Interpretation:	Continuously Operation	ng Whole House Mechanical	Ventilation
<b>Designation</b>	No: 380-2016-03		
Approved:	April 14, 2019 by RESNET SDC 300		
Effective Date:	May 14, 2019		
<u>Request from:</u>	Name:	RESNET Staff	
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<u>Reference:</u>	This request for interpretat Standard: 380-2016	ion refers to the requirements	s presented in
	Page Number(s): Section(s): Table(s): Relating to:	3.2.11.4 and 4.2.7.2	
<u>Background</u> (provided by <u>Requester):</u>	when determining whether to the procedure to prepare testing. The issue stems free "continuously operating" in 380-2016. Within other co- operating" can refer to app turn on and off automatical Many testers have taken a operating" (as it is used in the fan is designed to be in	ivities have discovered incom to tape/seal non-dampered o the building for infiltration a om an interpretation of the m n sections 3.2.11.4 and 4.2.7. de standards such as the IRC liances like refrigerators which ly without any interaction from plain English interpretation to the above referenced sections operation 100% of the time. different test results and creat	penings as it pertains and duct system heaning of 2 within RESNET/ICC c, "continuously ch do not run 24/7, but om the occupants. that "continuously s of 380-2016) means This interpretation

This interpretation request is necessary in the name of consistency and

	creating a level playing field. Without a clear definition of "continuously operating" some testers are making an interpretation to seal these non-dampered openings during duct leakage to outside or infiltration testing.		
	The proposed interpretation is in line with the original intent of the standard. Non-dampered openings create "holes" through which natural infiltration occurs whenever a mechanical ventilation system fan is not activated. When connected to heating/cooling air distribution systems, these "holes" also create openings through which duct leakage occurs during times when the heating/cooling system operates and the ventilation system fan is not activated. As such, these "holes" cause additional air exchange with the outside beyond the design for ventilation air and should be accounted for during testing.		
Requester's Interpretation:			
	The term "continuously operating" as it is used in RESNET/ICC 380-2016 shall be defined as a ventilation fan designed to operate 100% of the time or 24/7. Ventilation systems that automatically turn the fan on or off (for example: timer, moisture/temperature sensor) shall NOT be considered continuously operating and their non-dampered openings shall not be sealed during testing.		
Question:	Is this Interpretation correct?		
<u>SDC300</u> Answer:	Yes		
<u>SDC300</u> Comments:			

Sections 3.2.11.2 and 4.2.7.1 clearly state that non-dampered ventilation openings of "intermittently operating" systems shall not be sealed. Timer and sensor controlled systems are intermittent and not continuous.

- **3.2.11.** Non-dampered openings for ventilation, combustion air and make-up air
  - **3.2.11.2** Non-dampered ventilation openings of intermittently operating whole-house ventilation systems, including HVAC fan-integrated outdoor air inlets, that connect the Conditioned Space Volume to the exterior or to Unconditioned Space Volume shall not be sealed.
  - **3.2.11.4.** Non-dampered ventilation openings of continuously operating whole-house ventilation systems that connect the Conditioned Space Volume to the exterior or to Unconditioned Space Volume shall be sealed at the exterior of the enclosure where conditions allow.
- **4.2.7.** Non-dampered ventilation openings within the duct system shall be treated as follows:
  - **4.2.7.1.** Non-dampered ventilation openings of intermittently operating whole-house ventilation systems, including HVAC fan-integrated outdoor air inlets, that connect the Conditioned Space Volume (including space conditioning duct systems) to the exterior or to Unconditioned Space Volume shall not be

## sealed.

**4.2.7.2.** Non-dampered ventilation openings of continuously operating whole-house ventilation systems that connect the Conditioned Space Volume (including space conditioning duct systems) to the exterior or to Unconditioned Space Volume shall be sealed, preferably at the exterior of the enclosure.

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