

Duct Leakage Assessment

Choose a value that best describes each situation. Write the value in the box. Add the values to determine your Duct Leakage Assessment. Complete one worksheet for each air distribution system.

Building Name

Building Address

Air Handler or Fan Tag Number(s)

LEGEND

Fractional Leakage Score:

- <50 points: 7%
- 51 to 80 points: 15%
- 81 to 99 points: 20%
- >100 points: 25%

Your total:

Examples of visible signs of duct leakage:



Tracing at corners of flanges



Unsealed holes at hangers



Duct tape blown away



Condensate leak at flange



Tracing at door

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1. Main air duct and riser construction:

Rectangle	Round	Flexible Duct	Other*
10	0	5	40

*(i.e., masonry, gypsum)

2. Branch air duct construction:

Rectangle	Round	Flexible Duct	Other
5	0	5	30

3. Variable air volume or terminal boxes:

Yes	No	Unknown
5	0	0

4. Dual duct system:

Yes	No	Unknown
10	0	0

5. Slot diffusers:

Yes	No	Unknown
10	0	0

6. Balance dampers:

Yes	No	Unknown
5	0	0

7. Access doors:

Yes	No	Unknown
5	0	0

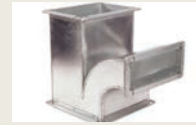
8. Main air duct connection type:

Welded	Flanged	Other
0	5	15



9. Branch air duct connection type:

Welded	Flanged	Other
0	5	10

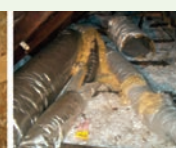


10. Inflated externally insulated air ducts (mattress effect):



Yes	No
15	0

11. Is duct damaged or disconnected:



Yes	No
60	0

12. How is duct sealed:

Mastic	Metal Tape	Cloth Tape	None
0	15	50	50

13. If sealed with mastic or metal tape, how well is it sealed:

All surfaces of all joints	Some missing at corners or sides	A lot missing at corners or some joints missing
0	15	30



14. Visible signs of duct leakage:

No traces of dirt at seams and joints smoke pencil indicates little flow through joints	Some traces; smoke pencil indicates some air flow through joints	A lot of traces; smoke pencil indicates significant air flow through joints
0	5	15