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Residential Code, Appendix BA:
BA114 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 3,000 psi 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:

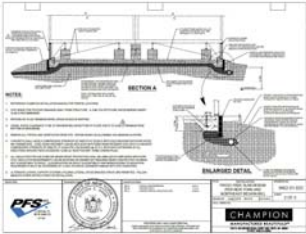
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Alternative Foundations
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1. Obtain DAPIA-approved designs and instructions prepared by manufacturer; or

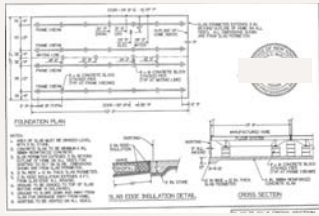


Alternative Foundations Additional Requirements

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.**

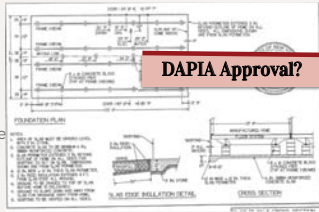


Alternative Foundations Additional Requirements

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DAPIA Approval?



Residential Code, Appendix BA: BA 118 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



**Residential Code
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?



**Residential Code
R318.3 Landings at doors**

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





**Residential Code
R318.3.1 Landings at doors**

- Landing not more than $1\frac{1}{2}$ inches lower than the threshold
- Exception: Landing not more than $8\frac{1}{4}$ inches lower than the threshold, provided that the door does not swing over the landing



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Residential Code

R318.7.1 R318.7.5.1 & R318.7.5.2 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

R318.7.6 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 [Footings] depth

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



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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Residential Code

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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Residential Code, Appendix BA:

BA 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 BA:

BA 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.

**Residential Code, Appendix BA:
BA 104.2 Alterations and repairs**

- Alterations and Repairs allowed without requiring compliance with all the requirements of the Uniform Code
 - Must conform to requirements of Appendix BO
 - 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

**Residential Code, Appendix BA:
BA 104.2 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



2011 TABLE C402.1.3—OPAQUE BUILDING THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS, U-FACTOR METHOD^a

CLIMATE ZONE	4		5		6	
	All Other	Group R	All Other	Group R	All Other	Group R
Roofs						
Insulation covering sloped roof deck	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof buildings	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Attic and other	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Walls, above grade						
House ^b	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof building	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof frame ^c	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof frame and other ^d	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Walls, below grade						
Below-grade wall ^e	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Floors						
House ^b	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof building	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030



**Residential Code, Appendix BA:
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Walls, above grade						
House ^b	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
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Roof frame ^c	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
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Floors						
House ^b	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030
Roof building	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030	U-0.030



Residential Code, Appendix BA: BA 104.2 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

CLIMATE ZONE	Zone 1		Zone 2		Zone 3	
	AS Other	Group E	AS Other	Group E	AS Other	Group E
Insulation activities above roof level	0.05	0.05	0.05	0.05	0.05	0.05
Other activities	0.05	0.05	0.05	0.05	0.05	0.05
Attic and other	0.05	0.05	0.05	0.05	0.05	0.05
Roof	0.05	0.05	0.05	0.05	0.05	0.05
Walls	0.05	0.05	0.05	0.05	0.05	0.05
Floors	0.05	0.05	0.05	0.05	0.05	0.05
Basement	0.05	0.05	0.05	0.05	0.05	0.05
Other	0.05	0.05	0.05	0.05	0.05	0.05
Roof	0.05	0.05	0.05	0.05	0.05	0.05
Walls	0.05	0.05	0.05	0.05	0.05	0.05
Floors	0.05	0.05	0.05	0.05	0.05	0.05
Basement	0.05	0.05	0.05	0.05	0.05	0.05
Other	0.05	0.05	0.05	0.05	0.05	0.05
Roof	0.05	0.05	0.05	0.05	0.05	0.05
Walls	0.05	0.05	0.05	0.05	0.05	0.05
Floors	0.05	0.05	0.05	0.05	0.05	0.05
Basement	0.05	0.05	0.05	0.05	0.05	0.05
Other	0.05	0.05	0.05	0.05	0.05	0.05



**Residential Code, Appendix BA
BA 104.2 Alterations and**

- **Exception** Install in accordance with the manufacturer's requirements for new installations
 - Fenestration: windows, glass block, skylights

[illegible]

Residential Code, Appendix BA 104.2 Alterations and Additions

- **Exception** Installations of glass shall be in conformance with new installations
 - Fenestration: wind and water resistant glass block, skylights

[illegible]

Installation Instructions

Getting Started

Locate the Data Plate

Confirm

Information

Equipment Data

Design Data



HUD Data Plate

Manufacturer Info

HUD Label

Serial Number

Formaldehyde

MFG. Titan Homes
951 Route 12 South
Sancofield, NY 13455

UNIT SER. # 019-000-H-A004986A

MODEL # EP8144 HUD SEAL # NTA1931222

☒ This manufacturer has been designated as a manufacturer of new construction in accordance with the Federal Manufacture Home Construction and Safety Standards in force at the time of manufacture. This manufacturer certifies this home is compliant with the Title II True Substandard Control Act.

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DATE OF MFG. 3/2/2020 "DESIGN APPROVED BY PFS"

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HUD Data Plate

Confirm Wind Zone

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● Zone 1

● Zone 2

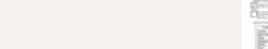
● Zone 3



HUD Data Plate

Roof Zone


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North 48 PSF (Snow)

Middle 36 PSF (Snow)

South 20 PSF (Minimum)



[illegible]

CHAMPION

HOMES

HUD Data Plate

Thermal Zone

Zone 1

Zone 2

Zone 3

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CHAMPION

HOMES

Installation Instructions

Prepare the Site

- Crown site away from foundation
 - minimum slope of $\frac{1}{2}$ " per foot for first ten feet
- Direct runoff away from the home

Zone 1

Zone 2

Zone 3

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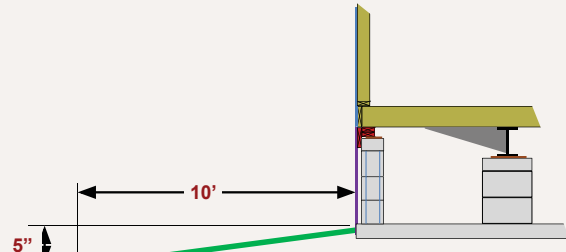
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Site drainage. Moisture under the home can result in structural damage to the floor system and other parts of the home. Failure to provide adequate slope/drainage can result in moisture-related problems such as mold, mildew, and erosion.

...minimum slope of ½" per foot for first ten feet...





Installation Instructions Determine Soil Conditions

Soil Type



Soil Bearing Capacity

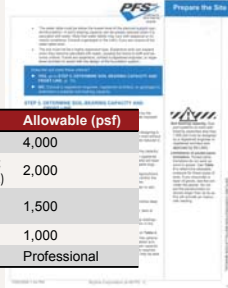
Default capacity: 1500 psf,
unless site-specific
information requires lower
values



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; coarse gravel/cobbles; preloaded silts, clays and coral (class 2)	2,000
Sand; silty sand; clayey sand; silty gravel; medium dense coarse 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



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; coarse gravel/cobbles; preloaded silts, clays and coral (class 2)	2,000
Sand; silty sand; clayey sand; silty gravel; medium dense coarse 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



Pocket Penetrometer

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



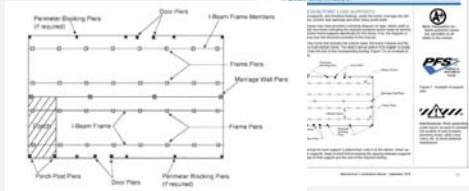
Standard
The Pocket Penetrometer is designed as a lightweight instrument for use by field personnel to obtain a classification of soils. It can be used to verify whether a particular soil meets minimum bearing capacity or other criteria for foundation design.

Indication
The reading on the scale of the penetrometer is designed to indicate the soil bearing capacity for use in design.

Notes
The Pocket Penetrometer is not intended to be used for obtaining foundation design data. It is only intended to be used for obtaining foundation design data.

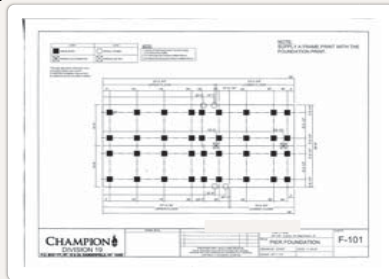
Installation Instructions Install Footings

Determine Pier Locations using
Instructions



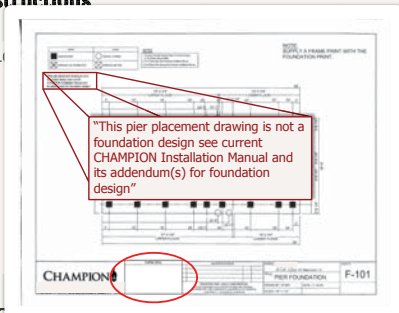
Installation Instructions Install Footings

Determine Pier Locations
using Instructions



Installation Instructions Install Footings

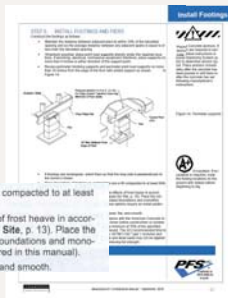
Determine Pier L



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 LAHJ 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.



Installation Instructions
Install Footings

Determine Pier Loads (Frame – no perimeter blocking required)

Roof Load zone and max. section width						
Support Spacing	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	6930
10ft	6220	7040	7840	7010	7920	8790

Installation Instructions
Install Footings

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

Installation Instructions
Install Footings

Footer size 32" x 32" = 1024 in²



Installation Instructions
Install Footings

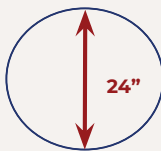
Determine Minimum Footer Size for Circular Shapes
(Default Soil Capacity)

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

Installation Instructions
Install Footings

Footer size 24" round



24" Diameter equivalent
3.14*12²= 452 sq.in.



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Installation Instructions

Footer Size

452 sqn

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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Re-evaluate Soil Bearing Capacity

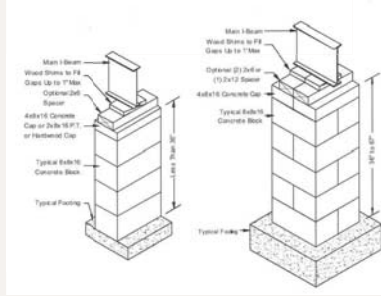
6340

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
2500	254	18	6	4410	-	-
	452	24	"	7850	6	7850
	615	28	"	8000	"	10690
	800	32	"	-	"	13960

**Installation Instructions
Pier Construction**

8x16 Single Stack to 36"

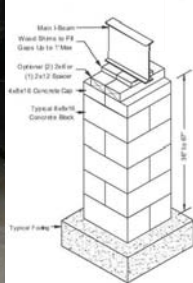
16x16 Double Stack to 67"



**Installation Instructions
Pier Construction**

8x16 Single Stack to 36"

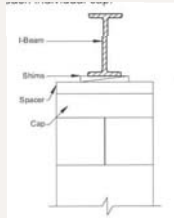
16x16 Double Stack to 67"



**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

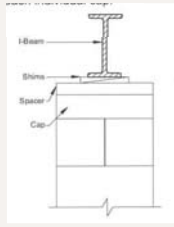


**Installation Instructions
Pier Construction**

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

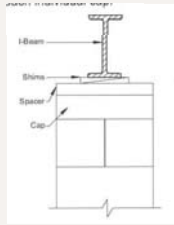
Champion Permissible Caps
Solid Masonry 4"x8"x16"
PT Lumber 2"x8"x16"
Corrosion Protected Steel min. ½" thick



**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

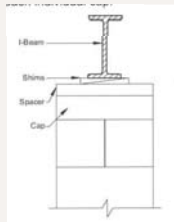


**Installation Instructions
Pier Construction**

Spacers

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

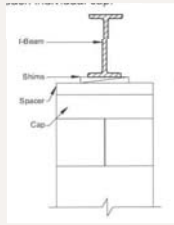
Champion Permissible Spacers
Nominal 1" or 2" thick lumber
2" or 4" concrete block



**Installation Instructions
Pier Construction**

Shims

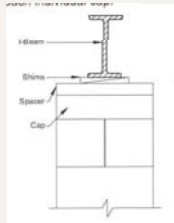
- Always in pairs
- Fill no more than 1" space
- Driven tight
- For split caps, install shims and spacers over EACH individual cap



**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

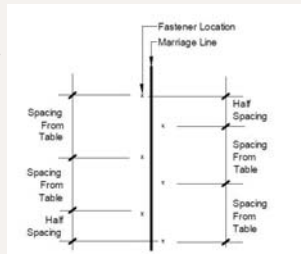


Champion Permissible Shims/Wedges
Hardwood min. 4" wide x 6" long x 1" thick.
Plastic must be listed with load capacity

**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"

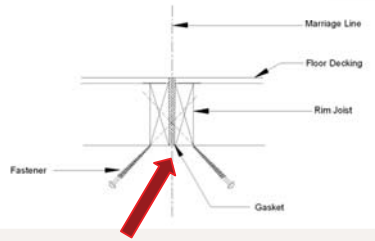
Additional fasteners:
 each end of home
 each side of through-the-rim crossover ducts



Installation Instructions Multi-Sectional Fastening



Gaps between structural elements not to exceed 1". Gaps larger than ½" must be filled with plywood or shims. Home sections are to be in contact with each other.



Installation Multi-Sectional Fastening



Gaps between structural elements not to exceed 1". Gaps larger than ½" must be filled with plywood or shims. Home sections are to be in contact with each other.



Marriage Line
Floor Decking
Rim Joist



Marriage Line
Floor Decking
Rim Joist

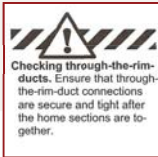
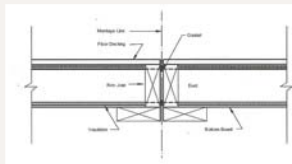
Installation Instructions Multi-Sectional Fastening

HVAC Crossover Ducts



Installation Instructions Multi-Sectional Fastening

HVAC Crossover Ducts

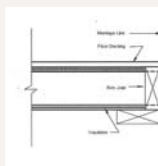


Checking through-the-rim-ducts. Ensure that through-the-rim-duct connections are secure and tight after the home sections are together.

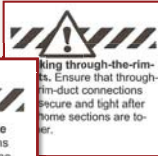
Figure 97. In-floor duct showing crossover through rim joist

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 the home sections are together.

Figure 97. In-floor duct showing crossover through rim joist









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

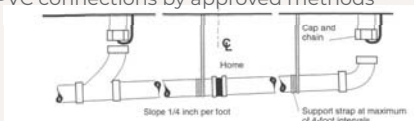
Installation Instructions
Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

Support pipe 48"oc or less by approved method

ABS to PVC connections by approved methods



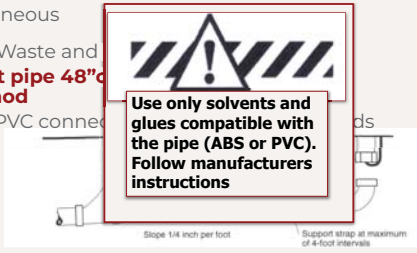
Installation Instructions Plumbing Issues

Miscellaneous

· Drain, Waste and

Support pipe 48" or less
method

ABS to PVC connection

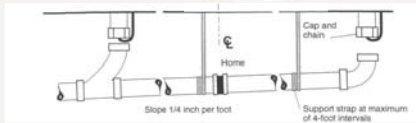


Slope 1/4 inch per foot

Support strap at maximum of 4-foot intervals



Plumbing Issues



Slope 1/4 inch per foot

Support strap at maximum of 4-foot intervals

354



Plumbing Issues



Slope 1/4 inch per foot

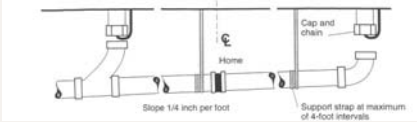
Support strap at maximum of 4-foot intervals

355

★

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Plumbing Issues



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Installation Instructions Stabilizing Systems

Determine anchor types / locations

TABLE 21. ANCHOR LOCATION TYPES¹

Location	Type	Wind Zone I	Wind Zones II and III	See page
Sidewall	Frame	Yes	Yes	61
	Vertical	No	Yes	65
End wall	Frame	Yes	Yes	65
	Vertical	No	Yes	65
Tag Unit	Frame	Yes	NA	65
	Vertical	No	NA	65
Porch Post	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.

Install Stabilizing Systems

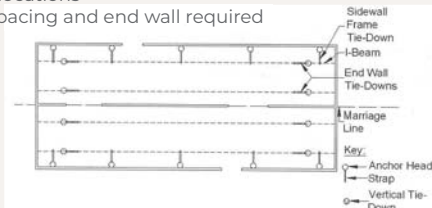
Install Stabilizing Systems



Installation Instructions Stabilizing Systems

Determine anchor locations

Sidewall max. spacing and end wall required



Installation Instructions Stabilizing Systems

Sidewall spacing

Utilize appropriate table



Installation Instructions Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (20 degrees)

Floor Level	Siding Height	Height from Ground to Top of Floor	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
1st Floor	1st	12' to 14'	8' - 0"	1' 0" x 1' 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"
2nd Floor	1st	12' to 14'	8' - 0"	1' 0" x 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"

Installation Instructions Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

14' Floor Width

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (20 degrees)

Floor Level	Siding Height	Height from Ground to Top of Floor	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
1st Floor	1st	12' to 14'	8' - 0"	1' 0" x 1' 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"
2nd Floor	1st	12' to 14'	8' - 0"	1' 0" x 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"

Installation Instructions Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

14' Floor Width
96' Sidewall Height

TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Roof Slope Maximum 4:12 (20 degrees)

Floor Level	Siding Height	Height from Ground to Top of Floor	Single Section		Multi-Section	
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
1st Floor	1st	12' to 14'	8' - 0"	1' 0" x 1' 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"
2nd Floor	1st	12' to 14'	8' - 0"	1' 0" x 1"	8' - 0"	1' 0" - 0"
		14' to 16'	10' - 0"	1' 0" x 1"	10' - 0"	1' 0" - 0"
		16' to 18'	12' - 0"	1' 0" x 1"	12' - 0"	1' 0" - 0"
		18' to 20'	14' - 0"	1' 0" x 1"	14' - 0"	1' 0" - 0"
		20' to 22'	16' - 0"	1' 0" x 1"	16' - 0"	1' 0" - 0"
	2nd	22' to 24'	18' - 0"	1' 0" x 1"	18' - 0"	1' 0" - 0"
		24' to 26'	20' - 0"	1' 0" x 1"	20' - 0"	1' 0" - 0"
		26' to 28'	22' - 0"	1' 0" x 1"	22' - 0"	1' 0" - 0"
		28' to 30'	24' - 0"	1' 0" x 1"	24' - 0"	1' 0" - 0"
		30' to 32'	26' - 0"	1' 0" x 1"	26' - 0"	1' 0" - 0"

Installation Instructions

Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

14' Floor Width
96" Sidewall Height
28" Height of Pier

Frame Type	Seismic Rating	Height from Grade to Top of Frame (ft)	Beam Spacing ft	Beam Spacing ft	Beam Spacing ft	Beam Spacing ft
			0-100	100-150	150-200	200-250
12 WIDE	W1	0-10	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		10-20	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		20-30	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		30-40	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		40-50	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
	W2	0-10	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		10-20	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		20-30	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		30-40	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		40-50	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
14 WIDE	W1	0-10	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		10-20	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		20-30	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		30-40	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		40-50	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
	W2	0-10	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		10-20	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		20-30	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		30-40	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)
		40-50	7'-0" (18)	7'-0" (18)	7'-0" (18)	7'-0" (18)

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

Wind Speed Zone	Seismic Design Category	Height From Ground to Top of Frame	Beam Spacing		Column Spacing	
			ft/mm	ft/mm	ft/mm	ft/mm
15 mph	A	0 to 10 ft	7.0/213	7.0/213	7.0/213	7.0/213
		10 to 20 ft	7.0/213	7.0/213	7.0/213	7.0/213
		20 to 30 ft	7.0/213	7.0/213	7.0/213	7.0/213
		30 to 40 ft	8.0/244	8.0/244	8.0/244	8.0/244
		40 to 50 ft	8.0/244	8.0/244	8.0/244	8.0/244
	B	0 to 10 ft	7.0/213	7.0/213	7.0/213	7.0/213
		10 to 20 ft	7.0/213	7.0/213	7.0/213	7.0/213
		20 to 30 ft	8.0/244	8.0/244	8.0/244	8.0/244
		30 to 40 ft	9.0/274	9.0/274	9.0/274	9.0/274
		40 to 50 ft	9.0/274	9.0/274	9.0/274	9.0/274
20 mph	A	0 to 10 ft	8.0/244	8.0/244	8.0/244	8.0/244
		10 to 20 ft	8.0/244	8.0/244	8.0/244	8.0/244
		20 to 30 ft	9.0/274	9.0/274	9.0/274	9.0/274
		30 to 40 ft	10.0/305	10.0/305	10.0/305	10.0/305
		40 to 50 ft	10.0/305	10.0/305	10.0/305	10.0/305
	B	0 to 10 ft	8.0/244	8.0/244	8.0/244	8.0/244
		10 to 20 ft	8.0/244	8.0/244	8.0/244	8.0/244
		20 to 30 ft	9.0/274	9.0/274	9.0/274	9.0/274
		30 to 40 ft	10.0/305	10.0/305	10.0/305	10.0/305
		40 to 50 ft	10.0/305	10.0/305	10.0/305	10.0/305
25 mph	A	0 to 10 ft	9.0/274	9.0/274	9.0/274	9.0/274
		10 to 20 ft	9.0/274	9.0/274	9.0/274	9.0/274
		20 to 30 ft	10.0/305	10.0/305	10.0/305	10.0/305
		30 to 40 ft	11.0/336	11.0/336	11.0/336	11.0/336
		40 to 50 ft	11.0/336	11.0/336	11.0/336	11.0/336
	B	0 to 10 ft	9.0/274	9.0/274	9.0/274	9.0/274
		10 to 20 ft	9.0/274	9.0/274	9.0/274	9.0/274
		20 to 30 ft	10.0/305	10.0/305	10.0/305	10.0/305
		30 to 40 ft	11.0/336	11.0/336	11.0/336	11.0/336
		40 to 50 ft	11.0/336	11.0/336	11.0/336	11.0/336

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

Frame Type	Concrete Slab Thickness	Height from Ground to Top of Floor	Roof Mean Maximum 3-Minute (20-Minute) Design Wind Speed			
			Side Suction			
			Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
			8'-0"	10'-0"	8'-0"	10'-0"
12 story	18" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
	20" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
	22" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
18 story	18" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
	20" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
	22" min	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		2'-0" to 3'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		3'-0" to 4'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"
		4'-0" to 5'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-0"	1'-0" to 2'-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 (20 degrees)

Floor Level	Height from Ground to Top of Pier	Single Section		Multi-Section	
		Beam Spacing	Beam Spacing	Beam Spacing	Beam Spacing
12' Floor	12' - 0"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	12' - 6"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	12' - 12"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	12' - 18"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
14' Floor	14' - 0"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	14' - 6"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	14' - 12"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"
	14' - 18"	8' - 0"	1' 0" - 1' 1"	8' - 0"	1' 0" - 1' 1"

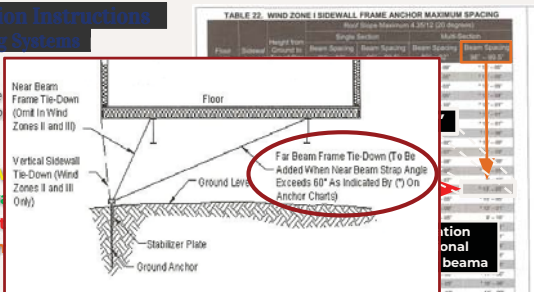
* 13' - 05"

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

Installation Instructions Stabilizing Systems

Example:
28' Double
4:12 Roof P

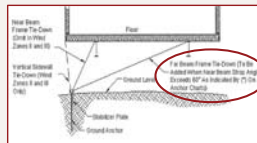
14' Floor W
96" Sidew
28" Height
99.5" Beam



Installation Instructions Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

28" Height of Pier



Installation Instructions Stabilizing Systems

Side wall anchor

TABLE 21. ANCHOR LOCATION TYPE

Location	Type	Wind zone I	Wind Zones II and III	See page
Sidewall	Frame	Yes	Yes	E1
	Vertical	No	Yes	E5
End wall	Frame	Yes	Yes	E5
	Vertical	No	No	E5
Tag Unit	Frame	Yes	NA	E5
	Vertical	No	NA	E5
Porch Post Or Deck Post	Vertical	No	All Vertical Straps	E5

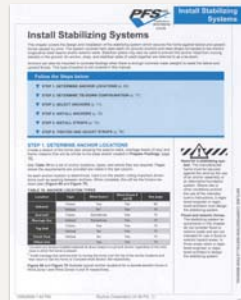
Connect any factory installed sidewall tie-down straps to a ground anchor regardless of the wind zone in which the home is placed.



Installation Instructions Stabilizing Systems

Anchor Depths

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

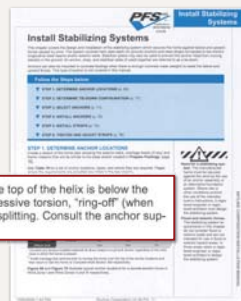


Installation Instructions Stabilizing Systems

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.



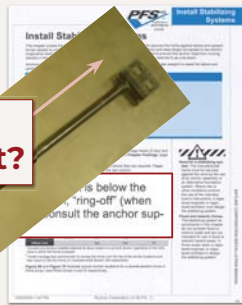
Installation Instructions Stabilizing Systems

Anchor Depths

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

Make sure the anchor is installed below the frost line. Select a shaft diameter and length based on the helix or anchor head size. Consult the anchor supplier for guidance.

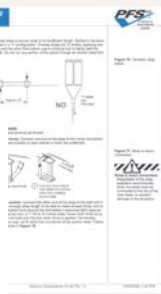
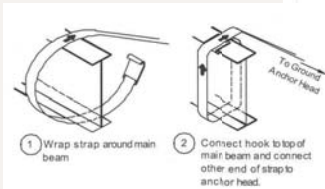
24"
Sufficient?



Installation Instructions Stabilizing Systems

Tie Downs

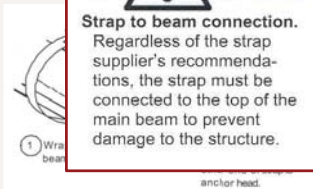
Install per manufacturer's specifications



Installation Instructions Stabilizing Systems

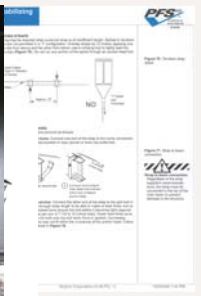
Tie Downs

Install per manufacturer's specifications



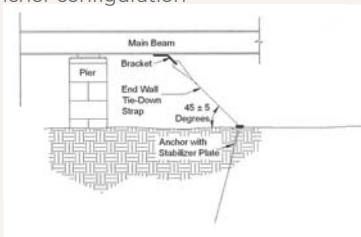
Installation Instructions Stabilizing Systems

Tie Downs
Install per manufa



Installation Instructions Stabilizing Systems

End wall anchor configuration



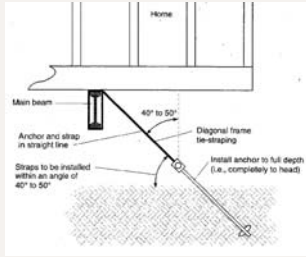
Installation Instructions Stabilizing Systems

End wall anchor



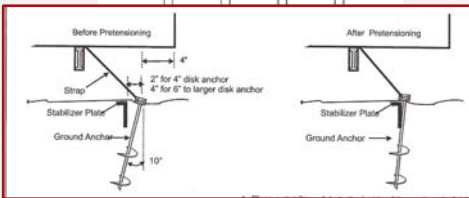
Installation Instructions Stabilizing Systems

Stabilizer Plates?



Installation Instructions Stabilizing Systems

Stabilizer Plates?





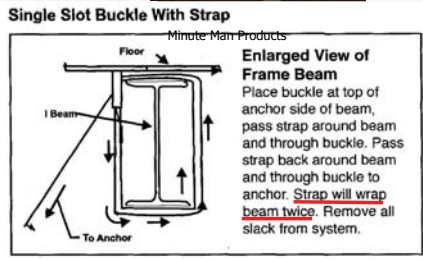
Installation Instructions
Stabilizing Systems

Single Slot Buckle



Installation Instructions
Stabilizing Systems

Single Slot Buckle



Installation Instructions
Stabilizing Systems

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



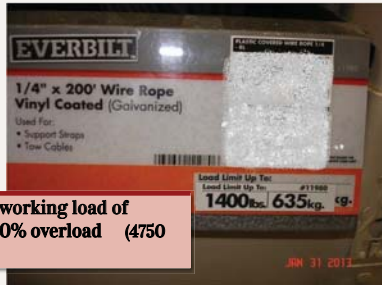
**Installation Instructions
Stabilizing Systems**

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

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



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



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

**Installation Instructions
Stabilizing Systems**

• Manufactured Anchoring Systems

Certified by design prof.

Acceptable to AHJ

Frost protected slab or footing to frost line



**Installation Instructions
Stabilizing Systems**

- Manufactured Anchor
- Certified by design pro
- Acceptable to AHJ
- Frost protected slab on



**Installation Instructions
Stabilizing System**

- Manufactured
- Certified by des
- Acceptable to A
- Frost protected



**Installation Instructions
Stabilizing System**

- Manufactured
- Certified by des
- Acceptable to A
- Frost protected



MHC Consultants LLC

Installation Instructions
Stabilizing Systems

- Manufactured

Certified by des

Acceptable to A

Frost protected



MHC Consultants LLC

Installation Instructions
Stabilizing Systems

- Manufactured Anchoring Systems

Installed per manufacturer's installation instructions

Do You Read Them?



MHC Consultants LLC

Installation Instructions
Stabilizing Systems

- Manufa

Installed

instruc



**Installation Instructions
Stabilizing Systems**

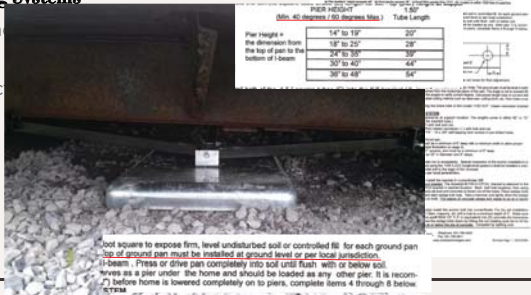
• Manufa
Installed
instruct



MHC Consultants LLC

**Installation Instructions
Stabilizing Systems**

• Manufa
Installed
instruct

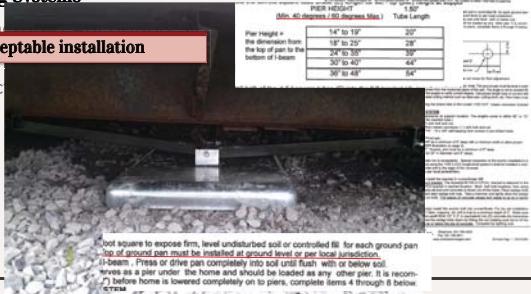


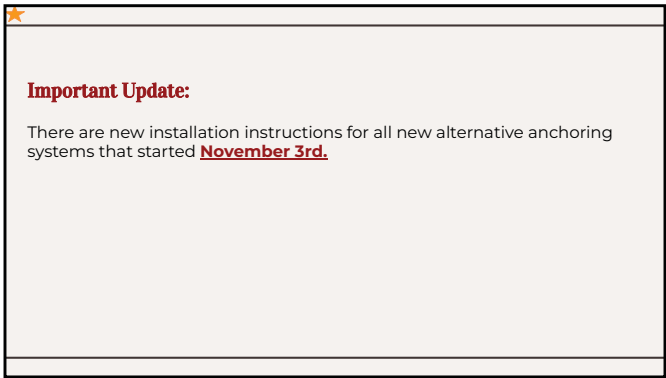
MHC Consultants LLC

**Installation Instructions
Stabilizing Systems**

• Manufa
Installed
instruct

Not an acceptable installation









★

Impo

There
syster

TIE DOWN


MANUFACTURING INGENUITY

Xi2-24 Ground Foundation
System Installation
Instructions for Wind Zone I, II & III
Except Florida and California

Effective November 3, 2025

US Patent No.11,896,318

The Xi2-24 System Instructions use the lateral and longitudinal struts to replace normal lateral frame tie and longitudinal end tie anchorage and stabilizer plates. In addition the system requires a minimum amount of uplift anchors in Zone I for enhanced wind protection. Check anchor charts for details



Installation Requirements

- Install in any type soil, 48 (175-275 lbs.) or better.
- Main rail spacing must be 75.5" - 99.5", 112" exception with proper strut.
- Maximum pier height at system 48", with 6" maximum rise from location of system to end of home. For all other piers use the home manufacturers set up instructions.
- Maximum vertical projection at sidewall is 9" wall and roof rim (9" wall and 12" eave). Higher walls may be used, when possible for design

19

★

Impo

There
syster

TIE DOWN


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Xi2-24 Ground Foundation
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Instructions for Wind Zone I, II & III
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19

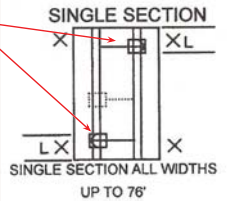
MHC Consultants LLC

Alt. Tie Downs & End Straps

• 2 Lateral & Longitudinal systems

• At least 2 ft but no more than ¼ the length from the end

SINGLE SECTION

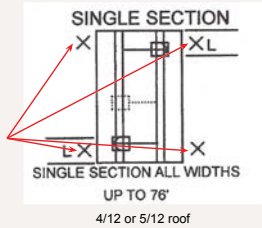


SINGLE SECTION ALL WIDTHS
UP TO 76"
4/12 or 5/12 roof

Oliver 1100 V

Alt. Tie Downs & End Straps

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



Oliver 1100 V



**Flood Zone Requirements
R306.1.9 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

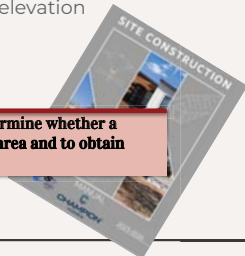


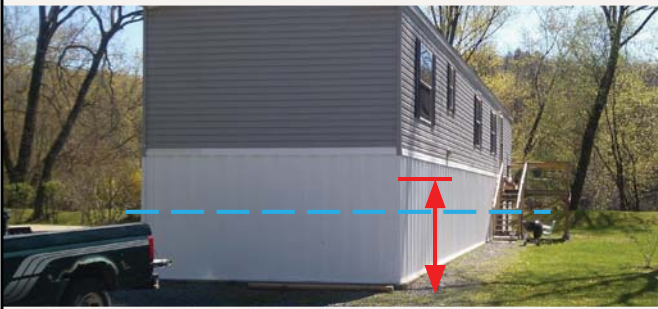


**Flood Zone Requirements
R306.1.9 Manufactured Homes**

- 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.





Exterior Work

Repair and Seal Bottom Board

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



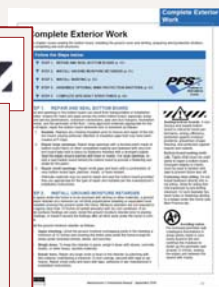
Exterior Work

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.



Exterior Work

Repair and Seal Base

- Inspect for holes
- Replace missing
- Patch large open openings – per Instructions



Exterior Work

Ground Moisture Retarder

- REQUIRED(by: Manuf & BA402.6)
- Min 6 mil poly
- Joints overlapped 12"
- Seal joints with tape or adhesive
- Weight down with gravel
- Repair voids
- Pre-slab







Exterior Work

Skirting

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



Exterior Work

Skirting

- Structural or non-structural perimeter crawl space 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

REQUIRED (by: Manufacturer & BA115.1) 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 3 ft of each corner



Exterior Work

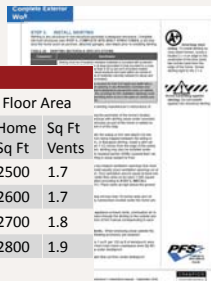
Ventilation

REQUIRED (by: Manuf & BA115.1) when skirted

- One square foot of under floor area per 1,500 sq ft of 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

Foundation Ventilation							
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



MHC Consultants LLC
Exterior Work Ventilation Calculations - Integral Skirting <ul style="list-style-type: none"> • 28x56 New Home = 1566 sq ft • Vapor Barrier REQUIRED • 1 sq ft of vent per 1500 sq ft floor space

MHC Consultants LLC
Exterior Work Ventilation Calculations - Integral Skirting <ul style="list-style-type: none"> • 28x56 New Home = 1566 sq ft • Vapor Barrier REQUIRED • 1 sq ft of vent per 1500 sq ft floor space • Need 1 sq ft of free vent (144 sq inches)

MHC Consultants LLC
Exterior Work Ventilation Calculations - Integral Skirting <ul style="list-style-type: none"> • 28x56 New Home = 1566 sq ft • Vapor Barrier REQUIRED • 1 sq ft of 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)

Exterior Work

Ventilation Calculations - Integral Skirting

- 28x56 New Home = 1566sqft
- Vapor Barrier REQUIRED
- 1 sq ft of 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 126 panels to skirt whole house

Exterior Work



Exterior Work



Exterior Work



Exterior Work

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

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



Exterior Work

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



Exterior Work

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



Exterior Work

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?



Exterior Work

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?



Exterior Work

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

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



Exterior Work

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



Accessory Structures

Self supporting unless

DAPIA approved design provided
OR

Designed by a design professional

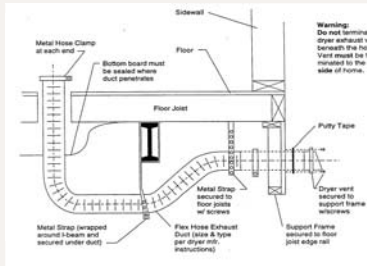


Outside combustion air?

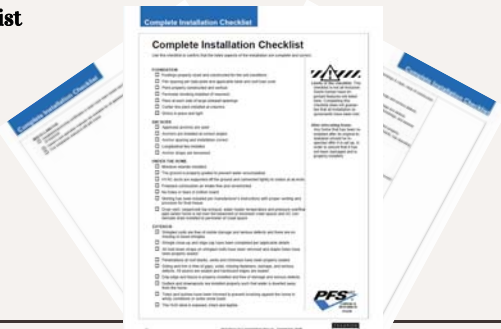


Ventilation and Condensation Control

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



Checklist



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
- ☐ ~~Drain lines, water lines 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 ampereage matches the connection to the home
- ☐ The home has been properly grounded
- ☐ The main power supply has been properly connected 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

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
- ☐ ~~Drain lines, water lines 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 15 minutes
4. Find and fix leaks
5. **REPEAT until pass**

☐ The main fuel line has been properly connected and tested by a qualified technician



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
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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

Checklist

- ☐ 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, basins, tubs, and toilets operate properly
- ☐ All hot and cold water lines are properly connected to fixtures, dispense water as labeled, and operate properly

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- ☐ The main power supply has been properly connected and tested by a licensed electrician
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- ☐ 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

Checklist

- ☐ Crossover and materials
- ☐ Water and drainage
- ☐ Pipe supports
- ☐ Proper slope
- ☐ All necessary
- ☐ All sinks, basins
- ☐ All hot and cold labeled, and

- ☐ The panel am
- ☒ The home ho
- ☐ The main pos
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- ☒ All electrical c
- ☐ All receptacle
- ☐ Ground fault (
- ☐ All exterior lig

- ☐ The gas system
- ☐ Connections be
- ☐ The main fuel li



Including

1. A continuity test

Checklist

- ☐ Crossover and service connection materials
- ☐ Water and drain lines are insulated
- ☐ Pipe supports are installed and proper
- ☐ Proper slope has been maintained
- ☐ All necessary inspections and tests
- ☐ All sinks, basins, tubs, and toilets
- ☐ All hot and cold water lines are properly labeled, and operate properly

- ☐ The panel amperage matches the c
- ☐ The home has been properly grou
- ☐ The main power supply has been p
- ☐ trician
- ☐ All electrical crossovers have been
- ☐ All receptacles, switches, and light
- ☐ Ground fault circuit interrupters ope
- ☐ All exterior lights have been propert

- ☐ The gas system
- ☐ Connections be
- ☐ The main fuel li



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

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
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 - ☐ Proper slope has been maintained on all drain lines
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 - ☐ 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
 - ☐ The gas system has been properly made with correct air supplied
 - ☐ The main fuel line has been properly connected and tested by a qualified technician

Truss, Engineered Lumber or Timber Construction Placard

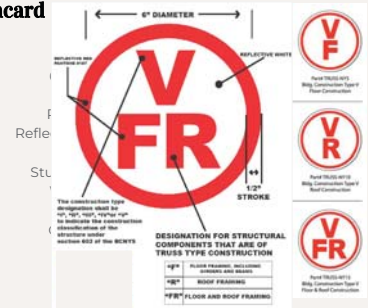
"An act to amend the Executive Law, in relation to notice requirements and enforcement for residential buildings with truss type, pre-engineered wood or timber construction."

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..."

Truss ... Placard



§1265.4 "...affixed to e
residential structure

1. If obscure any me
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2. If no electric box c
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MHC Consultants LLC

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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



Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRE**

Issues addressed

- Garage independence & support
- Roof modification & ventilation



Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRE**

Issues addressed

- Garage independence & support
- Roof modification & ventilation
- Fire Separation



Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRE**

Issues addressed

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



Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRE**

Issues addressed

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



Garage Additions/Add-On Structures

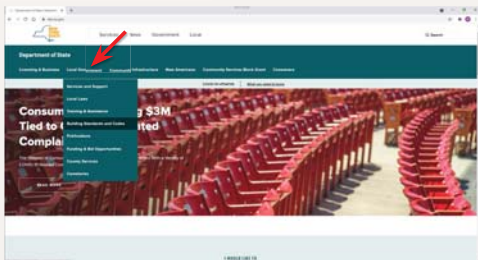
Alternative Construction Approval **REQUIRE**

Issues addressed

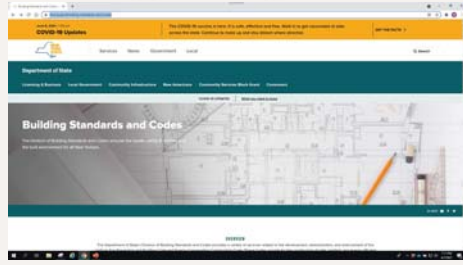
- Garage independence & support
- Roof modification & ventilation
- Fire Separation
- Electrical circuits for Lighting, GFCI & smoke detectors
- Egress Compliance
- Light and ventilation

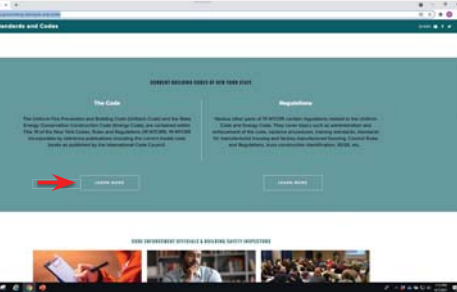


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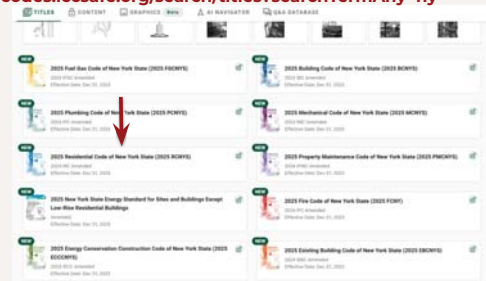


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2020 Fuel Gas Code of New York State (2020 FGCNY)

2020 Building Code of New York State (2020 BCNY)

2020 Plumbing Code of New York State (2020 PCNY)

2020 Mechanical Code of New York State (2020 MCNY)

2020 Residential Code of New York State (2020 RCNY)

2020 Property Maintenance Code of New York State (2020 PMNY)

2020 New York State Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

2020 Fire Code of New York State (2020 FCNY)

2020 Energy Conservation Construction Code of New York State (2020 ECCCNY)

2020 Existing Building Code of New York State (2020 EBCNY)

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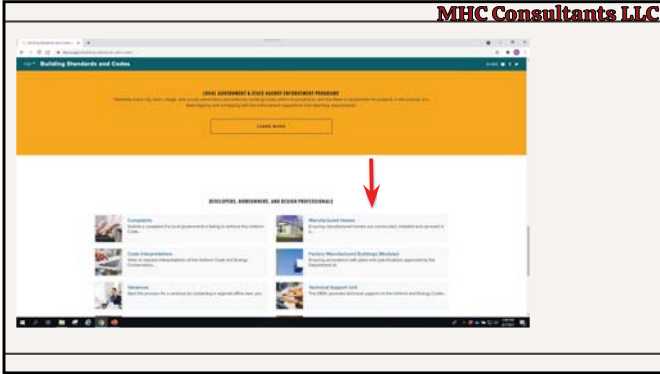
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Building Standards and Codes

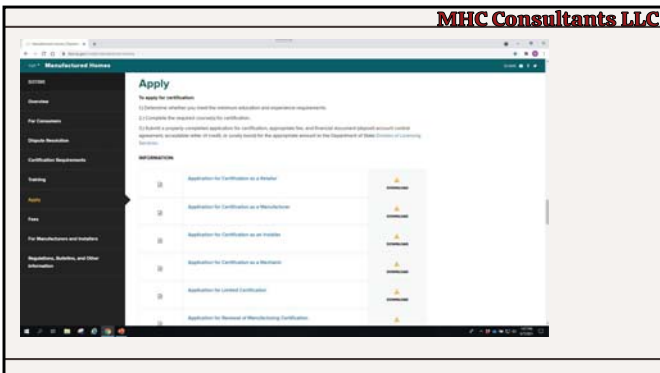
The Division of Building Standards and Codes oversees the development, adoption and enforcement of the State Building Codes.

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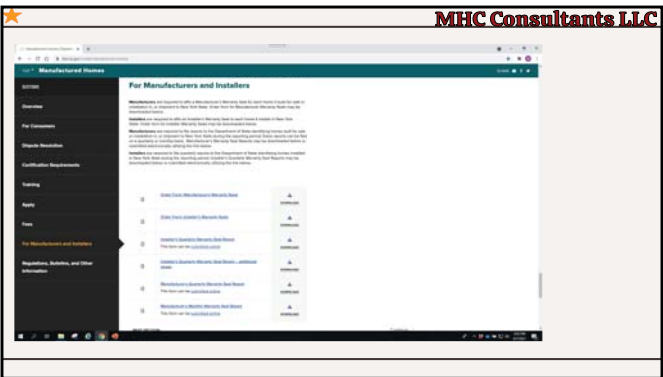
<https://dos.ny.gov/code/manufactured-homes>











Reminders

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



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



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



Department of State
Building Standards & Codes

manufactured.housing@dos.ny.gov

MHC Consultants LLC

Any questions?

Contact Information

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Fairport NY 14450

joel@consultwithmhc.com

<https://joel6294.wixsite.com/mhcc>



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