

Service Water Heaters (Commercial Only)

Water heating equipment, hot water supply boilers used solely for heating potable water and hot water storage tanks shall meet the minimum efficiency values in:

- ➔ CSA C745-03
- ➔ CAN/CSA-P.3-2004
- ➔ ANSI Z21.10.3-2004/CSA 4.3-2004
- ➔ CAN/CSA-B211-00

Domestic hot water heating piping shall be insulated in accordance with Table 10.3.4.5 of the Nova Scotia Building Code Regulations:

- ➔ Recirculating system piping
- ➔ Located within the first 2.5m of outlet piping in a constant temperature non-recirculating storage system
- ➔ An inlet pipe located between the storage tank and a heat trap in a non-recirculating storage system
- ➔ A pipe that is extremely heated by methods such as a heat trace or impedance heating

Lighting (Commercial Only)

All newly constructed or renovated commercial buildings under 3 stories in height and 600m² in area are required to meet the New Energy Efficiency design for lighting.

Interior Lighting Power Densities	
Building Area Type	Lighting Power Density, W/m ²
Automotive Facility	10
Fast Food	15
Health Care Clinic	11
Manufacturing Facility	14
Office	11
Parking Garage	3
Retail	16
Warehouse	9

For a complete list of commercial buildings
See Table 10.3.4.8 of the Nova Scotia
Building Code Regulations

Motors (Commercial Only)

Electric motors shall conform to the Nova Scotia Energy Efficient Appliance Act, based on CSA-C390-M. (See Appendix Note A-10.3.4.12 of the Nova Scotia Building Code Regulations)

Required Inspections

Required Inspections in accordance with Section 2.1.1.11(1) Nova Scotia Building Code Regulations 2009 as follows:

- Footings Stage (Prior to Foundation Installation)
Note: Location Certificate Required if you have received a footing permit before continuing on
- Foundation Stage (Prior to Backfill)
- Subfloor Plumbing Stage - Prior to Covering Pipes
- Subfloor Insulation & Foundation Insulation Stage
- General Framing Stage
Note: Plumbing, Chimneys & Mechanical/Ventilation systems must be installed
Note: Electrical rough-in complete and approved
- Insulation & Vapour Barrier Stage

Note: All above stages that are pertinent to your project must be completed for Final Inspection
- Prior to Occupancy Stage

For More Information


Municipality of the County of Kings

Senior Building/Fire Inspector
Richard Corkum
Phone: 690-6123
Email: rcorkum@county.kings.ns.ca

Field Inspectors

Keith Fraser—Central Area
Phone: 690-6140
Charlie Crocker—West End
Phone: 690-6103
Don Burns—East End
Phone: 690-6198



For a complete copy of the Nova Scotia Building Code Regulations Visit:
 Nova Scotia Department of Labour and Workforce Development
<http://www.gov.ns.ca/lwd/buildingcode/docs/NSBuildingCodeAct.pdf>

Effective January 1, 2010

Municipality of the County of Kings

National Building Code Part 10 Changes Energy Efficiency



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Photo Source: <http://www.cnbc.com/id/27435150>
Consumer News and Business Channel

MUNICIPALITY OF THE COUNTY OF KINGS

Introduction

The Nova Scotia Building Code Regulations (NSBCR) have been amended to adopt energy and water conservation measures for the first time. Effective January 1, 2010 these changes will be in place. The amendments are a step towards achieving the goals established in 2007 when the Environmental Goals and Sustainable Prosperity Act was enacted to introduce energy conservation measures. Changes will apply to all new construction, including additions to existing structures. To meet the intent of the Nova Scotia Building Code there are three paths to compliance:

- Prescriptive Path (Code)
- Design Path (Engineer or Architect)
- Performance Path
 - R-2000
 - Energide 80 for New Homes

Impacts on the Home Owner

- ➔ Increased insulation requirements
- ➔ More detailed plans
- ➔ Window specs required at time of application
- ➔ Low flow plumbing fixtures
- ➔ Additional inspections

Exemptions

The following building types are exempt from these changes:

- ➔ Farm Buildings
- ➔ Seasonal buildings - including unheated detached garages
- ➔ Buildings intended primarily for 1) manufacturing , 2) commercial or 3) industrial processing
- ➔ Provincial and Municipal Registered Heritage buildings under the Heritage Property Act

Door/Window Efficiency Enerstar Ratings

All new windows and doors must meet specified thermal requirements:

- Windows -CAN/CSA-A440.2
- Doors (wood) - CAN/CSA-0132-2
- Doors (steel) - CAN/CGSB-82-5-M88

This requirement must be met for all new construction, additions and renovations.

Insulation R Value

All walls, ceilings, floors, windows and doors that separate heated space from unheated space, the exterior air or the exterior soil shall meet thermal resistance requirements.

Minimum Thermal Resistance of Insulation to be Installed		
	Building Element Exposed to the Exterior or to Unheated Space	Minimum RSI [R] Values Required
1	Ceiling below attic or roof space	7.00 [40]
2	Roof assembly without attic or roof space	5.46 [31]
3	Wall other than foundation wall [including walls between heated and unheated spaces]	4.23 [24]
4	ICF wall above grade	3.75 [21.3]
5	IFC wall below grade enclosing heated space [full height insulation]	3.75 [21.3]
6	Foundation walls enclosing heated space [full height insulation]	3.52 [20]
7	Floors over unheated spaces including Overhanging [cantilevered] Floors	5.46 [31]
8	Floor joist header space	4.23 [24]
9	Frost wall (with slab on ground)	1.76 [10]
10	Slab on ground perimeter insulation (see Sentence 10.3.3.8.(1))	1.76 [10]
11	Under slab on ground containing heating pipes, tubes, ducts or cables	1.76 [10]
12	Under slab on ground not containing heating pipes, tubes, ducts or cables	1.76 [10]
13	Basement floor slabs located not more than 1m below grade	1.76 [10]
14	Basement floor slabs located more than 1 m below grade	nil

See Table 10.3.2.1of the Nova Scotia Building Code Regulations



Residential Furnace Efficiencies

A Furnace Efficiency Test will be required with the results submitted to the Building Inspector. These results are a requirement prior to an occupancy permit being issued.

Space-Heating and Domestic Hot Water Appliances Minimum Annual Fuel Utilization Efficiency	
Source	Efficiency Requirement
Propane	90%
Natural Gas	90%
Oil - Hot Air	85%
Oil - Hot Water	85%

See Table 10.3.1.2 of the Nova Scotia Building Code Regulations

Water Conservation

All new construction including additions, must meet low flow standards by installing low flow fixtures and low flush fixtures. Manufacturers specifications will be required prior to an Occupancy Permit being issued. The onus will be on the applicant to meet the standards.

Maximum Flow Rates for Water Supply Fittings		
Fitting	Maximum Flow, L/min	Test Pressure, kPa
Lavatory Faucet	8.35	413
Kitchen Faucet	8.35	413
Shower Heads	9.5	550

See Table 2.6.4.1 of the Nova Scotia Building Code Regulations

Maximum Flush Cycles for Sanitary Fixtures	
Fixture	Litres
Water Closet (Tank Type)	6
Water Closet (Direct Flush)	6
Urinal (Tank Type)	3.8(1)
Urinal (Direct Flush)	3.8(1)

See Table 2.6.4.2.B of the Nova Scotia Building Code Regulations