

 <p style="text-align: center;">State of Ohio Weatherization Program Standards</p>	Section	BUILDING SHELL INSTALLATION
	Subject	Foundation

### *FOUNDATION AREA 302-5.1*

If a hazardous situation exists, correct, if possible, under program guidelines before beginning weatherization. Hazardous situations include, but are not limited to, unsafe electrical situations, excessive moisture, sewage leaks, excessive animal droppings, or dangerous physical situations, such as broken glass in the crawl space.

**hazards**  
305-5.1a



Correct moisture or sewage problems, if possible under program guidelines.

**moisture/sewage  
problems**  
302-5.1b

Repair damaged or missing areas of foundations, when allowable under program guidelines. Penetrations to the outside should be sealed.

**repair**  
302-5.1c

### *CRAWL SPACE 302-5.2*

If the inspector has called for the separation of the crawl space and basement, separate the vented, non-conditioned crawl space from the unintentionally conditioned or conditioned basement with suitable materials.

**crawl space/  
basement separation**  
302-5.2a

Install a vapor barrier in the crawl space if none is present. Overlap edges a minimum of 6 inches and up at least 6 inches on the perimeter wall. Seal all joints.

**vapor barrier**  
302-5.2b

If floor insulation is to be installed, and there is a danger of freezing, insulate the water lines.

**water lines**  
302-5.2c

Crawl space ventilation is not necessary if the crawl space is well drained and dry, there is a complete, effective vapor barrier, and there is no danger of standing water. Otherwise, install the required amount of closeable foundation ventilation (1ft<sup>2</sup> of closeable NFVA for each 1500ft<sup>2</sup> of floor area) when insulating the crawl space.

**ventilation**  
302-5.2d

Seal all direct air leakage sites into the crawl space.

**direct air leakage**  
302-5.2e

<b>bypasses</b> 302-5.2f	Seal all bypasses and chaseways into and through the conditioned areas of the house to achieve a house to zone leakage of 20 square inches or less (see 1506-3 Zone Pressure Testing).
<b>exhaust fan termination</b> 302-5.2g	Route any exhaust fans to the outside, using dampered vents and smooth bore rigid pipe and an appropriate termination fixture.
<b>insulation</b> 302-5.2h	Install insulation, when required, with the vapor barrier toward the living area. Cut floor insulation to fit snugly into the cavities and secure with mechanical fasteners. Install perimeter insulation from the sillbox (including the band joist) to the crawl space floor. The crawl space wall insulation shall extend vertically and horizontally a minimum total distance of 24" linearly from the outside finished ground level. Mechanically fasten the insulation and seal all joints with tape.
<i>BASEMENT 302-5.3</i>	
<b>floor moisture</b> 302-5.3a	Correct basement floor moisture problems as directed by the work order.
<b>water lines</b> 302-5.3b	If floor insulation is to be installed, and there is a danger of freezing, insulate the water lines.
<b>direct air leakage</b> 302-5.3c	Seal all penetrations and other direct air leakage sites into the basement.
<b>bypasses</b> 302-5.3d	Seal all bypasses and chaseways into and through the conditioned areas of the house to achieve a 50Pa pressure difference into the non-conditioned area (see 1506-3).
<b>exhaust fan termination</b> 302-5.3e	Route any exhaust fans to the outside using dampered vents, smooth-bore rigid pipe, and an appropriate termination fixture.
<b>exterior doors and windows</b> 302-5.3f	Repair or replace exterior doors or door components to reduce air leakage. Replace all missing glass and repair or replace window components to reduce air leakage.
<b>insulation</b> 302-5.3g	Install insulation, when required, with the vapor barrier toward the living area. Cut floor insulation to fit snugly into the cavities, and secure with mechanical fasteners.

Install perimeter insulation from the sillbox to the basement floor. Mechanically fasten the insulation and seal all joints with tape. Insulate the band joist of conditioned or unintentionally conditioned basements.

**insulation (con't)**

302-5.3g

NOTE: do not insulate basement walls that are below the ground surface level with any product where you cannot ensure an air barrier, as the flow of moisture behind the insulation may tend to encourage mold growth.

**basement**

302-5.3h

We learn that all wall components require a surface exposure to drying potential, either to inside or outside. Basement wall surfaces below grade level need to have the opportunity to “dry to the inside”.

*CERTIFICATE OF INSULATION 302-5.4*

Post a consumer information card or certificate of insulation which complies with OAC 109:4-3-14 on, or adjacent to, the electric service panel.

**certificate of  
insulation**

302-5.4a