

 <p>State of Ohio Weatherization Program Standards</p>	Section	<b>MECHANICAL SYSTEMS INSTALLATION</b>
	Subject	<b>Mechanical Ventilation</b>

*EXISTING EXHAUST FANS 301-6.1*

Install rigid or flexible vent duct to the outside of the house on each exhaust vent fan that is not properly vented to the outside. Ensure that the vent duct is properly-sized, insulated with at least an R-6 material or covered with the insulation blown into the attic, and is pitched towards the outside, if possible. Flexible ducts must be installed tightly, with a minimum of sagging. Vent ducts for clothes dryers must be smooth-surfaced, rigid duct or non-combustible metal, flexible duct and are not to be insulated.

**vent to outside**  
301-6.1a

Install a working damper and tighten or replace any loose connections on the exhaust vent pipe. Install a weather-protective termination fixture if one is not present.

**damper and connection**  
301-6.1b

If the exhaust fan is not operational or effective, repair or replace it if it is needed according to the OVERALLS Scale, Building Tightness Limits, or IAQ needs. If the exhaust fan is not operational or effective, and it is not needed according to the determinations mentioned above, do not work on it.

**determination of need**  
301-6.1c

**The following standards assume that the exhaust fan is needed.**

Use a rigid or flexible duct for any duct replacement and new exhaust fan installation. Use smooth-surfaced, rigid ducts or non-combustible metal, flexible ducts for clothes dryer vent duct replacements.

**vent duct material**  
301-6.1d

Replace any switch or control that is not operational.

**control**  
301-6.1e

Repair or replace any fan and switch wiring and connections that are improper.

**power to fans**  
301-6.1f

Instruct the customer on the proper use of exhaust fans. Perform a worst-case draft test (see 1506-4). Install passive venting if necessary.

**proper use**  
301-6.1g



## *NEW EXHAUST FANS 301-6.2*

**proper fan size**  
301-6.2a

Determine the proper fan size PMI in CFM for the area to be ventilated.

**potential need**  
301-6.2b

Install a properly-sized exhaust fan where needed according to the OVERALLS Scale, Building Tightness Limits, or IAQ needs.

**vent duct material**  
301-6.2c

Install rigid or flexible vent duct to the outside of the house on each exhaust vent fan. Ensure that the vent duct is properly-sized, insulated with at least an R-6 material or covered with the insulation blown into the attic, and is pitched downward toward the outside to allow condensation to escape, if possible. Flexible ducts must be installed taut.

**termination**  
301-6.2d

Install a weather-protective termination fixture to the outside end of the vent pipe.

**proper use**  
301-6.2e

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Instruct the customer on the proper use of exhaust fans. Perform a worst-case draft test (see 1506-4). Install passive venting if necessary.