

Retrotec Enclosure Test Form Version 2001-2 Test date:/200__

Building: Contact: Phone:

Room name:

<h2>Pretest Checklist ...ö...</h2> <p>Complete prior to scheduling the test. Refer to guide for further information on issues raised below.</p> <p>Date of Pre-Inspection: By:</p>	
Step ▼	
1	Is there a suspended ceiling ? Bring a flex-duct and second blower or plastic for covering the ceiling leaks so that the Lower leak can be measured. Ceiling Area: If the walls go slab-to-slab and have been very well sealed or the room is very large, the flex-duct and/or plastic may not be needed.
1a	Are all suspended ceiling tiles in place ?
2	Dampers installed on all external HVAC ducts..... Can they be shut for the door fan test?
3	Dampers installed on fresh air inlet ducts..... Can they be shut for the door fan test?
4	All apparent leaks must be sealed and hardware items installed?
5	Doorway sizes? Height, width
6	5 minute HVAC shut down can be arranged? With who:
7	Maximum number of door-fan blowers needed?
8	Small room problem

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Notes: (e.g. Non-standard equipment needed for test such as extra blowers or tape and poly)



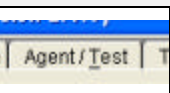
Deficiencies still to be fixed:

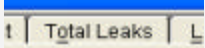
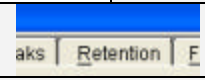
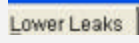
Doors, door hardware, door weather-stripping/sweeps/door bottoms, glass, dampers, floor/wall joint, room wall & floor penetrations, open conduit ends, floor drain traps primed, above ceiling leaks, roof/wall leaks, other:

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Technician: **Witnessing Authority:**

Step ↓		Test type and units is input into the Home tab. NFPA metric, NFPA Imperial, ISO metric	
9		Elevation (within 600 ft or 200 m): Input into the Building/Room tab on CA2001	..... ft. m.
10	Sketch plan view showing dimensions below and calculate floor area, heights and volume. Sketch side view of heights. Show doors open, closed and mark where Door Fan will be mounted.		
10a	Net protected room volume	= Floor Area.....X Maximum protected height = ft³/ m³	
10b	Room operating temperature		..... F..., C...
11	Maximum protected height	= Above Ceiling (0 if not protected)+ Room + Sub-floor= ft/m	
12	Minimum agent retention time (e.g. 10 minutes)		minutes
13	Take a break.		
14		Agent Actual quantity determined from tags, weighing or	lb / kg. ft ³

15	Set up room for Door-Fan test		
	a.Remove temporary airsealing or note who has assured the permanent seal b.Close all doors in the protected enclosure boundary c.Open all doors within the enclosure d.Open doors in adjacent rooms and around the outside of the enclosure e.Shut down the air-conditioning if possible. f.Close all dampers that would normally be closed during the retention time		..... ..... ..... ON..... OFF.....
16	Set up door fan , ensuring the door panel system is no tighter than the closed door.		.....
17	Leak check. Blow air in to get +15 Pa room pressure & use smoke to locate leaks in:	Dampers, lower slab...., sub-floor, stub-wall...., walls.... & ceiling	
18	Whole room leakage 	Test \ddot{O} ., Enter untested values, # of Blowers Needed, Sub-floor only....	
19	Operator	In the room, Out of the room	
20	Smoke with door fan OFF.	moves out of the room, moves into the room, doesn't move	
21	Static pressure during <u>Total</u> Leak test. Measure across each perimeter door that showed smoke movement. Use the hand-held gauge. Record the maximum pressure:		..... Pa
22	Temperature during test	Inside Outside F... C....	
23	Test	Test both directions ... \ddot{O} , Depressurize, Pressurize	
24	Run CA2001 Enter data from this form. The Total Leaks tab will display "Range of room pressures:" (usually 10 to 13 Pa). Achieve this pressure. Check each perimeter door with the handheld gauge. Each pressure must be within 25%. Record all door fan data below.		..... .....
24 a			
25	Flow Away from operator Range Test # ... 1 .	Room pressure	
		Flow pressure	
26	Flow Towards operator Range	Room pressure	
		Flow pressure	
27	Mixing? Enter data		Mixing during the retention, No mixing during retention, Extended discharge ...
28	Walk the perimeter to ensure nothing has changed.		.....
29	Set up HVAC, dampers and doorway openings to retention time conditions .	Yes....., No, can't be done....., Same as for Total Leak test	
30	"Smoke" with door fan OFF.	moves out of the room, moves into the room, doesn't move	
31	Determine the " Static pressure during retention " according to how the room would be set up during the retention period.		..... Pa
32	"Minimum protected height" from lower slab to protected equipment.		.....ft/m
	OR " Minimum concentration " to prevent re-ignition at the end of the retention period?	%
	OR " Enter discharge rate " for extended discharge.		..... lb/min. ....kg/min.
33	If the room fails , go to the Lower Leak tab. If it passes , the test is complete.		
34	Below Ceiling Leakage 	a.Flex-duct test, b.Plastic-on-Ceiling test...., c.Estimated, d.Leak audit... e. Floor neutralization test, f.Plastic on Floor test	
35	"Smoke" with door fan OFF.	moves out of the room, moves into the room, doesn't move	
36	"Static pressure" during <u>Lower</u> Leak test. Measure across each perimeter door that showed smoke movement. Record the maximum pressure:		..... Pa
37	Flow Away from operator Range Test # ... 1	Room pressure	
		Flow pressure	
38	Flow Towards operator Range	Room pressure	
		Flow pressure	

