

1130 N. Bethlehem Pike Spring House, PA 19477 215.646.5302 (p) 215.646.3357 (f)

#### **APPLICATION FOR PERMIT**

(All below relevant fields must be filled out prior to submission) Parcel Information (must be filled out for all work):

Address of work to be performed:
Property Type:  Residential  Commercial Zoning District:
Parcel Owner Name:
( <mark>copy of signed contract must be included with submission</mark> )
Parcel Owner Address: (if different than address listed above)
Parcel Owner Phone:
Parcel Owner Email:
Contractor Information (current COI is required with each submission):
Business Name: Contractor Name:
Business Address:
Business Phone: Cell Phone:
Email:
HIC PA License #(residential work): PA LGT Contractor License # (commercial work): C
Architect/Engineer information:
Name:
Phone: Email:

### Zoning Information: (a site plan showing existing setbacks to be included with submission)

Zoning District:	ZHB Approval Received: Yes ( ) N/A	( ) (copy of Decision & Order to be attached)
% of Current Impervious Coverage	% of Proposed Impe	ervious Coverage:
Lot Frontage (width):	Lot Depth:	
Current Front Yard Setback:	_ Current Rear Yard Setback:	Current Side Yard Setback:
Proposed Front Yard Setback:	Proposed Rear Yard Setback:	Proposed Side Yard Setback:
Height of Proposed Building:		

# Building Permit Information:

Type of construction (check off all that apply):							
□ New Construction (new homes require separate breakdown sheet of sq. footage of each level/patio/deck/garage/attic or crawl spaces)							
Pre-Submission Plan Review (Commercial)	Pre- Submission Plan Review (Single	Family Residential)					
Kitchen Alteration	Oil Tank						
Reroof Commercial	$\hfill\square$ Reroof Residential (required only if s	sheathing is being replaced)					
Alteration/Addition	□ Sheds (over 200 sf)						
Antenna/Cell Tower	Solar Panels						
Accessory Structures (decks, garages, porc	hes, pavilions etc)						
Bathroom Remodel	Swimming Pools, Tennis/Basketball	Courts/Other Recreational Uses					
Demolition (peco/gas shut offs, exterminator report required with submission)(AREA OF DEMOLITION TO BE STABILIZED WITH STRAW/SEEDING)							
Gas Fireplace	Storage Tank						
□ Generator (see generator requirement sheet)	Tenant Fit-Out						
Interior Renovation (attach worklist)	□ Tents (open sides > 700 sf / closed	l sides > 400 sf)					
Sq. footage of work to be performed:	Cost of work: \$						
Type of Sewage: 🗆 Public/Private 🗆 Individual (septic tank etc.) Type of Water Supply: 🗆 Public/Private 🗆 Well							
Automatic Fire Sprinkler System Installed 🗆 Yes 🗆 No 🛛 Fire Alarm 🗆 Yes 🗆 No							
Proposed Number of Employees:	Proposed Parking Spaces:						
Description of work:							
Approved By BCO:							
Zoning Officer's Signature:	Date:	LGT PERMIT #					

	<b>Electrica</b>	Permit	Information:
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Electrical Contractor Information (current CC	I is required with each submission)
Business Name:	
Business Address:	
LGT Current Master Electrician License #: EL-	Phone:
Email:	Cost of Work: \$
Description of Electrical Work to be Performe	ed:
Electrical Inspection Agency (all electrical pla	ans must have a third-party stamp prior to submission):
D Middle Department Inspection Agency	Middle Atlantic Electrical Inspections
Code Inspections	Bureau Veritas North America
United Inspection Agency	
	n this application is true and that I am versed in the National Electric Code and e; further, I understand that I am responsible for meeting the requirements of edd Township.
Signature of Master Electrician:	
	Date:
Approved By BCO:	Date:
Zoning Officer's Signature:	
	LGT Permit #:

### **Plumbing Permit Information:**

Business Ad	ldress:												
LGT Current	t Maste	er Plumber	Licen	se #:	P			Ph	one:				
Email:									_ Co	ost of	f Wor	′k: \$	
BELOW FI	IXTUR	E TABLE I	<u>MUS</u>	T BE	FIL	ED	<mark>out</mark>	:					
FLOORS	YARD	BASEMENT	1 <sup>st</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>	4тн	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>TH</sup>	8 <sup>th</sup>	9тн	10 <sup>тн</sup>	ТОТ
Γoilets													
Bath Tubs													
Shower/Bath													
Lavatories													
Sinks													
Wash Tubs													
Slop Hopper													
Urinals													
Outlets													
Drainage													
Wells													
*\$35 Garbage Grinder						<u> </u>				<u> </u>			
*\$150 Ejector													
Pump													
Gas Line													
Water Heater													
BYPASS METER													

shall be designated by numbers or letters. A soil or waste line and its attendant vent line may be considered as one stack and so numbered or lettered. All work, materials and construction will be in accordance with the rules and regulations of the plumbing code. I do hereby attest that the information provided on this application is true, and that I am versed in the Lower Gwynedd Township Plumbing Ordinance; and further, I understand that I am responsible for meeting the requirements of these codes on all work performed in Lower Gwynedd Township Approved By BCO: \_\_\_\_ \_\_\_\_\_ Date: \_\_\_\_\_

Zoning Officer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LGT PERMIT # \_\_\_\_\_

# HVAC Permit Information:

LIV/AC Construction lists	<b>k)</b>	
		quired with each submission)
		LGT Contractor License #: C
Phone:	Emai	I:
Cost of Work: \$		
Description of HVAC V	Vork to be Performed:	
		LGT PERMIT #

Date: \_\_\_\_

Zoning Officer's Signature: \_\_\_\_\_



# **Residential Plans Examiner Review Form** for HVAC System Design (Loads, Equipment, Ducts)

Form **RPER 1.01** 8 Mar 10

## County, Town, Municipality, Jurisdiction

Header Information

Contractor

Mechanical License #

**Building Plan #** 

**REQUIRED ATTACHMENTS<sup>1</sup>** 

Manual J1 Form (and supporting worksheets): or MJ1AE Form<sup>2</sup> (and supporting worksheets): OEM performance data (heating, cooling, blower): Manual D Friction Rate Worksheet: Duct distribution system sketch:

Btu

Date

Ft

Ft

IWC

Duct Materials Used (circle)

Trunk Duct: Duct board, Flex, Sheet metal,

Branch Duct: Duct board, Flex, Sheet metal,

Lined sheet metal, Other (specify)

Lined sheet metal, Other (specify)

A	ITACHED
Yes [	No

Home Address (Street or Lot#, Block, Subdivision)

HVAC LOAD CALCULA	TION (IRC M	(401.3)					
Design Conditions			<b>Building Construction</b>	n Infoi	rmation		
Winter Design Conditions			Building				
Outdoor temperature		°F	Orientation (Front door fa	aces)	<b>F</b>		
Indoor temperature		°F	North, East, West, South, No	ortheast, l	Northwest, Southeast, S	Southwest	
Total heat loss		- Btu	Number of bedrooms				
Summer Design Condition	15	-	Conditioned floor area		Sq Ft		
Outdoor temperature		°F	Number of occupants				
Indoor temperature		۴	Windows				
Grains difference	Δ Gr @	% Rh	Eave overhang depth		Ft	Roof	
Sensible heat gain		Btu	Internal shade			← Eave Π	
Latent heat gain		Btu			•••••		Window
Total heat gain		Btu	Number of skylights			ł	
HVAC EQUIPMENT SELE	ECTION (IRC	CM140	01.3)				
Heating Equipment Data		<u>_C</u>	<u>poling Equipment Data</u>		Blower Data		
Equipment type Furnace, Heat pump, Boiler, etc.			Equipment type Air Conditioner, Heat pump, etc		Heating CFM		CFM
Model			Model		Cooling CFM		CFM
Heating output capacity	Bi	:u	Sensible cooling capacity	Btu		•	
Heat pumps - capacity at winter design	outdoor conditions		Latent cooling capacity	Btu			

#### Available Static Pressure (ASP) IWC ASP = ESP - CPLFriction Rate = (ASP $\times$ 100) $\div$ TEL I declare the load calculation, equipment selection, and duct system design were rigorously performed based on the building plan listed

Total cooling capacity

Longest supply duct:

Longest return duct:

**Friction Rate:** 

above, I understand the claims made on these forms will be subject to review and verification.

Btu

CFM

IWC

HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

Contractor's Printed Name

Auxiliary heat output capacity

Component Pressure Losses (CPL) IWC

Design airflow

**Contractor's Signature** 

External Static Pressure (ESP)

Reserved for use by County, Town, Municipality, or Authority having Jurisdiction.

Total Effective Length (TEL) Ft

The AHJ shall have the discretion to accept Required Attachments printed from approved ACCA software vendors, see list on page 2 of instructions.

<sup>2</sup> If abridged version of Manual J is used for load calculation, then verify residence meets requirements, see Abridged Edition Checklist on page 13 of instructions.



# **Residential Energy Efficiency Worksheet – 2018**

2015 IRC, 2015 IECC & PA Alternative Residential Energy Provisions

Address of Project:	Building Permit #:					
Print Name-Title: Si	gnature: Date:					
PA UCC Energy Compliance Path (Check One)						
1. Pennsylvania Alternate Energy Provisions – <u>Choose Entry Option on Page #2</u>						
2. IRC Chapter 11	<b>2. IRC Chapter 11</b>					
<b>3. IECC – Chapter 4</b>						
<b>4</b> . Above Code Program -RESche	ck or other:					
Insulation and Fenestration Requi	rements by Component (PA Alternate & IRC Chapter 11)					
Wood Frame Walls (R-value)	<b>R-20</b> cavity or <b>R-13</b> cavity $+$ <b>R-5</b> insulated sheathing					
Ceilings with Attic Space (R-value)	<b>R-49</b> ( <b>R-38</b> approved if not compressed over wall top plates)					
Ceilings without Attic Space (R-value)	<b>R-30</b> where roof/ceiling assemblies do not allow <b>R-38</b>					
	Limited to lesser of 500 square feet or 20% of area - IRC only					
Floors (R-value)	<b>R-30</b> (or insulation to fill framing cavity, min R-19)					
	R-19 permitted in basement floors per PA Alt.					
Basement Walls (R-value)	IRC <b>R-15</b> continuous insulation or <b>R-19</b> cavity insulation					
	PA Alt. R-10 continuous insulation or R-13 cavity insulation					
Crawl Space Walls (R-value)	IRC <b>R-15</b> continuous insulation or <b>R-19</b> cavity insulation					
	PA Alt R-10 continuous insulation or R-13 cavity insulation					
Unexcavated Foundation (R-value)	<b>R-10</b> to a depth of 2 feet (add <b>R-5</b> if slab heated)					
Mechanical System Piping	<b>R-3</b> HVAC piping $<55$ deg or $> 105$ deg					
HVAC Duct Insulation	Attic Ducts R-8 for 3" diameter & greater, R-6 less than 3"					
	Other Ducts R-6 for 3" diameter & greater, R-4.2 less than 3"					
	No insulation required for ducts completely inside thermal envelope					
Window & Door (U-factor)	0.32 maximum (15 sqft. window exemption)					
	(Opaque Door Exemptions - 24 sq. ft. IRC, 54 sq. ft. PA Alt.)					
Thermally Isolated Sunroom	R-24 Ceilings, R-13 Walls, 0.45 Glazing U-factor					
Recessed Lights in Thermal Envelope	IC rated and <i>labeled</i> ASTM E283					
Lighting Equipment	Minimum 75% high-efficacy lamps in permanent light fixtures					

Air Leakage – Building Thermal Envelope. Building envelope air tightness and insulation installation shall be demonstrated to comply with one of the following options. Testing does not apply to additions & alterations.

**Testing of Building Thermal Envelope.** Tested **air leakage is less than 5 ACH** when tested with a blower door at a pressure of 50 Pascals (0.007 psi) in accordance with RESNET/ICC380, ASTM E779 or ASTM E1827Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances. See IRC Section N1102.4.1.2 or PA Alt. 304.1.2 for complete requirements.

Approved Testing Agency (RESNET Certified or BPI Envelope Specialist) providing evidence of blower door testing <u>or</u> Contractor performing testing with Lower Gywnedd Township Code Official present

**Duct Sealing.** Ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with the 2015 IMC or IRC Section M1601.4.1.



# **Residential Energy Efficiency Worksheet – 2018**

#### 2015 IRC, 2015 IECC & PA Alternative Residential Energy Provisions

**Duct Testing.** Please choose either Option 1, 2a or 2b for duct tightness testing, or the exception if it applies. Choose one of the following: (duct testing applies to additions and alterations <u>only</u> when new HVAC system(s) installed)

Rough-In Test Options. (Partial system testing is not permitted. i.e. ducts in exterior walls)

 $\Box$ 

 $\square$ 

 $\Box$ 

Option 1a. **Rough-in test (Air handler installed):** Total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 sq.ft. (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inch w.g. (25 Pa). IRC Section N1103.3.4 or PA Alternative Section 402.3

Option 1b. **Rough-in test (no air handler):** Total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 sq.ft. (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 w.g. (25 Pa). IRC Section N1103.3.4 or PA Alternative Section 402.3

Post Construction Test Option. (Partial system testing is not permitted. i.e. ducts in exterior walls)

- Option 2. **Post-construction test (Air handler installed):** Total leakage less than or equal to 4 cfm (113.3 L/min) per 100 sq. ft. (9.29m2) of conditioned floor area when tested at a pressure differential of 0.1 inch w.g. (25 Pa). IRC Section N1103.3.4 or PA Alternative Section 402.3
- Approved Testing Agency (for example: RESNET Certified, BPI Envelope Specialist) providing evidence of duct testing <u>or</u> Contractor performing duct testing with Lower Gwynedd Township Code Official present

Conditioned Floor Area Square Footage

Exception: Duct tightness test is not required if the air handler and all ducts (supply & return) are located within conditioned space. Ducts located in exterior walls are not within conditioned space. When ducts are installed in exterior walls, duct testing is required.

#### PA – Alternate Residential Provisions Entrance Requirements (Chose One)

	Option	Description	Minimum efficiency Climate Zone (4)			
	1	Ductless heat pumps		8.5 HSPF		
	2	All air ducts located inside the thermal envelo	Compliant			
	3	Solar photovoltaic system installed	1.4 kW			
	4	Geothermal or water source heat pump instal	Compliant			
	5	Improved efficiency air source heat pump inst	8.7 HSPF			
	6	Improved efficiency furnace installed	90 AFUE			
	7	Exterior continuous insulation	R20+10			
	8	Improved airtightness	3.0 ACH50			
	9	Improved efficiency windows	Improved efficiency windows			
	40	Package: Improved efficiency windows and	Windows	U-factor = 0.27		
	10	higher attic R-value with raised heel truss <sup>a</sup>	Attic	R-value = 60		
			Windows	U-factor = 0.27		
	11	Package:Improvedefficiencywindowsand heat pump waterheater	Heat Pump Water Heater	Compliant		
Nata		t of up compressed including aboll ovtand over the ter				

Note a. Full height of uncompressed insulation shall extend over the top plate at the eaves.