

AN ORDINANCE AMENDING CHAPTER 6, ARTICLE III SECTION 6-65 OF THE CUBA CITY CODE RELATING TO THE ENERGY CONSERVATION CODE

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF CUBA, MISSOURI, TO-WIT:

SECTION 1. That Chapter Six Article III Section 6-65 of the Municipal Code of the City of Cuba is hereby amended and the 2009 international Energy Conservation Code is adopted with a new sub-section is hereby established 6-65(C) and the following is added thereof:

SECTION 6-65 (C): INTERNATIONAL ENERGY CONSERVATION CODE ADOPTION

An ordinance of the City of Cuba adopting the 2009 International Energy Conservation Code.

1. The City of Cuba, by and through its Board of Aldermen, had determined that the Energy Codes of the City of Cuba need to be updated so as to promote the health, safety and welfare of the citizens of Cuba, Missouri, and
2. Section 67.280, RSMo., allows cities to incorporate by reference to certain technical codes.

6-65 (C)(a): CERTAIN DOCUMENTS

Three (3) copies of the 2009 International Energy Conservation Code are on file with the City Clerk of the City of Cuba, Missouri, at City Hall, 210 West Washington, Cuba, Missouri 63080 and are hereby adopted by reference and made a part of the Code of Ordinances as fully as if set forth in its entirety.

6-65 (C)(b): AMENDMENTS

Chapter 5 Commercial Energy Efficiency

Section 501 General

501.1 Scope. The requirements contained in this chapter are applicable to commercial buildings, or portions of commercial buildings. These commercial buildings shall meet the requirements contained in this chapter.

501.2 Application. Delete this section

502.1 Building Envelope Requirements General

502.1.1 Insulation and fenestration criteria. The building thermal envelope shall meet the requirements of Table 502.2(1) based on the climate zone #4. Commercial buildings or portions of commercial buildings enclosing Group R occupancies shall use the R-values from the A Group R@ column of this table. Commercial buildings or portions of commercial buildings

enclosing occupancies other than Group R shall use the R-values from the All other column of the table.

Delete the remaining sections and tables of this code

COMMERCIAL ENERGY EFFICIENCY

TABLE 502.2(1) BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES

CLIMATE ZONE	1		2		3		4		5		6		7		8	
	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
Insulation entirely above deck	R-15ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-25ci	R-25ci	R-25ci
Metal buildings (with R-5 thermal blocks ^{a,b})	R-19	R-19 R-13	R-13+ R-13	R-13+ R-13	R-19	R-19	R-13+ R-13	R-19	R-13+ R-13	R-19	R-13+ R-19	R-19	R-19	R-19+ R-10	R-19+ R-10	R-19+ R-10
Attic and other	R-30	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-40	R-49
Roofs																
Walls, Above Grade																
Mass	NR	R-5.7ci ^c	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci
Metal building ^b	R-16	R-16	R-16	R-19	R-19	R-19	R-19	R-19	R-13+ R-5.6ci	R-13+ R-5.6ci	R-13+ R-5.6ci	R-13+ R-5.6ci	R-19+ R-5.6ci	R-19+ R-5.6ci	R-19+ R-5.6ci	R-19+ R-5.6ci
Metal framed	R-13	R-13	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci	R-13+ 7.5ci
Wood framed and other	R-13	R-13	R-13	R-13	R-13	R-13	R-13	R-13	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci	R-13+ R-3.8ci
Walls, Below Grade																
Below grade wall ^d	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mass	NR	R-6.3ci	R-8.3ci	R-8.3ci	R-10ci	R-10ci	R-10.4ci	R-10.4ci	R-12.5ci	R-12.5ci	R-14.6ci	R-14.6ci	R-15ci	R-16.7ci	R-16.7ci	R-16.7ci
Joist/Framing (steel/wood)	NR	NR	R-19	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30
Slab-on-Grade Floors																
Unheated slabs	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Heated slabs	R-7.5 for 12 in. below	R-7.5 for 12 in. below	R-7.5 for 12 in. below	R-10 for 24 in. below	R-10 for 24 in. below	R-10 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-20 for 48 in. below
Opaque doors	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.70	U-0.50
Swinging	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-0.50
Roll-up or sliding	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-1.45	U-0.50

For SI: 1 inch = 25.4 mm.
 ci = Continuous insulation, NR = No requirement.
 a. When using R-value compliance method, a thermal spacer block is required, otherwise use the U-factor compliance method. (see Tables 502.1.2 and 502.2(2)).
 b. Assembly descriptions can be found in Table 502.2(2).
 c. R-5.7 ci is allowed to be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in/ft²-R²-H.
 d. When heated slabs are placed below grade, below-grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.
 e. Steel floor joist systems shall be R-38.

SECTION 2. This ordinance shall be in full force and effect from and after its passage and approval.

PASSED AND APPROVED THIS _____TH DAY OF _____, 2020.

CODY LEATHERS, MAYOR

Attest:

CHRISTINE NASH, CITY CLERK

(City Seal)

Approved as to the form.
WILLIAMS, ROBINSON, RIGLER & BUSCHJOST, P.C.

By: _____

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ATTORNEYS FOR THE CITY OF CUBA, MISSOURI

Alderman	Vote on First Reading On _____, 2020	Vote on Second Reading On _____, 2020
Kevin Copling		
Sam Black		
Debbie Martin		
Warren Graddy		
Curtis Holt		
Jeff Bouse		