



**Building Regulation Bylaw No. 7230,
Amendment Bylaw No. 10365
(Energy Step Code requirements)**

The Council of the City of Richmond, in open meeting assembled, enacts as follows:

1. *Building Regulation Bylaw No. 7230*, as amended, is further amended by replacing the table in Section 10.1.1 with the following table:

<i>Buildings subject to Part 9 of the Building Code</i>			
Building Type	Building permit application filed on or after September 1, 2018	Building permit application filed on or after December 15, 2020	Building permit application filed on or after July 1, 2022
Townhomes and apartments	Step 3	Step 3 OR Step 2 for buildings that implement a low carbon building energy system.	Step 5 OR Step 4 for buildings that comply with the building envelope performance requirement using absolute metrics OR Step 3 for buildings that comply with the building envelope performance requirement using absolute metrics , and that implement a low carbon building energy system.
Single family, duplex and other dwelling units	Step 1		

<i>Buildings subject to Part 3 of the Building Code</i>			
Building Type	Building permit application filed on or after September 1, 2018	Building permit application filed on or after December 15, 2020	Building permit application filed on or after July 1, 2022
Hotels and Motels	n.a.	Step 3 OR Step 2 for buildings that implement a low carbon building energy system.	Step 3 OR Step 2 for buildings that implement a low carbon building energy system.
Other Group C Residential occupancies greater than 6 stories or non-combustible construction (not including hotel and motel occupancies)	Step 3 OR Step 2 for buildings that implement a low carbon building energy system.		Step 3 OR Step 2 for buildings that implement a low carbon building energy system.
Other Group C Residential occupancies 6 stories or less and combustible construction (not including hotel and motel occupancies)	Step 3		Step 4 OR Step 3 for buildings that implement a low carbon building energy system.
Group D Business and personal services occupancies or Group E mercantile occupancies	Step 2		Step 3 OR Step 2 for buildings that implement a low carbon building energy system.

2. *Building Regulation Bylaw No. 7230*, as amended, is further amended at Section 16.1 by adding the following definitions in alphabetical order:

ABSOLUTE METRICS

means:

- a) the thermal energy demand intensity listed under the "Performance Requirement of Building Envelope" column of Table 9.36.6.3.A in the British Columbia Building Code, or
- b) the thermal energy demand intensity requirement calculated using the formula in Sentence 4 of Section 9.36.6.3 in the British Columbia Building Code.

BUILDING ENERGY USE

means the total modelled annual energy requirements of an occupied building, including space heating, cooling, hot water heating, ventilation, appliances and electrical plug loads.

**BUILDING ENVELOPE
PERFORMANCE REQUIREMENT**

means the requirements listed under the "Performance Requirement of Building Envelope" column of Table 9.36.6.3.A in the British Columbia Building Code.

3. *Building Regulation Bylaw No. 7230*, as amended, is further amended at Section 16.1 by removing the definition of "Low Carbon Building Energy System" and replacing it with:

**LOW CARBON BUILDING
ENERGY SYSTEM**

means:

- a) for buildings subject to Part 3 of the Building Code, a building's space heating, cooling and domestic hot water heating mechanical system that is supplied energy through:
 - (i) a connection to a district energy utility system owned by the City or a corporate subsidiary of the City; or
 - (ii) on-site energy supply equipment designed to meet a minimum 70% of each of the building's A) annual heating demand, B) annual cooling demand, and C) domestic hot water energy demand, from a renewable energy source, approved by the City's General Manager of Engineering and Public Works. Applicable renewable energy source technologies include, but are not limited to, air and ground source heat pump systems, waste heat recovery systems, solar collectors, or other systems as approved by the City's General Manager of Engineering and Public Works. The building's energy system must be designed and constructed such that it is ready to connect to a future district energy utility system owned by the City or a corporate subsidiary of the City. For sites outside district energy utility service areas and the City Centre Area (as defined in Bylaw No. 9000, Official Community Plan), the City's General Manager of Engineering and Public Works may exempt the building's energy system from the requirement to be ready to connect to a future district energy utility system.
- b) for buildings subject to Part 9 of the Building Code, annual GHG emissions from building energy use, per metre of conditioned floor space, of no more than the amount defined below:

	Submission date of complete Building Permit Application	
	On or after December 15, 2020, and before July 1, 2022	On or after July 1, 2022
Part 9 Residential buildings	1200 kg CO ₂ e per dwelling unit per year OR no more than 6 kg CO ₂ e per spare meter of conditioned floor space per year	440 kg CO ₂ e per dwelling unit per year OR no more than 2.5 kg CO ₂ e per spare meter of conditioned floor space per year, <u>and</u> no more than 800 kg CO ₂ e per dwelling unit per year

4. This Bylaw may be cited as “**Building Regulation Bylaw No. 7230, Amendment Bylaw No. 10365**”.

FIRST READING

SECOND READING

THIRD READING

ADOPTED

JUN 13 2022

JUL 11 2022

JUL 11 2022



MAYOR

CORPORATE OFFICER