



TYPICAL WALL SECTION

2021 PENNSYLVANIA ALTERNATIVE RESIDENTIAL ENERGY PROVISIONS: REFERENCE TABLES

Table PA104
Energy Enhancement Options

Option	Description	Minimum efficiency by climate zone			
		South (4)	Central (5)	North (6)	
1	Ductless heat pumps ^a	8.5 HSPF and 15 SEER	10 HSPF and 15 SEER	10 HSPF and 15 SEER	
2	All air ducts located inside the thermal envelope	Compliant	Compliant	Compliant	
3	Geothermal or water source heat pump installed ^a	Compliant	Compliant	Compliant	
4	Improved efficiency air source heat pump installed ^a	9.5 HSPF and 19 SEER	9.5 HSPF and 19 SEER	11 HSPF and 19 SEER	
5	Improved efficiency condensing furnace installed ^a	92 AFUE	95 AFUE	95 AFUE	
6	Exterior continuous insulation	R20+10	R20+10	R20+15	
7	Improved efficiency windows	U-factor = 0.21	U-factor = 0.19	U-factor = 0.15	
8	Package: Improved efficiency windows and higher attic R-value with raised heel truss ^b	Windows	U-factor = 0.25	U-factor = 0.21	U-factor = 0.19
		Attic	R-value = 60	R-value = 60	R-value = 60
9	Package: Improved efficiency windows and heat pump water heater	Windows	U-factor = 0.25	U-factor = 0.21	U-factor = 0.19
		Heat Pump Water Heater	Compliant	Compliant	Compliant

Notes:

- For multiple cooling systems, all systems shall meet or exceed the minimum efficiency requirements in this section and shall be sized to serve 100 percent of the cooling design load. For multiple heating systems, all systems shall meet or exceed the minimum efficiency requirements in this section and shall be sized to serve 100 percent of the heating design load.
- Full height of uncompressed insulation shall extend over the top plate at the eaves.

Table PA301
Insulation and Fenestration Requirements by Component^a

Climate Zone	Fenestration ^b U-factor	Skylights ^b U-factor	Glazed Fenestration SHGC ^{b,e}	Ceiling R-value	Wood Frame Wall R-value	Mass Wall R-value ^h	Floor R-value	Basement ^c Wall R-value	Slab ^d R-value and depth	Crawlspace ^c Wall R-value
South (4)	0.32	0.55	0.4	38	20 ⁱ or 13+5 ^g	8/13	19	10/13	10, 2 ft	10/13
Central (5)	0.30	0.55	NR	49	20 ⁱ or 13+5 ^g	13/17	30 ^f	10/13	10, 2 ft	10/13
North (6)	0.30	0.55	NR	49	23, 20+5 ^g , or 13+10 ^g	15/20	30 ^f	10/13	10, 4 ft	10/13

Notes:

- R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.
- The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
Exception: In Climate Zones 1 through 3, skylights shall be permitted to be excluded from glazed fenestration SHGC requirements provided that the SHGC for such sky lights does not exceed 0.30.
- "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation on the interior of the basement wall. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation on the interior of the basement wall. Alternatively, compliance with "15/19" shall be R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home.
- For heated slabs, refer to requirements in 2018 IRC Table N1102.1.2 (R402.1.2) and 2018 IRC Section N1102.2.10 (R402.2.10).
- There are no SHGC requirements in the Marine Zone.
- Alternatively, insulation sufficient to fill the framing cavity providing not less than an R-value of R-19.
- The first value is cavity insulation, the second value is continuous insulation. Therefore, as an example, "13+5" means R-13 cavity insulation plus R-5 continuous insulation.
- Mass walls shall be in accordance with Section N1102.2.5. The second R-value applies where more than half of the insulation is on the interior of the mass wall.
- R-18 insulation shall be permitted in place of R-20 requirement provided the wall framing factor is 20% or less or exterior walls with 24" on center nominal vertical stud spacing.

DIRECTIONS TO THE SITE LOCATION

Please give directions to the work site from a known landmark and/or intersection. Use a directional drawing also in the space provided below if that would assist.

Applicant: _____ Phone: _____

Site Street Address: _____

Directions: _____

Use this space if needed to further clarify the site location:

Please Note: Inspectors cannot inspect what they cannot find, Be certain the directions are clear. Use Road or Street names, distances between turn offs, and the direction of that travel (North South East or West). Landmarks are very helpful.

▶ Workers' Compensation Insurance Coverage Information ◀

A. The applicant is

A contractor within the meaning of the Pennsylvania Workers' Compensation Law

Yes No

If the answer is "Yes," complete Sections B and C below as appropriate.

B. Insurance Information

Name of Applicant: _____

Federal or State Employer Identification No. _____

Applicant is a qualified self-insurer for workers' compensation.

Certificate attached

Name of Workers' Compensation Insurer: _____

Workers' Compensation Insurance Policy No. _____

Certificate attached

Policy Expiration Date: _____

C. Exemption – MUST BE NOTORIZED

Complete Section C if the applicant is a contractor claiming exemption from providing workers' compensation insurance.

The undersigned swears or affirms that he/she is not required to provide workers' compensation insurance under the provisions of Pennsylvania's Workers' Compensation Law for one of the following reasons, as indicated:

Contractor with no employees. **Contractor prohibited by law from employing any individual to perform work pursuant to this building permit unless contractor provides proof of insurance to the township.**

Homeowner who elects to do all work without contracting or hiring others to assist.

Religious exemption under the Workers' Compensation Law.

Signature of Applicant: _____ Print Name: _____

Address: _____ Date: _____

Commonwealth of Pennsylvania, County of _____

On this, the _____ day of _____, 20____ before me _____,
(Notary)

the undersigned personally appeared _____, known to me (or satisfactorily proven)
(Signatory)

to be the person whose name subscribed to the within instrument, and acknowledged that he/she executed the same for the purpose herein contained.

In Witness whereof, I hereunto set my hand and official seal.

Notary Public

When applying for a Building Permit you need the following:

- Fill out the appropriate application answering all questions applicable to your job. Application must be legible and signed. (2 copies)
 - If a portion of the application is not applicable to your project put a N/A on the line.
 - A copy of the signed Land Use Permit from the Municipality (Borough or Township) (2 copies)
 - A Site Plan showing the location of the existing improvements/structures on your property and approx. distances to all property lines, well, septic system, driveway, etc. Also show the location of the proposed construction. (2 copies)
 - Drawings showing details of the construction you want to do. (2 copies)
 - Copy of Contractors Certificate of Insurance for Workers Compensation **OR** if doing the work yourself submit Workers Compensation Insurance Coverage Waiver *[refer to the attached document]*.
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After Building Permit Application is submitted:

- After submitting all required documents your application and drawings will be reviewed.
 - PMCA will contact you with an approval or denial.
 - If approved, your permit will be issued. The inspection & administrative fees are due when you pick up the permit. You will also obtain a copy of your original application and stamped set of plans.
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After Building Permit is issued:

- The Building Permit placard and Municipal Placard are to be visible on site at all times during the construction process.
- To schedule an inspection call the office where your permit application was submitted or visit our website to schedule online. Be prepared to have your Permit Number, address and type of inspection you are requesting.
 - If you request an inspection BEFORE 3 pm, every effort is made to schedule the inspection for the next business day.
- The copy of your application and approved plans are to remain on site when the building inspectors come for inspections. Be advised: we cannot inspect if these are not on site and you may incur additional costs due to extra trip(s) by the inspector.

✓ Checklist for the Site Plan to be provided with the Permit Application

1. **Site plans are essential and must be clearly legible and reproducible regardless of the reason for requesting the permit.**
2. Use an 8 ½" X 11" sheet of paper at minimum.
3. After locating all the structures on your property show distances in feet to the lot lines and between the structures.

Provide dimensions of the property getting the proposed improvement

- Drawing of approx. property layout (Can use hand drawing, photocopy of survey, etc.)
- Acreage (Refer to deed or survey drawing)
- Approx. boundary dimensions (Can be from the deed, field measurement, or a survey drawing)
- Parcel Number (Not mandatory – obtained from deed or property tax notice)

Existing Buildings / Structures with Corresponding Dimensions

- | | |
|------------------|----------------------------------------------------|
| ○ Houses | ○ Deck / Patios |
| ○ Sheds | ○ Other buildings or structures on the property |
| ○ Barns | ○ Location of on lot well and septic IF applicable |
| ○ Swimming Pools | |

Proposed Improvement(s)

- Proposed Structure Dimensions (House, Shed, Barn, Addition, Deck, etc.)
- Location of Proposed Driveway and Sidewalk

SAMPLE SITE PLAN ►

