



The New York Housing Association in partnership with  
the New York Department of State's Division of Building Standards and  
Codes presents this

### NYS Manufactured Housing Certification Training



Joel Harper  
Owner  
MHC Consultants




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**NEW YORK**  
STATE OF  
OPPORTUNITY

**Building Standards  
and Codes**

## Manufactured Housing Certification Renewal Training

A Division of New York Department of State

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20 | 371

Trainer:

**Mr. Joel Harper**  
MHC Consultants, LLC

**KEEP  
CALM  
AND  
MUTE YOUR  
PHONES**

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### Course Information

This course has been developed by the Department of State for In-Service Training credit as follows:

3 hours, Manufactured Housing Continuing Education - Webinar

Course number: mfg0009105

Course provider: NYHA

Course location: Online

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### Attendees must be in the webinar within these parameters to receive credit

- Joining – Before the scheduled start time to 15 minutes after the scheduled start time.
- Leaving – more than 10 minutes before the end time of actual presentation.

**Joining and leaving outside of the above time frames will prohibit attendees from receiving course credit.**

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### Course Attendance Issues

The Division of Building Standards and Codes cannot give course attendees credit for a course without the meeting the required milestones:

Polls: You have been sent an invitation to the email you used to register from: [joel@consultwithmhc.com](mailto:joel@consultwithmhc.com)

You **must** complete the poll questions, or you will not be sent a certificate.

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### Course Attendance Issues

To receive credit for today's seminar you must:

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This course is content heavy.

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### What is a Manufactured Home?

- A structure designed as a **dwelling**

24CFR 3280.2

“Dwelling: one or more habitable rooms which are designed to be occupied by one family with facilities for living, sleeping, cooking and eating”

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### What is a Manufactured Home?

- A structure designed as a dwelling

Manufacturers may not design or build HUD code homes for multifamily or other non-single family residential use.

Retailers may not sell HUD code homes for purposes other than single family use

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### What is a Manufactured Home?

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### What is a Manufactured Home?

- A structure designed as a **dwelling**
- Transportable in one or more sections
- 8 feet wide (or more) in the traveling mode
- 320 square feet or larger
- Built on a permanent chassis
- With or without a permanent foundation
- Pre-installed plumbing, heating, hvac
- Built after June 15, 1976

And...

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### What is a Manufactured Home?

- Bearing a seal signifying conformance to the design and construction requirements of the Department of Housing and Urban Development, Manufactured Home Construction and Safety Standards, 24 CFR Part 3280 (HUD Code)




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### What is a Manufactured Home?




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### What is a Mobile Home?

*“A manufactured home is not a motor home or trailer, and although it is often called a “mobile home,” it is not that either.” \**

- A structure designed as a **dwelling**
- Built before June 15, 1976

And...

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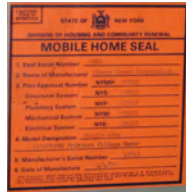
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### What is a Mobile Home?

May or may not contain a label certifying compliance with NFPA, ANSI or a specific state standard.




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### What is a Park Model Home?

- A structure designed as a **temporary** dwelling
  - Seasonal Use
- Transportable by LD truck
- Built on a single chassis
- 400 Sq Ft or less

And...

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### What is a Park Model Home?

- A structure designed as a **temporary** dwelling
  - Seasonal Use
- Transportable by LD truck
- Built on a single chassis
- 400 Sq Ft or less

And...

- **May or may not contain a label certifying compliance with ANSI A119.5 “Recreational Vehicle” standard.**




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### What is a Park Model Home?




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### What is a Park Model Home?




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### What is a Trailer?



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Building Standards and Codes

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NEW YORK STATE Building Standards and Codes

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### Financial Security

*"A person or business entity certified ... must maintain an acceptable deposit account, letter of credit or surety bond in full force and effect ..."*

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NEW YORK STATE Building Standards and Codes

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**Financial Security**

*"A person or business entity certified...*

*must maintain an acceptable deposit account, letter of credit or surety bond in full force and effect...*

**At all times while certification is in effect;**

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**Financial Security**

*"A person or business entity certified...*

*must maintain an acceptable deposit account, letter of credit or surety bond in full force and effect...*

**At all times while certification is in effect;**

**At all times while certification is suspended; and**

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**Financial Security**

*"A person or business entity certified...*

*must maintain an acceptable deposit account, letter of credit or surety bond in full force and effect...*

**At all times while certification is in effect;**

**At all times while certification is suspended; and**

**At all times following the expiration or revocation of certification until the expiration of timeframe under which a homeowner can file a complaint...**

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### Financial Security

*"A person or business entity certified...*

*...timeframe under which a homeowner can file a compliant...*

If complaint has been filed, until such time as complaint is resolved.

- 1. 21-B Order satisfied; or
- 2. 21-B Judgment satisfied; or
- 3. Appeal timeframe has expired

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### Corporations, LLC's, LLP's

- These business entities applying for recertification must employ...
  - (1) at least one certified person
    - That employee must apply for limited certification
    - meeting the appropriate experience and education requirements
- Payment of appropriate application fees

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### Individuals Applying for Certification

- Meets the appropriate experience and education requirements.
- Payment of appropriate application fees
- DBA's
  - DOS is now issuing certifications in the name of DBA's

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### Renewal Documents

Approx. 90 Days prior to your expiration  
Mailed to your address of record  
Don't rely entirely on DOS



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### YOUR ATTENDANCE HERE TODAY DOES NOT AUTOMATICALLY GRANT CERTIFICATION

You must file appropriate application(s)...

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### Renewal Applications

- Address Change
- Entity Type

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8/16/2016 10:46:30 AM

Page 1 of 2

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## Renewal Applications

- Address Change
- Entity Type
- Applicant's Information

Applicant's Name: <b>W E Sherman LLC</b>	Applicant's Certification No.: <b>1RET9999</b>
DBA (if any): <b>Wild Willy's Great Homes</b>	Telephone: <b>(518) 474-4073</b>
Street Address: <b>1234 Main Street</b>	Fax: <b>(518) 486-4487</b>
City, State, Zip: <b>Any City, NY 12231</b>	Email: <b>manager@weshermanllc.com</b>
Mailing Address (if different than above): <b>PO Box 9999, Next Town, NY 133361</b>	
Location of retail site (if the application applies to): If different than above: <b>14 Industrial Blvd, Next Town, NY 133361</b>	

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## Renewal Applications

- Address Change
- State of Formation
- Applicant's Information
- Employee(s)

Individuals listed below have certification as a Limited Retailer and are in the employ of the applicant		
Name	Certification No.	Certification Expiration Date
<b>William Sherman</b>	<b>1RET9999L001</b>	<b>6/10/2018</b>

If Applicant is an Individual indicate completed continuing education as required		
Course Name	Course Location (County)	Course Completion Date

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## Renewal Applications

- Address Change
- State of Formation
- Applicant's Information
- Employee(s)
- Financial Security

Financial Security in the form of  Surety Bond - Deposit Account Control Agreement - Letter of Credit in the amount of \$25,000 satisfying the requirements of 19 NYCRR 1210.05(a) remains in effect.

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### Renewal Applications

- Page 2
- Business Statement

If you are applying other than as an individual, please answer only the below statement which applies to your particular licensing status.

- I own this business and the Trade Name Certificate has been filed in the Office of the County Clerk where the business is located. (By signing this application, you are certifying compliance with this requirement.)  YES  NO
- I am a member of this partnership and the Certificate of Partnership has been filed in the office of the County Clerk where the business is located or with the NYS Department of State, Division of Corporations. (By signing this application, you are certifying compliance with this requirement.)  YES  NO
- I am an officer of this corporation and the New York State Certificate of Incorporation has been filed with the NYS Department of State, Division of Corporations. (By signing this application, you are certifying compliance with this requirement.)  YES  NO
- I am an officer of this foreign (out of state) corporation and an Application for Authority to do business has been filed with the NYS Department of State, Division of Corporations. (By signing this application, you are certifying compliance with this requirement.)  YES  NO
- I am a (member) (manager) of this Limited Liability Company, and a copy of the Articles of Organization has been filed with the NYS Department of State, Division of Corporations. (By signing this application, you are certifying compliance with this requirement.)  YES  NO

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### Renewal Applications

- Page 2
- Business Statement
- Attestation/Authorized Signature

By signing this application, I certify that as of the date of this application, I am not under an obligation to pay child support OR I am under an obligation to pay child support. I am not four or more months in arrears in the payment of child support, or I am making payments by income execution or by court agreed payment or repayment plan or by plan agreed to by the parties, or my child support obligation is the subject of a pending court proceeding, or I am receiving public assistance or supplemental security income.

I affirm that I have read and understand the provisions of Article 21-B of the Executive Law and the rules and regulations promulgated thereunder. I further affirm that Workers' Compensation Insurance/Disability Benefits for all employees, if applicable, has been secured. I further certify, under the penalties of perjury, that the information given above is true to the best of my knowledge and belief. I understand that any material misstatement made may result in the revocation or suspension of the license, if issued.

Signature of Applicant or Authorized Representative: **September 18, 2017**  
 Printed Name of Applicant or Authorized Representative: **William E Sherman**  
 Title: **Managing Member**

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### Applications Attestation

You certify that as of the date of application you are

- Under no obligation to pay child support
- OR
- If under a child support payment obligation  
 Not more than 4 months in arrears or are making payments under plan
- Have Workers' Compensation & Disability Benefits Coverage
- OR
- Qualify for and have exemption from coverage requirements




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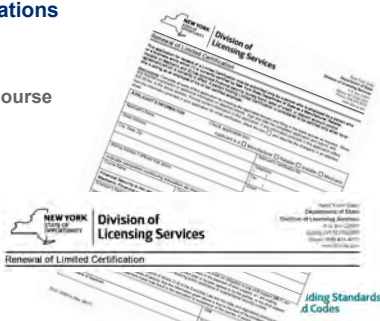
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### Limited Renewal Applications

- Limited Type
- Applicants Information
- Continuing Education Course
- Employer
- Attestation/Signature




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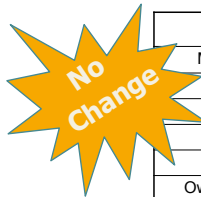
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### Pay the Application Filing Fees



Entity	Renewal
Manufacturer	\$200
Retailer	\$200
Installer	\$200
Mechanic	\$100
Limited	\$25
Owner Occupant	N/A




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# TOP REASONS WHY:

- The check amount is wrong. Licensing recommends individual checks for individual applications.

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# TOP REASONS WHY:

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- License number. Your current number must be on the form. **VERIFY IT'S CORRECT!**

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# TOP REASONS WHY:

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- **ALWAYS include the course completion certificate! Double check to make sure that the name on your certificate matches your application. A legal name on one and a nickname on the other will be rejected.**

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The New York Housing Association in partnership with the New York Department of State hereby issues this

## Certificate of Completion

This is to acknowledge that  
**Joel Harper**

has successfully completed  
the Three Hour Continuing Education Course #MFG0000105  
held October 18, 2024 with Joel Harper, Trainer.



Joel Harper, Trainer

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- **ALWAYS** include the course completion certificate! Double check to make sure that the name on your certificate matches your application. A legal name on one and a nickname on the other will be rejected.
- **Just as you limited certification expires, so does the entity's. DON'T FORGET TO RENEW IT!**

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# TOP REASONS WHY:

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- **Just as you limited certification expires, so does the entity's. DON'T FORGET TO RENEW IT!**
- Previous experience detail. Licensing wants much more detail. Saying general contracting is not enough detail.

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# TOP REASONS WHY:

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- **Just as you limited certification expires, so does the entity's. DON'T FORGET TO RENEW IT!**
- Previous experience detail. Licensing wants much more detail. Saying general contracting is not enough detail
- **On length of employment, putting current.**

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# TOP NEW YORK HOUSING ASSOCIATION, INC. WHY:

- December Monthly Meet-Up
- PAPERWORK IS BORING! Yes, it can be, but it's also important for you and your business. Do your certification applications get rejected? Do you know why? 360i Harper, MHC Consultants, and the Course Instructor for NYNA and NYSWDA, will discuss all sorts of paperwork and will be available to answer your questions! December 10, 2024 beginning at 11:00 am. Make sure you're on the list!
- 2025 MONTHLY MEET-UPS Are there any topics you would like to have covered? Let us know by emailing [ask@nyha.org](mailto:ask@nyha.org)




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## Regulation: Part 1210 Certification.

- Multiple Categories
  - Such as:
    - Manufacturer & Retailer
    - Retailer & Installer
    - Retailer & Mechanic
- Installer with a Limited Mechanic




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## Regulation: Part 1210 Certification.

Multiple Locations (manufacturers/retailers)  
Operating more than one plant or sales location

- Such as Skyline Champion Corporation
  - 36 manufacturing facilities throughout US
  - 9 currently certified for NY
  - Skyline Homes, Champion Homes, Redman Homes, Titan Homes, Atlantic Homes and others
- or CMH Homes, Inc. (fka: G&I Homes)
  - 6 retail sales centers in NY




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### Manufacturer Responsibilities

#### CFR 3282 Procedural and Enforcement Regulations

- Remedial Actions to Consumer Complaints
  - Must INVESTIGATE within 30 days
  - Is it a MANUFACTURING PROBLEM and does it require action
  
- In addition, RESEARCH factory records
  - Is there a "CLASS" of homes
  - If so, PLAN of notification and correction

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### HUD Retailer Responsibilities

- The structure must be suitable for the climate zones of the project site.
  
- Retailers cannot alter a home in any manner that would disqualify it as complying with the HUD code. This is through installation or when it is given over for delivery.

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### HUD Retailer Responsibilities




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### HUD Retailer Responsibilities



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### HUD Retailer Responsibilities



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### HUD Retailer Responsibilities

- Manufacturers Warranty Seal
- To notify the manufacturer of any defects or non-compliance.
- Retailer must notify the manufacturer of any consumer complaint on any non-complying defect.

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### HUD Retailer Responsibilities

- Complete purchaser cards

PLEASE DETACH AND RETURN  
WARRANTY REGISTRATION

OWNER INFORMATION  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE# \_\_\_\_\_

DEALER INFORMATION  
 NAME \_\_\_\_\_ ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE# \_\_\_\_\_

DATE OF SALE \_\_\_\_\_

MODEL YEAR \_\_\_\_\_

SECTION 1	SECTION 2	SECTION 3	SECTION 4
FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE
FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE
FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE	FORMALDEHYDE




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### HUD Retailer Responsibilities

- DOM of March 2, 2020 and thereafter
  - Formaldehyde Notification is no longer required. §3280.309 was removed
  - Added §3280.5(i) which requires the following statement on data plate  
**"The manufacturer certifies this home is compliant with Title VI, Toxic Substances Control Act."**
  - §3280.308 was revised to address formaldehyde emission controls for composite wood products

**IMPORTANT HEALTH NOTICE**

Some of the building materials used in this home emit formaldehyde. Eye, nose, and throat irritation, headache, nausea, and a variety of asthma-like symptoms, including shortness of breath, have been reported as a result of formaldehyde exposure. Elderly persons and young children, as well as anyone with a history of asthma, allergies, or lung problems, may be at greater risk. Research is continuing on the possible long-term effects of exposure to formaldehyde.

Reduced ventilation resulting from energy efficiency standards may allow formaldehyde and other contaminants to accumulate in the indoor air. Additional ventilation to dilute the indoor air may be obtained from a passive or mechanical ventilation system offered by the manufacturer. Consult your dealer for information about the ventilation options offered with this home.

High indoor temperatures and humidity raise formaldehyde levels. When a home is to be located in areas subject to extreme summer temperatures, an air conditioning system can be used to control indoor temperature levels. Check the comfort cooling certificate to determine if the home has been equipped or designed for the installation of an air-conditioning system.

If you have any questions regarding the health effects of formaldehyde, consult your doctor or local health department.

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### HUD Retailer Responsibilities

- Display homes/stock homes with a DOM before March 2, 2020 shall continue to display
- Formaldehyde
  - Each dwelling shall have a health notice of formaldehyde emissions prominently displayed in a temporary manner in the kitchen. CFR Section 3280.309

**IMPORTANT HEALTH NOTICE**

Some of the building materials used in this home emit formaldehyde. Eye, nose, and throat irritation, headache, nausea, and a variety of asthma-like symptoms, including shortness of breath, have been reported as a result of formaldehyde exposure. Elderly persons and young children, as well as anyone with a history of asthma, allergies, or lung problems, may be at greater risk. Research is continuing on the possible long-term effects of exposure to formaldehyde.

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## HUD Retailer Responsibilities

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### Dispute Resolution Notice

- Federal Requirement
- Obtain Consumer Acknowledgement
- Maintain copy for Retailer records

**NEW YORK DEPARTMENT OF STATE**  
**information February 2016**  
**RETAILER DISPUTE RESOLUTION NOTIFICATION**

Effective February 19, 2016, the U.S. Department of Housing and Urban Development (HUD) revised the content of Manufactured Home Dispute Resolution Notices to conform to the requirements of the resolution of the Dispute Resolution Program available to them.

The purpose of this notice is to inform:

The U.S. Department of Housing and Urban Development (HUD) Manufactured Home Dispute Resolution Program is available to resolve disputes among manufacturers, retailers, or dealers concerning defects in manufacturing or other defects. Many states also have a consumer protection or dispute resolution program. For additional information about these programs, see retailers' retail "Dispute Resolution Program" and "Additional Information (HUD Manufactured Home Dispute Resolution Program)" on the Consumer Manual required to be provided to the purchaser. These programs are not warranty programs and do not replace the manufacturer's or any other person's warranty program.

In New York State, complaints for the resolution of disputes should be directed to the manufacturer's licensing agent or the New York State Department of State, Division of Building Standards and Codes, One Commerce Plaza, 9th Floor, Albany, NY 12242-0001. Telephone: 518-474-4073, Fax: 518-485-4867.

**NEW YORK DEPARTMENT OF STATE**  
**Building Standards and Codes**  
**Division of Building Standards and Codes**

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## HUD Retailer Responsibilities

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### Installation Disclosure Notice

- Federal Requirement
- Obtain Consumer Acknowledgement
- Maintain copy for Retailer records

**NEW YORK DEPARTMENT OF STATE**  
**information September 2022**  
**CONSUMER INSTALLATION DISCLOSURE - UPDATED**

This is an update of a notice issued to Home Owners by HUD. It is designed to assist you in understanding your rights and responsibilities as a consumer. The information is intended to help you understand your rights and responsibilities.

The New York State Building Standards Code (BSC) requires that manufacturers for the installation of manufactured homes. All manufactured homes must be installed in accordance with the BSC. On July 12, 2021, we issued a notice to inform licensees that, in accordance with the BSC, all manufactured homes installed in accordance with the BSC must have carbon monoxide alarms installed in accordance with the BSC. Building permits from the local jurisdiction and (if applicable) HUD must be obtained for any manufactured home prior to a listing of the property prepared from the local jurisdiction.

In accordance with the BSC, manufacturers must install carbon monoxide alarms in all new manufactured homes. The alarms must be listed and certified by the National Fire Protection Association (NFPA) and labeled for use in manufactured homes. The alarms must be listed and certified by the National Fire Protection Association (NFPA) and labeled for use in manufactured homes. The alarms must be listed and certified by the National Fire Protection Association (NFPA) and labeled for use in manufactured homes.

**NEW YORK DEPARTMENT OF STATE**  
**Building Standards and Codes**  
**Division of Building Standards and Codes**

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## HUD Retailer Responsibilities

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### Installation Disclosure Notice

- Federal Requirement

homes (new or pre-owned) are required to be installed in compliance with all New York State installation requirements. All manufactured homes constructed prior to July 12, 2021, are required to have carbon monoxide alarms installed in accordance with the Uniform Code in effect at the time of its construction; homes constructed on or after this date shall have carbon monoxide alarms in accordance with the HUD Code. Building permits from the local jurisdiction are

**NEW YORK DEPARTMENT OF STATE**  
**information February 2016**  
**CONSUMER INSTALLATION DISCLOSURE**

Effective October 20, 2015, the New York Department of Housing and Urban Development (HUD) revised the content of Manufactured Home Dispute Resolution Notices to conform to the requirements of the resolution of the Dispute Resolution Program available to them.

The purpose of this notice is to inform:

Manufacturers, retailers, or dealers who sell or lease manufactured homes. Compliance with any additional federal, state or local requirements, including inspection of the installation, may require additional steps by the purchaser of the home. Additional information regarding New York State installation requirements can be obtained from the HUD or from the Manufacturer's Licensing Agent of the New York State Department of State, Division of Building Standards and Codes, One Commerce Plaza, 9th Floor, Albany, NY 12242-0001.

**NEW YORK DEPARTMENT OF STATE**  
**Building Standards and Codes**  
**Division of Building Standards and Codes**

A Division of New York Department of State

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### HUD Retailer Responsibilities

- Installation Disclosure Notice
  - Federal Requirement

**Inspected by the local Code Enforcement Official. Any "Alternative Tie-Down and/or Foundation Systems" that deviate from the manufacturer's installation manual must be designed by a NYS Design Professional (pre-owned and new homes) and approved by the manufacturer and Design Approval Primary Inspection Agency (DAPIA) (new homes only). All manufactured homes must be**

**information** February 2016

**CONSUMER INSTALLATION DISCLOSURE**

Model: October 19<sup>th</sup> 2005 the United States Department of Housing and Urban Development (HUD) requires certain disclosures to be made in the purchase of a manufactured home. The retailer must provide the purchaser a consumer disclosure which meets the guidelines of their jurisdiction. The Department of Housing and Urban Development (HUD) requires that local municipalities must adhere to New York State Building Standards and other applicable codes that relate to New York State Building Standards. Local municipalities may also have other codes (zoning, setback, etc.) and use requirements unique to their jurisdiction. Compliance with any additional federal, state or local requirements, including inspection of the installation, may require additional codes to the purchase of homes. Additional information regarding New York State Building Standards requirements can be obtained from the website at: [www.buildingstandardsandcodes.org](http://www.buildingstandardsandcodes.org) or by contacting the New York State Department of State, Division of Building Standards and Codes, One Commerce Plaza, 9th Floor, Albany, NY 12242-0001.

**Building Standards and Codes**

www.dos.ny.gov

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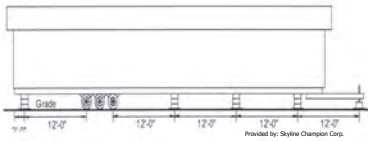
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### HUD Retailer Responsibilities

- Provide temporary blocking per manufacturer's instructions




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### HUD Retailer Responsibilities

- Provide temporary blocking per manufacturer's instructions




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### HUD Retailer Responsibilities

- Provide temporary blocking per manufacturer's instructions




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### Preemption

No state or local authority may establish any standard regarding construction or safety which is not identical to...



New homes are 'CERTIFIED' to comply with provisions of ...  
 Manuf. certifies to LAHJ, retailer and purchaser  
 Retailer & Installer certify to LAHJ and purchaser

A home not in compliance with the Standards is not preempt

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### Preemption Exercise

The LAHJ requires:  
 Arc fault protection provided in the home

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

§3280.801(b) The use of arc-fault breakers...is not required

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

Shipped loose assembled drain lines insulated

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

~~Shipped loose assembled drain lines insulated~~

50psf roof snow load

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

~~Shipped loose assembled drain lines insulated~~

~~50psf roof snow load~~

#6 copper wire to bond chassis of a multi-section home

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

~~Shipped loose assembled drain lines insulated~~

~~50psf roof snow load~~

~~#6 copper wire to bond chassis of a multi-section home~~

Carbon monoxide alarm in the home

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### Preemption Exercise

The LAHJ requires:

~~Arc fault protection provided in the home~~

~~Shipped loose assembled drain lines insulated~~

~~50psf roof snow load~~

~~#6 copper wire to bond chassis of a multi-section home~~

Carbon monoxide alarm in the home

When was the home built?

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### Carbon Monoxide Alarms

- R315 Carbon monoxide alarms shall be provided in accordance with §915 of the Fire Code of NYS



- New and existing **residential buildings** that contain a **fuel-burning appliance**.
  - **Residential building:** "A building that is a one-family dwelling, a two-family dwelling, or a building containing only townhouses."
  - **Fuel-burning appliance:** "Any appliance, equipment, device, machine, or system that may emit carbon monoxide." Examples include, but are not limited to: fireplaces, wood stoves, fuel-fired furnaces, space heaters(pilot or open flames), kerosene heaters, stoves/ovens/ranges, gas appliances(dryers, refrigerators, etc.), gas-powered engines(generators, pumps, pressure washers, power tools, automobiles)

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### Carbon Monoxide Alarms

- Primary power: permanent building wiring, and with battery back-up
  - Constructed prior to 1/1/2008 can be battery, cord, plug in
- Interconnection of multiple devices
- Combination carbon monoxide/smoke alarm shall be acceptable
  - When installed in conformance with the Uniform Code requirements for BOTH carbon monoxide alarms and smoke alarms
- Maintained operational or replaced

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### Carbon Monoxide Alarms

- Located in accordance with this F915.3
- "...Avoid dead air spaces, turbulent air spaces, fresh air returns, open windows, HVAC ducts, closed doors, and other such obstructions that could prevent carbon monoxide from reaching the detector..."
- In any specific room containing a fuel-burning appliance (F915.3.1)
  - Living room with a fire place
  - Kitchen with a LP/NG stoves/ovens/ranges
  - Bedroom with a kerosene heater...

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### Carbon Monoxide Alarms

- Outside of sleeping areas and within 10 feet of the entrance to the **sleeping areas** (F915.3.1.3)
  - Unless otherwise required inside the sleeping area by another section
- Homes with attached garages: within 10 feet of the entrance to the **sleeping areas** (F915.3.3)
  - **Sleeping area:** "A room or space that can be used, either on an occasional or permanent basis, for sleeping. Sleeping area include, but are not limited to, bedrooms, finished rooms in basements, family rooms, recreation rooms or other similar area in residential buildings..."

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### Carbon Monoxide Alarms

- **Outside of and within 10' of a sleeping area**—(F915.3) "A room or space that can be used, either on an occasional or permanent basis for sleeping. Sleeping area include, but are not limited to, bedrooms...family rooms..."




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### Carbon Monoxide Alarms

HU Code is silent - No requirements apply  
 R311 "Carbon monoxide alarms shall be provided in accordance with Section 915 of the Fire Code of New York State"

**Effective July 12, 2021 MHCSS will contain requirements for carbon monoxide alarms thereby rendering them preempt like smoke alarms.**

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### Installer Responsibilities

- Foundation inspected & approved by LAHJ
  - 1210.16(e)(2) “include, without limitation, a warranty that the foundation or supports...were inspected and approved by the governmental agency...responsible for enforcing the uniform code in the jurisdiction in which the manufactured home was installed...”
- Foundation must meet UFPBC

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### Installer Responsibilities

- Foundation inspected & approved by LAHJ
- **Installation meets UFPBC**
  - AE401 “...installation instructions provided by the manufacturer.”
  - Including connections to utilities
- Alternative Construction Inspections – notify Manuf.

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### Installer Responsibilities

- Foundation inspected & approved by LAHJ
- Installation meets all aspects of UFPBC
- **Covering the work of others (subcontractors)**
  - Oversight
  - Documentation

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### Do NOTs

- Do not place a warranty seal if you cannot warrant the work of others.
- Do not place a warranty seal if you cannot do the work correctly. Find someone who can!
- The Installer of Record cannot select or omit any part of the work required to make the home suitable for use as a dwelling.

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### Do NOT's

- Do not place a warranty seal if the installation

**IS NOT COMPLETE**

ie: deck, stairs, handrails, etc.

“You just bought the noncompliance”

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### Warranty Seals

- Guarantee from the Manufacturer
  - Approved by HUD
  - Construction per HUD codes
  - Certified by DOS




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### Warranty Seals

- Guarantee from the Manufacturer
- **Guarantee from the Installer**
  - Installed per code
  - Installer Certified by DOS
  - Foundation approved

Also req. for "Owner-occupant"

**STATE OF NEW YORK  
DEPARTMENT OF STATE  
INSTALLER'S  
WARRANTY SEAL**

New manufactured home       Used and remanufactured home

A. Warranty Seal Number: 887854 SAMPLE

B. Name of Installer: \_\_\_\_\_

C. Installer Certification Number: \_\_\_\_\_

D. Date of Installation: \_\_\_\_\_

E. Home Serial Number: \_\_\_\_\_

F. HUD Label Number: \_\_\_\_\_

G. Municipality issuing permit: \_\_\_\_\_

H. Installation address: \_\_\_\_\_

I. City, State Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed name of owner:  
**VOID IF REMOVED.** This SEAL certifies installer's compliance with the Regulations for Manufactured Homes in accordance with Title 19 Home York Codes, Rules and Regulations Part 12.10.

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### Warranty seals

- Permanently attached
  - Largest closet in the largest bedroom




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- If an owner contracts work themselves, they are still required to hire a certified *entity* to oversee the work and affix a warranty seal.

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### If it happens at the site The LAHJ has the right

Including:

- work outside of HUD Code
- not authorized by manufacturer
- non DAPIA repairs




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### No CO shall be issued !!!

- After January 1, 2006
- UNLESS:
  - Manufacturer's seal is attached

AND




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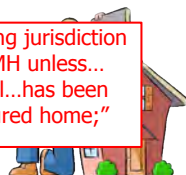
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### No CO shall be issued !!!

- After January 1, 2006
- UNLESS:
  - Manufacturer's seal is attached

AND

1210.16(g) No authority having jurisdiction shall issue a CofO for any MH unless... "the installer's warranty seal...has been attached to such manufactured home;"




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### No CO shall be issued !!!

- After January 1, 2006
- UNLESS:
  - Manufacturer's seal is attached
  - Installer's seal is attached
- **The government entity shall NOT RELY on the Installer's Seal**
  - Independent inspection of the installation must be made




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### No CO shall be issued

- After January 1, 2006
- UNLESS:
  - Manufacturer's seal is attached
  - Installer's seal is attached
- **The government entity shall NOT RELY on the Installer's Seal**
  - Independent inspection of the installation must be made




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### C. of O. and Warranty Seals

- Pay attention to 1210.18(b)
  - A complaint...filed with the DOS within 1 year & 10 days after the date of service, installation, **issuance of a certificate of occupancy, or the expiration of a warranty, whichever is later.**

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- Installation: May 15, 2022

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- Installation: May 15, 2022
- May 25, 2023

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- Installation: May 15, 2022
- Date of CO: July 29, 2022
- May 25, 2023

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- Installation: May 15, 2022
- **Date of CO: July 29, 2022**
- May 25, 2023
- August 8, 2023

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- Installation: May 15, 2022
- Date of CO: July 29, 2022
- **Warranty Expiration: August 1, 2023**
- May 25, 2023
- August 8, 2023

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- Installation: May 15, 2022
- Date of CO: July 29, 2022
- **Warranty Expiration: August 1, 2023**
- May 25, 2023
- August 8, 2023
- August 11, 2024

*"...whichever is later."*

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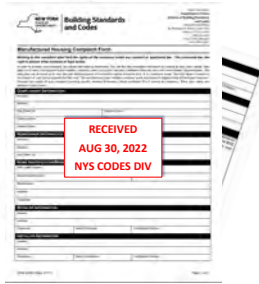
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- Installation: May 15, 2022
- Date of CO: July 29, 2022
- **Warranty Expiration: August 1, 2023**
  - May 25, 2023
  - August 8, 2023
  - August 11, 2024

“...whichever is later.”




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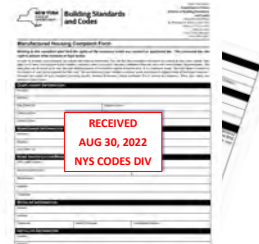
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- Installation: May 15, 2022
- Date of CO:
- **Warranty Expiration: August 1, 2023**
  - May 25, 2023
  - August 11, 2024

“...whichever is later.”



One year and ten days after the issuance of...

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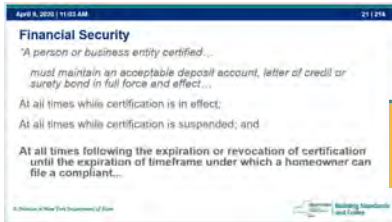
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### C. of O. and Financial Security

- Remember this slide from earlier.



Standards for certification as a ...

- 1210.04 ... manufacturer.
- 1210.05 ... retailer.
- 1210.06 ... installer.
- 1210.07 ... mechanic.

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### Installer's Reporting

- Updated form on DOS website
- General Stuff
  - DOS form
  - Name and address
  - Quarterly reporting period
- Home details
  - Warranty Seal No.
  - Owner

The form is titled 'Installer's Quarterly Warranty Seal Report' and includes sections for 'General Information' and 'Installed Units'. It contains various fields for reporting quarterly data.

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### Installer's Reporting

No Homes Installed this Quarter? If you have not installed any manufactured homes for this reporting period mark an **X** in the box and mark **NONE** in installed Units section then mail this report.  
 Has your Address or Business Information Changed? If so, call the Dept. of State at (518) 474-4073 or mark an **X** in the box and enter new information above.  
 Final Report? If so, mark an **X** in the box if you are discontinuing your business operations and this is your final report. Attach your Certification and unused warranty seals to this report.

INSTALLED UNITS		Attach the yellow copy of Warranty Seal to this Report.
Warranty Seal No.	Owner Name(s)	
19652	Mr. and Mrs. Tin Kan	

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### Installer's Reporting

**Authorized signature**  
**Certification that installation meets NYSUFPCB**

**Accountability for Unused Warranty seals**

Physical count of unused warranty seals remaining + **12**

The undersigned Installer certifies that it is certified as an installer by the New York State Department of State pursuant to Article 21-b of Executive Law, that that the information contain herein is correct to the best of its knowledge, information and belief and this report is filed pursuant to 19 NYCRR 1216, Manufactured Homes. The undersigned further certifies that all manufactured home installations listed herein meet the standards of the New York State Uniform Fire Prevention and Building Code.

	Title
Print Name of Installer or Authorized Representative <b>John Hancock</b>	Managing Member Daytime Telephone <b>(518) 474-4073</b>

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**Where to mail reports and attachments**  
 New York State Department of State  
 Division of Building Standards and Codes  
 One Commerce Plaza  
 99 Washington Avenue  
 Albany, NY 12231  
 Or via email to: [quarterlyinstallerreports@dos.ny.gov](mailto:quarterlyinstallerreports@dos.ny.gov)

DOS 1836-f (Rev. 07/22)

New York State  
 Department of State  
 Division of Building Standards and Codes  
 One Commerce Plaza  
 99 Washington Avenue, Suite 1160  
 Albany, NY 12231-0001  
 Tel: (518) 474-4000  
 Fax: (518) 474-4483  
 www.dos.ny.gov

PERIODS

1<sup>st</sup> Quarter reported  
 March 31  
 2<sup>nd</sup> Quarter April 30<sup>th</sup> - June 30  
 3<sup>rd</sup> Quarter July 30<sup>th</sup> - September 30  
 Postmarked by: October 30<sup>th</sup>  
 4<sup>th</sup> Quarter October 1 - December 31

A Division of New York Department of State

Building Standards and Codes 151

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### Installer's Reporting

152 | 371

- Postmarked by date indicated
- USPS
  - Priority Mail

Tracking #

Apply Priority Mail Postage Here \$9.85

DEPARTMENT OF STATE  
 ONE COMMERCE PLAZA  
 99 WASHINGTON AVENUE  
 ALBANY NY 12231-0001

USPS TRACKING #

M/S Dept of State  
 Codes Division  
 One Commerce Plaza 1160  
 99 Washington Ave  
 Albany NY 12231-0001

A Division of New York Department of State

Building Standards and Codes

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### Installer's Reporting

153 | 371

- Postmarked by date indicated
- USPS
  - Priority Mail
  - Certified Mail

Tracking #

DEPARTMENT OF STATE  
 ONE COMMERCE PLAZA  
 99 WASHINGTON AVENUE  
 ALBANY NY 12231-0001

CERTIFIED MAIL \$8.05

M/S Codes Div  
 One Commerce Plaza 1160  
 99 Washington Ave  
 Albany NY 12231-0001

A Division of New York Department of State

Building Standards and Codes

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## Enforcement Actions

Failure to file Quarterly Report

- Violation Article 21-B
- Plea Agreement Settlement Letter
  - Fine amount \$100
  - Returned by indicated date – case closed
  - Failure or request for hearing then*
- Referred to Office of Administrative Hearings
  - Fine Increased!!!
  - OAH moves ahead this hearing process




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## Condition of Certification

... shall be deemed to agree

- (1) to submit to the jurisdiction of the DOS
- (2) to accept service of any notice, complaint, or other paper provided by the DOS
- (3) be bound by any consent order, decision, or final decision and order made

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## Resolution Process 19 NYCRR Part 1210.18

### Department of State Review

- Complaint valid or not
- Notification to parties involved
- Parties have 30 days to respond to DOS notification (1210.18(e))

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### Resolution Process

Department of State Review

#### Informal Resolution

- The Codes Div. shall be permitted, but not required, to attempt to resolve any complaint informally
- Process may be commenced at any time after complaint filed

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### Resolution Process

Department of State Review

#### Informal Resolution

- If Codes Div. elects out or attempts are unsuccessful, referred to Office of Administrative Hearings




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### Resolution Process

- Department of State Review
- Informal Resolution

#### • Formal Resolution in front of a Law Judge

- Complainant v. Respondent
- Order compensation
- Apportion liability between multiple parties, where appropriate  
Compensation shall not be limited to financial security amounts




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### Resolution Process

- Department of State Review
- Informal Resolution
- Formal Resolution in front of a Law Judge
- **Appeal to the Secretary of State, Walter T. Mosley**




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### Resolution Process

- DOS Review
- Informal Resolution
- Formal Resolution
- Appeal to the SOS
- **Article 78 Proceeding**




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### Enforcement Actions

#### Civil Penalties

- Violations of Executive Law 21-B and
- Violations of 24 CFR (As of March 25, 2024)
  - Up to **\$3,558** per single violation
  - Up to **\$4,446,755** for a series of related violations




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### Additional Enforcement Actions

- Sale of units to Uncert'd Retailer
- Business during Lapse of Cert
- Business while not Certified period
  - “Nothing...shall excuse any person or business entity required to be certified from the obligation of obtaining such certification.”

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### Additional Enforcement Actions

- Violations found during Retail Lot Audit
  - Required Formaldehyde Notice (if applicable)
  - Temporary Storage
  - Dispute Notices
  - Purchaser Cards
  - Delivery Inspections
  - Notifications to Manufacturer of complaints or non conformances

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### Additional Enforcement Actions

Remember DOS is authorized to enter at a reasonable time

- Any Factory
- Warehouse
- Establishment in which manufactured housing are stored...

“...shall be deemed to agree

1. to submit to the jurisdiction of the DOS...”

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### Additional Enforcement Actions

- Violations found during Dispute Resolution

Additional action will be brought by DOS against the responsible party for any non-compliance concerning Manufacture, Sale, Installation or Service, not related to original complaint.

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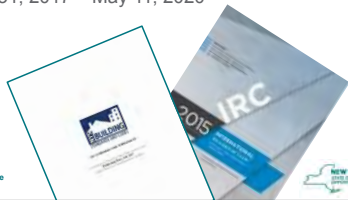
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### Residential Code, Appendix E: Manufactured Housing Used as Dwellings

2015 International Residential Code as modified by the 2017 Uniform Code Supplement

Effective: October 31, 2017 – May 11, 2020




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### Residential Code, Appendix E: Manufactured Housing Used as Dwellings

2020 Residential Code of New York State

Effective: May 12, 2020




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### Residential Code, Appendix E: Manufactured Housing Used as Dwellings

Scope ... *applicable only to a manufactured home used as a **single dwelling** unit ...*

- Foundations for Installation
- Connections to Services
- Alterations, additions, repairs or relocation
- Flood Zones

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### Residential Code, Appendix E: AE 102.5 Existing Occupancy

- The use or occupancy of any existing manufactured home shall not be changed unless such change in use of occupancy is made to conform to all applicable provisions of this code. Upon any change in use or occupancy, the manufactured home shall cease to be classified as such



Modifications  
Complying  
with



Equal  
Whatever  
You need

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### Residential Code, Appendix E: AE 102.7 Relocations

- Relocated manufactured homes "SHALL have a manufacturers label certifying compliance with applicable HUD Manufactured Home Construction and Safety Standards, and a data plate, affixed in the manufacturing facility..."




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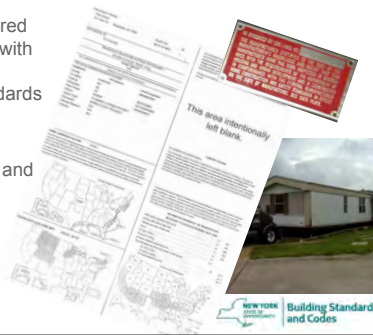
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A statement "This manufactured home is designed to comply with the federal mobile home construction and safety standards in force at the time of manufacture."

Reference to structural zone and wind zone.

Data relative to the heating, insulation zone, and outdoor design temperature.



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### Relocation -Exception

- Mobile homes manufactured **BEFORE** June 15, 1976, need not comply with these provisions if they have been inspected by an agency or individual acceptable to the *building official* to determine that they are:
  - Structurally sound
  - Free of heating and electrical system hazards
- Written documentation signed by the agency or individual performing the inspection shall be submitted to the *building official*

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### Residential Code, Appendix E: AE 103 Permits and Inspections

All New for the 2020 Residential Code of New York State

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**Residential Code, Appendix E:**

**AE 103 Permits and Inspections**

- Permit shall be obtained to install, alter, remodel, repair or add accessory buildings or structures to a manufactured home...

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**Residential Code, Appendix E:**

**AE 103 Permits and Inspections**

- Permit shall be obtained to install, alter, remodel, repair or add accessory buildings or structures to a manufactured home...
- Application for permit shall include the identity of the person or entity certified pursuant to Part 1210

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**Residential Code, Appendix E:**

**AE 103 Permits and Inspections**

- Permit shall be obtained to install, alter, remodel, repair or add accessory buildings or structures to a manufactured home...
- Application for permit shall include the identity of the person or entity certified pursuant to Part 1210
- Work shall be inspected – including, but not limited to the foundation, support, anchorage, connection of multi-sectional homes, and building service equipment.

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### Residential Code, Appendix E:

#### AE 201 Definitions

To partner with the definition in Article 21-b

- Manufactured Home Installation (and Setting). Construction that is required for the installation of a manufactured home, including the construction of the foundation system, required structural connections thereto and the installation of on-site water, gas, electrical and sewer systems and connections thereto that are necessary for the normal operation of the manufactured home.

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### Residential Code, Appendix E:

#### AE 201 Definitions

To partner with the definition in Article 21-b

- Manufactured Home Installation (and Setting). Construction that is required for the installation of a manufactured home, including the construction of the foundation system, required structural connections thereto and the installation of on-site water, gas, electrical and sewer systems and connections thereto that are necessary for the normal operation of the manufactured home.

**Article 21-b: Installation means "the affixation of a manufactured home to a foundation or supports at a building site; the assembly and fastening of structural components of ..."**

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### Residential Code, Appendix E:

#### AE 201 Definitions

I'm not installing it, I'm only moving, blocking and leveling...




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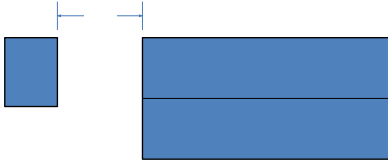
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### Residential Code, Appendix E:

#### AE 302.1 Location on property

- MH and accessory buildings shall be located in accordance with R302.1 or any other law or regulation regarding separation distances (local laws/zoning ordinances)




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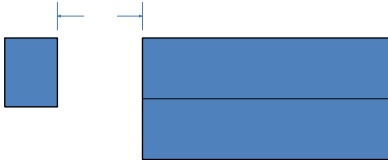
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### Residential Code, Appendix E:

#### AE 302.1 Location on property

- MH and accessory buildings shall be located in accordance with R302.1 or any other law or regulation regarding separation distances (local laws/zoning ordinances)



Such as perhaps Part 17.5 which requires 10' minimum spacing between homes and accessory buildings or structures

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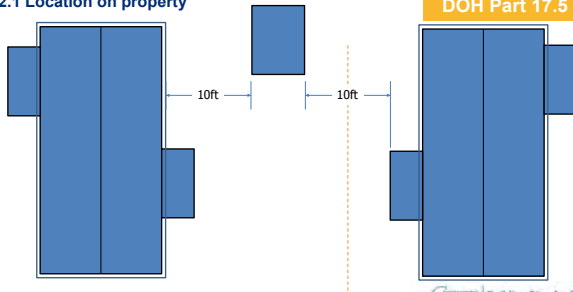
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#### AE 302.1 Location on property

#### DOH Part 17.5




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**Residential Code, Appendix E:**

**AE401**

**New Home Installation**

- Install according to manufacturers installation instructions




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**Residential Code, Appendix E:**

**AE401**

**RELOCATED Home Installation**

- Install according to manufacturers installation instructions
- If not available...




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**Residential Code, Appendix E:**

**AE401**

**RELOCATED Home Installation**

- Install according to manufacturers installation instructions
- If not available...
  - HUD Model Installation Standard (24-CFR-3285, 2016)




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### Residential Code, Appendix E:

#### AE401

#### RELOCATED Home Installation

- Install according to manufacturers installation instructions
- If not available...
  - HUD Model Installation Standard (24-CFR-3285, 2016)
  - NFPA 225 (2017) Manufactured Home Installation




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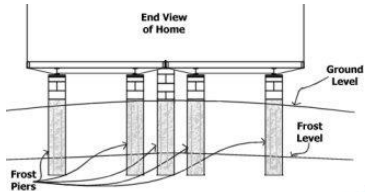
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### Residential Code, Appendix E:

#### AE402.3 Footings & Foundations

Footings and foundations shall be constructed...and in all cases **shall** extend below the frost line.




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### Residential Code, Appendix E:

#### AE402.3 Footings & Foundations

*Exception...Where a foundation system is designed by a registered design professional in accordance with the design requirements of the Manufactured Home Standards and the provisions of this code such that it will otherwise be protected from the effects of frost, such foundation system shall not required to extend below the frost line.*

**All cast-in-place concrete shall be minimum 3,000psi at 28 day compressive strength**

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### Alternative Foundations Additional Requirements

#### Foundation Design

**Before** installer provides support or anchorage different than specified in the installation instructions ...installer must:

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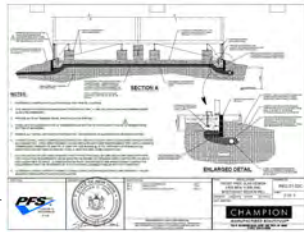
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### Alternative Foundations Additional Requirements

#### Foundation Design

**Before** installer provides support or anchorage different than specified in the installation instructions ...installer must:

1. Obtain DAPIA-approved designs and instructions prepared by manufacturer; or



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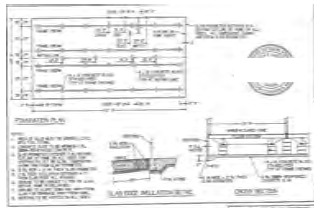
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### Alternative Foundations Additional Requirements

#### Foundation Design

**Before** installer provides support or anchorage different than specified in the installation instructions ...installer must:

1. Obtain DAPIA-approved designs and instructions prepared by manufacturer; or
2. Obtain alternative design prepared by licensed design professional indicating support and anchorage consistent with MH design conforms to requirements of HUD Code **AND has manufacturer and DAPIA approval.**



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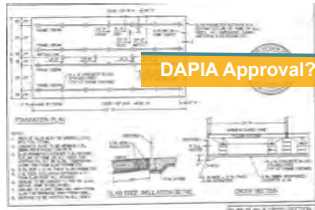
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### Alternative Foundations Additional Requirements

#### Foundation Design

**Before** installer provides support or anchorage different than specified in the installation instructions ...installer must:

1. Obtain DAPIA-approved designs and instructions prepared by manufacturer; or
2. Obtain alternative design prepared by licensed design professional indicating support and anchorage consistent with MH design conforms to requirements of HUD Code **AND has manufacturer and DAPIA approval.**




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### Residential Code, Appendix E: AE405 Exits

*Exterior stairways and ramps...shall comply with AE102.2 and all other applicable provisions of this code*

#### AE102.2 Additions.

##### R311 Means of Egress

*Stairways, ramps...shall comply with this section*

##### R312 Guards

*Porches, stairways, ramps more than 30" above grade*

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### Residential Code R311.5.1 Attachment

Required exterior stairs shall be positively anchored to the primary structure to resist both vertical and lateral forces **OR shall be designed to be self-supported**

HUD Code requires porches to be?

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### Residential Code

#### R311.3 Landings at doors

- Landings are required **“on each side of each exterior door”**
- Not less than the width of the door with a depth of 36”




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### Residential Code

#### R311.3.1 Landings at doors

- Landing not more than 1 ½ inches lower than the threshold
- Exception: Landing not more than 8 ¼ inches lower than the threshold, provided that the door does not swing over the landing




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### Residential Code

#### R311.7 Stair measurement

- Minimum stair clear width: 36 inches
- Maximum Riser height: 8 ¼ inches
- Minimum tread depth: 9 inches
- Shall not exceed the smallest by more than: 3/8 inch

#### Stair Profile




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**Residential Code**  
**R311.7.6 Landings for stairways**

There shall be a floor landing at the top and bottom of each stairway.

Minimum 36" x 36"



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**Residential Code**  
**R403.1.4 Minimum [Footing] depth**

Unless protected from frost... supports of buildings and structures shall extend below the frost line



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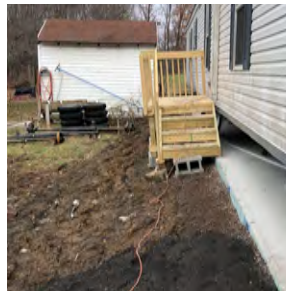
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**Residential Code**  
**R403.1.4 Minimum [Footing] depth**

Unless protected from frost... supports of buildings and structures shall extend below the frost line

Exception: Deck not supported by a dwelling shall have a footing **not less than 12 inches below the undisturbed ground surface.**



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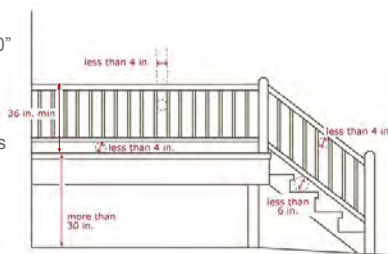
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### Residential Code R312 Guards

Decks, landing more than 30" above grade within 36" horizontally to the edge

Open sided walking surfaces

Guards meeting this drawing




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### Residential Code, Appendix E: AE 102.2 Additions

Additions shall conform to one of the following:

1. Certified under HUD Construction and Safety Standards Act
2. Designed and constructed to conform with HUD Construction...
3. Designed and constructed to conform with new construction requirements this code (RCNY)

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### Residential Code, Appendix E: AE 102.2 Additions

Building additions and accessory structures shall not be structurally supported by the manufactured home.

**Exception.** Building additions and accessory structures supported by a MH shall be in accordance with designs provided by the home manufacturer or with designs prepared by a design professional in accordance with acceptable engineering practice.

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### Residential Code, Appendix E: AE 102.3 Alterations and repairs

- Alterations and Repairs allowed without requiring compliance with all the requirements of the Uniform Code
  - Must conform to requirements of Appendix J
  - Create no hazard to life, health or safety by such addition, alteration or repair
- Alterations and Repairs nonstructural in nature, not affecting structural members or fire protection maybe made with materials similar to original home construction

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### Residential Code, Appendix E: AE 102.3 Alterations and repairs



- Exception Installation and/or replacement of glass shall be in conformance with the fenestration rating requirements for new installations
  - Fenestration: windows, fixed or operable, doors, glass block, skylights

(b) Table N1102.1.2 (R402.1.2) of the 2020 RCNYS shall be:

NY1 TABLE N1102.1.2 (R402.1.2)  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT<sup>4</sup>

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>5</sup>	SKYLIGHT <sup>6</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>7</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	BASE WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE
1	0.32	0.35	0.40	49	20 or 13+ <sup>8</sup>	8/13	19	10/13 <sup>9</sup>
2	0.30	0.35	NR	49	20 or 13+ <sup>8</sup>	13/17	30 <sup>9</sup>	15/19
3	0.30	0.35	NR	49	20+ <sup>8</sup> or 13+10 <sup>8</sup>	15/20	30 <sup>9</sup>	15/19
4	0.28	0.35	NR	60	23 canopy	19/21	30 <sup>9</sup>	15/19



NR = Not Required.  
<sup>4</sup> For SR 1 Use = SR 8 Allow.  
<sup>5</sup> As written are minimum. U-values and SHGC are maximum. Where insulation is installed in a cavity that is less than the total cavity depth, the required R-value of the insulation shall be not less than the R-value specified in the table.

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### Residential Code, Appendix E: AE 102.3 Alterations and repairs



- Exception Installation and/or replacement of glass shall be in conformance with the fenestration rating requirements for new installations
  - Fenestration: windows, fixed or operable, doors, glass block, skylights

(b) Table N1102.1.2 (R402.1.2) of the 2020 RCNYS shall be:

NY1 TABLE N1102.1.2 (R402.1.2)  
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1	0.32	0.35	0.40	49	20 or 13+ <sup>8</sup>	8/13	19	10/13 <sup>9</sup>
2	0.30	0.35	NR	49	20 or 13+ <sup>8</sup>	13/17	30 <sup>9</sup>	15/19
3	0.30	0.35	NR	49	20+ <sup>8</sup> or 13+10 <sup>8</sup>	15/20	30 <sup>9</sup>	15/19
4	0.28	0.35	NR	60	23 canopy	19/21	30 <sup>9</sup>	15/19



NR = Not Required.  
<sup>4</sup> For SR 1 Use = SR 8 Allow.  
<sup>5</sup> As written are minimum. U-values and SHGC are maximum. Where insulation is installed in a cavity that is less than the total cavity depth, the required R-value of the insulation shall be not less than the R-value specified in the table.

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### Residential Code AE 102.3 Alterations

- **Exception** Installation of glass shall be in conformance with requirements for new installations
  - Fenestration: window glass block, skylights



(b) Table N1102.1.2 (R402.1.2) of the 2020 RCNYS shall be:

(NY) TABLE N1102.1.2 (R402.1.2)  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT<sup>a</sup>

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>c</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>d,e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	BASE WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE
1	0.32	0.35	0.40	40	20 or 13 <sup>f</sup>	8.13	10	10.13 <sup>g</sup>
2	0.30	0.35	NR	40	20 or 13 <sup>f</sup>	13.13 <sup>g</sup>	30 <sup>h</sup>	15.10 <sup>g</sup>
3 Option 1	0.30	0.35	NR	40	20 <sup>h</sup> or 13 <sup>f</sup> or 10 <sup>i</sup>	15.20	30 <sup>h</sup>	15.10 <sup>g</sup>
3 Option 2	0.28	0.35	NR	60	23 cavity	19.21	30 <sup>h</sup>	15.10 <sup>g</sup>



NR = Not Required.  
<sup>a</sup> For S1, S1d = 8.6; S1e = 8.9.  
<sup>b</sup> U-values are maximum. U-values and SHGC are maximum. Where modulus is specified in a cavity that is less than the label modulus, the specified modulus shall be used from the U-value specified in the table.

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### Course Development Utilized Installation Instruction Manual for



Special thank you to: Ed Ostrander, General Manager; Mike Perri, Service Manager; Champion Home Builders, Titan Homes Division - Sangerfield, NY

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### Installation Instructions Getting Started

- Locate the Data Plate
- Confirm Information
- Equipment Data
- Design Data




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**HUD Data Plate**  
Manufacturer Info  
HUD Label  
Serial Number  
Formaldehyde

MFG Titan Homes  
851 Route 12 South  
Sanoerfield, NY 13455

UNIT SER. # 019-000-H-A004986A

MODEL # EP8144 HUD SEAL # NTA1931222

This evaluation was designed to comply with the Federal Manufactured Home Construction and Safety Standards in force at the time of construction. The manufacturer certifies that every component with the 10-1 Year Lifetime Limited Warranty is covered by the warranty.

The manufacturer certifies that the materials used in the construction of the structure were approved by the appropriate authority and that the manufacturer warrants the materials to be suitable for completion in accordance with the Federal Manufactured Home Construction and Safety Standards and the approval of the Department of Housing and Urban Development in effect at the date of construction.

DATE OF MFG 12/2022 DESIGN APPROVED BY PFS




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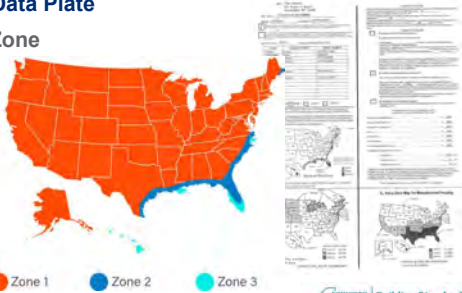
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**CHAMPION HUD Data Plate**

**Confirm Wind Zone**




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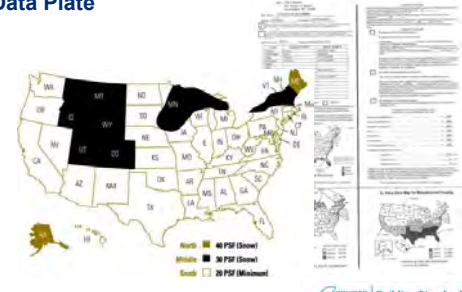
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**CHAMPION HUD Data Plate**

**Roof Zone**




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### Installation Instructions Prepare the Site

- Crown site away from foundation
  - minimum slope of 1/2" per foot
- Direct runoff away from the home



**Site drainage.** Moisture under the home can result in structural damage to the floor system and other parts of the home. Failure to provide adequate slope/drainage can result in moisture-related problems such as mold, mildew, and erosion.




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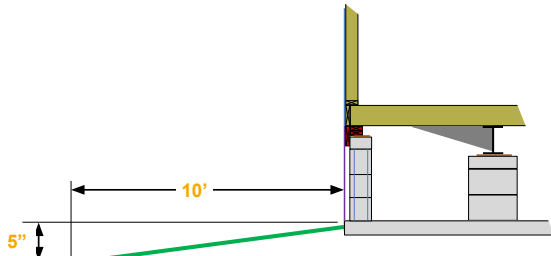
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...minimum slope of 1/2" per foot for first ten feet...




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### Installation Instructions Determine Soil Conditions

Soil Type



Soil Bearing Capacity

Default capacity: 1500psf, unless site-specific information requires lower values



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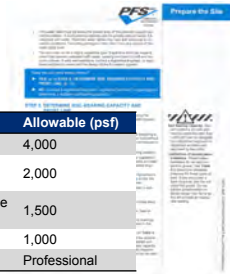
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### Installation Instructions Determine Soil Conditions

Soil Bearing Capacity

Soil Type (and classification)	Allowable (psf)
Rock or hard pan (class 1)	4,000
Sandy gravel and gravel; very dense and/or cemented sands; course gravel/cobbles; preloaded silts, clays and coral (class 2)	2,000
Sand; silty sand; clayey sand; silty gravel; medium dense course sands; sandy gravel; very stiff silt, sand clays (class 3)	1,500
Clay sandy clay, silty clay, clayey silt (classes 4A & 4B)	1,000
Uncompacted fill, peat, organic clays (class 5)	Professional



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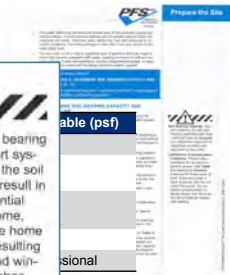
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### Installation Instructions Determine Soil Conditions

Soil Bearing Capacity

Soil Type (and classification)	Allowable (psf)
Rock or hard pan (class 1)	4,000
Sandy gravel and gravel; very dense and/or cemented sands; course gravel/cobbles; preloaded silts, clays and coral (class 2)	2,000
Sand; silty sand; clayey sand; silty gravel; medium dense course sands; sandy gravel; very stiff silt, sand clays (class 3)	1,500
Clay sandy clay, silty clay, clayey silt (classes 4A & 4B)	1,000
Uncompacted fill, peat, organic clays (class 5)	Professional

**Soil.** Inadequate soil bearing capacity or a support system mismatched to the soil characteristics can result in excessive or differential settlement of the home, which can cause the home to go out of level, resulting in jammed doors and windows, cracks in finishes and ruptured plumbing connections.



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### Pocket Penetrometer



The instrument should not be used for obtaining foundation design data.

**Warning:** The Pocket Penetrometer is designed as a field instrument for use only by trained personnel. It is not intended for use by untrained personnel. It is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes.

**Caution:** The Pocket Penetrometer is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes.

**Notes:** The Pocket Penetrometer is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes. It is not intended for use in determining soil strength for design purposes.

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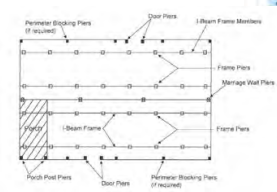
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### Installation Instructions Install Footings

Determine Pier Locations using Instructions



**Install Footings**

**Notes:**

- 1. See Section 05110-01.00 for details.
- 2. See Section 05110-02.00 for details.
- 3. See Section 05110-03.00 for details.
- 4. See Section 05110-04.00 for details.
- 5. See Section 05110-05.00 for details.

**References:**

- 1. ACI 308R-10, Concrete Placement Practices, 10th Edition, 2010.
- 2. ACI 309R-10, Concrete Pumping Practices, 10th Edition, 2010.
- 3. ACI 315R-10, Reinforcing Steel Detailing, 10th Edition, 2010.
- 4. ACI 318R-11, Building Code Requirements for Reinforced Concrete, 11th Edition, 2011.
- 5. ACI 332R-10, Formwork for Concrete, 10th Edition, 2010.

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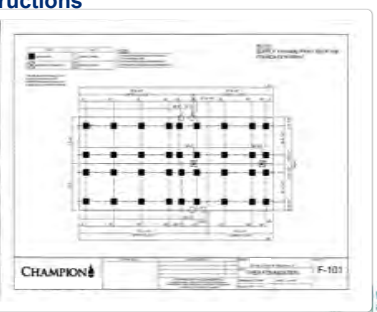
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### Installation Instructions Install Footings

Determine Pier Locations




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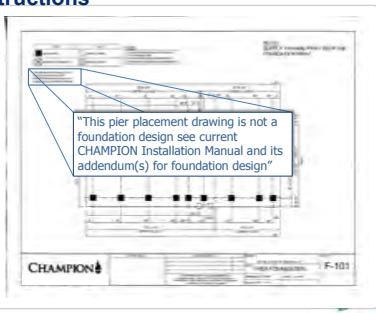
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### Installation Instructions Install Footings

Determine Pier Location




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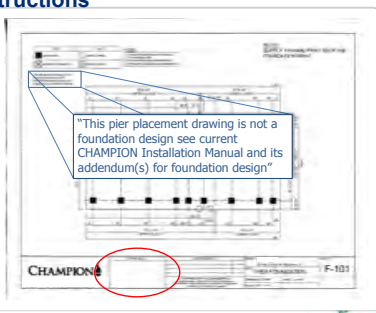
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### Installation Instructions Install Footings

Determine Pier Location




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### Installation Instructions Install Footings

Undisturbed soil  
At/below Frost Line  
Level, flat smooth

- Place the bottom of footings on undisturbed soil or fill compacted to at least 90% of its maximum relative density.
- In freezing climates protect footings from the effects of frost heave in accordance with any LAHU requirements (see **Prepare the Site**, p. 13). Place the bottom of the footings below the frost line (insulated foundations and monolithic slabs are other frost protection options not covered in this manual).
- Make sure the top surface of the footing is level, flat, and smooth.

CHAMPION F-101

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### Installation Instructions Install Footings

Determine Pier Loads (Frame – no perimeter blocking required)

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

Determine Pier Loads (Frame – no perimeter blocking required)

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

Determine Pier Loads (Frame – no perimeter blocking required)

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	<b>6340</b>	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

6340

Determine Minimum Footer Size for Square & Rectangular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Size (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	256	16x16	6	2660	6	2660
	384	24x16	6	4000	6	4000
	576	24x24	8	6000	6	6000
	1024	32x32	12	8000	8	10660

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### Installation Instructions Install Footings

6340

Determine Minimum Footer Size for Square & Rectangular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Size (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	256	16x16	6	2660	6	2660
	384	24x16	6	4000	6	4000
	576	24x24	8	6000	6	6000
	1024	32x32	12	8000	8	10660

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### Installation Instructions Install Footings

6340

Determine Minimum Footer Size for Square & Rectangular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Size (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	256	16x16	6	2660	6	2660
	384	24x16	6	4000	6	4000
	576	24x24	8	6000	6	6000
	1024	32x32	12	8000	8	10660

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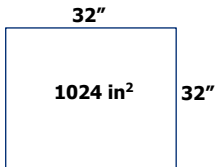
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**Installation Instructions**  
**Install Footings**

Footer size 32" x 32" = 1024 in<sup>2</sup>




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**Installation Instructions**  
**Install Footings**

Footer size 32" x 32" = 1024 in<sup>2</sup>




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**Installation Instructions**  
**Install Footings**

**6340**

Determine Minimum Footer Size for Circular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370

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### Installation Instructions Install Footings

**6340**

Determine Minimum Footer Size for Circular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370

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### Installation Instructions Install Footings

**6340**

Determine Minimum Footer Size for Circular Shapes  
(Default Soil Capacity)

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	<b>28</b>	"	6410	"	6410
	800	32	"	8000	"	8370

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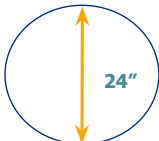
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### Installation Instructions Install Footings

Footer size 24" round



**24" Diameter equivalent**  
**3.14\*12<sup>2</sup>= 452 sq.in.**




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### Installation Instructions Footer Size

452sqin

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370

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### Installation Instructions Footer Size

452sqin

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370

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### Installation Instructions Footer Size

452sqin

Soil Bearing Capacity	Min. Footing Area (sq. in.)	Min. Footing Dia. (in.)	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370

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### Installation Instructions Install Footings

4710

(Frame – no perimeter blocking required) Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
5ft	3110	3520	3920	3510	3960	4400
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

4710

(Frame – no perimeter blocking required) Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
5ft	3110	3520	3920	3510	3960	4400
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

4710

(Frame – no perimeter blocking required) Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
5ft	3110	3520	3920	3510	3960	4400
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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### Installation Instructions Install Footings

4710

(Frame – no perimeter blocking required) Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width					
	South (20psf)			Middle (30psf)		
	12ft	14ft	16ft	12ft	14ft	16ft
4ft	2490	2820	3140	2810	3170	3520
5ft	3110	3520	3920	3510	<b>3960</b>	4400
6ft	3730	4230	4710	4210	4760	5270
8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

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Soil Bearing Capacity	Min. Footing Area	Min. Footing Dia.	8x16 single stack		16x16 double stack	
			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	254	18	6	2650	-	-
	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370
2500	254	18	6	4410	-	-
	452	24	"	7850	6	7850
	615	28	"	8000	"	10690
	800	32	"	-	"	13960

6340




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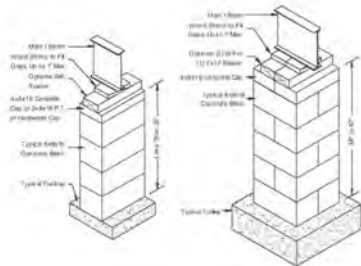
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### Installation Instructions Pier Construction

8x16 Single Stack to 36"

16x16 Double Stack to 67"




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### Installation Instructions Pier Construction

8x16 Single Stack to 36"

16x16 Double Stack to 36"



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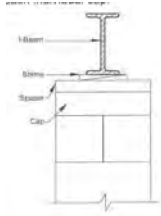
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### Installation Instructions Pier Construction

#### Caps

- Cap hollow block piers to distribute load
- Must be same LxW of pier blocks
- Must be perpendicular to both the main beam and blocks below
- Dimensions per Installation Instructions



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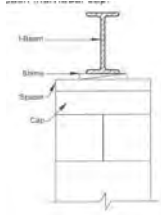
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### Installation Instructions Pier Construction

#### Caps

- Cap hollow block piers to distribute load
- Must be same LxW of pier blocks
- Must be perpendicular to both the main beam and blocks below
- Dimensions per Installation Instructions

**Champion Permissible Caps**  
**Solid Masonry 4"x8"x16"**  
**PT Lumber 2"x8"x16"**  
**Corrosion Protected Steel min. 1/2" thick**



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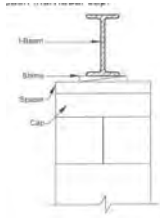
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### Installation Instructions Pier Construction

#### Spacers

- When the space to be shimmed is greater than 1" but less than a solid cap block or pier block, use hardwood dimensional lumber as spacer




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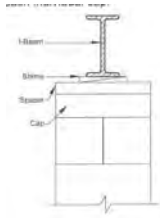
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### Installation Instructions Pier Construction

#### Spacers

- When the space to be shimmed is greater than 1" but less than a solid cap block or pier block, use hardwood dimensional lumber as spacer

**Champion Permissible Spacers**  
Nominal 1" or 2" thick lumber  
2" or 4" concrete block




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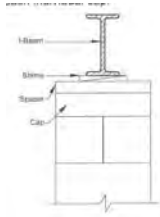
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### Installation Instructions Pier Construction

#### Shims

- Always in pairs
- Fill no more than 1" space
- Driven tight
- For split caps, install shims and spacers over EACH individual cap




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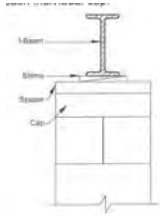


### Installation Instructions Pier Construction

#### Shims

- Always in pairs
- Fill no more than 1" space
- Driven tight
- For split caps, install shims and spacers over EACH individual cap

**Champion Permissible Shims/Wedges**  
 Hardwood min. 4" wide x 6" long x 1" thick.  
 Plastic must be listed with load capacity




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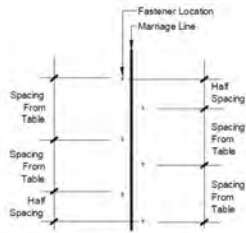
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### Installation Instructions Multi-Sectional Fastening

5/16" x 4 1/2" lag screw with washer  
 36" Spacing

Must penetrate the opposite rim joist by a minimum of 1 1/2"

Additional fasteners:  
 each end of home  
 each side of through-the-rim crossover ducts




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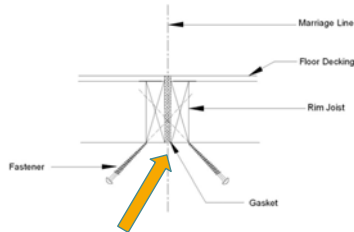
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### Installation Instructions Multi-Sectional Fastening



**Gaps between structural elements not to exceed 1". Gaps larger than 1/2" must be filled with plywood or shims. Home sections are to be in contact with each other.**




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### Installation Instructions Multi-Sectional Fastening

HVAC Crossover Ducts



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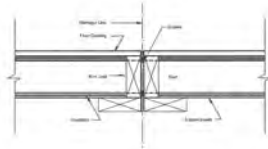
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### Installation Instructions Multi-Sectional Fastening

HVAC Crossover Ducts



**Checking through-the-rim-ducts.** Ensure that through-the-rim-duct connections are secure and tight after the home sections are together.

Figure 27. In-floor duct showing crossover through rim joist

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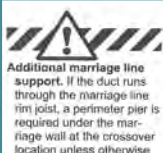
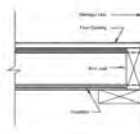
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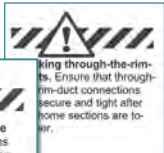
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### Installation Instructions Multi-Sectional Fastening

HVAC Crossover Ducts



**Additional marriage line support.** If the duct runs through the marriage line rim joist, a perimeter pier is required under the marriage wall at the crossover location unless otherwise noted on the manufacturer's blocking plan or other supplemental documents, or unless the home is constructed with a perimeter support system.



**Checking through-the-rim-ducts.** Ensure that through-the-rim-duct connections are secure and tight after home sections are together.

Figure 27. In-floor duct showing crossover through rim joist

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A Division of New York Department of State

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**Installation Instructions**  
**Plumbing Issues**

Sanitary Sewer

- Piping shall be supported so as to ensure alignment and prevent sagging
- Hangers and anchors shall be of sufficient strength to maintain their share of the weight of pipe and its contents
- Hangers and strapping shall be of approved material

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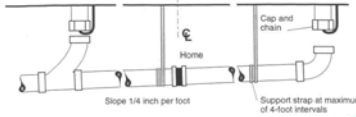
### Installation Instructions Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

**Support pipe 48"oc or less by approved method**

ABS to PVC connections by approved methods




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### Installation Instructions Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

**Support pipe 48"oc**

ABS to PVC connect




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### Installation Instructions Stabilizing Systems

Determine anchor types / locations

TABLE 21. ANCHOR LOCATION TYPES<sup>1</sup>

Location	Type	Wind Zone I	Wind Zones II and III		See page
			Yes	No	
Sidewall	Frame	Yes	Yes	61	<del>           (The entire table content is crossed out with a large 'X')         </del>
	Vertical	No	Yes	65	
End wall	Frame	Yes	Yes	65	
	Vertical	No	No	65	
Tag Unit	Frame	Yes	NA	65	
	Vertical	No	NA	65	
Porch Post	Frame	Yes	NA	65	
	Vertical	No	Vertical Straps	65	
Off Set Unit	Same as Single Section Home			65	

Connect any factory-installed sidewall tie-down straps to a ground anchor regardless of the wind zone in which the home is placed.




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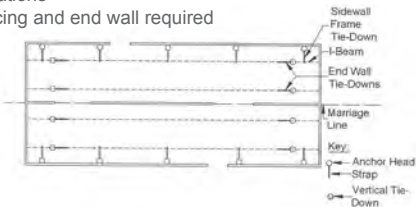
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### Installation Instructions Stabilizing Systems

Determine anchor locations

Sidewall max. spacing and end wall required




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### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*



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### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

**TABLE 22. WIND ZONE | SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
Roof Slope Maximum 4:12 (12 degrees)

Floor level	Sidewall height	Height from Ground to Top of Fin	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
1st	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2nd	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
3rd	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
4th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
5th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
6th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
7th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
8th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
9th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
10th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"

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### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

**TABLE 22. WIND ZONE | SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
Roof Slope Maximum 4:12 (12 degrees)

Floor level	Sidewall height	Height from Ground to Top of Fin	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
1st	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2nd	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
3rd	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
4th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
5th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
6th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
7th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
8th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
9th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"
10th	8'-0"	0'-0" to 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		8'-0" to 16'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		16'-0" to 24'-0"	8'-0"	8'-0"	8'-0"	8'-0"

Floor Width

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### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

Floor Width  
Sidewall Height

**TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
Roof Slope Maximum 4:12 (2.08 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
12 ft	10 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	14 ft	14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-0" to 15'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-6" to 16'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
14 ft	12 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	16 ft	16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-0" to 17'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-6" to 18'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-0" to 18'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-6" to 19'-0"	8'-0"	12'-0"	8'-0"	12'-0"



### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

Floor Width  
Sidewall Height  
Height of Pier

**TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
Roof Slope Maximum 4:12 (2.08 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
12 ft	10 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	14 ft	14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-0" to 15'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-6" to 16'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
14 ft	12 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	16 ft	16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-0" to 17'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-6" to 18'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-0" to 18'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-6" to 19'-0"	8'-0"	12'-0"	8'-0"	12'-0"



### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

Floor Width  
Sidewall Height  
Height of Pier  
Beam Spacing

**TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
Roof Slope Maximum 4:12 (2.08 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
12 ft	10 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	14 ft	14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-0" to 15'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		15'-6" to 16'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
14 ft	12 ft	12'-0" to 12'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		12'-6" to 13'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-0" to 13'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		13'-6" to 14'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-0" to 14'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		14'-6" to 15'-0"	8'-0"	12'-0"	8'-0"	12'-0"
	16 ft	16'-0" to 16'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		16'-6" to 17'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-0" to 17'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		17'-6" to 18'-0"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-0" to 18'-6"	8'-0"	12'-0"	8'-0"	12'-0"
		18'-6" to 19'-0"	8'-0"	12'-0"	8'-0"	12'-0"





### Installation Instructions Stabilizing Systems

Sidewall spacing  
*Utilize appropriate table*

**TABLE 22. WIND ZONE | SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
*Roof Slope Maximum 4:12 (3:12 recommended)*

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing 8'-0"	Beam Spacing 10'-0"	Beam Spacing 8'-0"	Beam Spacing 10'-0"
8'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
11'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
14'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
17'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"

Floor Width →  
 Sidewall Height →  
 Height of Pier →  
 Beam Spacing →  
 Roof Pitch →



### Installation Instructions Stabilizing Systems

*Example:*  
28' Double Wide  
4:12 Roof Pitch

**TABLE 22. WIND ZONE | SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
*Roof Slope Maximum 4:12 (3:12 recommended)*

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing 8'-0"	Beam Spacing 10'-0"	Beam Spacing 8'-0"	Beam Spacing 10'-0"
8'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
11'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
14'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
17'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"



### Installation Instructions Stabilizing Systems

*Example:*  
28' Double Wide  
4:12 Roof Pitch

**14' Floor Width**

**TABLE 22. WIND ZONE | SIDEWALL FRAME ANCHOR MAXIMUM SPACING**  
*Roof Slope Maximum 4:12 (3:12 recommended)*

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing 8'-0"	Beam Spacing 10'-0"	Beam Spacing 8'-0"	Beam Spacing 10'-0"
8'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
11'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
14'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
17'	11'0"	1'-0" to 3'-0"	4'-0"	4'-0"	4'-0"	4'-0"
		3'-0" to 6'-0"	8'-0"	8'-0"	8'-0"	8'-0"
		6'-0" to 9'-0"	12'-0"	12'-0"	12'-0"	12'-0"
		9'-0" to 12'-0"	16'-0"	16'-0"	16'-0"	16'-0"
		12'-0" to 15'-0"	20'-0"	20'-0"	20'-0"	20'-0"





### Installation Instructions Stabilizing Systems

Example:  
28' Double Wide  
4:12 Roof Pitch

- 14' Floor Width
- 96" Sidewall Height
- 28" Height of Pier
- 99.5" Beam Spacing

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (25 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
14'	96"	28"	99.5"	99.5"	99.5"	99.5"
		36"	99.5"	99.5"	99.5"	99.5"
		44"	99.5"	99.5"	99.5"	99.5"
		52"	99.5"	99.5"	99.5"	99.5"
		60"	99.5"	99.5"	99.5"	99.5"
		68"	99.5"	99.5"	99.5"	99.5"
		76"	99.5"	99.5"	99.5"	99.5"
		84"	99.5"	99.5"	99.5"	99.5"
		92"	99.5"	99.5"	99.5"	99.5"
		100"	99.5"	99.5"	99.5"	99.5"

**\* 13' - 05"**



### Installation Instructions Stabilizing Systems

Example:  
28' Double Wide  
4:12 Roof Pitch

- 14' Floor Width
- 96" Sidewall Height
- 28" Height of Pier
- 99.5" Beam Spacing

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (25 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
14'	96"	28"	99.5"	99.5"	99.5"	99.5"
		36"	99.5"	99.5"	99.5"	99.5"
		44"	99.5"	99.5"	99.5"	99.5"
		52"	99.5"	99.5"	99.5"	99.5"
		60"	99.5"	99.5"	99.5"	99.5"
		68"	99.5"	99.5"	99.5"	99.5"
		76"	99.5"	99.5"	99.5"	99.5"
		84"	99.5"	99.5"	99.5"	99.5"
		92"	99.5"	99.5"	99.5"	99.5"
		100"	99.5"	99.5"	99.5"	99.5"

**\* 13' - 05"**

**\* Indicates a configuration that will require additional strap connected to far beam**



### Installation Instructions Stabilizing Systems

Example:  
28' Double Wide  
4:12 Roof Pitch

- 14' Floor Width
- 96" Sidewall Height
- 28" Height of Pier
- 99.5" Beam Spacing

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (25 degrees)

Floor Width	Sidewall Height	Height from Ground to Top of Pier	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
14'	96"	28"	99.5"	99.5"	99.5"	99.5"
		36"	99.5"	99.5"	99.5"	99.5"
		44"	99.5"	99.5"	99.5"	99.5"
		52"	99.5"	99.5"	99.5"	99.5"
		60"	99.5"	99.5"	99.5"	99.5"
		68"	99.5"	99.5"	99.5"	99.5"
		76"	99.5"	99.5"	99.5"	99.5"
		84"	99.5"	99.5"	99.5"	99.5"
		92"	99.5"	99.5"	99.5"	99.5"
		100"	99.5"	99.5"	99.5"	99.5"

**\* Indicates a configuration that will require additional strap connected to far beam**



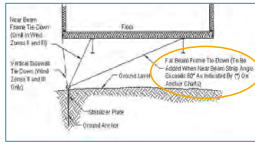
### Installation Instructions Stabilizing Systems

Example:  
28' Double Wide  
4:12 Roof Pitch

28" Height of Pier



28"



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### Installation Instructions Stabilizing Systems

Side wall anchor

TABLE 21. ANCHOR LOCATION TYPE

Location	Type	Wind Zone 1	Wind Zones 2 and 3	See page
Sidewall	Frame	Yes	Yes	61
	Vertical	No	Yes	65
End wall	Frame	Yes	Yes	65
	Vertical	No	No	66
Tag Unit	Frame	Yes	NA	65
	Vertical	No	NA	65
Porch Post	Vertical	No	All Vertical Straps	65
On Cast Deck	Same as Single	Section Header		65

Connect any factory-installed sidewall tie-down straps to a ground anchor regardless of the wind zone in which the home is placed.



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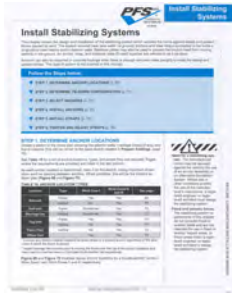
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### Installation Instructions Stabilizing Systems

Anchor Depths

- ground anchors "shall extend below the established frost line into undisturbed soil."



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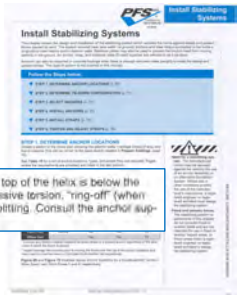
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### Installation Instructions Stabilizing Systems

#### Anchor Depths

- ground anchors "shall extend below the established frost line into undisturbed soil."

Make sure the anchor is of sufficient length such that the top of the helix is below the frost line. Select a shaft diameter sufficient to resist excessive torsion, "ring-off" (when the helix or anchor head separates from shaft) or shaft splitting. Consult the anchor supplier for guidance.




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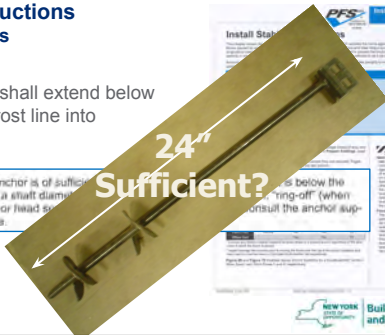
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### Installation Instructions Stabilizing Systems

#### Anchor Depths

- ground anchors "shall extend below the established frost line into undisturbed soil."

Make sure the anchor is of sufficient length such that the top of the helix is below the frost line. Select a shaft diameter sufficient to resist excessive torsion, "ring-off" (when the helix or anchor head separates from shaft) or shaft splitting. Consult the anchor supplier for guidance.




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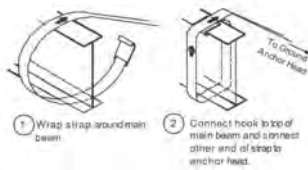
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### Installation Instructions Stabilizing Systems

#### Tie Downs

Install per manufacturers specifications




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### Installation Instructions Stabilizing Systems

Tie Downs  
Install per manufacturer



**Strap to beam connection.**  
Regardless of the strap supplier's recommendations, the strap must be connected to the top of the main beam to prevent damage to the structure.




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### Installation Instructions Stabilizing Systems

Tie Downs  
Install per manufacturer



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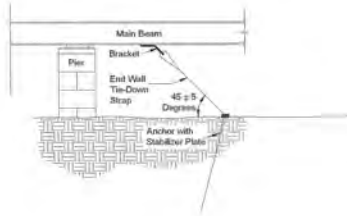
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### Installation Instructions Stabilizing Systems

End wall anchor configuration




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### Installation Instructions Stabilizing S

End wall anch



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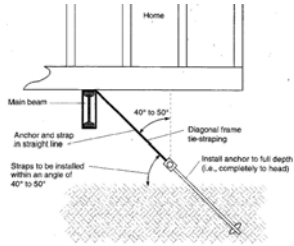
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### Installation Instructions Stabilizing Systems

Stabilizer Plates ?



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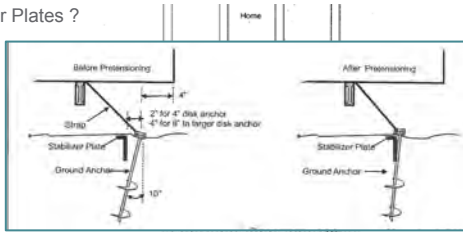
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### Installation Instructions Stabilizing Systems

Stabilizer Plates ?



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### Installation Instructions Stabilizing Systems

#### Single Slot Buckle




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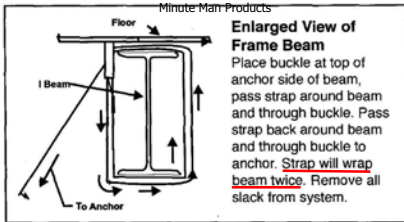
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### Installation Instructions Stabilizing Systems

#### Single Slot Buckle

#### Single Slot Buckle With Strap

Minute Man Products



**Enlarged View of Frame Beam**  
Place buckle at top of anchor side of beam, pass strap around beam and through buckle. Pass strap back around beam and through buckle to anchor. Strap will wrap beam twice. Remove all slack from system.

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### Installation Instructions Stabilizing Systems

capable of resisting an working load of 3150lbs and withstand a 50% overload (4750lbs).



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### Installation Instructions Stabilizing Systems

capable of resisting an working load of 3150lbs and withstand a 50% overload (4750lbs).

What is the working load of 1/4" steel cable?



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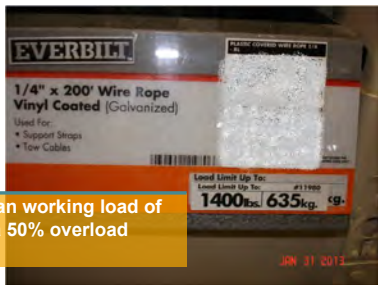
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Working load of 1/4" steel cable: 1400 lbs. Code Compliant???



“...capable of resisting an working load of 3150lbs and withstand a 50% overload (4750lbs).”

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### Installation Instructions Stabilizing Systems

- Manufactured Anchoring Systems
- Certified by design prof.
- Acceptable to AHJ
- Frost protected slab or footing to frost line




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### Installation Instructions Stabilizing Systems

- Manufactured Anchoring Systems
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### Installation Instructions Stabilizing Systems

- Manufactured Anchoring Systems
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- Frost protected slab




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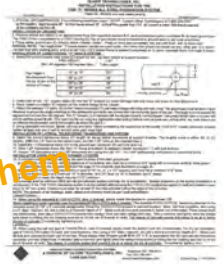
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### Installation Instructions Stabilizing Systems

- Manufactured Anchoring Systems
- Installed per manufacturers installation instructions

**Do You Read Them**




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### Installation Instructions Stabilizing Systems

- Manufact
- Installed p
- instructi



Min. 45 degrees (30 degrees Max.)	Tube Length
14" to 12"	20"
18" to 22"	28"
24" to 30"	38"
30" to 42"	44"
36" to 48"	54"

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36" to 48"	54"

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### Installation Instructions Stabilizing Systems

- Manufacturer's instructions
- **Not an acceptable installation**

Pier height - the dimension from the top of pier to the bottom of footer	Pier length
14" to 12"	20"
18" to 20"	28"
24" to 28"	36"
30" to 40"	44"
36" to 48"	54"

Foot square to expose firm, level undisturbed soil or controlled fill for each ground pier. Top of ground pier must be installed at ground level or per local jurisdiction. Always ensure pier is completely into soil until flush with or below soil. Pier serves as a pier under the home and should be loaded as any other pier. It is required before home is lowered completely on to piers, complete items 4 through 6 below.

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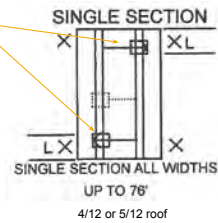
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### Alt. Tie Downs & End Straps

- 2 Lateral & Longitudinal systems
- At least 2ft but no more than 1/4 the length from the end




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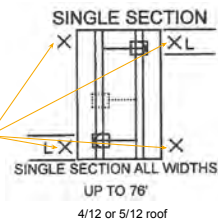
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### Alt. Tie Downs & End Straps

- 2 Lateral & Longitudinal systems
- At least 2ft but no more than 1/4 the length from the end
- Single Section REQUIRE 2 anchors per side. Not more than 2ft from end.




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### Flood Zone Requirements R322.1.9 Manufactured Homes

- The bottom of the frame of new and replacement... shall be elevated to or above the elevation specified in R322.2 or R322.3
- As built certification is required




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### Flood Zone Requirements R322.1.9 Manufactured Homes

- The bottom of the frame of new and replacement... shall be elevated to or above the elevation specified in R322.2 or R322.3
- As built certification is required



**HUD places the burden on the Installer to determine whether a home site is wholly or partly in a flood hazard area and to obtain additional designs, if needed.**

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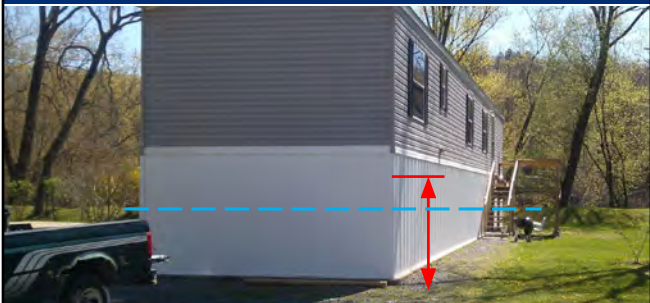
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### Exterior Work

Repair and Seal Bottom Board

- Inspect for holes & gaps
- Replace missing insulation
- Patch large openings & tape small openings – per Installation Instructions




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### Exterior Work

Repair and Seal Bottom Board

- Inspect for holes & gaps
- Replace missing insulation
- Patch large openings & tape small openings – per Installation Instructions



**A continuous and sealed bottom board is critical for home performance, energy efficiency, protection against moisture problems, prevention of pipe freezing and protection against insects and rodents.**




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### Exterior Work

Repair and Seal Bottom Board

- Inspect for holes & gaps
- Replace missing insulation
- Patch large openings & tape small openings – per Installation Instructions




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### Exterior Work

- Ground Moisture Retarder
- REQUIRED (by: Manuf & AE402.6)
  - Min 6mil poly
  - Joints overlapped 12"
  - Seal joints with tape or adhesive
  - Weight down with gravel
  - Repair voids
  - Pre-slab




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### Exterior Work

#### Skirting

- Structural or non-structural perimeter crawlspace enclosure
- Extend vents, drains & inlets to outside
- Access (18"x24" min) near utility connections




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### Exterior Work

#### Skirting

- Structural or non-structural perimeter crawlspace enclosure
- Extend vents, drains & inlets to outside
- Access (18"x24" min) near utility connections




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- Follow perimeter of the homes conditioned space.

Decks & Porches when part of home

Fully Vented Panels installed to allow water to drain




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### Exterior Work

Ventilation  
REQUIRED (by: Manuf & AE402.6) when skirted

- One square foot of vent per 1,500 square foot of under floor area
- Unless using integral vent skirting vents must be equal size & opposite ends of home
- One ventilation opening within 3ft of each corner




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### Exterior Work

Ventilation  
REQUIRED (by: Manuf & AE402.6) when skirted

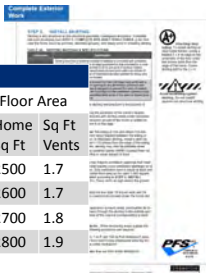
- One square foot of under floor area
- Unless using integral vent skirting vents must be equal size & opposite ends of home
- One ventilation opening within 3ft of each corner

Foundation Ventilation

One Sq Ft of Free Air Vent per 1500 Sq Ft of Floor Area

Home Sq Ft	Sq Ft Vents	Home Sq Ft	Sq Ft Vents	Home Sq Ft	Sq Ft Vents	Home Sq Ft	Sq Ft Vents
1000	.7	1500	1.0	2000	1.3	2500	1.7
1100	.7	1600	1.0	2100	1.4	2600	1.7
1200	.8	1700	1.1	2200	1.5	2700	1.8
1300	.9	1800	1.2	2300	1.5	2800	1.9

Reminder: One sq ft = 144 sq inches




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### Exterior Work

Ventilation Calculations - Integral Skirting

- 28x56 New Home = 1566sqft
- Vapor Barrier REQUIRED
- 1sqft vent per 1500sqft floor space

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### Exterior Work

Ventilation Calculations - Integral Skirting

- 28x56 New Home = 1566sqft
- Vapor Barrier REQUIRED
- 1sqft vent per 1500sqft floor space
- Need 1sqft of free vent (144sqinches)

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### Exterior Work

Ventilation Calculations - Integral Skirting

- 28x56 New Home = 1566sqft
- Vapor Barrier REQUIRED
- 1sqft vent per 1500sqft floor space
- Need 1sqft of free vent (144sqinches)
- Use 32" tall center vent (13sqinches)

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### Exterior Work

Ventilation Calculations - Integral Skirting

- 28x56 New Home = 1566sqft
- Vapor Barrier REQUIRED
- 1sqft vent per 1500sqft floor space
- Need 1sqft of free vent (144sqinches)
- Use 32" tall center vent (13sqinches)
- $144 / 13 = 12$  panels

Need 126 panels to skirt whole house

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### Exterior Work



A Division of New York Department of State



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### Exterior Work



A Division of New York Department of State



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### Exterior Work



A Division of New York Department of State



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin

Amount of venting provided?  
Qty: 2 - 8"x16" block vents



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin

Amount of venting provided?  
Qty: 2 - 8"x16" block vents

$(8 \times 16 = 128) \times 2 = 256 \text{sqin}$



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin

Amount of venting provided?

Qty: 2 - 8"x16" block vents

$(8 \times 16 = 128) \times 2 = 256 \text{sqin}$

All set, right?



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin

Amount of venting provided?

Qty: 2 - 8"x16" block vents

$(8 \times 16 = 128) \times 2 = 256 \text{sqin}$

All set, right?



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: 144sqin



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### Exterior Work

Vents are required to be equal size and opposite sides of foundation

Amount of venting required: **144sqin**  
 $144/45=3.2$

Min. 4 vents within 3ft of corners



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### Accessory Structures

Self supporting unless

DAPIA approved design provided  
OR  
Designed by a design professional



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### Outside combustion air?



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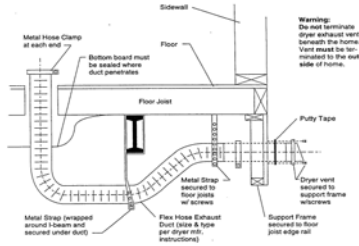
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### Ventilation and Condensation Control

- Dryer Vents, Condensation Lines, Hot Water Heater Drains, Heat Producing Appliances, etc must extend through skirting to exterior.




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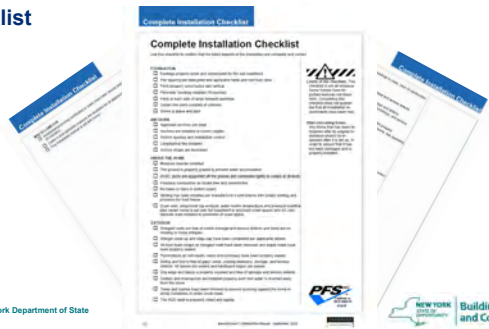
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### Checklist




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### Checklist

- WATER AND DRAIN SYSTEMS**
- Crossover and service connection and splices have been properly made with correct materials
  - Water and drain lines are insulated or otherwise protected from freezing
  - Pipe supports are installed and properly spaced
  - Dryer slope has been maintained on all drain lines
  - All necessary inspections and tests have been performed
  - All service, heating, tubes, and boilers operate properly
  - All hot and cold water lines are properly connected to fixtures, dispense water as labeled, and operate properly
- ELECTRICAL SYSTEMS**
- The panel amp/size matches the connection to the home.
  - The home has been properly grounded
  - The main power supply has been properly inspected and tested by a licensed electrician
  - All electrical crossovers have been connected
  - All receptacles, switches, and light fixtures operate properly
  - Ground fault circuit interrupters operate properly
  - All exterior lights have been properly installed.
- GAS/FUEL OIL SYSTEMS**
- The gas system pressure test has been conducted
  - Connections between units are properly made with access as required
  - The main fuel line has been properly connected and tested by a qualified technician.

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### Checklist

- WATER AND DRAIN SYSTEMS**
- Crossover and service connection and splices have been properly made with correct materials
  - Water and drain lines are insulated or otherwise protected from freezing
  - Pipe supports are installed and properly spaced
  - Proper slope has been maintained on all drain lines
  - All necessary inspections and tests have been performed
  - All sinks, bathtubs, and toilets operate properly
  - All hot and cold water lines are properly connected to fixtures, dispense water as

**Potable Water Testing**  
Hydrostatic or Pneumatic:

- Hydrostatic method (preferred)
1. Fill all water lines including water heater.
  2. Pressurize system.
  - Utilize pump, valve and gauge.
  - Pressurize to 100psi; isolate w/ shutoff
  3. Hold pressure. 15minutes
  4. Find and fix leaks
  5. **REPEAT until pass**



By a qualified technician

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### Checklist

- WATER AND DRAIN SYSTEMS**
- Crossover and service connection and splices have been properly made with correct materials
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  - Proper slope has been maintained on all drain lines
  - All necessary inspections and tests have been performed
  - All sinks, bathtubs, and toilets operate properly
  - All hot and cold water lines are properly connected to fixtures, dispense water as labeled, and operate properly
- ELECTRICAL SYSTEMS**
- The panel and ground are properly bonded
  - The main panel is properly labeled
  - All electrical connections are properly made
  - All receptacles, switches, and light fixtures operate properly
  - Ground fault circuit interrupters operate properly
  - All exterior lights have been properly installed
- GAS/FUEL OIL SYSTEMS**
- The gas system pressure test has been conducted
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  - The main fuel line has been properly connected and tested by a qualified technician

**Remember the Drain System Testing**  
2. Part Method

1. Drain Tightness
  1. All fixtures connected plug main drain line
  2. Fill with water to rim of toilet bowl
  3. Hold 15 minutes
  4. Find and fix leaks
  5. REPEAT until pass
2. Max Flow -after Part 1 success
  1. Plug all fixtures and fill with water
  2. Release simultaneously
  3. Find and fix leaks
  4. REPEAT until pass

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### Checklist

- WATER AND DRAIN SYSTEMS**
- Crossover and service connection and splices have been properly made with correct materials
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### Checklist

#### WATER AND DR

- Discover and materials
- Water and dirt
- Paper supports
- Proper slope
- All necessary
- All sinks, bats
- All hot and cold water lines are properly connected to fixtures, dispense water as labeled, and operate properly

#### ELECTRICAL SY

- The panel air
- The home
- The main power
- All electrical
- All receptacle
- Ground fault
- All exterior lig

#### GAS/FUEL OIL SYST

- The gas system p
- Connections betw
- The main fuel line



Including  
1. A continuity test

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### Checklist

#### WATER AND DRAIN SYSTEMS

- Discover and service connection materials
- Water and drain lines are insulated
- Paper supports are installed and properly spaced
- Proper slope has been maintained on all drain lines
- All necessary inspections and tests
- All sinks, bathtubs, tubs, and toilets operate properly
- All hot and cold water lines are properly connected to fixtures, dispense water as labeled, and operate properly

#### ELECTRICAL SYSTEMS

- The panel amp/size matches the connection to the home
- The home has been properly grounded
- The main power supply has been properly sized
- All electrical crossovers have been
- All receptacles, switches, and light fixtures operate properly
- Ground fault circuit interrupters operate properly
- All exterior lights have been properly

#### GAS/FUEL OIL SYSTEMS

- The gas system pressure test has been conducted
- Connections between units are properly made with codes as required
- The main fuel line has been properly connected and tested by a qualified technician



Including  
1. A continuity test  
2. Operational test  
3. Polarity test

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### Checklist

#### WATER AND DRAIN SYSTEMS

- Discover and service connection and splices have been properly made with correct materials
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### Truss, Engineered Lumber or Timber Construction Placard

"An act to amend the Executive Law, in relation to notice requirements and enforcement for residential buildings with truss type, pre-engineered wood or timber construction."

Addition of Article 18 Executive Law of NY §382-b  
Passed by Senate & Assembly 6/20/2014 Signed by Gov. 9/17/2014

19 NYCRR Part 1265 "Residential Structures with Truss Type...Construction"  
Adopted 11/18/2014 by Codes Council Effective 1/1/2015

"Each new residential structure and each addition to or rehabilitation of an existing residential structure that utilizes truss type construction, pre-engineered wood construction and/or timber construction shall be identified by a sign or symbol..."

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### Truss... Placard

9" DIAMETER

REFLECTIVE BORDERS

1/2" STROKE

DESIGNATION FOR STRUCTURAL COMPONENTS THAT ARE OF TRUSS TYPE CONSTRUCTION

- VF VALID FRAMING (WALLS, PARTITIONS, CEILING)
- VR VALID ROOF FRAMING
- VFR VALID FLOOR AND ROOF FRAMING

The identification type designations shall be affixed to the exterior of the structure in a location visible to the public.

NEW YORK Building Standards and Codes

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### Truss... Placard



§1265.4 "...affixed to electric box attached to exterior of the residential structure; provided, however that:"

1. If obscure any meter or utility not allow affixation: shall be affixed to exterior adjacent to electric box
2. If no electric box or the attached electric box located where not likely seen by firefighters: shall be affixed in a location approved by LAHJ as a location likely to be seen by firefighters

Affixed prior to issuance of a C.O.

Property owner responsible for maintenance and replacement if necessary

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### Garage Additions/Add-On Structures



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### Garage Additions/Add-On Structures

24 CFR 3282.7 "Add-on: any structure (except a structure designed or produced as an integral part of a MH) which, when attached to a MH increases the area, either living or storage..."

Remember- Retailers may not sell MH that has been altered in a way which "causes a failure to conform to" HUD Code

Modifications to MH for purpose of "Add-on" Structures often remove compliance with HUD code

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



Issues addressed

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

Garage independence & support

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

Garage independence & support  
Roof modification & ventilation

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

Garage independence & support  
Roof modification & ventilation  
Fire Separation

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

- Garage independence & support
- Roof modification & ventilation
- Fire Separation
- Electrical circuits for Lighting, GFCI & smoke detectors

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

- Garage independence & support
- Roof modification & ventilation
- Fire Separation
- Electrical circuits for Lighting, GFCI & smoke detectors
- Egress Compliance

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### Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**



#### Issues addressed

- Garage independence & support
- Roof modification & ventilation
- Fire Separation
- Electrical circuits for Lighting, GFCI & smoke detectors
- Egress Compliance
- Light and ventilation

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# Important links and other information

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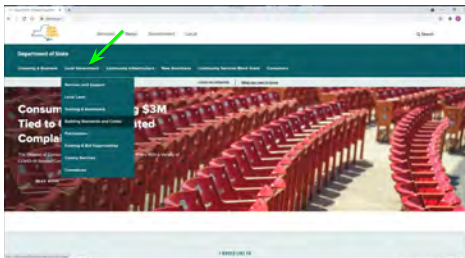
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<https://dos.ny.gov>



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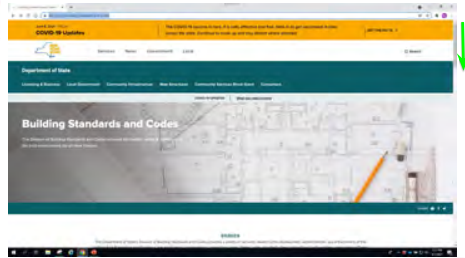
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<https://dos.ny.gov/building-standards-and-codes>



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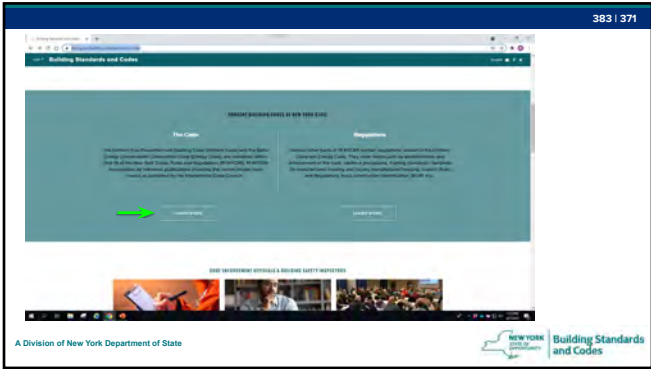
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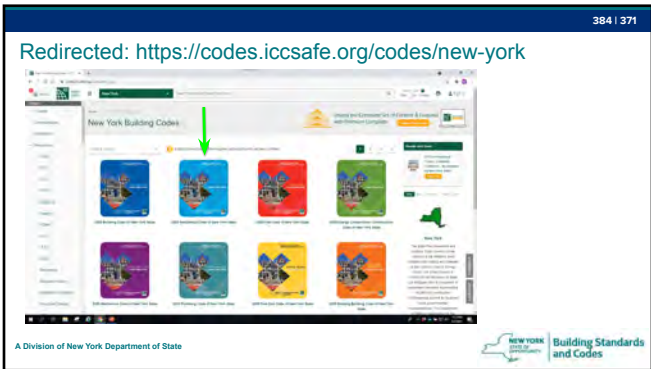
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Redirected: <https://codes.iccsafe.org/codes/new-york>




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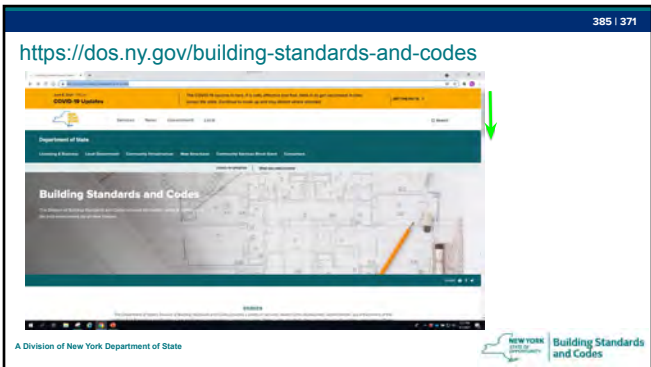
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<https://dos.ny.gov/building-standards-and-codes>




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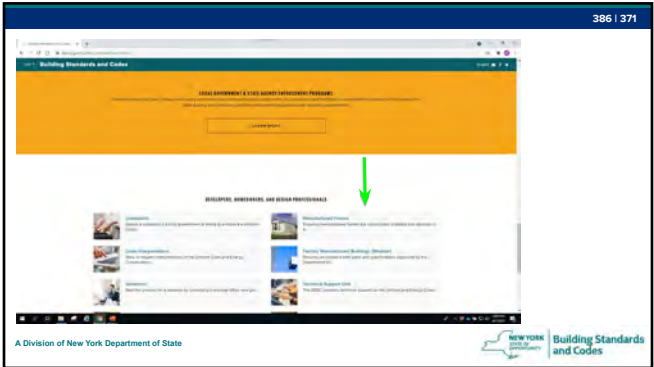
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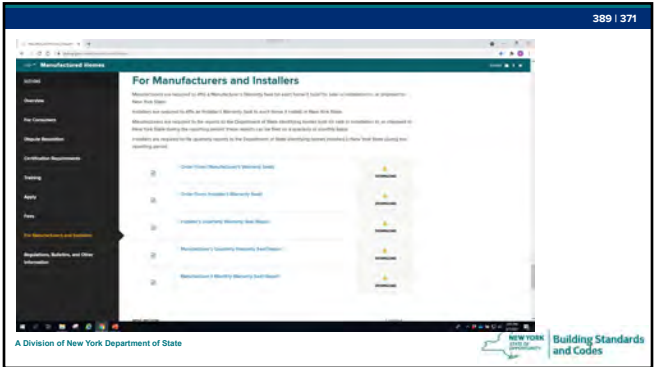
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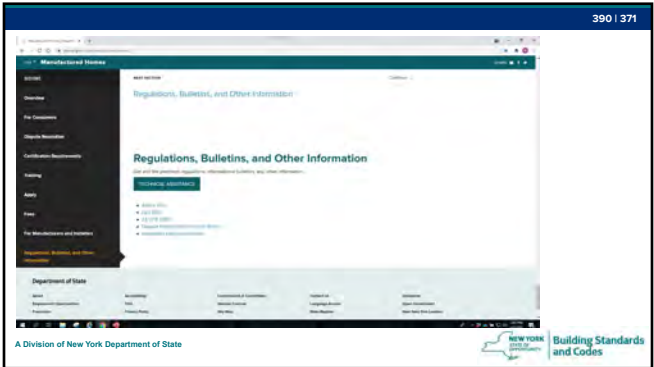
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HUD Model Installation Standard (24-CFR-3285, 2016)  
<https://www.gpo.gov/fdsys/pkg/CFR-2016-title24-vol5/pdf/CFR-2016-title24-vol5-part3285.pdf>

NFPA 225 (2017) Manufactured Home Installation © \$\$\$  
<http://catalog.nfpa.org/NFPA-225-Model-Manufactured-Home-Installation-Standard-P1241.aspx?icid=D729>

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### Reminders

- Rule #1 Building Permits and C.O.s are required for the installation



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### Reminders

- Rule #1 Building Permits and C.O.s are required for the installation
- Rule #2 Follow the Manufacturer's Instructions



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### Reminders

- Rule #1 Building Permits and C.O.s are required for the installation
- Rule #2 Follow the Manufacturer's Instructions
- Rule #3 C.O. and A.C. Inspection **PRIOR** to move-in



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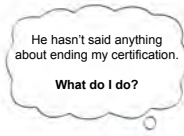
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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.



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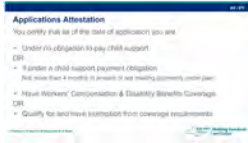
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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your




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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.
2. Include copies of all certificates of occupancy related to your certification




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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.
2. Include copies of all certificates of occupancy related to your certification
3. Include all certificates and wallet cards associated with the certified entity, including limited certificates




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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.
2. Include copies of all certificates of occupancy related to your certification
3. Include all certificates and wallet cards associated with the certified entity, including limited certificates
4. Installers need to file their quarterly report and check the final report box, and return all unused warranty seals.




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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.

No Homes Installed this Quarter?	If you have not installed any manufactured homes for this reporting period mark an <b>X</b> in the box and mark <b>NONE</b> in installed Units section then mail this report.	<input type="checkbox"/>
Has your Address or Business Information Changed?	If so, call the Dept. of State at (518) 474-4073 or mark an <b>X</b> in the box and enter new information above.	<input type="checkbox"/>
Final Report?	If so, mark an <b>X</b> in the box if you are discontinuing your business operations and this is your final report. Attach your <b>Certification and unused warranty seals</b> to this report.	<input checked="" type="checkbox"/>

4. Installers need to file their quarterly report and check the final report box, and return all unused warranty seals.




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### Steps to be released from your financial security and end certification

1. Write a letter to DOS requesting release of your security.
2. Include copies of all certificates of occupancy related to your certification
3. Include all certificates and wallet cards associated with the certified entity, including limited certificates
4. Installers need to file their quarterly report and check the final report box, and return all unused warranty seals.




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What can I clear up?

Contact Information

New York, Department of State  
Division of Building Standards & Codes  
One Commerce Plaza  
99 Washington Ave.  
Albany NY 12231-0001  
Phone: (518) 474-4073  
manufactured.housing@dps.ny.gov



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What can I clear up?

Contact Information

MHC Consultants  
160 Wilkinson Rd  
Fairport NY 14450  
Phone: 585-794-7545  
<https://consultwithmhc.com>  
[joel@consultwithmhc.com](mailto:joel@consultwithmhc.com)



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