H C Fennell Consulting, LLC

Identifying solutions for better building performance

TEST REPORT FORM

GENERAL PROJECT DATA

Date, time	8/25/21
Building Owner's Name	Fraunhofer
Address:	Boston
Date of construction	
Environmental conditions	RH 66.4
Inside temperature	69 F
Outside temperature	N/A
Wind conditions / speed	N/A
Positive or negative pressure	Negative
Tested by:	Team

TEST/BUILDING INFORMATION

Type(s) of testing performed	
Surf. Area Above Grade (Sq. Ft.)	
Surf. Area Below Grade (Sq. Ft.)	
House Volume (cubic ft.)-incl floor	
# of Stories, Bedrooms, Occupants	
Wind Shielding Class (Heavy, Shielded,	
Moderate, Lightly *or* Exposed):	
Heating Source (Oil, Gas, Wood, etc.)	
Comments:	
(Conditions of vents,	
flues, and doors during tests,	
major leakage sites,	
recommendations, etc.)	

Note: These tests <u>are</u>, or <u>are not</u> cumulative (maskings were not or were removed after each test).

TEST DATA

Test number	1	2	3	4	5	6	7
Depress. / Press. (D or P)	Depr.	Depr.	Depr.	Depr.	Depr.	Depr.	Depr.
Baseline house pressure (fan off)	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Fan Model/Ring configuration (3/0)	TEC Duct Blaster						
House pressure (pascals)	~-50	~-50	~-50	~-50	~-50	~-50	~-50
***Fan pressure (pascals)**							
Flow (CFM)							
CFM50	54.0	30.0	18.0	17.0	17/16	16.4	15.2
ACH50							
MPLS Leakage Ratio							
Equivalent Leakage area (sq. in.)							
Effective Leakage Area (sq. in.)							

TEST DESCRIPTION/NOTES

		8
1	**Original box - normal house simulation**	Depr.
2	**Add WRB - no tape**	8.3
3	**Add tape to WRB**	
4	**Roll the tape on the WRB**	~-50
5	**Add the bottom trim**	
6	**Add just the Panel-Blocks - no tape or trim**	
7	**Add tape at the perimeters**	15.0
8	**Add the vinyl trim at the perimeters**	

*If fan pressures drop below 25 pascals install the next lower flow fan ring

Calculate the CFM4 from the house leakage curve, multiply by .2939