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DEPARTMENT OF STATE  
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STATE OF NEW YORK  
FACTORY MANUFACTURED HOME APPROVAL PROGRAM

ATTENTION:

**REVISED BULLETIN**

**Factory Manufactured Home Producers with Conditional Approval for  
110 mph and above Wind Regions.  
All Quality Assurance agencies**

This bulletin is addressed to all Factory Manufactured Home producers with New York State conditional approval for manufacture of modular construction within 110 to 120 mph wind zones, in accordance with the Residential Code of New York State, Section R 301.2.1.1 Design Criteria, and/or Section R 301.1.2 Engineered Design, under the Building Code of New York State.

We find it necessary to call your attention to specific conditions of your approval. The permit drawings submitted pursuant to the conditional approvals generally have not identified critical structural connectors, as required by supplemental conditions 1.1.3 and 1.1.5 of the conditional approval letter. Special design considerations are required for proper structural performance of light frame construction within these wind zones. Specifically excluded on many of the submissions, are specification requirements for **holddown devices** required to anchor shear walls to the foundation, and to connect stories in buildings more than one story in height. The modular manufacturer must coordinate the need for these connectors with the foundation designer and installer to ensure that they are provided at the specified locations. This includes provisions for completing the required foundation connections on site. This may require portions of exterior siding and wall sheathing be shipped loose to allow for connections with the foundation tiedown and/or holddown devices.

**This further requires that the modular manufacturer supply the set crew and the foundation contractor with detailed information indicating required placement of anchor bolting or other types of fasteners at specific pre-determined locations. This is imperative for anchoring the building in a code compliant manner, and is a part of the modular manufacturer's responsibility in setting of the modules.**

**We require from this point forward until further notice,** that manufacturers submit to this office, ONE COPY ( bearing design professional's seal and signature,) of all plans which are designated for construction in areas of 110 mph and above, indicating the design wind speed in RED on the upper right-hand drawing margin. We also require that the manufacturer clearly convey on the plan sheets all necessary information to coordinate with the foundation designer, including all engineering criteria utilized to arrive at the required wind connectors along with the submission(s). This information may be taken from calculations within the conditionally approved modular system. In the absence of engineering calculations, you may demonstrate compliance utilizing prescriptive methods. Submit supporting code sections if prescriptive methods are utilized.

**At the conclusion of the Department of State review process, this office will issue a one page form letter indicating the manufacturer's production number to the manufacturer and third party, indicating acceptance (or non acceptance). Modular manufacturers must have this approved form in order to start production of any modules to be constructed in 110 -120 wind zones.**

At a minimum, the manufacturer must provide the following information for each individual model designated for construction in regions with wind speeds of 110 mph and above, as defined by Figure R301.2(4), of the Residential Code of New York State:

1. Identify methodology used for design in 110 mph and above wind zone as being either prescriptive or engineered design and identify the reference standard used.
2. Calculate and identify the forces for uplift, sliding and overturning as well as the connectors used to resist these forces.
3. Specify fasteners required for installation of **all** building connections.
4. Specify holddown devices at shear walls, **including details for connection to foundation**, and story- to-story connection devices. Specific holddown devices are to be identified with the option of wording " or equal " to accommodate Builder/Contractor preferences.
5. Specify tiedown connectors required for resistance to uplift forces at foundation, story- to- story connectors, upper story to roof, and field completed roof connections (such as at ridge drop in, field completed connections of folding roof).
6. Specify connectors used to overcome sliding forces at foundation (size and spacing of anchor bolts).
7. Identify shear wall locations and confirm (document) their structural adequacy. When prescriptive methods are utilized, such documentation should be conveyed directly on floor plans by providing step-by-step path of tabular choices and necessary calculations leading to conclusive determination of required and provided lengths of shear walls. If engineered design of shear walls is utilized, separate calculations must be provided within construction documentation with clear references to shear walls identified on floor plans.
8. Identify required blocking at floor and roof diaphragms (if required by methodology utilized).
9. Identify building limitations such as limitations of ( for example) floor cantilevers (if required by methodology utilized).