



BUILDING DEPARTMENT CITY OF CAÑON CITY

2018 Building Code Meeting
January 15, 2020



Building Department

Timeline for the adoption of the 2018 International Code.

January 1, 2020 - June 1, 2020 Kathy and CCC to review the proposed codes and provide possible amendments.

International Building Code
International Residential Code
International Energy Conservation Code
International Mechanical Code
International Fuel Gas Code
International Existing Building Code
International Swimming Pool and Spa Code
International Property Maintenance Code

January through July 2020 have on going meeting's with Contractors & Public to discuss code changes and amendments.

June 2020 – September 2020.

Work with City Attorney's to draft the ordinance for the adoption of the 2018 International Codes.

2018 BLDG. CODE

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Building Department

Timeline for the adoption of the 2018 International Code.

August 2020.

General Government Committee Meeting.

September 2020.

- **General Government Committee Meeting.**
- **Meeting with Contractors and Public to go over what changes have been made in the adoption ordinance.**

October 2020 – November 2020.

Adoption of the ordinance through Council approval.

January 1, 2021.

Effective date of the 2018 Code adoption.

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Building Department

Cost increase from 2006 International Energy Conservation Code to the 2018 edition.

Table 4. Average Residential Added Cost \$

	Moving to This IECC Version		
	2009	2012	2015
Moving from this IECC Version			
2006	\$833	\$2,430	\$4,028
2009		\$1,597	\$1,583
2012			Negligible

It would be a 1% increase from 2015 to 2018 an additional amount of 40.00. In summary, it looks like the total incremental cost is about \$4068 from 2006 to 2018 for a 2400 square foot residential building.

The above figures were provided by the Department of Energy.



Building Department

New major changes in the 2018 IECC.

Three different ways of compliance:

Prescriptive

Performance

ERI (Energy Rating Index)(RESNET/ICC)

Mandatory requirements regardless of compliance path:

Air Leakage Testing (Blower Door Test)

Controls (Programmable Thermostat)

Duct Tightness and Testing when ducts are not located within the Thermal Envelope

No Framing cavities used for ducts or plenums

Mechanical System piping insulation

Whole House Mechanical Ventilation

Manual J, S & D



Building Department

Cañon City is Climate Zone 5 under the 2006 IECC and Climate Zone 5B under the 2018 IECC.

Fenestration and Insulation changes from the 2006 to 2018.

2006										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR (b)	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE _c	SLAB R-VALUE & DEPTH _d	CRAWL SPACE WALL R-VALUE _c
5 and										
Marine 4	0.35	0.60	NR	38	19 or I3 +5g	I3	30f	10/I3	10, 2 ft	10/I3
2018										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR (b)	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE _c	SLAB R-VALUE & DEPTH _d	CRAWL SPACE WALL R-VALUE _c
5 and										
Marine 4	0.30	0.55	NR	49	20 or I3 +5h	I3/I7	30g	15/I9	10, 2 ft	15/I9



Building Department

Timeline for complete implementation of the 2018 IECC.

- The adoption of the 2018 Code will take effect January 1, 2021.
- Work as a team Building Department & Contractors to work out any new IECC requirements by September 30, 2021. Education classes, residential plan review and on the job site during inspections. Must be in compliance to the 2006 IECC during this period.
- By October 1, 2021 must be in compliance with all requirements of the 2018 IECC.

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Residential Sprinkler Systems.

- **Single Family Dwelling that is 5000 S.F. building or less in area, including above and below grade with garage area, a fire suppression system would not be required.**
- **Each dwelling unit of a Two Family Dwelling Unit (Duplex) 2500 S.F. building or less in area, including above and below grade with garage area, a fire suppression system would not be required.**
- **Building with three Unit Townhouse with each unit having no more than 2500 S.F. building or less in area, including above and below grade with garage area, a fire suppression system would not be required.**



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What reason for the update of the codes.

- ISO Rating.
- Many more updated alternatives for materials, design and method of construction.
- More options become available for different occupancies.
 1. Live/Work units.
 2. Owner-Occupied lodging houses with five or fewer guest rooms.
 3. Home Day Care in a R-3 Occupancy.
- Tiny Houses a dwelling that is 400 square foot or less.
- Proposed State Legislation.
- Engineers/Architect do not like to draw plans to older codes, they prefer to use newer code additions.



QUESTIONS ?

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