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CONSTRUCTION.

MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes

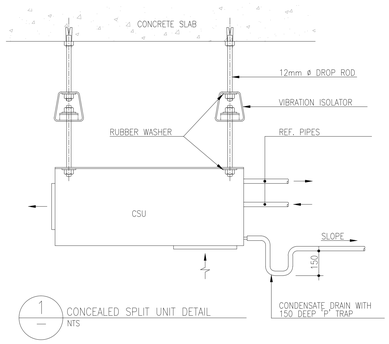
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3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED.

ARCHITECTURE REFERENCE DRAWING

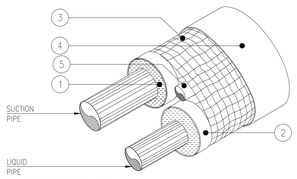
SL	DRAWING NO.	FROM	DATE	REV

STRUCTURAL REFERENCE DRAWING

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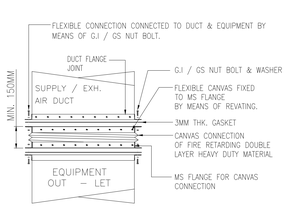


1 — CONCEALED SPLIT UNIT DETAIL
NTS



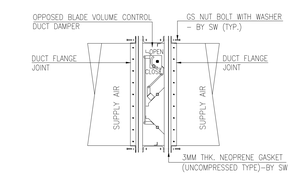
A. EXPOSED TO VIEW
1. CLOSED CELL TUBE INSULATION 19mm THICKNESS
2. ADHESIVE
3. 4 OZ CORA CLOTH BONDED ON TO INSULATION WITH 2 LAYERS
4. 24 GAUGE ALUMINUM CLADDING (ONLY FOR EXPOSED TO ATMOSPHERE PIPING)
5. FLEXIBLE CABLE

2 — INSULATION OF REFRIGERANT PIPES
NTS



NOTE:-
1) FLEXIBLE CONNECTION TO BE INSTALLED AT , WHEREVER SHEET METAL DUCTING CONNECTED TO INLET & OUT LET OF THE FAN UNIT, AHU.

3 — GENERAL FIXING DETAILS FLEXIBLE CONNECTION
NTS

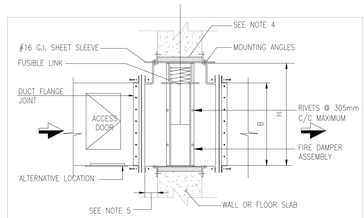


NOTE:-
1) MATERIAL FOR THE VOLUME CONTROL DAMPER IS GSS. AND THE THICKNESS OF FRAME AND BLADE WILL BE 18G. G.I SHEET. ZINC COATING OF THE G.I. SHEET OF VCD WILL BE AS PER THE SPECIFICATIONS.

2) FLANGE OF THE VCD FRAME WILL BE AS PER THE SPECIFICATIONS.

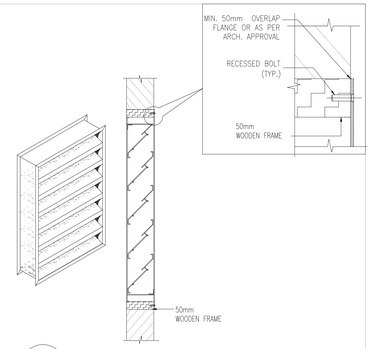
3) PAINTING OF THE VCD WILL BE AS PER THE SPECIFICATIONS.

4 — TYPICAL DETAIL FOR VOLUME CONTROL DUCT DAMPER
NTS

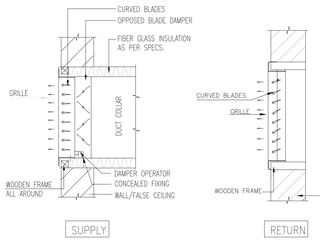


NOTES:
1. SEAL ALL OPENINGS WITH APPROVED FIRE SAFE MATERIALS.
2. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS.
3. ALL FIRE DAMPERS SHALL BE COMPLETE WITH ACCESS DOORS.
4. PROVIDE CLEARANCE OF 50mm PER LINEAR METER OF SLEEVE DIMENSION ONTO SIDE OF SLEEVE. CLEARANCE TO BE PACKED WITH FIRE SEALANT AS PER SPECIALIST DETAIL

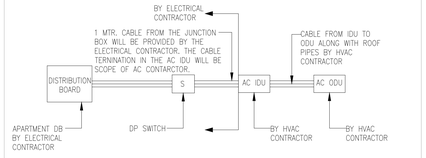
5 — DUCTWORK ACCESS DOOR DETAILS
NTS



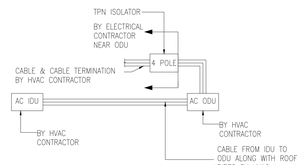
6 — TYPICAL LOUVER INSTALLATION
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7 — TYPICAL GRILLE FIXING DETAIL
NTS



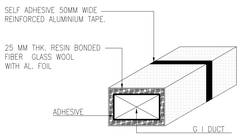
8 — SINGLE PHASE AC (IDU & ODU) SCHEMATIC REPRESENTATION AND SCOPE OF WORK/BATTERY LIMIT
NTS



9 — AC (IDU & ODU) SCHEMATIC REPRESENTATION AND SCOPE OF WORK/BATTERY LIMIT FOR ENTRANCE LOBBY
NTS

APPLICATION :- TO AVOID THE HEAT TRANSFER (ONLY FOR DUCTS IN CONDITIONED SPACE)

MATERIAL :- /SPECIFICATION
1) 25mm RESIN BONDED FIBER GLASS WOOL WITH ALUMINIUM FOIL
2) NYLON STRIP
3) SELF ADHESIVE 50 MM WIDE ALUMINUM TAPE
4) INSULATION ADHESIVE–BITUMEN OF GRADE 85/25 OR 85/40 AS PER IS 702/CPRX COMPOUND

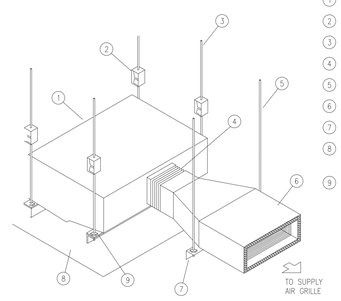


PROCEDURE :-
A) CLEAN THE OUTER SURFACE WITH THE WIRE BRUSH & MAKE IT FREE FROM THE RUST.
B) CUT THE FIBER GLASS WOOL AS PER THE DUCT FACE AREA.
C) APPLY THE ONE COAT ADHESIVE ON DUCT.
D) STICK THE CUT OUT OF FIBER GLASS WOOL ON DUCT SURFACE.
E) APPLIED SELF ADHESIVE TAPE AT JOINT OF THE TWO INSULATION SHEET.
F) ENSURE THAT ALL THE DUCT JOINTS(FLANGES) & ANGLE MUST BE INSULATED PROPERLY.

10 — DETAILED OF DUCT THERMAL INSULATION FOR A/C DUCTING
NTS

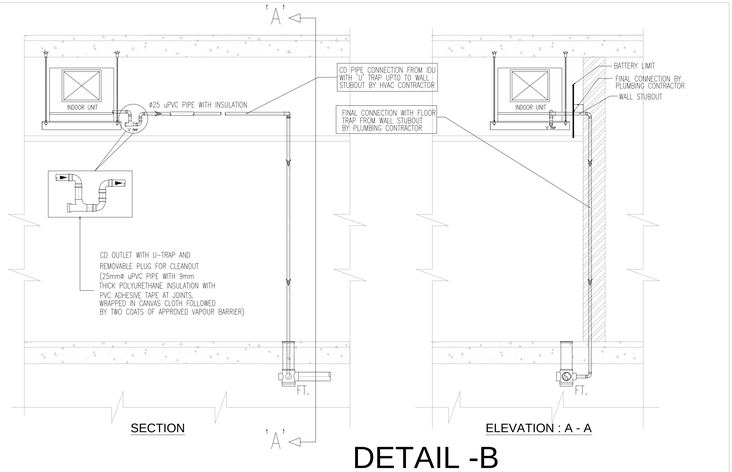
RECTANGULAR DUCT G.S.	EXTERNAL PRESSURE 250 Pa DUCT SELECTION LENGTH 1.2 METER (4 FEET)		
MAX. DUCT SIZE	GAUGE	JOINT TYPE	BRACING SPACE
1–750mm	26	C & SS	NIL
750–1000mm	26	TRANSVERSE DUCT CONNECTOR –E (TDC) WITH BUILT IN SEALENT	NIL
1001–1200mm	24	4 BOLTS (TDC)–E	NIL
1201–1500mm	24	4 BOLTS (TDC)–H	NIL
1501–1800mm	22	8 BOLTS (TDC)–H	600mm FROM JOINT
1801–2100mm	20	8 BOLTS (TDC)–J	600mm FROM JOINT
2101–2700mm	18	8 BOLTS (TDC)–J	600mm FROM JOINT

SR NO.	TYPE OF DUCT / PIPE	AREA	INSULATION MATERIAL PROPERTIES		PROTECTIVE JACKET
			THICKNESS IN MM	DENSITY (KG/M³)	
1	SUPPLY & RETURN AIR AC DUCT	RUNNING IN AC AREA	19	24	NOT REQUIRE
2	SUPPLY & RETURN AIR AC DUCT	RUNNING IN NON AC AREAS SUCH AS ENCLOSED IN RISERS / SHAFTS	50	48	NOT REQUIRE
SR NO.	TYPE OF DUCT / PIPE	AREA	INSULATION MATERIAL PROPERTIES		PROTECTIVE JACKET
			THICKNESS IN MM	DENSITY (KG/M³)	
3	SUPPLY & RETURN AIR AC DUCT	RUNNING IN PLANT ROOM / PODIUM (EXPOSED–DUCTING AREAS	50	48	REQUIRE, 26 G ALUMINUM CLADDING



1. FAN COIL UNIT
2. VIBRATION ISOLATORS
3. HANGER ROD MOUNTED TO STRUCTURE (10mm DIA.)
4. FLEXIBLE CONNECTION
5. DUCT HANGER MOUNTED TO STRUCTURE
6. SUPPLY AIR DUCT WITH 25 (1")THK. INSULATION
7. ANGLE BARS
8. ACCESS PANEL SIZES SHALL BE 600x600mm (AS PER LODHA POLICY)
9. ANTI–VIBRATION PAD (10mm MINIMUM THICKNESS)

11 — DETAIL OF DUCTABLE UNIT FIXING
NTS



SECTION ELEVATION : A - A

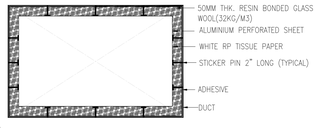
DETAIL -B

CD PIPING MORE THAN 10m FROM IDU

12 — DETAIL OF CONDESATE DRAIN PIPE
NTS

APPLICATION :- TO REDUCE THE NOISE LEVEL

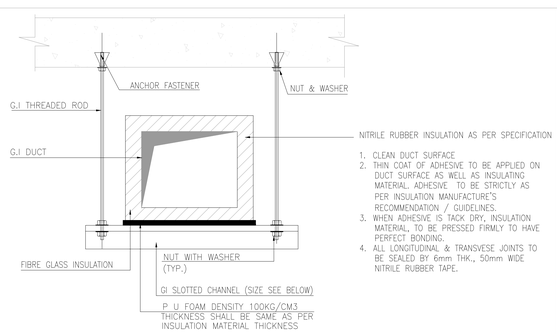
MATERIAL :- /SPECIFICATION
1) 50mm RESIN BONDED FIBER GLASS WOOL OF DENSITY 32 kg/m³
2) 26 GAUGE 0.5mm PERFORATED ALUMINIUM SHEET HAVING 3 PERFORATION & WHITE RP TISSUE PAPER.
3) G.I / G.S. NUT & BOLTS & WASHER
4) INSULATION ADHESIVE–BITUMEN OF GRADE 85/25 OR 85/40



PROCEDURE :–
a) THE DUCT SURFACE SHALL FIRST CLEANED FROM INSIDE.
b) THE INSULATION SHALL BE FIXED TO THE SHEET METAL DUCTING WITH ADHESIVE.
c) THE INSULATION SHALL BE THEN COVERED WITH 26 GAUGE 0.5mm PERFORATED ALUMINIUM SHEET.
d) THE SHEET AND THE INSULATION SHALL BE SECURED TO THE DUCT BY MEANS OF G.I. OR G.S. NUT BOLTS AND WASHERS.
f) THE ENDS SHOULD BE COMPLETELY SEALED OFF,SO THAT NO INSULATION WILL NOT COME OUT.

NOTE :– a) ACOUSTIC INSULATION WILL APPLICABLE ONLY FOR TO SA PLENUM & 3 TO 5 METER INITIAL SA DUCTING FROM PLENUM OR FORM MACHINE.
b) THE DUCT SIZE MENTIONED IN DRAWING ARE CLEAR SIZES AS REQUIRED.

13 — DETAILED OF DUCT ACOUSTIC INSULATION FOR A/C DUCTING
NTS



NOMINAL DUCT SIZE MM	UP TO 400	401 TO 1000	1001 TO 2000	2001 & ABOVE
MAXIMUM SUPPORT SPACING	2400 MM	2400 MM	2400 MM	2400 MM
THREADED ROD SIZE	8 MM	10 MM	12 MM	12 MM
SLOTED 'C' CHANNEL SIZE	28 X 14 X 9 1mm THICK	28 X 14 X 9 1.2mm THICK	29 X 14 X 10 1.6mm THICK	30 X 14 X 10 2mm THICK

DETAILS MENTIONED ABOVE ARE AS PER SMACNA

14 — RECTANGULAR DUCT HANGER DETAILS
NTS

Key Plan



01	ISSUED FOR CONSTRUCTION	DEC 2015	PS	TA
00	VALID FOR CONSTRUCTION	NOV 2015	PS	TA
Rev	Description	Date	Drn	Chkd

IFC

Status of drawing

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Architect ARCHITECT 'RAPEES' CONTRACTOR
Project LODHA KOLSHET,THANE
Drg Title SALES GALLERY
HVAC - STANDARD DETAILS

Scales@A0	NTS	Job No.	033629
Drawn by	TA	Drawing No.	BH-ZSG-STD-M-2001
Checked by	TA	Rev	01
Date	DEC 2015		