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ENERGY CODE CHECKLIST FOR RESIDENTIAL CONSTRUCTION

(Required for all new residential buildings, additions, and other residential building permits as applicable)

The Commonwealth of Kentucky now requires the 2009 International Energy Conservation Code (IECC) be the energy code for all residential construction in Kentucky. The code sections are from Chapter 4 in the 2009 IECC.

Pro	ject Address:	ermit #					
Ow	ner/Agent:	Checked by					
Phone: Email: Do			Date				
Project Type: ☐ New Building ☐ A (Check one)		☐ Addition ☐ Renovation	Лethod				
		Required Documentation with Permit	<u>Submittal</u>				
1.							
 Prescriptive (402.1 through 402.3, 403.2.1 & 404.1 & mandatory requirements) USE THIS FORM (#1,2,3,4,5,6 □ Trade Off (402.1 through 402.3, 403.2.1 & 404.1 & mandatory requirements) USE THIS FORM (#1,2,3,4,6) and attach documentation to show compliance (i.s. REScheck must include compliance form, inspection checklist and certificate: www.energycodes.gov/REScheckit's easy and free) □ Performance (405 and mandatory requirements) USE THIS FORM (#1,2,3,4) Mandatory Requirements - All projects must meet the mandatory requirements of the IECC (401, 402.4, 402.5, 403.1, 403.2.2, 403.2.3, 403.9). COMPLETE ALL ITEMS (A through Q) 							
A.	Building Thermal Envelope 403	2.4.1 Seal building from air infiltration	☐ Will Comply				
В.	Air Sealing and Insulation 404.	4.2 Choose one method	☐ Blower Door ☐ Visual Insp				
C.	Fireplaces 402.3 Wood burnin	☐ Will Comply ☐ N/A					
D.	Fenestration Air Leakage 402.4	□ = 0.3 cfm/sf</td					
E.	Fenestration Air Leakage 402.4	4.4 Swinging Doors	□ = 0.5cfm/sf</td				
F.	Recessed Lighting 402.4.5 IC R	ated and air tight when in thermal envelope	☐ Will Comply ☐ N/A				
G.	Heating/Cooling Controls 403.	1 Programmable t-stat for HVAC	☐ Will Comply ☐ N/A				
Н.	Duct Sealing 403.2 Required if	furnace/dust is outside of thermal envelope	☐ Will Comply ☐ N/A				
1.	Duct Testing 403.2.2 Required	if furnace/duct is outside of thermal envelope	☐ Test 1 ☐ Test 2 ☐ N/A				
J.	Building Cavities 403.2.3 Bldg	framing cavities shall not be used as supply ducts	☐ Will Comply ☐ N/A				
K.		ulation 403.3 R-3 Min for <105 deg or <55 deg	☐ Will Comply ☐ N/A				
L.	Circulating Hot Water System		☐ Will Comply ☐ N/A				
M.		Outdoor air intakes/exhaust require dampers	☐ Will Comply ☐ N/A				
N.	Equipment Sizing 403.6 HVAC		☐ Will Comply ☐ N/A				
0.		ling units 403.7 shall comply w/ Chapters 503 & 5					
P.	Snow Melt System Controls 40		☐ Will Comply ☐ N/A				
——	-	e Switches, Pool Covers	☐ Will Comply ☐ N/A				

- 3. <u>Building Cross Section</u> Required for all new buildings and additions. Additional documents may be required by the building official. Minimum (1) section required. For interior alterations include documents to illustrate code compliance.
- 4. <u>Floor Plan</u> –Required for all new buildings and additions. Floor plan must indicate thermal envelope, conditioned space/unconditioned spaces and heating system location.
- 5. <u>Prescriptive Requirements</u> –COMPLETE THIS TABLE, if prescriptive is chosen:

Building Components	Prescriptive Standard	Actual Value	Remarks						
Insulation 402.2 Prescriptive Standard is Minimum R-Value									
Ceilings with attic spaces 402.2.1	R-38		R-38 for standard truss						
Ceilings without attic spaces			Limited to 500sf or 20% of						
402.2.2	R-30		total insulated ceiling area, whichever is less						
Wood Frame Wall	R-13		R-13 for interior cavity						
Floors over unconditioned space 402.26	R-19		Floor Insulation shall maintain permanent contact with subfloor						
Basement Walls 402.2.7	R-10 / R-13		R-10 continuous on the interior or exterior or R-13						
			for interior wall cavity						
Slab-On-Grade Floors 402.2.8	R-10		Insulation depth shall be the depth of the footing						
Crawl Space Walls 402.2.9	R-10 / R-13		R-10 continuous on the interior or exterior or R-13 for interior wall cavity						
Fenestration 402.3 Prescriptive Star	ndard is Maximum U-Factor								
Windows, Sliding Glass Doors, Swinging doors with 50% glazing	U-0.35		An area weighted average may be used to satisfy the						
Skylights			U-factor requirements but must include all windows,						
	U-0.60		skylight, glass doors & opaque doors. Provide documentation if this used.						

The above table is based on wood frame construction and common building practices. If not address in the table above, please attach separate documentation to illustrate code compliance. Value based on Climate Zone 4 from Chapter 3 I the IECC

6. Other Prescriptive Requirements:

Duct Compliance 403.2.1 Supply Ducts in attic R-8min, all other ducts outside	☐ Will Comply	□ N/A
envelope R-6 min		
Lighting Equipment 404.1 A minimum of 50% of lamps permanently installed must	☐ Will Comply	□ N/A
Be high efficiency		

Notes:

- For further clarification on any of the above items, please consult the International Conservation Code (IECC). The IECC may be purchased through the International Code Council at www.icsafe.org or 1-88-ICC-SAFE
- For thermally isolated sunroom (greater than 40% glazing area of walls and roof) addition, refer to the IECC.
- For free, updated energy references, energy training and energy code info, visit www.energycodes.goc