



# Building Standards and Codes

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## THIRD PARTY MODULAR REVIEW RESIDENTIAL SUBMISSION DEVELOPMENT WORKSHEET

BASED UPON THE 2020 UNIFORM CODES OF NEW YORK STATE, 2020 RESIDENTIAL CODE OF NEW YORK STATE, 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE – RESIDENTIAL PROVISIONS, AND THE 2017 NATIONAL ELECTRICAL CODE

### TO BE COMPLETED BY THE MANUFACTURER

Manufacturer: \_\_\_\_\_

Project Name & Project Number: \_\_\_\_\_

Address: \_\_\_\_\_

City/Town/Village: \_\_\_\_\_ Zip Code: \_\_\_\_\_

This worksheet is based upon the Documentation Guidelines for Factory Manufactured (Modular) Building Approval dated September 1, 2020 prepared for the Residential Third Party Modular Review. This completed worksheet shall accompany each project submitted as part of the Residential Modular Program. This worksheet is provided for general guidance in preparing a satisfactory application for approval only. This is not intended to serve as a complete checklist leading to compliance with the Uniform Fire Prevention and Building Code. Note that the worksheets are in a tabular format and are divided into five columns as shown below. A description of each column is given in the second row, below the column header.

The **Response** three options to check are:

- **Completed** = Factory completed and/or provided for on-site installation by others.
- **N/A** = the requirement and/or scope of work is not applicable to this project.
- **S** = to be provided as on-site construction by others.

Section A - General Requirements Worksheet				
<i>Reference to Doc. Guidelines</i>	<i>Code Section</i>	<i>Submission Requirement</i>	<i>Response</i>	<i>Drawing sheet or page number where requirement is addressed</i>
A7 & A11	[NY] R106	<b>COVER SHEET AND REQUIRED DOCUMENTS</b> A complete calculations manual. Include index with all pages required for complete set and sealed by design professional.	Completed N/A S	
A8		Drawings indicate the location of the NYS Insignia of Approval, Manuf. Data Plate and 3 <sup>rd</sup> Party Inspection Agency labels	Completed N/A S	
A9	[NY] R106.3	Cover Sheet identifies the design professional's name, address and contact information. List 3 <sup>rd</sup> Party Inspection Agency with address	Completed N/A S	

A10		Cover sheet has an index for the entire drawings set and supporting documents (Be sure all pages required for a complete set are listed)	Completed N/A S	
A9	[NY] R106	Cover sheet indicates the project/owner's name, complete address and county	Completed N/A S	
A9		Cover sheet identifies the current NYS Code(s) that are applicable to this submission.	Completed N/A S	
A12 B7	ECCC of NYS	Cover sheet identifies the climate zone and energy testing agency and contact information	Completed N/A S	
A12	[NY] R301.2.4 R322	Cover sheet identifies FEMA Flood Zone and Map #.	Completed N/A S	
A12	R301.2.1 R301.2.1.1 R301.2.1.5.1 R301.2.2 R301.2.1.4	Cover sheet identifies the seismic design category, ground snow load, wind speed & exposure, address special wind regions (Special wind regions are addressed on a case by case basis), live and dead loads	Completed N/A S	
A12	[NY] R101.2	Use and Occupancy Circle One: <i>One-Family Two-Family Townhouse</i>	Completed N/A S	
A12	R202	Indicate Number of Stories = _____ <i>Story and [NY] Story Above Grade Plane</i>	Completed N/A S	
A13	[NY] R106.2	Provide plot plan showing the proposed building on the site, lot line dimensions, existing adjacent structures and grade elevations.	Completed N/A S	
A3		3"x5" clear space box on all full sized sheets and 2"x3" on all reduced sized sheets provided for DOS/3 <sup>rd</sup> party approval stamp in the same location on all pages of the plan set	Completed N/A S	
A2		Manufacturer's information provided (name, address and phone number)	Completed N/A S	
A1		Acknowledge submission to NYSDOS with hard copies, electronic files with application and filing fee	Completed N/A S	
A5 B1n		Identify ALL components and/or systems that are to be installed on-site by others that are not part of this approval.	Completed N/A S	
A12 B3b		Identify roof truss type and locate truss signage for structure. Complete Truss Form 1265.	Completed N/A S	
A12	[NY] R106	Identify building square footage by floor and total. Identify building construction type.	Completed N/A S	

Section B - Required Drawing Details				
<i>Reference to Doc. Guidelines</i>	<i>Code Section</i>	<i>Submission Requirement</i>	<i>Response</i>	<i>Drawing sheet or page number where requirement is addressed</i>
B1b B1k	R301.3 R305.1 R310	<b>ELEVATIONS</b> Identify egress windows and ceiling heights, height of Stories above Grade Plane <sup>1</sup> , and Mean Roof Height	Completed N/A S	
B1b	[NY] R202	Height of Building (ft.) = _____ (Grade plane to average height of highest roof surface)	Completed N/A S	
B4h	Ch. 10 Ch. 18 Ch. 24	Identify exterior building materials. Show all chimneys and vents.	Completed N/A S	
B1b B1k	R304 R305 R310	<b>FLOOR PLAN(s)</b> Identify egress windows, ceiling height, room dimensions and room names	Completed N/A S	
B1b	R310 R311 R313	Habitable Attic requirements Provide egress window <u>Provide 13D Domestic Fire Sprinkler throughout dwelling</u>	Completed N/A S	
	R301.2.1.1.1	Sunroom – where sunrooms are an option, show compliance with the required provisions	Completed N/A S	
B1k	R303	Light and Ventilation Identify this information for each habitable room and on the window schedule for each window/door	Completed N/A S	

<sup>1</sup> [NY] **STORY ABOVE GRADE PLANE.** Any *story* having its finished floor surface entirely above grade plane, or in which the finished surface of the floor next above is any of the following:

1. More than 6 feet (1829 mm) *above grade plane*.
2. More than 6 feet (1829 mm) above the finished ground level for more than 50 percent of the total building perimeter.
3. More than 12 feet (3658 mm) above the finished ground level at any point.

B1b	R304	Room Size Not less than a min. of 70 SF (except kitchens) 7-foot min. horizontal dimension	Completed N/A S	
B1j	[NY] R320.1.1	Accessibility: Guestrooms. A dwelling with guestrooms shall comply with Chapter 11 of the IBC for Group R-3	Completed N/A S	
B2a	R302.6 Table R302.6	Dwelling - Garage Fire Separation Identify wall construction and opening protectives	Completed N/A S	
	R311.3	Means of Egress. Floors and landings at exterior doors	Completed N/A S	
B5a	R306 Ch. 25 Ch. 26 Ch. 27	General plumbing and sanitation. Fixture requirements.	Completed N/A S	
B5d	R307 P2705.1 P2708.1	Fixture spacing. Shower Compartments.	Completed N/A S	
B4a	M1901.1	Range and Oven Clearances	Completed N/A S	
B4i	R1004	<b>FACTORY-BUILT FIREPLACES</b>	Completed N/A S	
B4i	R1004.2	Factory built fireplaces - Hearth extension	Completed N/A S	
B4i	R1004.3	Factory built fireplaces - Decorative shrouds	Completed N/A S	
B4i	R1004.4	Factory built fireplaces - Unvented gas log heaters	Completed N/A S	
B4i	R1004.5 N1102.4.2	Fireplace doors on factory-built fireplaces are not to be installed, EXCEPT where specifically tested, listed and Labeled for use in accordance with UL 127.	Completed N/A S	
B4i	R1005	Factory Built Chimneys	Completed N/A S	
B4d B4e	R1006	Exterior air supply.	Completed N/A S	
B1c	R305.1	<b>CROSS SECTIONS</b> One per roof type/design. Dimension ceiling heights.	Completed N/A S	
B1d B1g	R702	Interior Covering	Completed N/A S	

B1i	R702.3.1.1 R702.3.5	Gypsum Board supports and fasteners on walls and ceilings: <u>Identify limitation on use of Adhesive only attachment of Gypsum wallboard</u>	Completed N/A S	
B2c	R302.9	Flame Spread Classification not greater than 200 for Wall and Ceiling Finishes	Completed N/A S	
B2d	R302.11	Fire blocking	Completed N/A S	
B2a	R302.13	Floor protection: Gypsum or equal protection of underside of floor framing members including those over basement areas	Completed N/A S	
B1l	R408	Under-floor space: ventilation and access	Completed N/A S	
B1h	R703	Exterior Wall Covering Include materials and fastening requirements for each	Completed N/A S	
B1f	R324 R324.6 Ch. 23	Solar Energy Systems <u>Show <b>Access Roof</b> limit, calculation and pathways as shown in the Section</u>	Completed N/A S	
B3d	R802 R806.1 R806.2	Roof ventilation: Roof structure and Roof ventilation required and minimum vent area	Completed N/A S	
B1e	R807	Attic access location and size	Completed N/A S	
B1h B2a B1d	Ch. 9	Roof assemblies: Roof coverings and attachment of roof covering, underlayment, ice barriers and fire classification	Completed N/A S	
B1k	R308 R310 R311 R312	<b>DOOR AND WINDOW SCHEDULE</b> Notes: 1. Window pressure and Windborne debris are separate requirements. 2. Show window dimensions complying with emergency escape and rescue requirementsOne exit per dwelling unit, side hinged & 3'x6'-8" 3. Address fall protection in accordance with R312.2 Window fall protection. 4. Show light and vent areas.	Completed N/A S	
B1k	R308.4	Safety glazing: Hazardous locations	Completed N/A S	
B1k	R308.6	Skylights and sloped glazing	Completed N/A S	
B1k	R609.1 R703.4	Exterior windows and doors: Installation, framing and flashing	Completed N/A S	
B1k	R609.2	Performance: Exterior windows and doors	Completed N/A S	
B1k	R609.3	Testing and labeling: Exterior windows and doors	Completed N/A S	

B1k	R609.6	Wind-borne Debris Protection: Exterior windows and doors	Completed N/A S	
B2e	R301.2.1.2	Protection of Openings: Exterior Glazing	Completed N/A S	
	R609.7 R609.8	Anchorage methods of windows, glass door assemblies and mullions	Completed N/A S	
B2a B2b	R311.7	<b>STAIRWAYS</b>	Completed N/A S	
B2b	R311.3 R311.7.6	Landings: At exterior doors and stairways	Completed N/A S	
B2b	R311.8	Ramps	Completed N/A S	
B2b	R311.7.1 R311.7.2	Stairways: 36" clear width Min. head clearance = 6'-8"	Completed N/A S	
B2b	R311.7.5.1 R311.7.5.2	Stair treads and risers: Min. Tread depth = 9" Max. riser height = 8 1/4"	Completed N/A S	
B2b	R311.7.8	Stairways: Handrails and Handrail Height 34" to 38" with 4 or more risers	Completed N/A S	
B2b	R311.7.5.2.1 R311.7.10.1 R311.7.10.2	Stairways: Winder tread Spiral Stairs Bulkhead enclosure stairs (not permitted as means of egress from a story)	Completed N/A S	
B2b	[NY] R303.7	Interior Stairway illumination	Completed N/A S	
B2b	R312.1.1	<b>GUARDS</b> Required with floor surfaces more than 30" above floor below and opening limitations	Completed N/A S	
B2f	R313 [NY] R313.1 [NY] R313.2	<b>AUTOMATIC FIRE SPRINKLER SYSTEMS</b> Three stories above grade plane-One & Two-Family Dwellings & Townhouses. Identify type of system	Completed N/A S	
B2f	R313	Automatic Fire Sprinkler System: Provide hydraulic calculations and a layout showing sprinkler head locations	Completed N/A S	
B2f	R313	Provide complete system diagram and submit equipment specifications	Completed N/A S	
B7b	R316	Foam Plastic: Thermal Barrier	Completed N/A S	
A13	R302.1 Table R302.1(1) Table R302.1(2)	Fire-Resistant Construction: Exterior Walls, minimum fire separation distances shown on site plan	Completed N/A S	

B2a	R302.2	Townhouse Requirements – Fire Resistant Wall Construction	Completed N/A S	
B2a	R302.2.4 R302.2.5	Townhouse: Parapet construction, or alternatively, where fire rated construction exceptions are met	Completed N/A S	
B2a	R302.2.6	Townhouse: Structural independence	Completed N/A S	
B2a	R302.3	Two-family dwellings: One-hour Fire Separation (½ hr. with NFPA 13 sprinkler system)	Completed N/A S	
B4a B4h	M1303 M1306	<b>MECHANICAL</b> Labeling of appliances AND clearances from combustible construction	Completed N/A S	
B4a	Ch. 14	Heating & cooling equipment and appliances	Completed N/A S	
B4a	Ch. 14	Heating System Circle one: <i>Hot Water BBD Electric BBD Forced Air</i>	Completed N/A S	
B7i(b) B7i(c)	N1103.3.3 M1401.3	HVAC load sizing per ACCA Manual J with equipment to comply with ACCA Manual S provided (Heat loss per ACCA Manual “J”, and equipment spec by Manual “S”) Heat Loss Calc provided	Completed N/A S	
B4a	Ch. 21	Hydronic Piping: Requirements	Completed N/A S	
B4h	M1502.4	<b>EXHAUST SYSTEMS</b> Dryer Exhaust Ducts: Exhaust termination, installation, material and duct length	Completed N/A S	
B4h	M1503	Domestic Cooking Exhaust Equipment: Microwave and Range hood material, rate and location of exhaust	Completed N/A S	
B4h	M1503.2.1	Open-top broiler unit exhaust requirements	Completed N/A S	
B4h	M1504	Exhaust ducts and exhaust openings	Completed N/A S	
B4e B7f B7i(e)	M1505	Mechanical ventilation	Completed N/A S	
B4 B7	N1103.6 Table N1103.6.1 M1505.4	Whole house ventilation required Provide fan capacity, location and external air draw location Indicate outdoor makeup air.	Completed N/A S	
B7i(d)	M1601	<b>DUCT SYSTEMS REQUIREMENTS</b> Duct Construction: Materials and installation <u>Provide Manual D design for duct sizing</u>	Completed N/A S	

B4 B7	M1602	Return Air: Requirements	Completed N/A S	
B7g	M1701	Combustion Air: Requirements	Completed N/A S	
B4a	G2406	<b>FUEL GAS REQUIREMENTS (MECH. EQUIP.)</b> Fuel Gas Appliance locations	Completed N/A S	
B7g	G2407	Combustion, ventilation and dilution air: For Mechanical Equipment	Completed N/A S	
B4i	G2408	Installation: Fuel Gas Equipment & appliance installation clearances	Completed N/A S	
B4a	G2413 G2414 G2420	Pipe sizing, piping materials and shutoff valves	Completed N/A S	
B4i	G2415	Piping System Installation: Fuel gas	Completed N/A S	
B5	Ch. 26	<b>GENERAL PLUMBING REQUIREMENTS</b>	Completed N/A S	
	P2603.2	Drilling and notching: Wood-framed structural members	Completed N/A S	
B5a	Ch. 27	Plumbing Fixture Requirements	Completed N/A S	
B5c	M2005 Ch. 28	Water heaters	Completed N/A S	
	P2803.2	Water Heaters used for space heating: Temperature Control	Completed N/A S	
B5b	P2906 Ch. 30	Identify Water Supply and DWV plumbing sizes and materials	Completed N/A S	
	Ch. 29	<b>WATER SUPPLY AND DISTRIBUTION</b>	Completed N/A S	
B5b B5c B5d		Provide line drawings of water supply plumbing system	Completed N/A S	
B5a	P2903 P2903.7 Table P2903.2	Provide Fixture units, size of water supply piping (3/4" min.)	Completed N/A S	
B5b B5c	P2906	Identify Water Supply plumbing sizes and materials	Completed N/A S	
B5b B5c	Ch. 30 P3002 P3005.4	<b>SANITARY DRAINAGE</b> DWV piping materials and plumbing size	Completed N/A S	



B5a	P3004 Table P3004.1	Determining Drainage Fixture Units: Provide DFU calculation	Completed N/A S	
B5b B5d	P3103.1 P3103.3	<b>VENTS</b> Vent pipes terminating outside: Roof extension vent terminal and flashing & sealing	Completed N/A S	
B5c	P3103.2	Frost closure: Requirement for Vent Piping	Completed N/A S	
B5b B5d	P3103.5	Location of Vent terminal	Completed N/A S	
B5b B5d	P3108	Wet venting	Completed N/A S	
B5b B5d	P3109	Waste stack vent: Location	Completed N/A S	
B5b B5d	P3110	Circuit venting: Requirements	Completed N/A S	
B5b B5d	P3111	Combination waste and vent system	Completed N/A S	
B5b B5d	P3112	Island fixture venting	Completed N/A S	
	P3113	Vent Sizing	Completed N/A S	
B5b B5c B5d	P3114	Air admittance valves	Completed N/A S	
B5b B5d	P3201	Fixture Trap locations	Completed N/A S	
		<b>Electrical Requirements and Notes</b> (Chapters 34 through 43)	Completed N/A S	
B6f	E3901	Receptacle outlets: Locations and requirements	Completed N/A S	
B6f	E3902	Ground-fault and Arc-fault circuit interrupter protection	Completed N/A S	
B6h	[NY] R314.2 R314.3	Smoke alarms and heat detection: Show locations on drawings	Completed N/A S	
B6h	[NY] R315.1	Carbon Monoxide Alarms: Show locations on drawings	Completed N/A S	
B6f		Electrical equipment/appliance locations Floor plans	Completed N/A S	

B6c		Load calculations	Completed N/A S	
B6d	E3705	Size of conductors	Completed N/A S	
B6e	E3601.6 E3602.3 E3603.3	Main disconnect & over current protection	Completed N/A S	
B6g		One-line Electrical diagram	Completed N/A S	
B6h	N1104.1	Lighting equipment (Mandatory) 90% of Lighting fixtures must have high efficacy lamps	Completed N/A S	
B7	Ch. 11	<b>ENERGY CODE COMPLIANCE</b> path used (Circle One): <i>Prescriptive      Performance      Energy</i> <i>Rating Index</i>	Completed N/A S	
		Forced Hot Air Furnace, <u>Gas fired 80 Annual Fuel Utilization Efficiency (AFUE) Minimum</u> , Oil fired- <u>83 AFUE Minimum</u> Provide Make and model number (effective 11/19/2015 Gas, 5/01/2013 Oil)	Completed N/A S	
		Electric Central Air, <u>13 Seasonal Energy Efficiency Ratio (SEER) min.</u> (effective 1/1/2017) Make and model number	Completed N/A S	
		Boiler, <u>Gas fired-82-AFUE Minimum</u> <u>Oil fired- 84 AFUE Minimum</u> Provide Make and model number (effective 9/1/2012) (Note: In 2021 the standards will change to 84 AFUE for gas-fired boilers and 86 AFUE for oil-fired boilers)	Completed N/A S	
B7b	N1102.1.2 [NY] N1102.1.2	Insulation and Fenestration Criteria: Materials Identification. Installation shall be per the manufacturer's instructions. Materials must be identified so that compliance can be determined. Insulation R values and glazing U factors must be clearly marked on the building plans or specifications.	Completed N/A S	
B7b	R702.7	Vapor retarder installed on non-vented framed ceilings, walls and floors.	Completed N/A S	
B7d B7i(f)	N1102.4	Air leakage (Mandatory) Identify how joints, penetrations and openings in the building envelope are sealed.	Completed N/A S	
B7i(f)	[NY] N1102.4.1.2	ACH50/Blower door testing for Air Infiltration rate and achieve dwelling rate of 3 ACH	Completed N/A S	

B7d	N1102.4.5	Recessed lights shall be IC rated and installed with no penetrations, or Type IC or non-IC rated installed inside an appropriate air-tight assembly with a 1/2" clearance from combustible materials and 3" clearance from insulation	Completed N/A S	
B7e	N1103.1.1	Programmable thermostat: Each dwelling unit has at least one thermostat capable of automatically adjusting the space temperature set point of the largest zone.	Completed N/A S	
B4a	N1103.3	Duct Insulation Supply and return ducts in attics, shall be insulated to not less than R-8 for ducts 3" in diameter and larger and not less than R-6 for ducts smaller than 3" in diameter. Supply and return ducts in other portions of the building shall be insulated to not less than R-6 for ducts 3" in diameter and not less than R-4.2 for ducts smaller than 3 inches in diameter. Exception: Insulation is not required on ducts within the building thermal envelope.	Completed N/A S	
B7d	N1103.3.5	Building Cavities shall not be used as ducts or plenums	Completed N/A S	
B7f B7g	M1601 M1601.4.1 M1601.4.4	Duct Construction All joints, seams, and connections must be securely fastened with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric, or tapes. Duct tape is not permitted. Ducts shall be supported in accordance with the manufacturer's instructions. Cooling ducts with exterior insulation must be covered with a vapor retarder. Air filters are required in the return air system. The HVAC system must provide a means for balancing air and water systems.	Completed N/A S	
	N1103.3.3	Duct Testing (Mandatory) Post-construction	Completed N/A S	
	N1103.5	Service Hot Water Systems Water heaters with vertical pipe risers must have heat trap on both the inlet and outlet unless an integral heat trap is provided or is part of a circulating system. Identify on the drawings the insulation R value(s) for the circulating hot water pipes and HVAC piping	Completed N/A S	
	N1103.5.3	Hot Water Pipe insulation: Service water piping must be insulated to R-3 where indicated	Completed N/A S	
B3a		<b>STRUCTURAL DESIGN/CALCULATIONS</b> Identify codes and referenced standards used in design on a separate sheet bound with the structural calculations	Completed N/A S	
B3a	R301	Structural materials/elements	Completed N/A S	

		Circle One: <i>Engineered</i> OR <i>Prescriptive design</i>		
A12 B3a B3d	R301.4 R301.5 Table R301.5	Dead & Live Loads	Completed N/A S	
B3d	R301.2.1 R301.2.1.4 R301.2.2 R301.2.3	Wind Speed, Exposure Category, Seismic Design Category and Assumed Soil Site Class, and Ground Snow Load	Completed N/A S	
B3c		Specifications of all materials	Completed N/A S	
B3b	R802.10 R804.3.6	Wood and Cold-Formed Steel Trusses: Provide Engineered roof details	Completed N/A S	
B3b	R802.10 R802.11 R804.3.6 R804.3.8	Truss design drawings and truss uplift connections provided	Completed N/A S	
B3b	[NY] R602.10 R602.12	Wall Bracing/Simplified Wall Bracing Circle One: <i>Engineered</i> OR <i>Prescriptive design</i>	Completed N/A S	
B3b	[NY] R602.10	Braced wall lines identified and dimensioned	Completed N/A S	
B3a		Specifications for shear walls provided & Structural adequacy of shear walls confirmed	Completed N/A S	
B3b	R601.11	Wall Anchorage: Location and specifications for holddown devices provided on Braced wall and Foundation plans	Completed N/A S	
B3e		Column (post) schedule and header (beam) schedule provided on floor plan	Completed N/A S	
B3a	R602.3.5	Continuity of uplift resistance confirmed	Completed N/A S	
B3b		Details of module connections (at ridge, mating line, story-to-story) provided	Completed N/A S	
	R301.2.1.2 R609.6	Wind-borne debris protection: Applicable and how addressed	Completed N/A S	
B3b B3f	R403.1.6	<b>FOUNDATION</b> Anchorage: Location and specifications for holddown devices, size and spacing of sill plate anchor bolts and spacing of columns provided on foundation plan	Completed N/A S	
B3f B3g	R404	Foundation and Retaining Walls: Uniformly distributed loads and Concentrated loads identified on foundation plans	Completed N/A S	
B3a B3d	R404	Horizontal loads vectors identified on foundation plans	Completed N/A S	

