

VENTILATION SCHEDULE - WST SIMULATOR 132

FLOOR ID	FACILITY MAP		OCCUPIABLE ROOM SQUARE FOOTAGE	PER IMC						DESIGN PRIMARY ZONE CFM
	ROOM #	UNIT ID #		PEOPLE	OA CFM				TOTAL	
					TOTAL	# / PERSON	CFM / SQ. FT.	BREATHING ZONE CFM		
1ST	132 - WST SIMULATOR		3590	1	5	0.06	220	1	220	230
	TOTAL		3591						220	230

DUCT INSULATION THICKNESS SCHEDULE

DUCTWORK	INSULATION TYPE			JACKET
	GLASS FIBER WRAP	CLOSED CELL WRAP	FIBERGLASS DUCTBOARD	
INDOORS: SUPPLY, RETURN, OUTSIDE AIR DUCTWORK & PLENUMS IN UNCONDITIONED SPACES (R-6 INSTALLED)	2.2"	1.5" TYPE FS	1.5"	-
OUTDOORS: SUPPLY, RETURN, OUTSIDE AIR DUCTWORK & PLENUMS (R-8 INSTALLED)	3"	2" TYPE FS	2"	ALUMAGUARD

PIPE INSULATION THICKNESS SCHEDULE

FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY (BTU-IN/(H-FT ² -F))	MEAN RATING TEMP. (F)	< 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	≥ 8
HEATING SYSTEMS (STEAM<15 PSIG)							
> 350	0.32 - 0.34	250	4.5	5	5	5	5
251 - 350	0.29 - 0.32	200	3	4	4.5	4.5	4.5
HEATING SYSTEMS (STEAM<15 PSIG)							
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3	3
HEATING SYSTEMS (HOT WATER, STEAM CONDENSATE)							
141 - 200	0.25 - 0.29	125	1.5	1.5	2	2	2
105 - 140	0.21 - 0.28	100	1	1	1.5	1.5	1.5
COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AIR CONDITIONING CONDENSATE)							
40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1
< 40	0.20 - 0.26	50	0.5	1	1	1	1.5
105 - 140	0.21 - 0.28	100	1	1	1.5	1.5	1.5
141 - 200	0.25 - 0.29	125	1.5	1.5	2	2	2
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3	3

- REFRIGERANT LIQUID PIPING TEMPERATURE RANGE: 60°F - 105°F. PROVIDE MINIMUM 0.75 THICK INSULATION ON REFRIGERANT LIQUID PIPING ALL SIZES.
- REFRIGERANT DEDICATED SUCTION PIPING TEMPERATURE RANGE: 40°F - 60°F.
- REFRIGERANT HOT GAS PIPING NORMAL OPERATING TEMPERATURE: 141°F - 200°F. PROVIDE HIGH TEMPERATURE RATED ELASTOMERIC INSULATION RATED UP TO 248°F PER MANUFACTURER REQUIREMENTS.

DUCTWORK CONSTRUCTION AND LEAKAGE TESTING SCHEDULE

SYSTEM	DUCT PRESSURE CLASS				SUPPLY				RETURN/ OUTSIDE AIR		DUCT TEST PRESSURE: INCHES OF WATER COLUMN	REMARKS
	INCHES OF WATER COLUMN				ROUND/OVAL		RECTANGULAR		DUCT SEAL CLASS	DUCT LEAK CLASS		
	SUPPLY DUCT	RETURN DUCT	EXHAUST DUCT	OUTSIDE AIR DUCT	DUCT SEAL CLASS	DUCT LEAK CLASS	DUCT SEAL CLASS	DUCT LEAK CLASS				
AIR HANDLING UNIT	2	-	-	-	A	6	A	12	-	-	2.0	1
DEDICATED OUTSIDE AIR HANDLING SYSTEM	2	-	-	-	A	6	A	12	-	-	2.0	1
VRF DUCTED TERMINAL UNIT	1	-	-	-	-	A	24	-	-	-	1.0	1
EXHAUST DUCT	-	-1	-1	-	-	-	A	24	-	-	1.0	1

- TEST IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE AND TEST MANUAL.

VENTILATION SCHEDULE

FLOOR ID	FACILITY MAP		OCCUPIABLE ROOM SQUARE FOOTAGE	PER IMC						DESIGN PRIMARY ZONE CFM	EXHAUST AIR CFM				
	ROOM #	UNIT ID #		PEOPLE	OA CFM				TOTAL		# / FIXTURE	FIXTURE QTY	CFM / SQ. FT.	REQUIRED EXHAUST CFM	DESIGN EXHAUST CFM
					TOTAL	# / PERSON	CFM/SQ. FT.	BREATHING ZONE CFM							
1ST	101 - VEST		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	102 - CORRIDOR		877	-	-	0.06	52.6	1	52.6	100	-	-	-	60	
1ST	103 - VEST		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	104 - CORRIDOR		320	-	-	0.06	19.2	1	19.2	50	-	-	-	120	
1ST	105 - FTU		493	4	5	0.06	49.6	1	49.6	100	-	-	-	350	
1ST	106 - OFFICE		111	1	5	0.06	11.7	1	11.7	50	-	-	-	70	
1ST	107 - OFFICE		111	1	5	0.06	11.7	1	11.7	50	-	-	-	-	
1ST	108 - OFFICE		94	1	5	0.06	10.5	1	10.6	50	-	-	-	-	
1ST	109 - OFFICE		113	1	5	0.06	11.8	1	16.8	50	-	-	-	-	
1ST	110 - OFFICE		163	2	5	0.06	19.8	1	19.8	50	-	-	-	-	
1ST	111 - OFFICE		112	1	5	0.06	12.3	1	11.7	50	-	-	-	-	
1ST	112 - CLASSROOM		255	6	10	0.12	90.6	1	90.6	120	-	-	-	100	
1ST	113 - CI		287	4	5	0.06	35.6	1	37.2	50	-	-	-	-	
1ST	114 - LMPTT		107	1	5	0.06	13.0	1	11.4	50	-	-	-	-	
1ST	115 - MEN		147	-	-	-	-	-	-	-	2	50	-	100	
1ST	116 - JAN		31	-	-	-	-	-	-	-	-	1	30	50	
1ST	117 - WOMEN		145	-	-	-	-	-	-	-	2	50	-	100	
1ST	118 - OFFICE		142	1	5	0.06	13.5	1	13.5	50	-	-	-	-	
1ST	119 - COR		93	1	5	0.06	10.6	1	10.6	50	-	-	-	70	
1ST	120 - BREAK		156	4	5	0.06	29.4	1	29.4	50	-	-	-	-	
1ST	121 - ADMIN BRIEF		113	5	5	0.06	31.8	1	31.8	50	-	-	-	-	
1ST	122A - MECHANICAL		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	122B - ELECTRICAL		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	123 - COMM		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	124 - SECURE COMM		-	-	-	-	-	-	-	-	-	-	-	-	
1ST	126 - AMBNT		106	1	5	0.06	11.4	1	11.4	50	-	-	-	-	
1ST	127 - VTRAT		106	1	5	0.06	11.3	1	6.4	50	-	-	-	-	
1ST	128 - WST SPARES		380	1	5	0.06	27.9	1	22.8	50	-	-	-	-	
1ST	129 - WST MAINT		288	1	5	0.06	22.4	1	17.3	50	-	-	-	-	
1ST	130 - OFFICE		138	1	5	0.06	13.3	1	13.3	50	-	-	-	-	
1ST	131 - MX TERM		106	1	5	0.06	11	1	11.4	50	-	-	-	-	
	TOTAL		5,000						512	1270			230	1030	

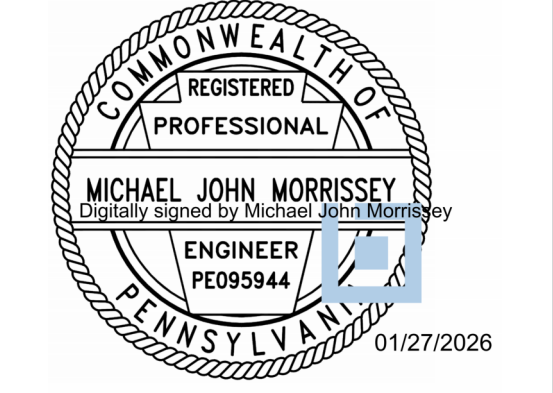
- NOTES:
1. PROVIDE MINIMUM 50 CFM PER DIFFUSER PER UFC 3-410-01.

VENTILATION SCHEDULE

FLOOR ID	FACILITY MAP		OCCUPIABLE ROOM SQUARE FOOTAGE	PER IMC						DESIGN PRIMARY ZONE CFM	EXHAUST AIR CFM				
	ROOM #	UNIT ID #		PEOPLE	OA CFM				TOTAL		# / FIXTURE	FIXTURE QTY	CFM / SQ. FT.	REQUIRED EXHAUST CFM	DESIGN EXHAUST CFM
					TOTAL	# / PERSON	CFM/SQ. FT.	BREATHING ZONE CFM							
2ND	201 - CORRIDOR		1064	-	-	0.06	66.8	1	66.8	100	-	-	-	-	
2ND	202A - CLASSROOM 1		778	12	10	0.12	209.5	1	209.5	275	-	-	-	245	
2ND	202B - CLASSROOM 2		621	12	10	0.12	195.4	1	195.4	260	-	-	-	225	
2ND	202C - CLASSROOM 3		545	12	10	0.12	185.3	1	185.3	245	-	-	-	225	
2ND	202D - CLASSROOM 4		659	12	10	0.12	199	1	199	260	-	-	-	225	
2ND	203 - RESTROOM		42	-	-	-	-	-	-	-	50	1	-	50	
2ND	204 - RESTROOM		42	-	-	-	-	-	-	-	50	1	-	50	
2ND	205 - WOMEN		145	-	-	-	-	-	-	-	50	2	-	100	
2ND	206 - JAN		31	-	-	-	-	-	-	-	-	-	1	30	
2ND	207 - MEN		148	-	-	-	-	-	-	-	-	-	1	30	
2ND	208 - TRAINING BREAK AREA		117	5	5	0.06	32	1	32	50	-	-	-	-	
2ND	209 - MECHANICAL		-	-	-	-	-	-	-	-	-	-	-	-	
2ND	210 - SECURE COMM		-	-	-	-	-	-	-	-	-	-	-	-	
2ND	211 - ABMN		221	2	5	0.06	23.3	1	23.3	50	-	-	-	-	
2ND	212 - OFFICES		450	6	5	0.06	57	1	57	75	-	-	-	-	
2ND	213 - CLIENT SYSTEM LAB		275	6	5	0.06	46.5	1	46.5	65	-	-	-	-	
2ND	214 - WST RIOS		108	1	5	0.06	11	1	11	50	-	-	-	-	
	TOTAL		5,289						1025.8	1430			330	1270	

- NOTES:
1. PROVIDE MINIMUM 50 CFM PER DIFFUSER PER UFC 3-410-01.

BUILDING TOTAL 2,700 **BUILDING TOTAL 2,300**



PENNSYLVANIA AIR NATIONAL GUARD
 HARRISBURG ANGB, MIDDLETOWN, PA
SOF CONSTRUCT SIMULATOR FACILITY MC-130J

NO.	DATE	DESCRIPTION
2	06/10/26	BID PHASE REVISIONS

BID DOCUMENTS

PROJECT NUMBER:
SHYQ149104

DESIGNED: SRG MODELED: APT CHECKED: MJM

DATE:
JANUARY 2026

DRAWING TITLE:
MECHANICAL SCHEDULES 3

DRAWING NO.:
M603

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