

CLASSROOM GENERAL INFORMATION SHEET

DISTRICT _____ SITE _____

DATE _____ TIME _____ AM
PM CLASSROOM _____

TESTING AGENT NAME _____

PHONE _____ EMAIL _____

1. Room plan shape: Rectangular
 Non-Rectangular

2. Ceiling plane orientation: Flat
 Inclined
 Combination

3. Room length _____ (ft)

4. Room width _____ (ft)

5. Ceiling height (average) _____ (ft)

6. Estimate the percent coverage of the ceiling finishes:
_____ % Acoustical panels
_____ % Painted gypsum board
_____ % Gypsum board
_____ % Exposed structure
_____ % Other

7. Estimate the percent coverage of the flooring finishes:
_____ % Carpet
_____ % Resilient flooring
_____ % Other

8. Estimate the percent coverage of any acoustical wall treatments:
_____ % Fabric covered panel
_____ % Cork board
_____ % Other

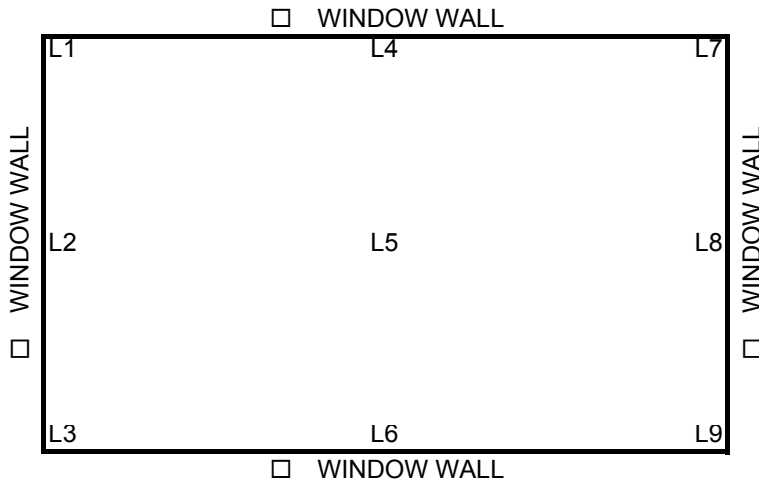
CLASSROOM LIGHTING DATA SHEET

DISTRICT _____ SITE _____
 DATE _____ TIME _____ AM PM CLASSROOM _____
 TESTING AGENT NAME _____
 PHONE _____ EMAIL _____

RECORDED ILLUMINATION LEVEL DATA				
MEASUREMENT LOCATION	TIME OF DAY			
	EARLY AM	LATE AM	EARLY PM	LATE PM
L1: ROOM SIDE				
L2: ROOM SIDE				
L3: ROOM SIDE				
L4: ROOM SIDE				
L5: ROOM SIDE				
L6: ROOM CENTER				
L7: ROOM CENTER				
L8: ROOM CENTER				
L9: ROOM CENTER				

NOTE: SEE FIELD MEASUREMENTS SECTION FOR MEASUREMENT INSTRUCTIONS. PLEASE CHECK THE APPROPRIATE BOX ON THE DIAGRAM BELOW TO INDICATE THE LOCATION OF WINDOW WALLS

FRONT OF ROOM (INSTRUCTIONAL WALL)

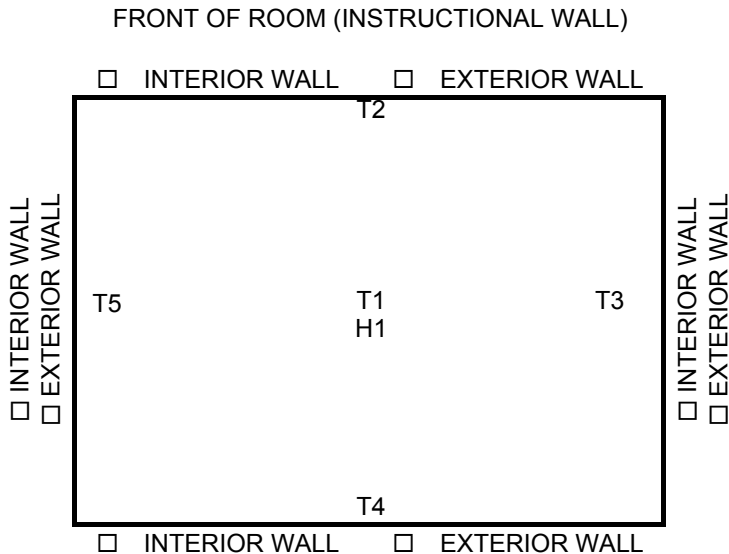


CLASSROOM THERMAL DATA SHEET

DISTRICT _____ SITE _____
 DATE _____ CLASSROOM _____
 TESTING AGENT NAME _____
 PHONE _____ EMAIL _____

OCCUPIED RECORDED TEMPERATURE AND HUMIDITY DATA				
MEASUREMENT LOCATION	TIME OF DAY			
	EARLY AM	LATE AM	EARLY PM	LATE PM
H1: HUMIDITY				
T1: TEMPERATURE MIDDLE OF ROOM				
T2: TEMPERATURE FRONT OF ROOM				
T3: TEMPERATURE ROOM SIDE				
T4: TEMPERATURE REAR OF ROOM				
T5: TEMPERATURE ROOM SIDE				

NOTE: COMPLETE EARLY AM MEASUREMENTS BEFORE 10AM, EITHER LATE AM MEASUREMENTS BEFORE NOON OR EARLY PM MEASUREMENTS BEFORE 2PM, AND LATE PM MEASUREMENTS AFTER 2:30PM. PLEASE NOTE ON THE DIAGRAM BELOW THE LOCATION OF INTERIOR AND EXTERIOR WALLS.



HVAC INFORMATION

What is the occupied heating setpoint? _____

What is the unoccupied heating setpoint? _____

What is the occupied cooling setpoint? _____

What is the unoccupied cooling setpoint? _____

What is the principal HVAC type?

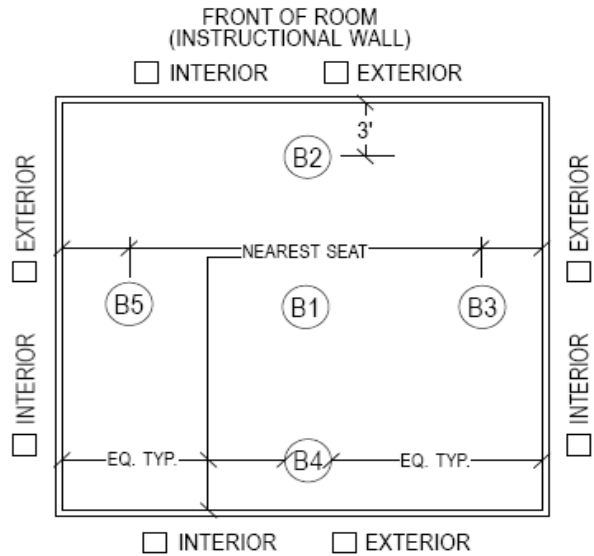
<input type="checkbox"/> Single Zone	<input type="checkbox"/> Fan Coil Units
<input type="checkbox"/> Multi Zone	<input type="checkbox"/> Unit Ventilators
<input type="checkbox"/> Dual Duct	<input type="checkbox"/> Packaged AC
<input type="checkbox"/> VAV	<input type="checkbox"/> Steam/Hot Water/Convactor
<input type="checkbox"/> Reheat	<input type="checkbox"/> Economizer
<input type="checkbox"/> Central AHU with VAV	<input type="checkbox"/> Natural Ventilation

CLASSROOM BACKGROUND NOISE DATA SHEET

DISTRICT _____ SITE _____
 DATE _____ TIME _____ AM PM CLASSROOM _____
 TESTING AGENT NAME _____
 PHONE _____ EMAIL _____

BACKGROUND NOISE MEASUREMENT DATA		
MEASUREMENT LOCATION	MEASURED A-WEIGHTED LEVEL (dBA)	
	HVAC on	HVAC off
B1: MIDDLE OF ROOM (REQUIRED)		
B2: FRONT OF ROOM (OPTIONAL*)		
B3: ROOM SIDE (OPTIONAL*)		
B4: REAR OR ROOM (OPTIONAL*)		
B5: ROOM SIDE (OPTIONAL*)		

*REQUIRED IF NEAREST TO HVAC RETURN INLET



MEASUREMENT PROCEDURE CHECKLIST

- VERIFY HVAC SYSTEM IS ON/OFF
- CLOSE DOORS AND WINDOWS
- VERIFY THAT UNUSUAL BACKGROUND NOISE IS NOT PRESENT (E.G. VACUUMS, FLOOR POLISHERS, ETC.)
- VERIFY SOUND LEVEL METER CALIBRATION
- OBSERVE AND RECORD AVERAGE SOUND LEVEL AT REQUIRED LOCATION B1
- OBSERVE AND RECORD AVERAGE SOUND LEVEL AT LOCATION NEAREST TO THE RETURN INLET
- OBSERVE AND RECORD AVERAGE SOUND LEVELS AT REMAINING OPTIONAL MEASUREMENT LOCATIONS
- NOTE LOCATION OF RETURN AIR INLET ON ROOM DIAGRAM ABOVE
- RECORD ANY NOTES REGARDING BACKGROUND NOISE SOURCES AND/OR MEASUREMENT CONDITIONS:

CLASSROOM REVERBERATION DATA SHEET

DISTRICT _____ SITE _____
 DATE _____ TIME _____ AM PM CLASSROOM _____
 TESTING AGENT NAME _____
 PHONE _____ EMAIL _____

REVERBERATION MEASUREMENT DATA			
OCTAVE BAND CENTER FREQUENCY (HZ)	REVERBERATION TIME (RT60) MEASUREMENTS	REVERBERATION TIME RT60 (SECONDS)	
		MEASUREMENT LOCATION	
		R1**	R2
500	MEASUREMENT 1 (REQUIRED)*		
500	MEASUREMENT 2 (OPTIONAL)		
500	MEASUREMENT 3 (OPTIONAL)		
1000	MEASUREMENT 1 (REQUIRED)*		
1000	MEASUREMENT 2 (OPTIONAL)		
1000	MEASUREMENT 3 (OPTIONAL)		
2000	MEASUREMENT 1 (REQUIRED)*		
2000	MEASUREMENT 2 (OPTIONAL)		
2000	MEASUREMENT 3 (OPTIONAL)		
SIGNAL-TO-NOISE MEASUREMENTS		SOUND LEVEL (dBA)	
SOURCE SOUND LEVEL			
BACKGROUND NOISE LEVEL			

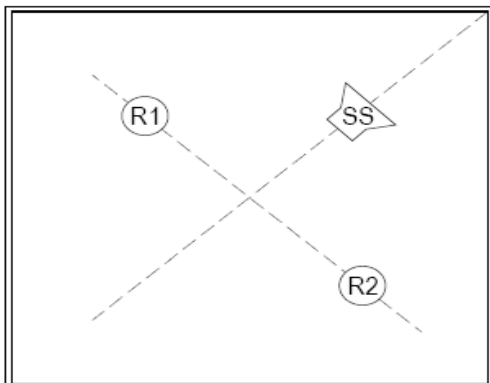
MEASUREMENT PROCEDURE CHECKLIST

- VERIFY HVAC SYSTEM IS OFF
- CLOSE DOORS AND WINDOWS
- VERIFY THAT UNUSUAL BACKGROUND NOISE IS NOT PRESENT (E.G. VACUUMS, FLOOR POLISHERS, ETC.)
- MEASURE A-WEIGHTED BACKGROUND NOISE LEVEL AT MEASUREMENT LOCATIONS R1 AND R2 (SOUND SOURCE OFF)
- VERIFY SOUND SOURCE "SS" OPERATION AND MEASURE A-WEIGHTED SOUND LEVEL; ADJUST LEVEL TO AT LEAST 40 dB GREATER THAN MEASURED BACKGROUND NOISE LEVEL
- OBSERVE AND RECORD REVERBERATION TIMES AT MEASUREMENT LOCATIONS R1 AND R2 (MUTE SOUND SOURCE AS REQUIRED)
- RECORD ANY NOTES REGARDING MEASUREMENT CONDITIONS:

* OR INSTRUMENT GENERATED AVERAGE OF AT LEAST THREE MEASUREMENTS

CHECK IF INSTRUMENT AVERAGE AT EACH POSITION

** OR INSTRUMENT GENERATED AVERAGE OF MINIMUM SIX MEASUREMENTS (THREE AT EACH POSITION)



CLASSROOM SOUND INSULATION DATA SHEET

DISTRICT _____ SITE _____

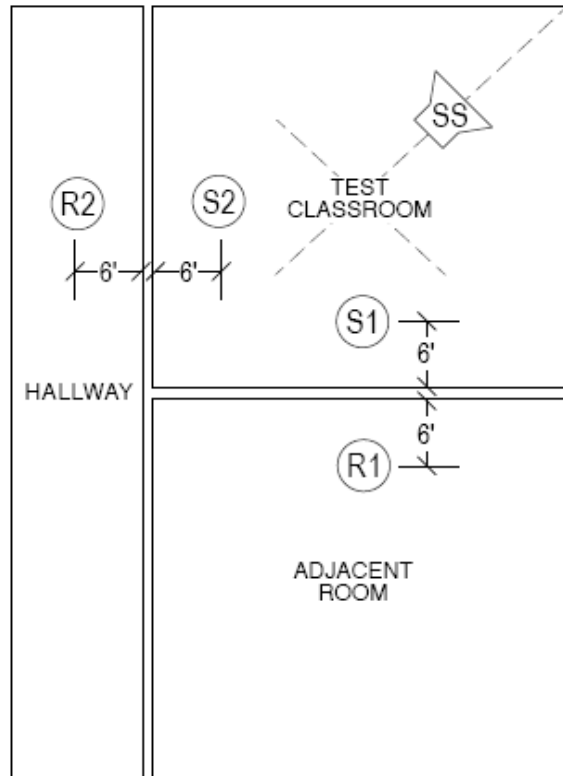
DATE _____ TIME _____ AM PM CLASSROOM _____

TESTING AGENT NAME _____

PHONE _____

EMAIL _____

SOUND INSULATION MEASUREMENT DATA		
MEASURED VALUE OR CALCULATED DIFFERENCE	NEIGHBORING ROOM SOUND PATH (S1, R1)	HALLWAY SOUND PATH (S2, R2)
SOURCE MEASURED LEVEL (dBA)	=S1	=S2
RECEIVED MEASURED LEVEL (dBA)	=R1	=R2
A-WEIGHTED SOUND REDUCTION (dB)	=S1 - R1	=S2 - R2
BACKGROUND NOISE AT R1 AND R2 (dBA, NOISE SOURCE OFF)		



MEASUREMENT PROCEDURE CHECKLIST

- VERIFY HVAC SYSTEM IS OFF
- CLOSE DOORS AND WINDOWS
- VERIFY THAT UNUSUAL BACKGROUND NOISE IS NOT PRESENT (E.G. VACUUMS, FLOOR POLISHERS, ETC.)
- VERIFY SOUND LEVEL METER CALIBRATION
- ACTIVATE NOISE SOURCE
- OBSERVE AND RECORD AVERAGE SOUND LEVEL AT SOURCE LOCATIONS S1 AND S2
- OBSERVE AND RECORD AVERAGE SOUND LEVEL AT RECEIVE LOCATIONS R1 AND R2
- MUTE NOISE SOURCE
- OBSERVE AND RECORD AVERAGE BACKGROUND NOISE LEVEL AT RECEIVE LOCATIONS R1 AND R2
- RECORD ANY NOTES REGARDING BACKGROUND NOISE SOURCES AND/OR MEASUREMENT CONDITIONS:



**OPERATIONS
REPORT
CARD**

CLASSROOM SETUP INFORMATION SHEET

DISTRICT _____ SITE _____

DATE _____ TIME _____ AM
PM CLASSROOM _____

TESTING AGENT NAME _____

PHONE _____ EMAIL _____

1. Describe HVAC system:

- Fan coil
- Heat pump / packaged unit
- Central system
- Displacement
- Other

2. Describe HVAC fan location:

- In adjacent space
- Above ceiling
- On roof
- Through-wall in room
- Corner closet
- Exposed in room
- Remote (central HVAC)

3. Describe location of compressor or chiller:

- Packaged in-fan unit
- In adjacent space
- In ceiling
- On roof
- Remote (central HVAC)

4. Is supply ductwork:

- Exposed
- Concealed

5. Is the fan return:

- Ducted
- Unducted

6. Which of the following are components of the typical wall connected to another classroom:

- Gypsum Board
- 4-inch studs
- 6-inch studs
- Insulation

7. Which of the following are components of the typical wall connecting to a corridor:

- Gypsum Board
- 4-inch studs
- 6-inch studs
- Insulation

8. Describe any seals on the doorframe head and jambs:

- Smoke seal
- Stop-applied compression seal

9. Describe any seals on the corridor door bottom:

- Sweep seal
- Automatic door-bottom

10. Is this classroom separated from adjacent classrooms by an operable partition?

- Yes
- No

11. If there is a partition, has a clear area been maintained along its face on both sides? (ie: no desks, shelves, etc)

- Yes
- No

12. If there is a partition, are there posters, art charts, etc., posted across panel joints?

- Yes
- No

CLASSROOM IAQ DATA SHEET

DISTRICT _____ SITE _____

DATE _____ TIME _____ AM PM CLASSROOM _____

TESTING AGENT NAME _____

PHONE _____ EMAIL _____

Number of occupants during measurements: _____ Do doors and/or windows open to outside air? Y / N

MERV rating of air filters that supply room: _____ Number of filter changes per year: _____

Which mode is the classroom currently in? (circle one) Heating Cooling Natural Ventilation

Which of the following were indicated on the Occupant Survey for this classroom?

- Overall, unsatisfactory smell
- Specific Odors (a:trash b:cleaners c:exhaust d:tobacco e:printers f:carpet g:body odor h:perfumes i:art items j:outdoor smells k:other)
- Overall, unsatisfactory ventilation (too stuffy)
- Items not provided by District (a:air freshener b:candles c:pesticides d:fabrics e:other)
- Animals (a:small b:medium c:large d:aquariums e:other)
- Overall, high degree of clutter
- Moisture (a:windows b:pipes c:ceiling d:walls e:flooding)
- Mold Observed (a:papers b:sinks c:flooring d:ceilings e:interior walls f:exterior walls g:windows)
- Mold Size (a:<10ft² b:10-100ft² c:>100ft²)
- Overall, unsatisfactory indoor air quality

OUTDOOR MEASUREMENTS			
TEMPERATURE (°F)	RELATIVE HUMIDITY (%)	CARBON MONOXIDE (ppm)	CARBON DIOXIDE (ppm)
START OF DAY			
END OF DAY			

INDOOR MEASUREMENTS							
TEMPERATURE (°F)		RELATIVE HUMIDITY (%)		CARBON MONOXIDE (ppm)		CARBON DIOXIDE (ppm)	
Return	Supply	Return	Supply	Return	Supply	Return	Supply

Other observations about the conditions in the classroom: _____
