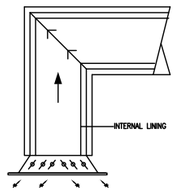
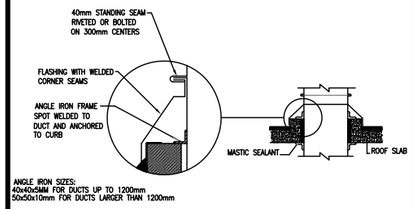
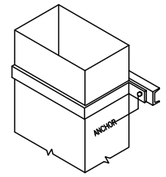


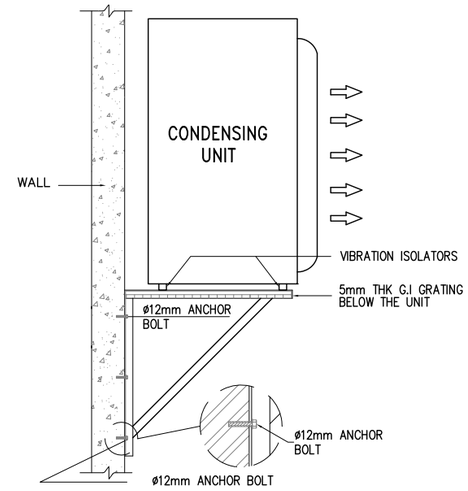
1 M (TYPICAL) RETURN AIR CEILLING
DIFFUSER, WALL GRILLE SCALE N.T.S



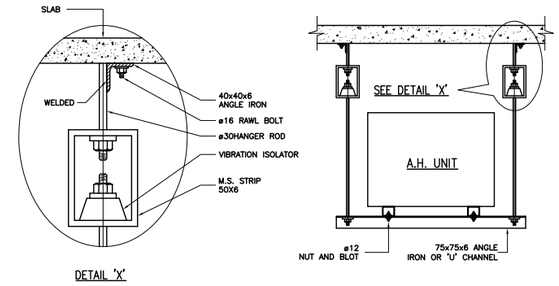
2 M DUCT THRU SLAB
SCALE N.T.S



3 M VERTICAL DUCTS
(SUPPORT DETAIL)SCALE N.T.S



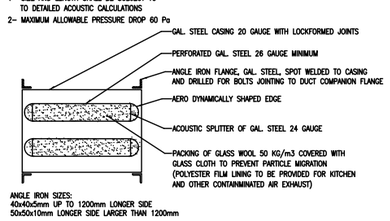
6 M TYPICAL INSTALLATION DETAIL OF CONDENSING UNITS
SCALE N.T.S



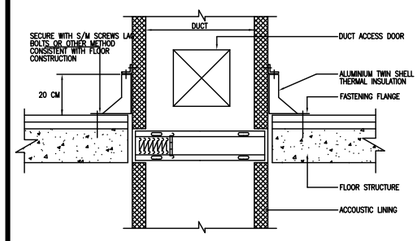
7 M AIR HANDLING UNITS HANGING DETAIL
SCALE N.T.S

Note:

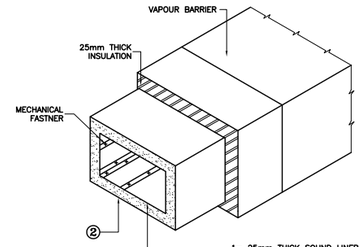
NOTES:
1- SIZE AND LENGTH SHALL BE SUBJECT TO TO DETAILED ACOUSTIC CALCULATIONS
2- MAXIMUM ALLOWABLE PRESSURE DROP 60 Pa



4 M SOUND ATTENUATOR
SCALE N.T.S

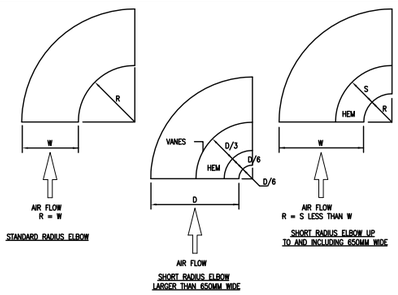


5 M DETAIL OF DUCT PENETRATION
THRU MECHANICAL FLOOR SCALE N.T.S

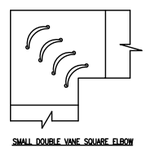


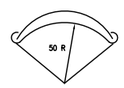
DETAIL OF SOUND LINER AND THERMAL INSULATION OF AIR DUCTS
8 M SCALE: N.T.S

1- 25mm THICK SOUND LINER INSIDE DUCT FOR DISTANCE OF 4500mm FROM THE FAN DISCHARGE OF AHUS/FCUS
2- WHERE SOUND LINER APPLIED DUCT SIZE INDICATED ON PLANS IS INSIDE FINISHED SIZE.

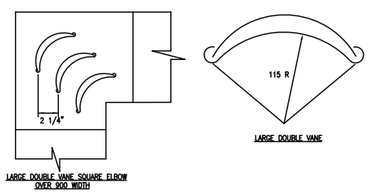


9 M ROUND ELBOW
SCALE N.T.S


SMALL DOUBLE VANE SQUARE ELBOW



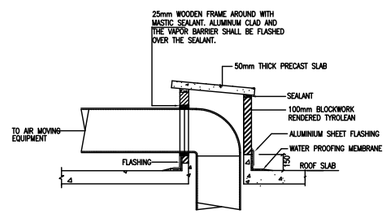
SMALL DOUBLE VANE



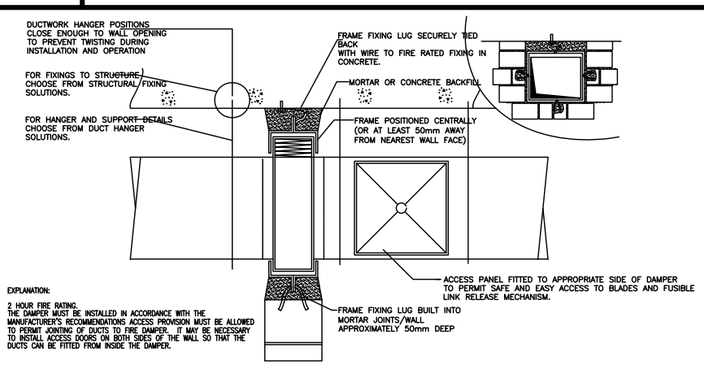
LARGE DOUBLE VANE SQUARE ELBOW OVER 900 WIDTH

LARGE DOUBLE VANE

11 M SQUARE ELBOW
SCALE N.T.S

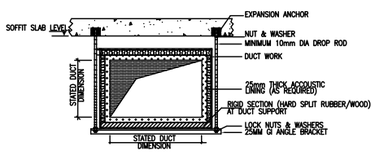


12 M DETAIL FOR DUCTS PASSING
THRU ROOF SLAB SCALE N.T.S

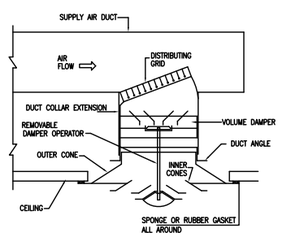


EXPLANATION:
2 HOUR FIRE RATING.
THE DAMPER MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ACCESS PROVISION MUST BE ALLOWED TO PERMIT JOINTING OF DUCTS TO FIRE DAMPER. IT MAY BE NECESSARY TO INSTALL ACCESS DOORS ON BOTH SIDES OF THE WALL SO THAT THE DUCTS CAN BE FITTED FROM INSIDE THE DAMPER.

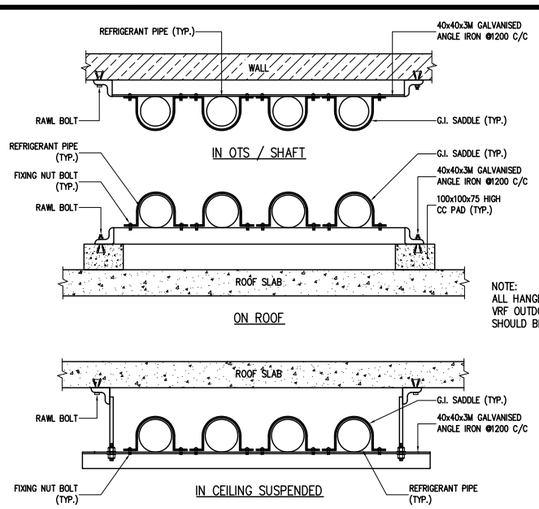
13 M TYPICAL FIRE/SMOKE DAMPER IN BRICK/BLOCK WALL
SCALE N.T.S



10 M DUCT WORK SUPPORT DETAIL
SCALE N.T.S

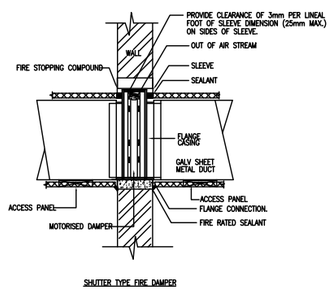


15 M CEILING DIFFUSER
SCALE N.T.S

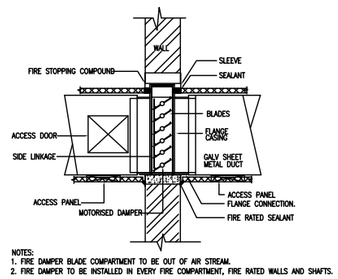


NOTE:
ALL HANGERS AND SUPPORTS FOR VRF OUTDOOR UNITS PIPING IN TERRACES SHOULD BE CORROSION RESISTANCE.

17 M REFRIGENT PIPES DETAIL
SCALE N.T.S



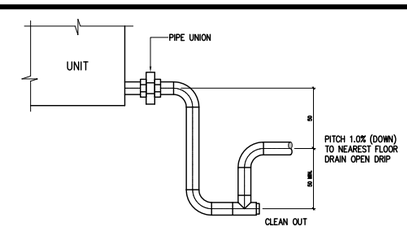
SHUTTER TYPE FIRE DAMPER



NOTES:
1. FIRE DAMPER BLADE COMPARTMENT TO BE OUT OF AIR STREAM.
2. FIRE DAMPER TO BE INSTALLED IN EVERY FIRE COMPARTMENT, FIRE RATED WALLS AND SHAFTS.

MULTI BLADE FIRE DAMPER

14 M TYPICAL FIRE DAMPER INSTALLATION DETAIL
SCALE N.T.S



16 M SPLIT UNIT CONDENSATE DRAIN TRAP
SCALE: N.T.S.

DATE	DESCRIPTION	MARK

PROJJECT
BAIT-UL-SUKOON KARACHI

CLIENT
MR. JAMEEL YOUSUF

MEP CONSULTANT
SMC CONSULTING ENGINEERS
S. MEHBOOB & COMPANY
Suite # 4, 4th Floor, Dean Arcade, Clifton Block 8, Karachi - 75600 Pakistan
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TITLE
HVAC STANDARD DETAILS

STATUS
TENDER DRAWINGS

SCALE	DATE	DRAWING NO.
NTS	APR. 2021	M02.01
DRAWN MOHSIN	CHECKED HARIS	
DESIGNED HARIS	APPROVED FAM	
JOB NO.	ISSUED DATE	REV.NO. 0