

Permit #:	
Issue Date:	
Fee Paid: _	
Check #:	

COMMERCIAL

PROPERTY (OWNER(S)					
Name:	•	,					
Address:							
Tel.#:			Email:				
APPLICATIO	N INFOR	RMATION			Same as Owner	Yes	No
Name:							
Address:							
Tel.#:			Email:				
PROPERTY I	NFORM	ATION	-				
911 address							
Tax Map and			, Al 16	_ Size:	acres		
Is the proper	ty on a p	ublic road? Y	es No If n	ot, how is it ac	cessed?		
Zoning Distri	ict l	R1 R2	Conservation	Commercial	/Industrial		
•		mit number (if need	•	_			
	•	Groundwater Prote		Yes	No		
		within 50 feet of a		Yes _	No		
is any propo	sed work	within a Flood Ha	zard Area?	Yes	No		
PROJECT DE	ESCRIPT	ION: Please descr	ibe the work you want	t to do:			
PROPOSED	USE						
What is the	property	used for now?					
	ant	Business	Single Family	Reside	ence and Business		
Du	plex	Agricultural	Multi Family	Other			
•			property be chan	•			_
		•	nge the use of the p				
			will change the use	of the property	/ :		
		build on vacant lan					
We	want to	add a business us	е				
Have you be	een appr	oved by the Plan	ning Board for Site	Plan?	Yes; Date	No	N/A

CODE & PERMIT INFORMATION

IBC Building Code as adopted by the State of NH

Applicable Building Codes adopted by the State of NH:

National Electric Code International Plumbing Code NFPA 101 Life Safety Code	
> BUILDING CONTRACTOR:	
Business Name:	
Address:	
➤ ELECTRICAL/PLUMBING: State law requires a master plumber and electrician for all work unless you the structure. Multifamily and rental housing requires master electrician and plumber for all work	ou own and live in
Electrical Contractor Separate Form Required	None:
Your Electrical Contractor is required to file an application form with the Town of Northfield for this project available at Town Hall or at www.northfieldnh.org A copy of your electrical contractor's approved application.	
Plumbing Contractor Separate Form Required	None:
Your plumbing contractor is required to file an application form with the Town of Northfield for this project available at Town Hall or at www.northfieldnh.org A copy of your plumbing contractor's approved application.	
> SEPTIC SYSTEM: Approvals must be obtained from the NH Dept. of Environmental Services. If you a bedrooms to your home you may have to enlarge your septic system if it was not built to accommodate bedrooms.	•
Septic Design Approval #:	None:
> SMOKE (HEAT) DETECTORS: Shall be installed in each bedroom, outside each separate sleeping an level of the dwelling, including basements.	rea and on every
> NH ENERGY CODE APPROVAL: Separate Form Required Required for all new homes and "Living Space Additions". Approval form (EC-1) can be obtained from the Building Inspector.	Northfield
> NATURAL GAS/PROPANE CONTRACTOR Separate Permit Required	None:
A permit from the Tilton Northfield Fire Department is required for gas or oil burners. A copy of your apprinstall a gas/oil burner must be filed with your building permit application.	oved permit to
> OIL CONTRACTOR Separate Permit Required	None:
A permit from the Tilton Northfield Fire Department is required for gas or oil burners. A copy of your apprinstall a gas/oil burner must be filed with your building permit application.	oved permit to
DRIVEWAY/ROAD ACCESS Separate Permit Required Will you be building a new driveway or improving an existing driveway? Yes No	

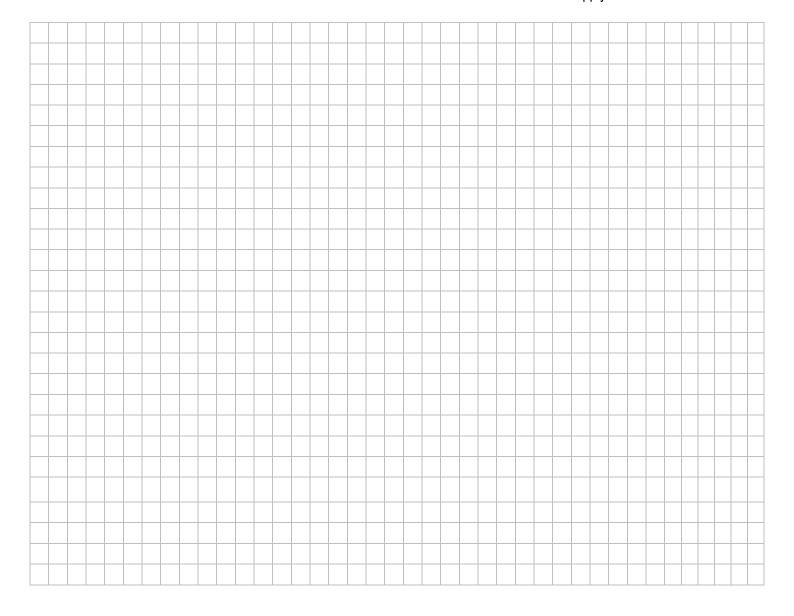
A copy of your road access permit application must be filed with your building permit application.

Estimated cost of project: \$	Estimated completion	date:	
SETBACKS	Existing I	Proposed	
How far back is the construction from the front property line	ft	ft	
How far back is the construction from the rear property line	ft	 ft	
How far back is the construction from the side property line	ft	ft	
How far back is the construction from the side property line	ft	ft	
The footprint of my existing building will not change, nor am I a	adding a new building		

SKETCH

If your proposal includes any new construction your application needs to include a sketch that shows the following:

- a. Boundaries of your lot
- b. Names of streets or roads abutting the property
- c. Location of all buildings on the lot
- d. Dimensions of existing and proposed structures
- e. Distance between existing and proposed structures and property lines
- f. Location of wetlands
- g. Location of septic tank and leach field
- h. Location of well or water supply





■ Before you sign your application:

- Have you answered all the guestions?
- Does your sketch include all requested information?
- ➤ Do you have all necessary attachments? (If Applicable)

Plumbing Contractor Application Electrical Contractor Application Septic Plan from State of NH Driveway Permit Natural Gas/Propane/Oil Permit from TNFD

➤ Have you included the Building Design Plans stamped by a NH Registered Design Professional?

I request a permit for the project described in this application and grant town official's permission to access my property for inspection purposes related to this project. I understand that any misrepresentation in this application, intentional or not, will invalidate approval. I am aware that my building permit will expire if work has not begun within six months or if construction activity ceases. I agree to follow building code requirements and the town ordinance and regulations.

Applicant Signature:			_ Date	
Land Owner Signature:				
Application Fees:				
New Structure	\$0.20/sq.ft.; \$750 min	х	Sq. Ft.	
Addition	\$0.20/sq.ft.; \$300 min	х	Sq. Ft.	
New Accessory Structure	\$0.20/sq.ft.; \$300 min	х	Sq. Ft.	
Interior / Exterior Renovation	\$0.20/sq.ft.; \$300 min	х	Sq. Ft.	

- Alteration/Additions made during construction will be reviewed and may be subject to additional fees.
- · Fees are due when application is filed
- After the fact building permit fees double

		Office Use Only		
Date Received:	Received by	: Amount paid:	Check No.:	
Comments:				
Approved as submi	tted Denied	Permit Number:		
Approved with cond	litions:			
Code Enforcement Office	er:	Date:		
Inspections:				
Date:	What was inspected:			
Notes:				
Notes				
Notes:				

Town of Northfield

Energy Code Application
for Certification of Compliance for New Construction, Additions and/or Renovations

PROPERTY OWNER	Type of Construction:
Name:	Residential Small Commercial
Mailing Address:	New Building Renovation Addition
Tel. #	Thermally Isolated Sunroom
Email:	Modular Home:
BUILDER	The site contractor must submit this form detailing
Name	supplementary rooms and floor and/or basement insulation unless the floor insulation is installed or provided by the
Mailing Address:	manufacturer and no heated space is added.
Tel. #	
Email:	Total New Conditioned * Floor Area: ft ²
GENERAL CONTRACTOR Name	Basement or Crawl Space:
	(*a conditioned space is one being heated or cooled, containing un- insulated ducts or with a fixed opening into a conditioned space. Walls
Mailing Address:	must be insulated) Conditioned 2 Veg (Melle must be insulted)
Tel. #	Conditioned? Yes (Walls must be insulted) No Full Basement Walk Out Basement
Email:	
PROPERTY INFORMATION	Slab on Grade Other
911 address:	Form Culturalities have
Tax Map and Lot Number:	Form Submitted by: Owner Builder Designer Other
Heating System: (if new system is being installed)	Architects must certify plans meet code; no form required
Annual Fuel Use Efficiency (AFUE):%	
Fuel Type(s): Oil Natural Gas Propane (LP)	
Electric Wood Other	OFFICE USE ONLY
Heating System Type:	Date Complete Application Received:
Hot Water Hot Air Stove	Approved by:
Resistance Heat Pump Geothermal	Date:
Structure is EXEMPT because:	Approval Number.
Mobile Home On an historic register	
Low energy use (less than 1 watt/ ft²	
I hereby certify that all the information contained in this application respects with the terms and specifications of the approval given by	• •
Signature: Print Name:	Date:

Directions: Complete the "Your Proposed Structure" columns. No measurements or calculations are needed. If you at least meet the NH Energy Code requirements, your project will be approved. Write N/A in any section that does not apply to your project. If your planned structure cannot meet these requirements, consider downloading REScheck from http://www.energycodes.gov/rescheck/download.stm and use trade-offs to prove compliance.

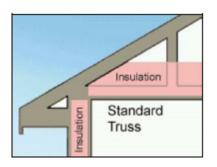
You are encouraged to build with higher R-values and lower U-values than you report here. The "Required R or U Values" are the worst permitted in NH.

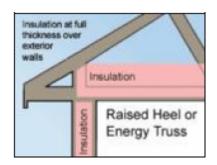
			YO	UR PROPOSED STRUCTURE
Building Section	Required R or U Values		Write Planned R	Brands / Models / Insulation type and
Window U Factor	U .35 (maximum)		and U Values	Thickness (if known)
(lower U is better)	U32 (if log walls in Zone 5)		Write in U-Value	Check if
(lower o lo bottor)	U30 (if log walls in Zone 6)			□ Sunroom
	U .50 (Thermally Isolated Sunrooms only)			☐ Log Walls
Skylights	U .60	COINC CINY)		-
Flat Ceiling i	Insulation at h Trochreas over extend wells	Insulation S Raised Heel or	Write in R-Value	Note: R-38 will be deemed to satisfy the requirement for R-49 if the full R-38 insulation value is maintained over the outside plates. If using only R-
Flat Ceiling with	Truss	Energy Truss		30 (Zone 5) or R-38 (Zone 6), you must certify that you'll maintain R-38 over the plates by checking the box below.
raised or energy	R-38 (Zone 5) R-30 (Z			
trusses R-Value		Zone 6) If	If using only R-30 (Zone 5) or R-38	☐ By checking this box, I certify that this structure is
		ning the full R	(Zone 6) you must	being built with a raised energy truss or that the full R- value of the ceiling insulation will be maintained
		ver the plates log walls	check this box	over the outside plates.
Sloped	R-30 (Zone 5 & 6) or 38 if more		Write in R-Value	Check if
or	sq <i>or</i> 20% of total ceiling area (Write iii ix-value	Sunroom
Cathedral Ceiling	R-24 (Thermally Isolated Sunroom only)			
Above Grade Wall ii	R-20 Cavity Insulation only <i>or</i>			
R-value	R-13 plus R-5 Cavity plus Continuous			
	Insulation			
	R-13 (Thermally Isolated Sunrooms only)			
Door U-Value	U .35 (maximum)		Write in U-Value	
Floor R Value	R-19 or		Write in R-Value	
(Basement ceiling)	Insulation sufficient to fill joist c	avity		If conditioning the basement you must insulate
Basement or Crawl	R-13 Cavity Insulation or		Write in R-Value	Basement Walls. If not, you may insulate either
Space Wall R Value	R-10 Continuous Insulations (Z	Zone 5)		Floor or Basement Walls and/or Slab Edge
	R-19 Cavity Insulation or			_
	R-15 Continuous Insulation (Zone 6)			
Slab Edge ⁱⁱⁱ	R-10 2' (Zone 5) 4' (Zone 6)		Write in R-Value	Check if
R Value	(See drawing page 3)	5.45		☐ Heated Slab
	And R-5 if the slab is heated or R-15 under			
A in Caralina	entire heated slab if a log home			
Air Sealing	Planned Air Sealing Test Met		□ Blower Door	The visual inspection certification must be
	There are two approaches to d		☐ Visual Inspect	consistent with the requirements of Table
	compliance with air sealing req	unements.	,	402.4.2 (page 4) and the method of compliance
				planned and approved by the local jurisdiction

Submit pages 1 and 2 to: Attn: Building Inspector Town of Northfield, 21 Summer Street Northfield NH 03276

Footnotes to Residential Energy Code Application for Certification of Compliance

ⁱ <u>Ceilings with attic spaces</u>: R-30 in Zone 5 or R-38 in Zone 6 will be deemed to satisfy the requirement for R-38 or R-49 respectively wherever the full height of uncompressed R-30 or R-38 insulation extends over the wall top plate at the eaves or the full R-value is maintained. This is accomplished by using a raised heel or energy truss as shown in the diagram below or by using higher R-value insulation over the plates.



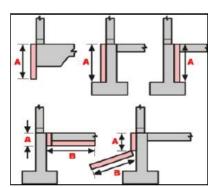


ii R-13 + R-5 means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent of less of the exterior, R-5 sheathing is not required where the structural sheathing is placed. If structural sheathing covers more than 25 percent of exterior, the structural sheathing must be supplemented with insulated sheathing of at least R-2.

iii Slab edge insulation must start at the top of the slab edge and extend a total of two (zone 5) or four feet (zone 6). Insulation may go straight down, out at an angle away from the building, or along the slab edge and then under the slab. A slab is a concrete floor within 1' of grade level. See diagram below.

The top edge of insulation installed between the exterior wall and the interior slab may be mitered at a 45 degree angle away from the exterior wall.

Allowable Slab Insulation Configurations



A or A+B must equal two feet in Zone 5 or four feet in Zone 6

MODULAR HOMES must be certified by the NH Department of Safety. Unless the floor insulation is provided by the manufacturer this form must be submitted. This form must also be submitted if the basement is to be insulated or supplementary heated space is added to the home upon or after it is set.

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Required Elements Check List (see page 2 AIR SEALING) IECC Code section 402.4.2

This page must be provided to the building inspector at final inspection.

√ Check here

Certification No.:

Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier.
	Breaks or joints in the air barrier are filled or repaired.
	Air-permeable insulation is not used as a sealing material.
	Air-permeable insulation is inside of an air barrier.
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
	Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Walls	Corners and headers are insulated.
vv ans	Junction of foundation and sill plate is sealed.
Windows and doors	Space between window/door jambs and framing is sealed.
Rim joists	Rim joists are insulated and include an air barrier.
Floors	Insulation is installed to maintain permanent contact with underside
(including above-garage	of sub floor decking.
and cantilevered floors)	Air barrier is installed at any exposed edge of insulation.
Crawl space walls	Insulation is permanently attached to walls.
Crawr space wans	Exposed earth in unvented crawl spaces is covered with Class I
	vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening
Saures, penetrucions	to exterior or unconditioned space are sealed.
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown.
Garage separation	Air sealing is provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception—fixtures in conditioned space.
Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
Shower/tub on	Showers and tubs on exterior walls have insulation and an air barrier
exterior wall	separating them from the exterior wall.
Electrical/phone box	Air barrier extends behind boxes or air sealed-type boxes are
on exterior walls	installed.
Common wall	Air barrier is installed in common wall between dwelling units. HVAC register boots HVAC register boots that penetrate building envelope are sealed to sub-floor or drywall.
Fireplace	Fireplace walls include an air barrier.
1 11 chiace	Theplace wans include an an barrier.

NEW HAMPSHIRE ENERGY CODE

Summary of Basic Requirements See IECC 2009 Code Book for complete details These 2 pages must be provided to the building inspector at final inspection or retained.

√ Check here

Air Leakage Code section 402.4 The building thermal envelope must be durably sealed to limit infiltration	All joints, seams, penetrations and openings in the thermal window and door assemblies, utility penetrations, dropped behind tubs and showers, separating unheated garages from walls between dwelling units, attic access, rim joist junction building envelope that are sources of air leakage must be corrotherwise sealed.	ceilings or chases, knee venther thermal envelope, common and all other openings is	valls, ommon n the
Air Sealing and Insulation Code Section 402.4.2	Building envelope air tightness and insulation installation requirements by Blower Door testing to less than 7 air chainspection per page 4 of this document. The local Building independent 3 rd party to conduct the visual inspection.	nges/hr at 50 Pa or a visua g Official may require an	
	While the Blower Door Test and/or Visual Option are methods of d general requirements as defined by this checklist (pages 5 & 6) mu		ny of the
Testing Option Code Section 402.4.2.1	Blower Door Test conducted by:		_
or	Result (at 50 Pa):CFM Interior Volumeor	CF	ACI
Visual Option Code Section 402.4.2.1	Structure passes Visual Inspection:	signed	date
Fireplaces Code Section 402.4.3	New wood-burning fireplaces shall have gasketed doors ar	nd outdoor combustion air	
Recessed Lighting Code Section 402.4.5	Recessed lights must be type IC rated and labeled as meeti gasket or caulk between the housing and the interior wall or		ed with a
Electrical Power and Lighting Systems Code section 404	A minimum of 50% of the lamps in permanently installed efficacy lamps.	lighting fixtures shall be l	nigh
High-Efficacy Lamps Code section 202	Compact fluorescent lamps, T-8 or smaller diameter linear a minimum efficacy of: 1. 60 lumens per watt for lamps over 40 watts,	fluorescent lamps, or lam	ps with
	2. 50 lumens per watt for lamps over 15 watts to 40 watts, 3. 40 lumens per watt for lamps 15 watts or less.	and	
Materials and Insulation Information Code section 102.1	2. 50 lumens per watt for lamps over 15 watts to 40 watts,	ompliance can be determin d service water heating eq J-values and heating and o	uipment cooling

Full size Attic or Basement Entry Doors	All doors leading from a conditioned space into an unconditioned attic or enclosed attic or basement stairwell should be insulated and weather-stripped exterior rated door units. One door is exempt.		
Duct Insulation Code section 403.2	Supply ducts in attics must be insulated to at least R-8. All other ducts must be insulated to at least R-6. Exception: Ducts or portions thereof located completely inside the building thermal envelope.		
Duct Construction Code sections 403.2.2 &.3	Ducts, air handlers, filter boxes, and building cavities used as ducts must be sealed. Joints and seams must comply with Section M1601.4.1 of the <i>International Residential Code</i> . Building framing cavities must not be used as supply ducts.		
Duct Testing Code sections 403.2.2 &.3	Duct tightness shall be verified by testing unless the air handler and all ducts are located within the conditioned space. Test conducted by:		
	Duct test result at 25 Pa:Post construction orRough-in test		
Temperature Controls Code section 403.1 & .1.1	At least one thermostat must be provided for each separate heating and cooling system. Hot air systems must be equipped with a programmable thermostat.		
	Heat pumps having supplementary electric-resistance heat must have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load		
Mechanical System Piping Insulation Code section 403.3	Mechanical system piping capable of conveying fluids at temperatures above 105°F or below 55°F must be insulated to R-3.		
Circulating Hot Water Systems Code section 403.4 & NH	Circulating service water systems must include an automatic or readily accessible manual switch that can turn off the hot water circulating pump when the system is not in use.		
amendments	Circulating domestic hot water system piping shall be insulated to R-4.		
Mechanical Ventilation Code section 403.5	Outdoor air intakes and exhausts must have automatic or gravity dampers that close when the ventilation system is not operating.		
Equipment Sizing Code section 403.6	Heating and cooling equipment must be sized in accordance with Section M1401.3 of the International Residential Code.		
Certificate Code section 401.3	A permanent certificate, completed by the builder or registered design professional, must be posted on or in the electrical distribution panel. It must list the R-values of insulation installed in or on the ceiling, walls, foundation, and ducts outside the conditioned spaces; U-factors and SHGC for fenestration. The certificate must also list the type and efficiency of heating, cooling and service water heating equipment.		

NEW HAMPSHIRE ENERGY CODE Summary of Basic Requirements Page 2

These 2 pages must be provided to the building inspector at final inspection or retained.