

SUPPLY AIR					RETURN/EXHAUST AIR				
NECK SIZE	MAX CFM 450 FPM	ROUND NECK	MAX CFM 450 FPM		NECK SIZE	MAX CFM 450 FPM	ROUND NECK	MAX CFM 450 FPM	
6X6	100 CFM	6	85 CFM		8X8	200 CFM	8	150 CFM	
9X9	250 CFM	9	200 CFM		10X10	300 CFM	10	225 CFM	
12X12	450 CFM	12	350 CFM		12X12	450 CFM	12	350 CFM	
15X15	700 CFM	15	550 CFM		14X14	600 CFM	14	475 CFM	
18X18	1000 CFM	18	800 CFM		16X16	800 CFM	16	625 CFM	
21X21	1375 CFM	21	1050 CFM		18X18	1000 CFM	18	800 CFM	
24X24	1800 CFM	24	1400 CFM		24X24	1800 CFM	24	1400 CFM	

NOTES:

1. THIS IS FOR STANDARD APPLICATIONS ONLY
2. SPECIAL AREAS OR SOUND SENSITIVE AREA SPECIAL ADVISEMENT WILL BE REQUIRED.

7

MAXIMUM AIR FLOW FOR ROUND NECK DIFFUSERS COMPARED TO RECTANGULAR

NTS

NOTES:

1. MAXIMUM SAG 1/2" PER FOOT.

8

CEILING DIFFUSER W/FLEX CONNECTION AND DIFFUSER BOOT

NTS

NOTE: MINIMUM GAUGE 26

NECK = A X B
C = B + 2" (MIN.)
D = A + 2" (MIN.)
E = F + 2" (MIN.)
F = 6" (MIN.)
F = ROUND CONNECT SIZE OR DEPTH OF AN EQUIVALENT OVAL HAVING THE SAME CIRCUMFERENCE AS THE ROUND.

9

DIFFUSER CONNECTION BOOT

NTS

NOTES:

1. WHEREVER POSSIBLE, DAMPER BLADE SHALL BE INSTALLED IN VERTICAL POSITION.
2. FOR DUCTS OVER 22", USE OPPOSED BLADE VOLUME DAMPER.
3. ALL QUADRANT OPERATORS SHALL BE EXTENDED TO OUTSIDE OF INSULATION.

4

ROUND VOLUME DAMPER

NTS

NOTES:

1. NO POP RIVETS ALLOWED, USE SELF-TAPPING SHEETMETAL SCREWS ONLY.

1

DUCT HANGER

NTS

NOTES:

1. MAXIMUM SAG 1/2" PER FOOT.

5

INSULATED DUCT ROOF PENETRATION

NTS

NOTES:

1. MAXIMUM SAG 1/2" PER FOOT.

2

ROUND DUCT HANGERS

NTS

NOTES:

1. MAXIMUM SAG 1/2" PER FOOT.

6

FUME HOOD EXHAUST AIR VALVE

NTS

NOTES:

1. FOR RECTANGULAR DUCTS OVER 12" HIGH USE HIGH PRESSURE OBD.
2. ALL BRANCH DUCTS (SUPPLY, RETURN & EXHAUST) SHALL HAVE VOLUME DAMPERS, INCLUDING RUNOUTS TO DIFFUSERS.
3. ALL QUADRANT OPERATORS SHALL BE EXTENDED TO OUTSIDE OF INSULATION.

3

VOLUME DAMPER (FOR DUCT UNDER 12" IN HEIGHT NOT EXCEEDING 2" PRESSURE CLASS)

NTS

PROJECT NO:

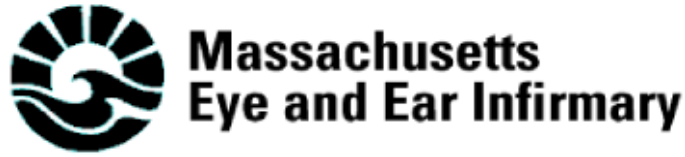
ig Associates
ARCHITECTS PLANNERS INTERIOR DESIGN

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CONSULTANTS

PROJECT:
OTOLARYNGOLOGY LAB
FOURTH FLOOR-MEEI
243 CHARLES ST, BOSTON-MA

OWNER:



DRAWING TITLE
HVAC
DETAILS

PROGRESS SET ONLY

NO	DATE	DESCRIPTION
REVISIONS		
DRAWN : MMR		
DATE : September 26, 2012		
JOB NO :		
SCALE : NTS		

H3.02

DRAWING NO.
SHEET ___ OF TOTAL ___ SHEETS