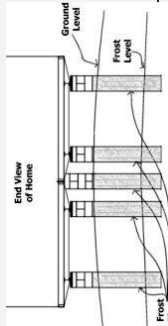


[NY] BAH4 Footings and foundations

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



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 be required to extend below the frost line.

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

Alternative Foundations Additional Requirements

Foundation Design

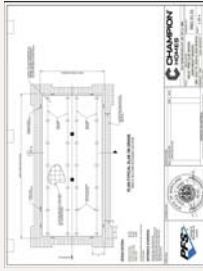
Before installer provides support or anchorage different than specified in the installation instructions...installer must:

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

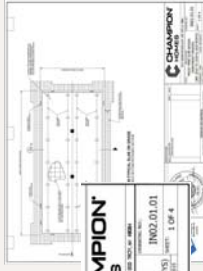


Alternative Foundations
Additional Requirements

Foundation Design

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Alternative Foundations
Additional Requirements

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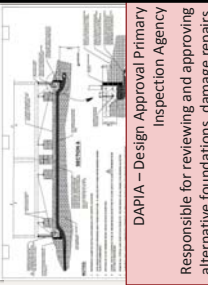


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**Alternative Foundations
Additional Requirements**
Foundation Design


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

- Obtain DAPIA-approved designs and instructions prepared by manufacturer, or**



DAPIA – Design Approval Primary Inspection Agency

Responsible for reviewing and approving alternative foundations, damage repairs, initial home design, quality assurance manuals.



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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:

- Obtain DAPIA-approved designs and instructions prepared by manufacturer, or
- 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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**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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- 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.**



[NY] BA118 Exits

Exterior stairways and ramps...shall comply with BA102.2 and all other applicable provisions of this code

BA102.2 Additions.

R318 Means of Egress

Stairways, ramps...shall comply with this section

R321 Guards

Porches, stairways, ramps more than 30" above grade

R318.5 Attachment

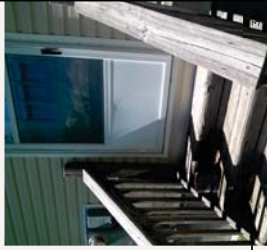
Required exterior stairs shall be positively anchored to the primary structure to resist both vertical and lateral forces **OR shall be designed to be self-supported**

HUD Code requires porches to be...?

R318.3 Landings at exterior doors

Landing are required **"on each side of each exterior door"**

Not less than the width of the door with a depth of 36"



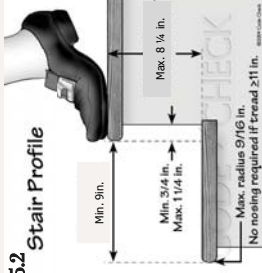
R318.3.1 Landings at required egress doors



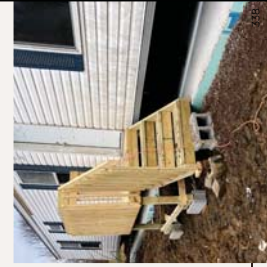
Landing not more than 1 1/2 inches lower than the threshold
Exception: Landing not more than 8 1/4 inches lower than the threshold, provided that the door does not swing over the landing

R318.7.1, R318.7.5.1 & R318.7.5.2 Stairways

Minimum stair clear width: 36 inches
Maximum Riser height: 8 1/4 inches
Minimum tread depth: 9 inches
Shall not exceed the smallest by more than: 3/8 inch



R318.7.6 Landings for stairways



There shall be a floor landing at the top and bottom of each stairway.
Minimum 36" x 36"

R403.1.4 Minimum [footing] depth

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

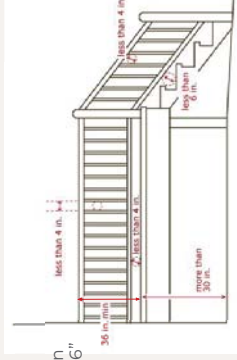


R321 Guards

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

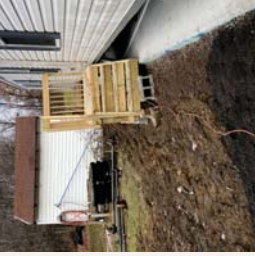
Open sided walking surfaces

Guards meeting this drawing



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.**

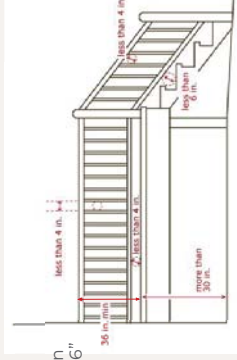


R321 Guards

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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Installation Instructions Getting Started



Locate the Data Plate

Confirm
Information
Equipment Data
Design Data



344

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Installation Instructions Getting Started



Locate the Data Plate

Confirm
Information
Equipment Data
Design Data



345

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HUD Data Plate
 Manufacturer Info
 HUD Label
 Serial Number
 Formaldehyde

MHC, Titan Homes
 851 Route 12, South
 Slingerland, NY 13465

UNIT SER # 019-000-H-AD04988A #01 SERIAL NTAT1931222

MODEL # EPB144

DATE OF MFG. 2/22/2019 "VERIFIED APPROVED BY PFE"

MHC Consultants LLC

HUD Data Plate
 Manufacturer Info
 HUD Label
 Serial Number
 Formaldehyde

MHC, Titan Homes
 851 Route 12, South
 Slingerland, NY 13465

UNIT SER # 019-000-H-AD04988A #01 SERIAL NTAT1931222

MODEL # EPB144

DATE OF MFG. 2/22/2019 "VERIFIED APPROVED BY PFE"

CHAMPION HOMES
Confirm WindZone

HUD Data Plate

Zone 1 Zone 2 Zone 3

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(Frame - no perimeter blocking required)

Determine Pier Loads
Portion of Table 6 shown.

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

355

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(Frame - no perimeter blocking required)

Determine Pier Loads
Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width		
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			7920
			8790

356

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(Frame - no perimeter blocking required)

Determine Pier Loads
Portion of Table 6 shown.

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10ft	6220	7040	7840
			7010
			7920
			8790

357

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6340

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

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

358

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6340

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

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384	24x16	6	6	4000	6	4000
576	24x24	8	8	6000	6	6000
1024	32x32	12	12	8000	8	10660

359

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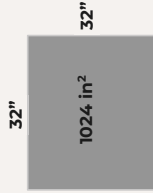
6340

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

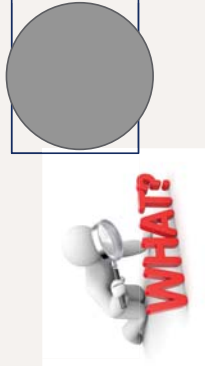
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384	24x16	6	6	4000	6	4000
576	24x24	8	8	6000	6	6000
1024	32x32	12	12	8000	8	10660

360

Footer size 32" x 32" = 1024 in²



Footer size 32" x 32" = 1024 in²



Determine Minimum Footer Size for Circular Shapes

(Default Soil Capacity)

6340

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



Determine Minimum Footer Size for Circular Shapes

(Default Soil Capacity)

6340

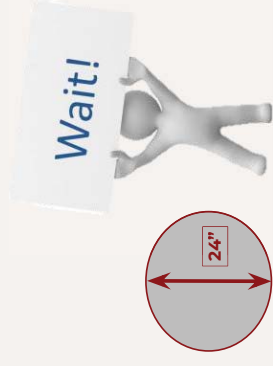
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Determine Minimum Footer Size for Circular Shapes

(Default Soil Capacity)

6340

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	615	28	"	6410	"	6410
	800	32	"	8000	"	8370



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24"

Determine Maximum Footer Loading for Circular Shapes (Default Soil Capacity)

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

367

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24"

Determine Maximum Footer Loading for Circular Shapes (Default Soil Capacity)

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

368

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24"

Determine Maximum Footer Loading for Circular Shapes (Default Soil Capacity)

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

369

Determine Pier Spacing based on Pier Load

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

Support Spacing	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

Determine Pier Spacing based on Pier Load

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

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8ft	4980	5640	6270	5610	6340	7030
10ft	6220	7040	7840	7010	7920	8790

MHC Consultants LLC **4710**

Determine Pier Spacing based on Pier Load
 (Frame - no perimeter blocking required) Portion of Table 6 shown.

Support Spacing	Roof Load zone and max. section width					
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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

375

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			Min. Thickness	Max. Capacity	Min. Thickness	Max. Capacity
1500	452	24	6	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

374

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Alternative Foundations

permitted with approval of home manufacturer and DAPIA

ALTERNATIVE FOUNDATION SYSTEMS
 Alternative foundation systems or designs are permitted if they are approved by the home manufacturer and the manufacturer's DAPIA, and are in accordance with either of the following:

- System designs are prepared by an experienced engineer or a registered architect or licensed and certified by an engineer or architect and approved by the local building authority.
- System designs are prepared by a nationally recognized testing protocol.

PFS
 PFS SYSTEMS
 11111 11111

375

Alternative Foundations

- permitted with approval of home manufacturer and DAPIA

Design Approval Primary Inspection Agency
 • Equal to design professionals seal for purpose of manufactured housing.
 • Req. on designs and manuals

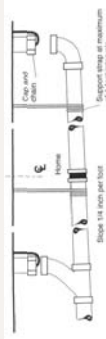


Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

Support pipe 48"oc or less by approved method
 ABS to PVC connections by approved methods



Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

Support pipe 48"oc
 ABS to PVC connections



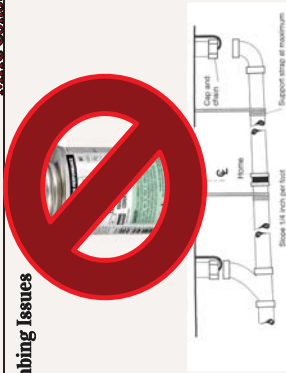
Use only solvents and glues compatible with the pipe (ABS or PVC). Follow manufacturers instructions.



Plumbing Issues



Plumbing Issues

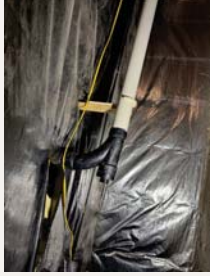


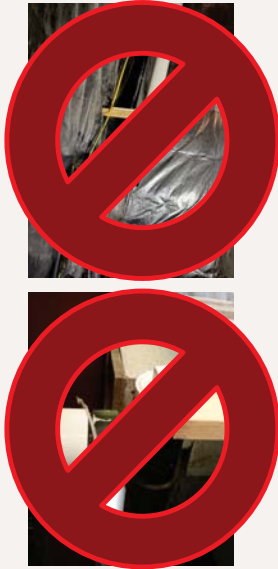
Plumbing Issues











Exterior Work Skirting

- Structural or non-structural perimeter crawlspace enclosure
- Extend vents, drains & inlets to outside
- Access (18" x 24" min) near utility connections



Exterior Work Skirting

- Structural or non-structural perimeter crawlspace enclosure
- Extend vents, drains & inlets to outside
- Access (18" x 24" min) near utility connections



Exterior Work Skirting

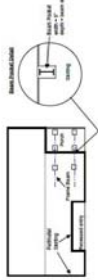
- Structural or non-structural perimeter crawlspace enclosure
- Extend vents, drains & inlets to outside
- Access (18" x 24" min) near utility connections



Follow perimeter of the homes conditioned space.

Decks & Porches when part of home

Fully Vented Panels installed to allow water to drain



Exterior Work Ventilation

- 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 3 ft. of each corner



Exterior Work Ventilation

- REQUIRED**
- One square foot of under floor area of unless use be equal
 - One vent
- | Foundation | | Ventilation | |
|------------|-------|-------------|-------|
| Home Sq Ft | Vents | Home Sq Ft | Vents |
| 1000 | .7 | 1500 | 1.0 |
| 1100 | .7 | 1600 | 1.0 |
| 1200 | .8 | 1700 | 1.1 |
| 1300 | .9 | 1800 | 1.2 |
| | | 2100 | 1.4 |
| | | 2200 | 1.5 |
| | | 2300 | 1.5 |
| | | 2500 | 1.7 |
| | | 2700 | 1.8 |
| | | 2800 | 1.9 |
- Reminder: One sq ft = 144 sq inches



Ventilation Calculations - Integral Skirting

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



Ventilation Calculations - Integral Skirting

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

• Need 1 sq ft of free vent (144 sq inches)



Ventilation Calculations - Integral Skirting

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

• Need 1 sq ft of free vent (144 sq inches)

• Use 32" tall center vent (13 sq inches)



Ventilation Calculations - Integral Skirting

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



Need 12 panels to skirt whole house







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

Amount of venting required: **144 sq in**



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

Amount of venting required: **144 sq in**



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

Amount of venting required: **144 sq in**

Amount of venting provided?

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



Amount of venting required: **144 sq in**

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

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



Amount of venting required: **144 sq in**

Amount of venting provided? Qty: 2 - 8"x16" block vents (8x16=128)x2=256 sq in

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



Amount of venting required: **144 sq in**

Amount of venting provided? Qty: 2 - 8"x16" block vents (8x16=128)x2=256 sq in All set, right?

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

Amount of venting required: **144 sq in**

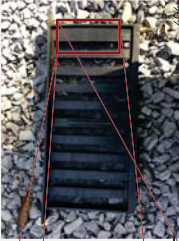
Amount of venting provided:
Qty: 2 - 8"x16" block vents
(8x16=128) x 2 = 256
All set, right?



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

Amount of venting required: **144 sq in**

Qty: 2 - 8"x16" block vents



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

Amount of venting required: **144 sq in**

144/45=3.2

Min. 4 vents within 3ft of corners



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Pocket Penetrometer



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

Soil Penetrometer, Pocket Style

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Truss, Engineered Lumber or Timber Construction Placard

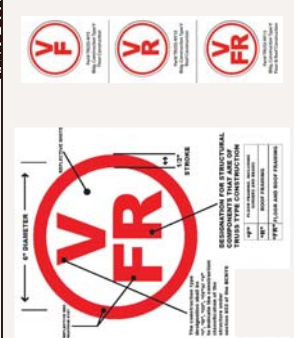
"An act to amend the Executive Law, in relation to notice requirements and enforcement for residential buildings with truss type, pre-engineered wood or timber construction."

Passed by Senate S-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..."

407


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408

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



1. If obscure any meter or utility not allow affixation: sha 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

409

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of th



1. sha

ated where not

ation approved

ters

placement if

§1265.4 "...affixed to e residential structure

1. If obscure any me affixed to exterior
2. If no electric box likely seen by firell by LAHJ as a loca

Affixed prior to issua
Property owner resp
necessary

410

§1265.4
resi




1. I
2. I

Affi
Pro
nec

411

Garage Additions/Add-On Structures



Garage Additions/Add-On Structures

24 CFR 32827 "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

Alternative Construction Approval REQUIRED

Issues addressed
Garage independence & support



Alternative Construction Approval REQUIRED

Issues addressed
Garage independence & support
Roof modification & ventilation



Alternative Construction Approval REQUIRED

Issues addressed
Garage independence & support
Roof modification & ventilation
Fire Separation



Alternative Construction Approval REQUIRED

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



Alternative Construction Approval REQUIRED

Issues addressed

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



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



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

MHC Consultants LLC

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MHC Consultants LLC

Application Attestation
 You certify that as of the date of application you are
 Under no obligation to pay child support; or
 If under an obligation to pay child support
 – Not more than 4 months in arrears or are making payments
 under plan
 And...
 Have NYS Workers' Compensation & Disability Benefits coverage;
 or
 Qualify for and have exemption from coverage requirements

425



MHC Consultants LLC

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Application Social Security & Federal ID Numbers

So you have to provide them?

- YES, Disclosure is mandatory
- DOS is required to collect for all licensees.
- Authority: **§5 of Tax Law & §3-503 General Obligations Law.**
- The information may be used for tax administration and child support administration.
- Privacy Notice is part of application.

Application Denial

- Notification in writing from DOS
- Right to appeal within 35 days





TOP REASONS WHY:

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



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- Previous experience detail. Licensing wants much more detail. Saying general contracting is not enough detail.
- **Your bond does not cover your certification.**

C. of O. and Financial Security

- Remember this slide from earlier.

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."

Standards for certification as a ...
 1210.04 ... manufacturer.
 1210.05 ... installer.
 1210.07 ... mechanic.

C. of O. and Financial Security

- Request to release Financial Security
 - Certified entity shall prove that the timeframe under which a homeowner has to file a complaint has expired.
 - Submit copies of Certificates of Occupancy to DOS
 - Other information as may be required
 - Attestation & Affidavit

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<https://dos.ny.gov>

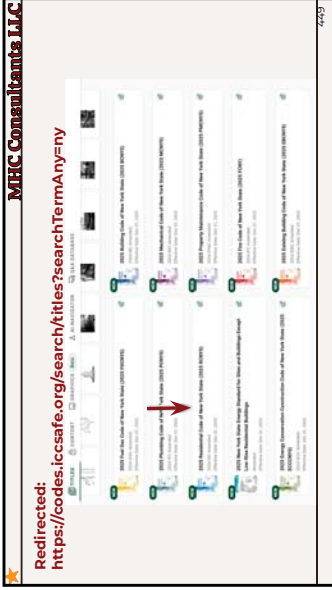


<https://dos.ny.gov/building-standards-and-codes>

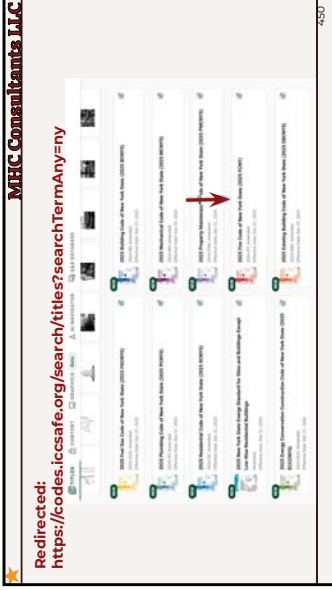




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★ Redirected:
<https://codes.iccsafe.org/search/titles?searchTermAny=ny>

The screenshot shows a search results page for the International Code Council (ICC) website. The search term is 'ny'. The results are displayed in a grid format, showing various code titles and their corresponding years. A red arrow points to the '2021 Energy Conservation - Commercial Code of New York (2021) (ENRNY)' result.

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

The screenshot shows the homepage of the New York State Building Standards and Codes website. The page features a large header image with a blueprint and a yellow banner. A red arrow points to the 'Building Standards and Codes' link in the top navigation bar.

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ETHICAL, INTEGRAL, AND HIGH PROFESSIONAL

The screenshot shows the MHC Consultants LLC website. The page is divided into several sections, each with a small image and a brief description. A red arrow points to the 'Manufacturing' section. The sections include:

- Construction:** Consultant of local governments, helping to enforce new Uniform Code.
- Code Administration:** Code Administration, Enforcement of the Uniform Code and Energy Conservation.
- Manufacturing:** MHC provides for a variety of community & regional office new jobs.
- Energy & Sustainability:** Helping to create, improve, training programs, and standards.
- Manufacturing Codes:** Helping manufacturers become an contractor, insured and licensed in.
- Energy Management Solutions:** Energy Management and plans and applications, supported by the Department of.
- Energy Codes:** The MHC provides technical support on the Uniform and Energy Codes.
- Energy Compliance:** The MHC provides technical support on the Code, Council and projects.

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<https://dos.ny.gov/code/manufactured-homes>













HUD Model Installation Standard (24-CFR-3285)
<https://www.govinfo.gov/content/pkg/CFR-2025-title24-vol15/pdf/CFR-2025-title24-vol15-part3285.pdf>

NFPA 225 (2021) Manufactured Home Installation © \$\$\$
<https://www.nfpa.org/product/nfpa-225-standard/p0225code>

Reminders

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



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



MANUFACTURED HOME INSTALLATION & SETUP

BUILDING PERMIT

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For technical assistance

Contact Information
 New York, Department of State
 Division of Building Standards & Codes
 One Commerce Plaza
 99 Washington Ave.
 Albany NY 12231-0001
 Manufactured.housing@dos.ny.gov



Department of State
 Building Standards & Codes

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If you couldn't take the poll
 If your name is wrong on your certificate
 Add it to your safe senders list





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Any questions?

