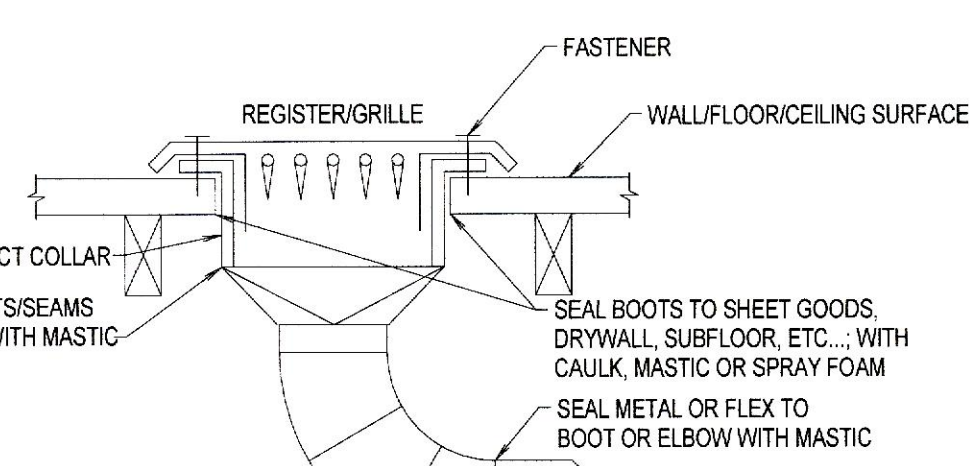
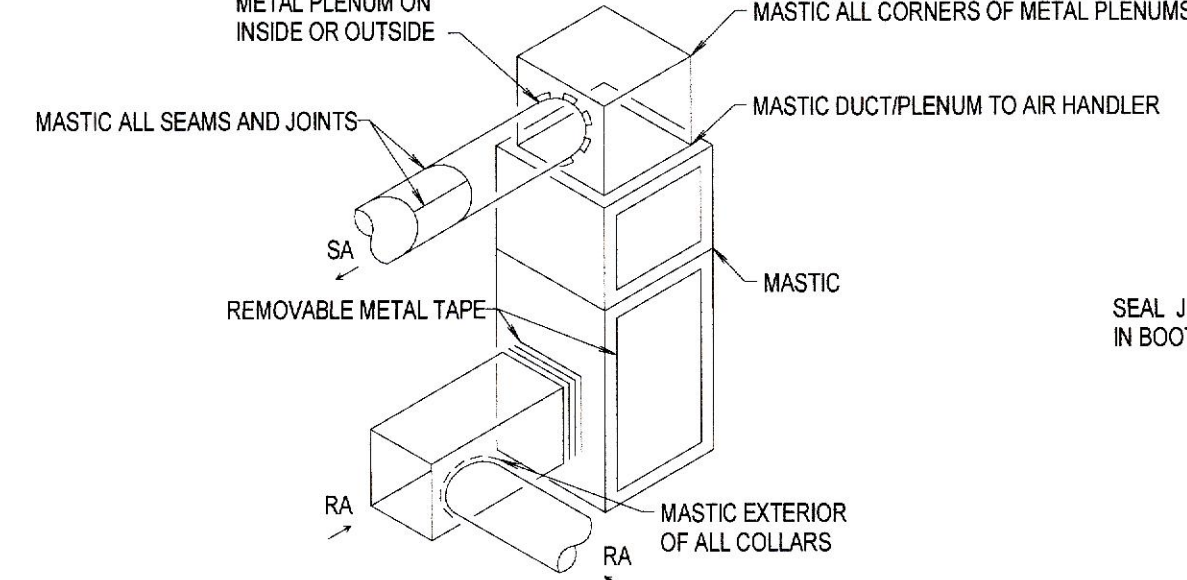
MECHANICAL DETAILS

M501



FLEX DUCT

DUCT PENETRATIONS



AIR HANDLER

BOOTS/REGISTERS

MECHANICAL SEALING DETAILS

SCALE: NONE

DETAIL APPLIES TO SPLIT SYSTEM AHUS AND INDOOR PACKAGED UNITS

SEALING NOTES:

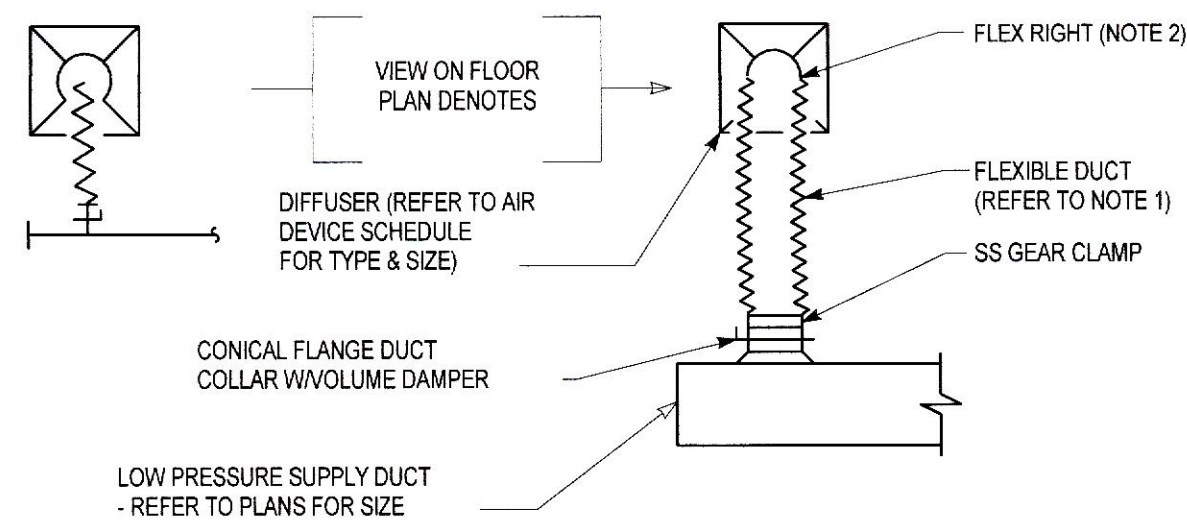
- SEAL ALL DUCTWORK IN ACCORDANCE WITH ENERGY STAR GUIDELINES TO ACHIEVE ENERGY STAR REQUIRED DUCT LEAKAGE MINIMUMS.
- USE A CLOTH TO WIPE DUST FROM SURFACES. DEGREASE SURFACES IF OILY.
- FOR GAPS LESS THAN 1/4", LOAD BRUSH WITH MASTIC AND COAT THE ENTIRE JOINT WITH A CONTINUOUS STRIP. USE THE END OF THE BRUSH TO WORK THE MASTIC INTO JOINT. SPREAD THE MASTIC AT LEAST ONE INCH ON EACH SIDE OF THE JOINT. THE MASTIC SHOULD BE THICK ENOUGH TO HIDE THE METAL SURFACE OF THE DUCT (ABOUT 1/16 INCH THICK). IF THE GAP IN THE DUCT CONNECTION IS LARGER THAN 1/4 INCH USE A FIBERGLASS REINFORCING MEMBRANE IN ADDITION TO THE MASTIC. IF THE MEMBRANE IS STICKY ON ONE SIDE, CUT ENOUGH MEMBRANE TO COVER THE JOINT. PRESS THE MEMBRANE IN PLACE, THEN COVER IT WITH MASTIC. APPLY ENOUGH MASTIC TO COMPLETELY COVER THE MEMBRANE. IF THE MEMBRANE DOES NOT HAVE A STICKY SIDE, FIRST APPLY A THIN LAYER OF MASTIC. PRESS THE MEMBRANE INTO THE MASTIC, THEN APPLY A FINISH LAYER OF MASTIC.
- WRAP DUCTS WITH INSULATION. WATER-BASED MASTICS GENERALLY DRY TO THE TOUCH IN 2 TO 4 HOURS. INSULATION MAY BE INSTALLED OVER WET MASTIC BUT TRY NOT TO MOVE THE DUCTS TOO MUCH, BECAUSE THE MASTIC SEAL COULD BE DAMAGED. ALL DUCT SUPPORT WORK SHOULD BE DONE BEFORE APPLYING MASTIC.

INSULATING NOTES:

- ALL SUPPLY DUCTWORK SHALL BE INSULATED WITH RADIANT BARRIER BUBBLE WRAP INSULATION WITH A VALUE OF R4.2 MINIMUM.
- ALL DUCTWORK IN UN-CONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM VALUE OF R8. OWINGS CORNING UTILICORE FIBERGLASS 2" THICK OR APPROVED EQUAL.
- REFRIGERANT PIPING - AP ARMAFLEX TUBES - 1" THICK FOR ALL SIZES.
- CONDENSATE DRAINS - OWINGS CORNING SSL II WITH ASJ MAX FIBERGLASS PIPE INSULATION - 1/2" THICK FOR SIZE UP TO 1".
- DOMESTIC WATER (HOT AND COLD) - OWINGS CORNING SSL II WITH ASJ MAX FIBERGLASS PIPE INSULATION - 1" THICK FOR SIZE UP TO 1".

MECHANICAL SEALING DETAILS

NOT TO SCALE

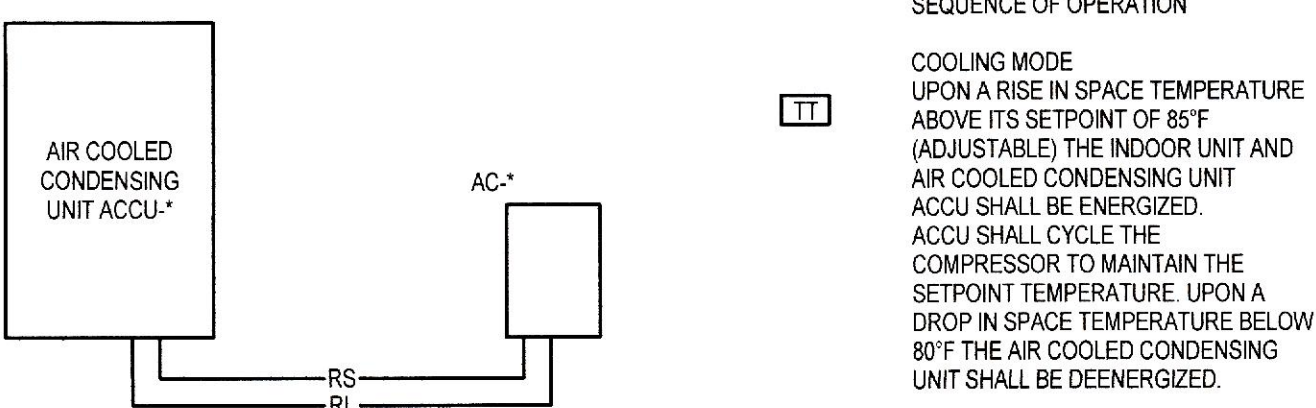


NOTES:

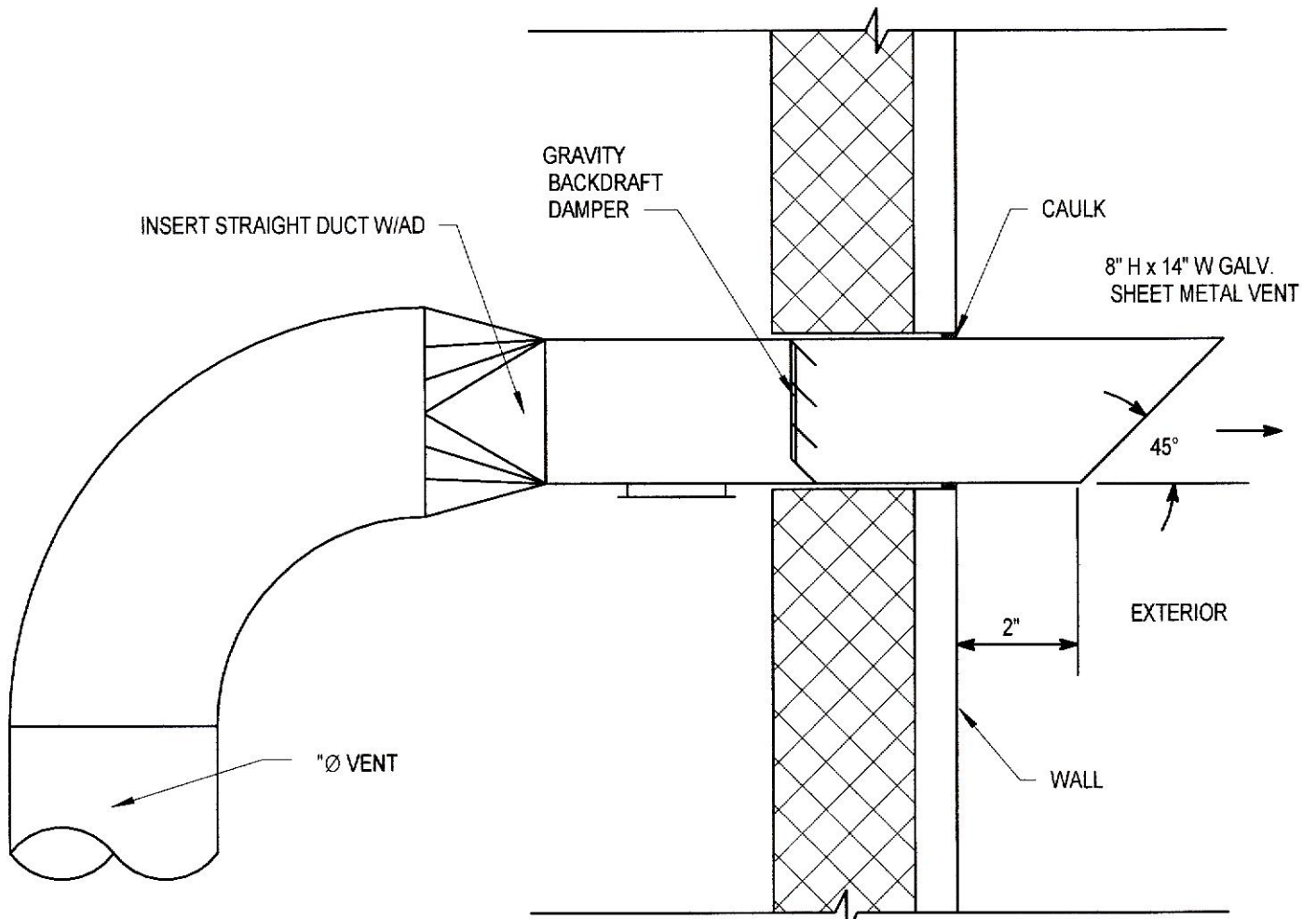
- ALL FLEXIBLE DUCT SHALL BE MAX. 4'-0" LENGTH, FREE OF SHARP BENDS & KINKS
- PROVIDE TITUS FLEXRIGHT FLEXIBLE 90 DEGREE BRACE/INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

DETAIL - TYPICAL SQUARE DIFFUSER

NOT TO SCALE



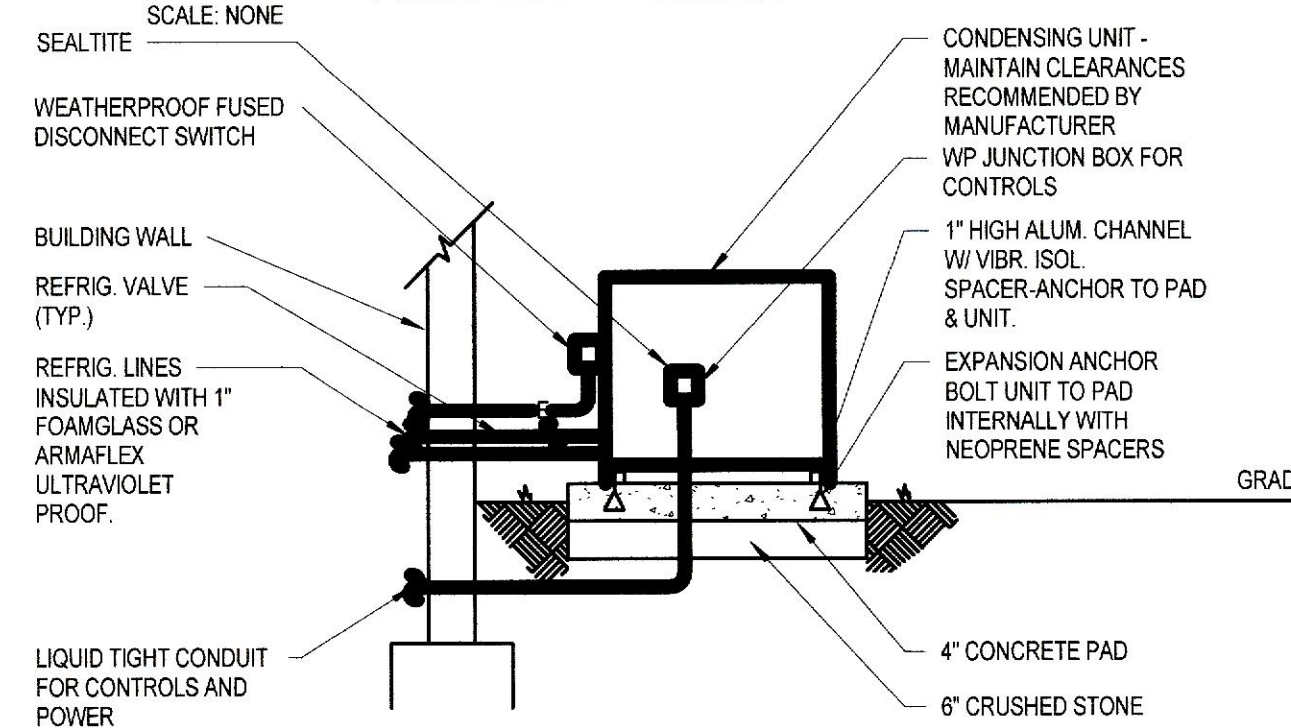
SPLIT SYSTEM AIR CONDITIONING UNIT



DETAIL - DRYER VENT

NOT TO SCALE

ALLOWED SUPPLY AIR FITTINGS ABOVE AIR HANDLER - RESIDENTIAL



GRADE MOUNTED CONDENSING UNIT/HEAT PUMP DETAIL

SCALE: NONE

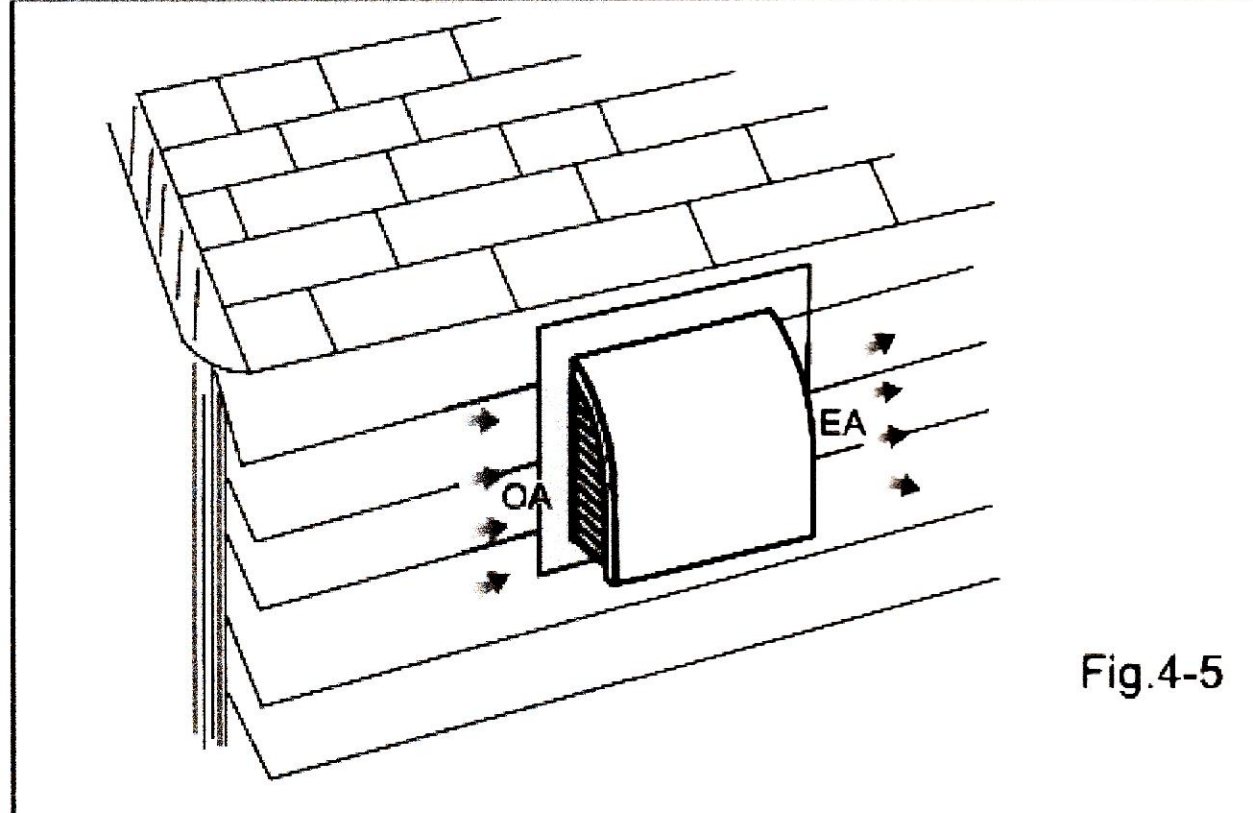
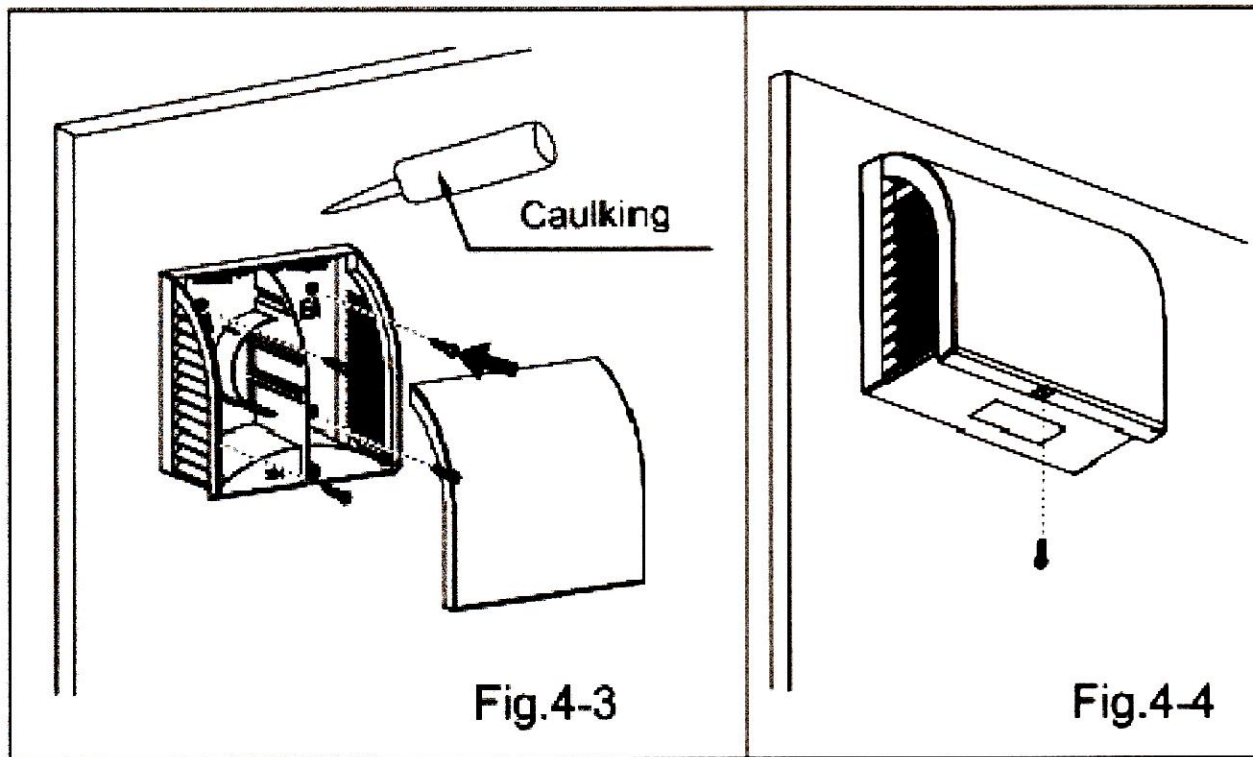
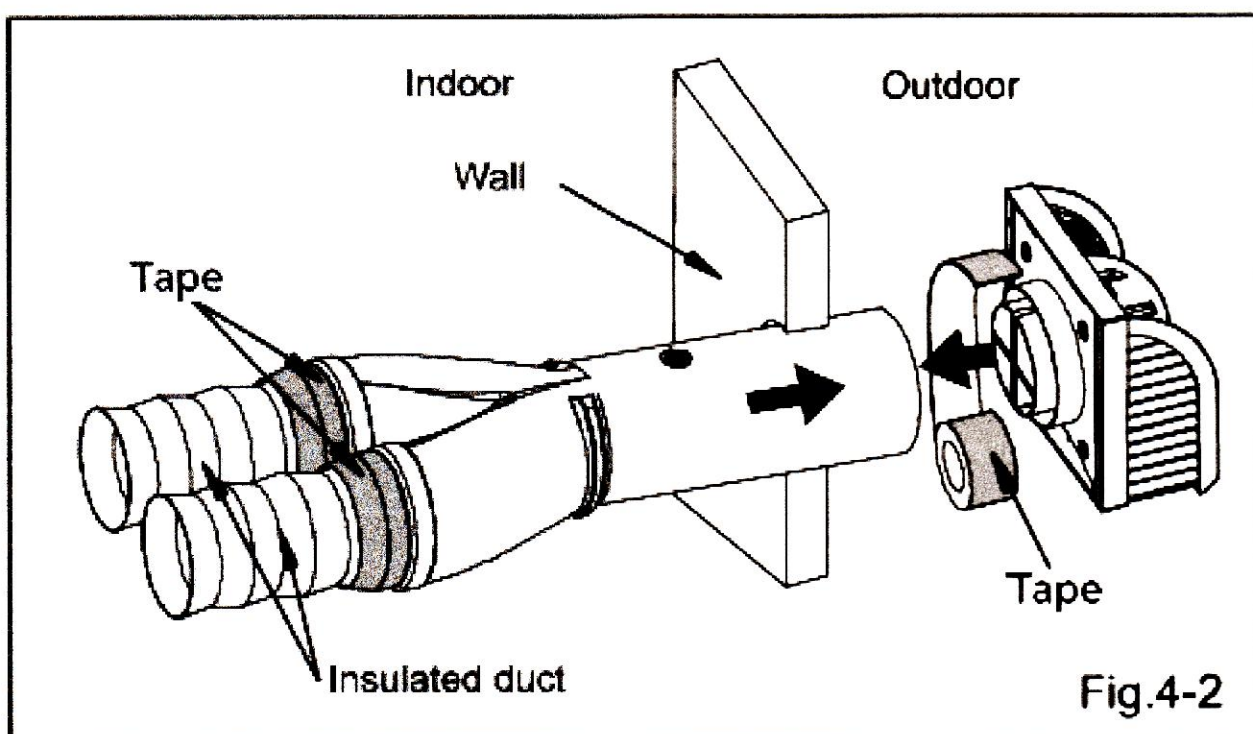
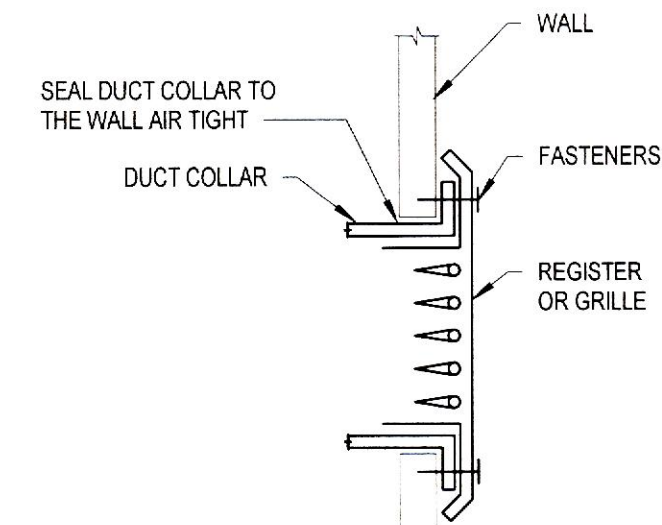
NOTE: UP TO 5 TONS.

INSTALLATION DETAIL - WALL MOUNTED GRILLE CONNECTION

NOTES:

- GRILLE FLANGES MUST COVER DUCT FLANGES

NOT TO SCALE



ERV DUCTWORK INSTALLATION DETAIL