

BOX 1: COMPLIANCE OPTIONS

SELECT THE COMPLIANCE OPTION:

☐ Prescriptive (IECC / IRC Ch. 11)

☐ Total UA Alternative for Building Envelope (Eg. REScheck)

☐ Simulated Performance Alternative (Eg. REM/Rate)

☐ Pennsylvania Alternative (PA – Alt)

Must meet all provisions marked as "Mandatory" in

IECC 2009 sections 402.4, 403.1, 403.2.2, 403.2.3, 403.3, 403.4, 403.5, 403.6, 403.7, 403.8, and 403.9. (or)

IRC 2009 sections 1102.4, 1103.1, 1103.2.2, 1103.2.3, 1103.3, 1103.4, 1103.5, 1103.6, 1103.7, 1103.8, and 1103.9. (or) provisions in PA - Alternative

BOX 2: DUCT LEAKAGE TESTING OPTIONS

SELECT DUCT LEAKAGE TESTING OPTION (ONLY REQUIRED IF WHOLE OR PART OF HVAC SYSTEM IS IN UNCONDITIONED SPACE):

☐ During rough-in and without air-handler:\_\_\_\_\_cfm/100 sq.ft

☐ During rough-in and with air-handler: \_\_\_\_\_cfm/100 sq.ft

☐ Post-construction total leakage: \_\_\_\_\_cfm/100 sq.ft

☐ Post construction leakage to outside: \_\_\_\_\_cfm / 100 sq.ft

☐ Exception: All ducts and air-handler inside conditioned space

Must meet all mandatory provisions in IECC 2009 Section 403.2.2

Refer to Energy Plan Review and Inspection Form

BOX 3: AIR INFILTRATION VERIFICATION

CHOOSE VERIFICATION OPTION:

☐ Visual Inspection

☐ Blower Door Test

Refer to Air Sealing Verification Form

Must meet all mandatory provisions in IECC 2009 Section 402.4.2

BOX 4: EQUIPMENT SIZING

REQUIRED HVAC INFORMATION:

☐ Manual J heating and cooling load calculation report attached

☐ Manual S equipment sizing report attached

☐ Cooling capacity per Manual S is:\_\_\_\_\_kBtu/h

☐ Proposed cooling capacity is:\_\_\_\_\_kBtu/h

THE PROPOSED COOLING CAPACITY IS:

☐ Less than or equal to 1.15 times Manual S specified size

☐ Equal to the next nominal size

☐ Uses a heat pump with capacity less than or equal to 1.25 times Manual S specified size

Must meet mandatory provisions of IECC 2009 Section 403.6

BOX 5: LIGHTING EFFICIENCY

Total number of permanently installed light fixtures:\_\_\_\_\_

Number of fixtures containing high-efficacy lamps:\_\_\_\_\_

percentage of high-efficacy lamps:\_\_\_\_\_ %

Specify type(s) of high-efficacy lamps used:

☐ CFL

☐ LED

☐ Linear Fluorescent (T-8 or lower diameter)

Refer to IECC 2009 Section 404.

Refer to IECC 2009 Section 202 for high-efficacy lamps definition.

DESIGNED

DRAWN

CHECKED

APPROVED

DATE

JOB

CLASS

ADDRESS

REVISIONS

DESCRIPTION

DATE

CAD DRAWING NAME

DRAWING NO.

SHEET 1 OF 2

WHAT TYPE IS THE TRUSS?

☐ Standard Truss

☐ Raised Heel/Energy Truss

WINDOW CHARACTERISTICS

Max. U-factor: \_\_\_\_\_

Must meet the requirements of IECC 2009 Table 402.1.3

NOTE:

Up to 15 sq.ft of glazed fenestration per dwelling unit is exempt from the U-factor. If more than 15 sq. ft. are greater than U-0.35, the area-weighted average U-factor\* must be equal to or below 0.35.

\* When UA method (e.g. REScheck) is used, the 15 sq.ft. exemption may not be applied in the calculation.

IS THE CANTILEVERED FLOOR INSULATED?

TABLE H: Insulation in cantilevered floor

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

See Sheet 2 - Fig. I for details

TYPICAL ABOVE GRADE EXTERIOR WALLS

TABLE G: Duct Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

UNVENTED CRAWL SPACE WALLS

TABLE F: Crawl space wall insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

See Sheet 2 - Fig. B for details

ARE THERE DUCTS OR ANY PORTION OF THE HVAC SYSTEM LOCATED IN THE CRAWLSPACE?

☐ Yes

☐ No

If yes,

IS THE CRAWLSPACE CONDITIONED?

☐ Yes

☐ No

If No, refer to Box 2 above.

WILL THE HOUSE HAVE ANY SLAB-ON-GRADE THAT HAS A FLOOR SURFACE WITHIN 12" OF GRADE?

☐ Yes

☐ No

If yes, fill Table E3.

DOES THE SLAB INSULATION EXTEND BELOW-GRADE?

☐ Yes

☐ No

See Sheet 2 - Fig. C for details

ARE THERE DUCTS OR ANY PORTION OF THE HVAC SYSTEM LOCATED IN THE BASEMENT?

☐ Yes

☐ No

If yes,

IS THE BASEMENT CONDITIONED?

☐ Yes

☐ No

If Yes, fill Table E3.

If No, refer to Box 2 and fill Tables E1 & E2.

ARE THERE DUCTS OR ANY PORTION OF THE HVAC SYSTEM LOCATED IN THE ATTIC?

☐ Yes

☐ No

If yes,

IS THE ATTIC CONDITIONED?

☐ Yes

☐ No

If No, refer to Box 2 above and fill Table C below.

TABLE C: Duct Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

ARE THERE DUCTS IN EXTERIOR WALLS OR FLOORS?

☐ Yes

☐ No

If yes, refer to Box 2 and fill Table E1

See Sheet 2 - Fig. K for details

ARE THERE DUCTS OR ANY PORTION OF THE HVAC SYSTEM LOCATED IN THE BASEMENT?

☐ Yes

☐ No

TABLE E1: Duct Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

TABLE E2: Floor insulation above basement

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

TABLE E3: Basement Wall Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

IMPORTANT INSTRUCTIONS

The intent of this energy plan set is to collect information that has the highest impact on energy use in a residential building.

1. This plan set is divided into two parts: a) the top ribbon which lists compliance, testing, equipment sizing and lighting efficiency options; and b) the drawing area which has a typical cross-section of a building with call-outs which need to be filled.

2. Corresponding sections in the IECC 2009 code have been referenced.

3. This energy plan template is meant to be a simplified version of the IECC 2009 code provisions and does not cover all requirements (mandatory or prescriptive).

4. If any blank or checkbox does not apply to the project, please write "NA" or "Not Applicable".

5. The code language in this plan is equivalent to the code language in IRC 2009, Chapter 11.

CEILING WITH VENTED ATTIC SPACE ABOVE?

TABLE A: Ceiling Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

See Sheet 2 - Fig. F2 for details

INSULATED ROOFS

Eg. Vaulted / Cathedral Ceilings

TABLE B: Roof Insulation

Insulation R value:\_\_\_\_\_

Insulation Material:\_\_\_\_\_

Insulation Depth: \_\_\_\_\_

See Sheet 2 - Fig. F1 for details

ATTIC

CANTILEVER FLOOR

SECOND FLOOR

FIRST FLOOR

UNCONDITIONED GARAGE

BASEMENT

SLAB-ON-GRADE

GRADE LINE

CRAWLSPACE

☐ VENTED

☐ UNVENTED

RESIDENTIAL ENERGY CODE PLAN SET

TEMPLATE DEVELOPED BY PERFORMANCE SYSTEMS DEVELOPMENT

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