



# Enclosure Test Form

Building: \_\_\_\_\_ Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Room name: \_\_\_\_\_

← Step	<h2 style="margin: 0;">Pretest Checklist <span style="float: right;">__√__</span></h2> <p style="margin: 0;">Complete prior to scheduling the test.</p> <p style="margin: 0;">Date of Pre-Inspection: _____ By: _____</p>
1	<p>Is there a <b>suspended ceiling</b>? ____ Bring a Flex Duct and second fan ____ or plastic for covering the ceiling leaks ____ so that the BCLA (Lower leak) can be measured. Ceiling Area: ____.</p> <p>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.</p> <p>Are all suspended <b>ceiling tiles in place</b>? ____</p>
2	<b>Dampers</b> installed on all external HVAC ducts __ Can they be shut for the Door Fan test? ____
3	<b>Dampers</b> installed on fresh air inlet ducts __ Can they be shut for the Door Fan test? ____
4	All apparent <b>leaks must be sealed</b> and hardware items installed? ____
5	<b>Doorway sizes?</b> Height ____, Width ____
6	5 minute <b>HVAC shut down</b> can be arranged? ____ With who: _____
7	<b>Maximum number of test fans</b> needed? ____
8	<b>Small room problem?</b> ____

**Notes:** (e.g. Non-standard equipment needed for test such as extra fans 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:

Test Date: \_\_\_\_\_ 20\_\_

Technician: \_\_\_\_\_ Witnessing Authority: \_\_\_\_\_

<b>Step</b> ←	<b>Test type and units</b> NFPA2001 metric ____ NFPA2001 Imperial ____ ISO14520 metric ____ ISO 14520 Imperial ____	
<b>9</b>	<b>Elevation</b> (within 600 ft or 200 m):	_____ ft   m
<b>10</b>	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.	
<b>11</b>	<b>Net protected volume</b>	= Floor Area _____ X Maximum protected height _____ = _____ ft <sup>3</sup>   m <sup>3</sup>
<b>12</b>	<b>Operating temperature</b>	_____ F   C
<b>13</b>	<b>Enclosure height</b>	= Above Ceiling (0 if not protected) ____ +Room ____ +Sub-floor ____ = ____ ft   m
<b>14</b>	<b>Minimum agent Hold time (e.g. 10 minutes)</b>	_____ min
<b>15</b>	<b>Take a break.</b>	
<b>16</b>	<b>Agent</b> _____ Actual quantity determined from tags _____, weighing _____ or _____	lb   kg ft <sup>3</sup>

17	<b>Set up room for Door Fan test</b>		
	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 Hold time		_____ _____ _____ ON / OFF _____
18	<b>Set up Door Fan</b> , ensuring the door panel system is no tighter than the closed door.		_____
19	<b>Leak check.</b> Blow air in to get +15 Pa room pressure & use smoke to locate leaks in:	Dampers ____, lower slab ____, sub-floor ____, stub-wall ____, walls ____ & ceiling ____.	
20	<b>Total Enclosure Leakage</b>	Test ____, Enter untested values ____, Sub-floor only ____.	
21	<b>Operator</b>	In the room ____, Out of the room ____.	
22	<b>Smoke with Door Fan OFF.</b>	moves out of the room ____, moves into the room ____, doesn't move ____.	
23	<b>Bias pressure</b> during Total Enclosure Leakage test. Measure across each perimeter door that showed smoke movement. Use the hand-held gauge. Record the maximum pressure:		_____ Pa
24	<b>Temperature during test</b>	Inside ____ Outside ____ F   C	
25	<b>Test</b>	Test both directions ____, Depressurize ____, Pressurize ____.	
26	<b>Flow Away from operator</b>	Range _____ Test # ____.	
	Room pressure		
	Fan pressure (Pa) / Flow ____		
27	<b>Flow Towards operator</b>	Range _____	
	Room pressure		
	Fan pressure / Flow _____		
28	<b>Mixing?</b>	a. No mixing (descending interface) ____, b. Mixing ____, c. Extended discharge ____	
29	<b>Walk the perimeter</b> to ensure nothing has changed.		_____
30	Set up HVAC, dampers and doorway openings to <b>Hold time conditions</b> .	Yes ____, No, can't be done ____ Same as for Total Enclosure Leakage test ____	
31	<b>Smoke with Door Fan OFF.</b>	moves out of the room ____, moves into the room ____, doesn't move ____.	
32	Determine the <b>Bias pressure during Hold time</b> according to how the room would be set up during the agent retention period.		_____ Pa
33	a. <b>Minimum protected height</b> from lower slab to protected equipment. OR		_____ ft   m
	b. <b>Minimum concentration</b> to prevent re-ignition. 85% of Design % OR		_____ %
	c. <b>Enter discharge rate</b> for extended discharge.		_____ lb/min   kg/min
34	If the room <b>PASSES</b> , test is <b>COMPLETE</b> . If room <b>FAILS</b> , go to Step 35		Pass   Fail

35	<b>Below Ceiling Leakage</b>	a.Flex Duct test ____, b.Plastic-on-Ceiling test ____, c.Estimated ____, d.Leak audit ____, e.Floor neutralization test ____, f.Plastic on Floor ____	
36	<b>Smoke with Door Fan OFF.</b>	moves out of the room ____, moves into the room ____, doesn't move ____.	
37	<b>Bias pressure</b> during <b>BCLA</b> test. Measure across each perimeter door that showed smoke movement. Record the maximum pressure:		_____ Pa
38	<b>Flow Away from operator</b>	Range _____ Test # ____.	
	Room pressure		
	Fan pressure / Flow _____		
39	<b>Flow Towards operator</b>	Range _____	
	Room pressure		
	Fan pressure / Flow _____		

