

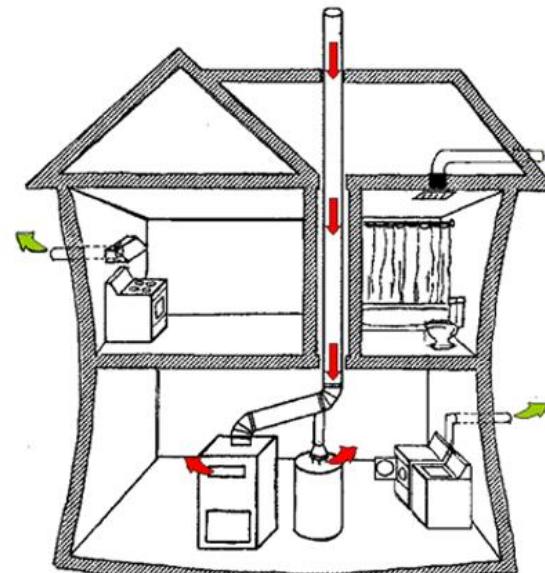


Blower Door



When doing a blower door test...

- We intentionally produce negative pressure
- We set the combustion appliances to pilot to prevent them from backdrafting.

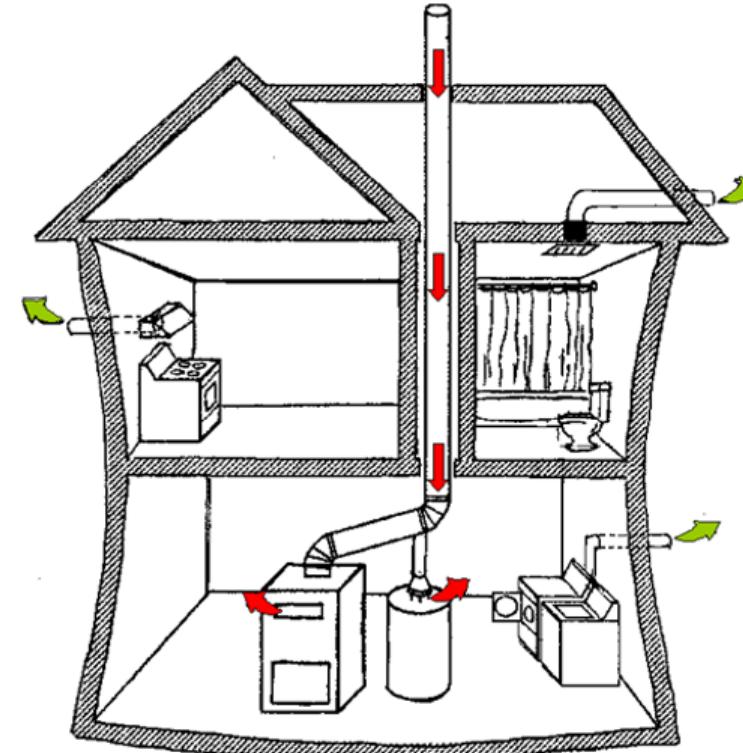


Exhaust fans and duct leakage

- Can cause unintended negative pressure
- Negative pressure problems can be intensified by air sealing.

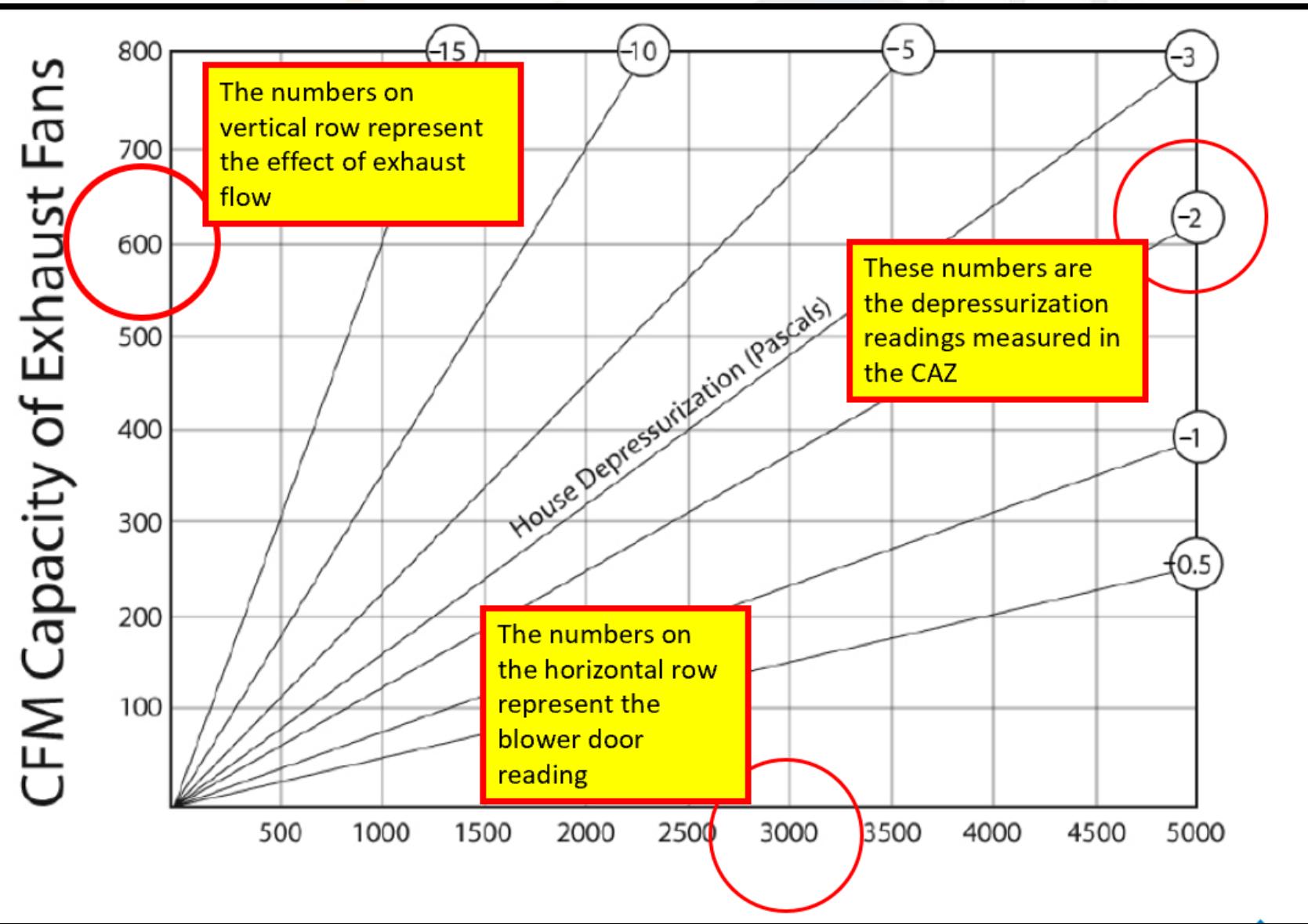


- Combustion Appliance Zone (CAZ) testing is a necessary safety precaution that must be performed at the end of every workday. Exhaust fans and air sealing can create negative pressures that can cause backdrafting

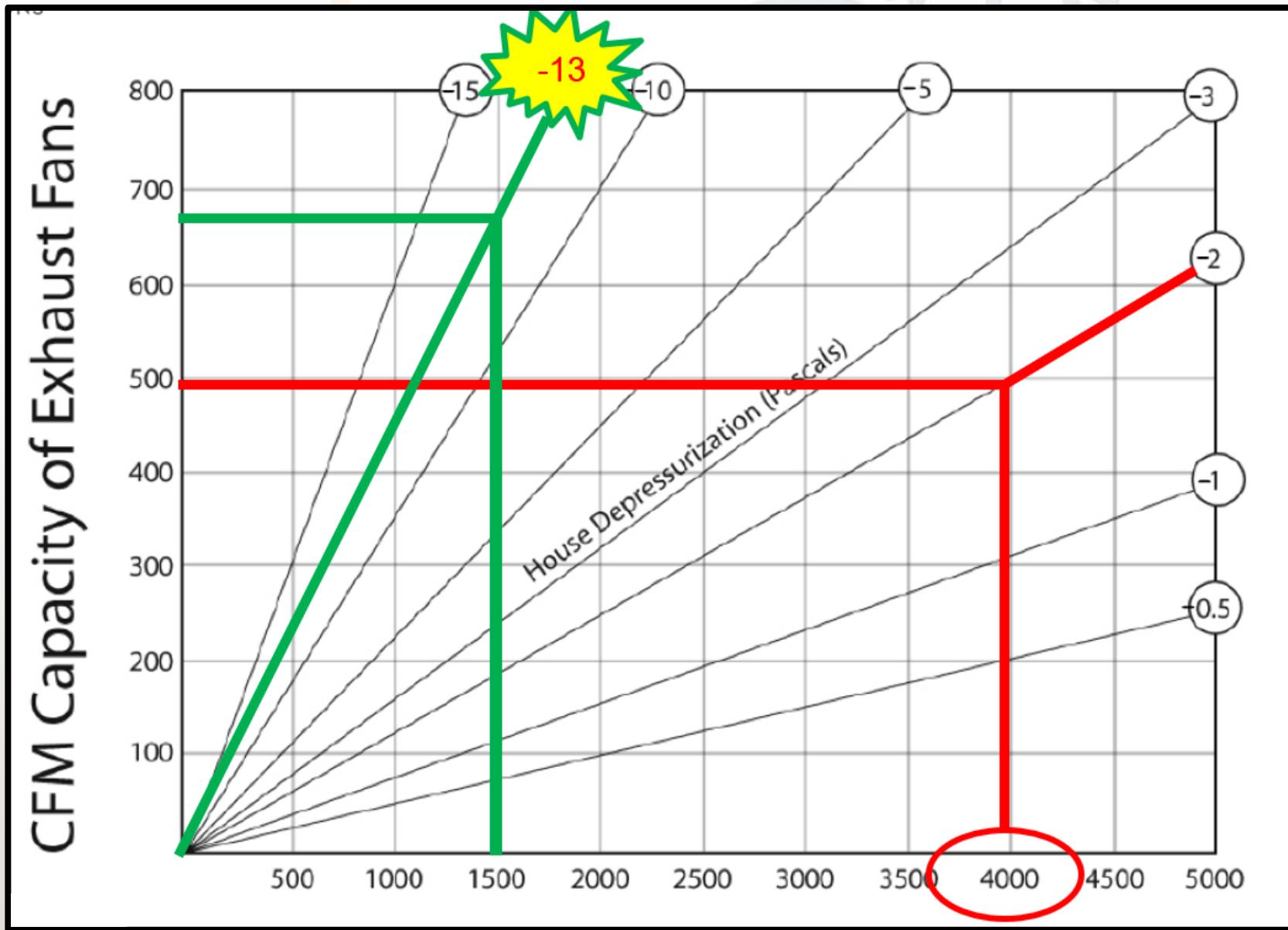


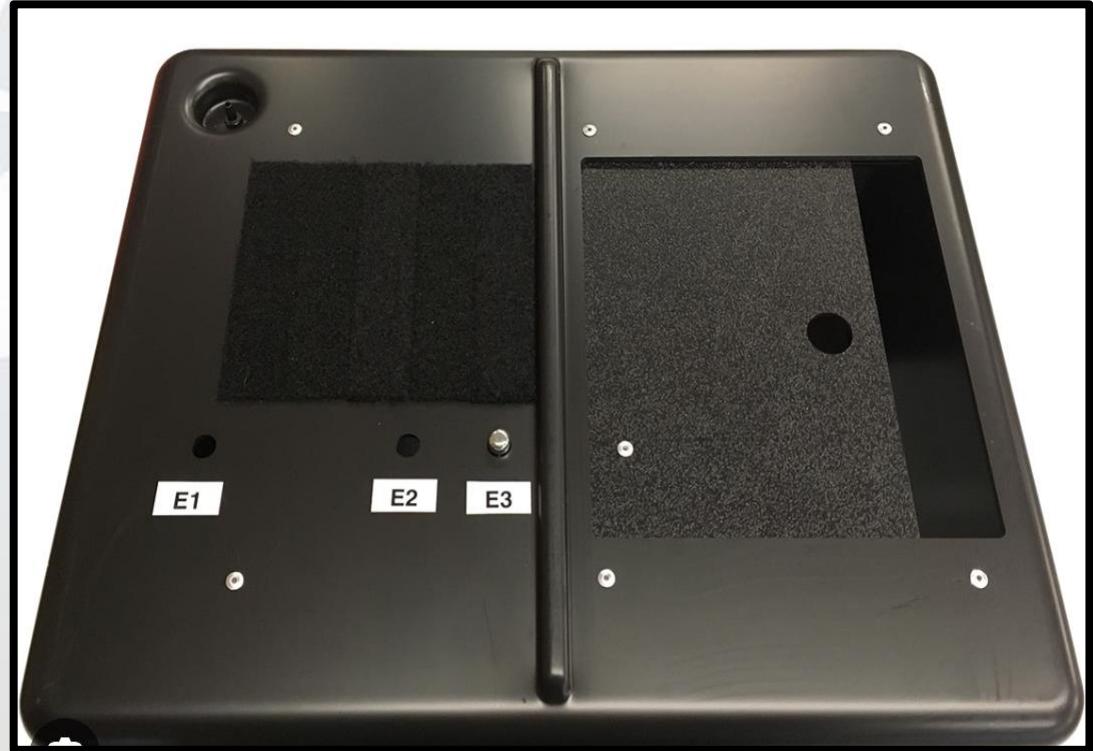
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- **Possible reasons for worst-case test failure:**
 - Negative pressure from exhaust fans
 - Unbalanced flow between the supply side and the return side of the duct system due to interior door closure or duct leakage.
 - The building envelope becomes tighter through air sealing (This is a good thing, we just have to keep it in mind and plan for it.)



- Pre blower door reading: 4000 cfm@50
- Pre CAZ reading: -2 Pa
- Estimated post blower door: 1500 cfm@50
- Bath fan (50 cfm) and Kitchen fan (100 cfm) installed
- What would be our new CAZ reading?





1.07 x Area of Hole x the square root of the pressure measured in the box

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