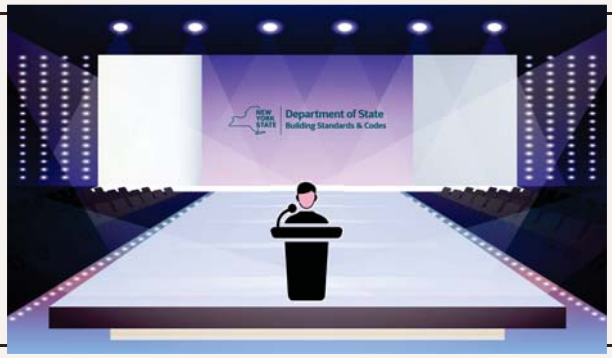
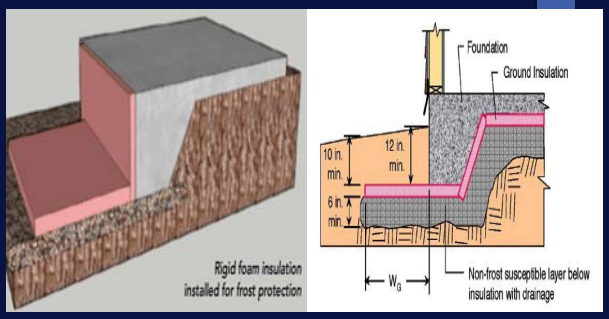
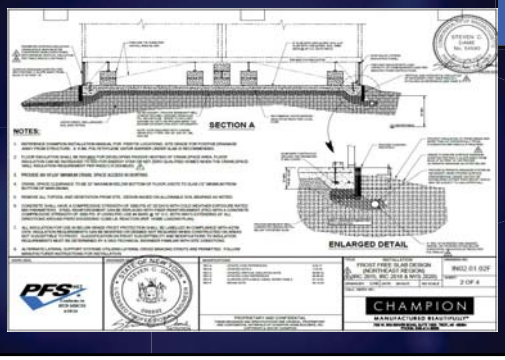
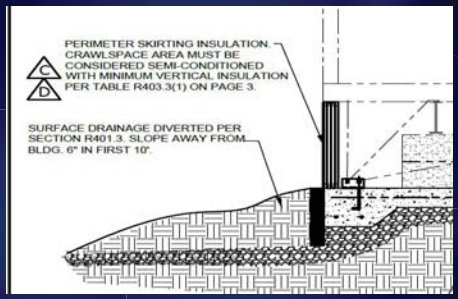
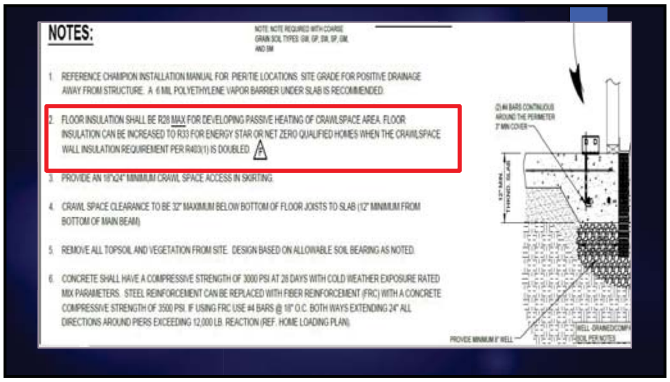


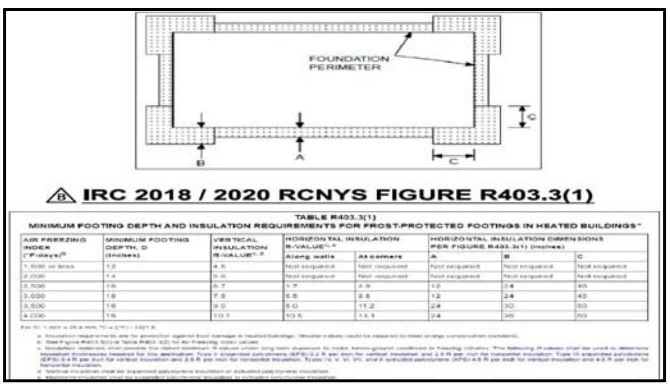
- Currently 15 open complaints.
- We have received 9 new complaints since the beginning of this year.
- 5 have been sent to the Office of Administrative Hearings for formal resolution.

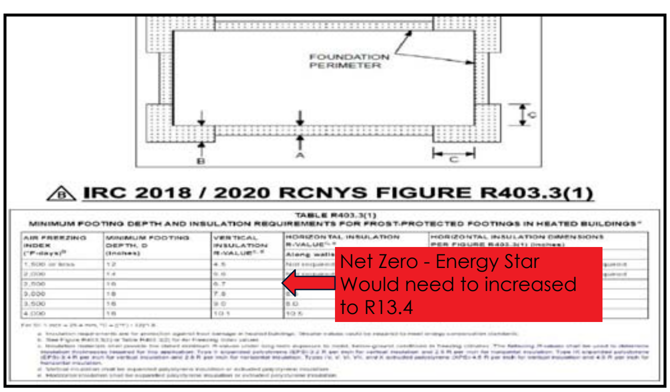

Rigid foam insulation installed for frost protection
Foundation
Ground Insulation
12 in. min.
10 in. min.
6 in. min.
W_G
Non-frost susceptible layer below insulation with drainage

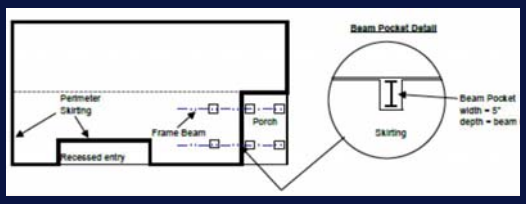

SECTION A
ENLARGED DETAIL
CHAMPION

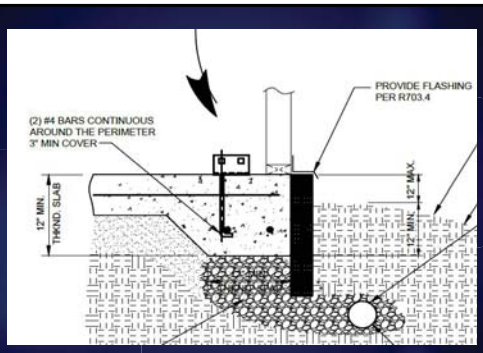

PERIMETER SKIRTING INSULATION. CRAWLSPACE AREA MUST BE CONSIDERED SEMI-CONDITIONED WITH MINIMUM VERTICAL INSULATION PER TABLE R403.3(1) ON PAGE 3.
SURFACE DRAINAGE DIVERTED PER SECTION R401.3. SLOPE AWAY FROM BLDG. 6" IN FIRST 10'.

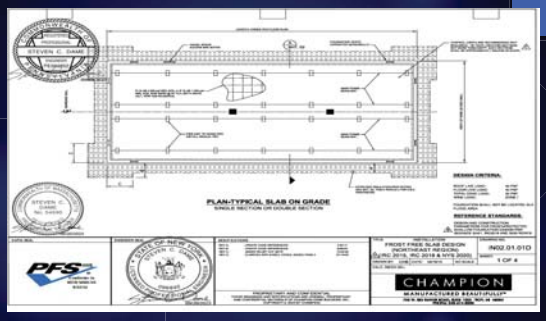

NOTES:
1. REFERENCE CHAMPION INSTALLATION MANUAL FOR PIER/TIE LOCATIONS. SITE GRADE FOR POSITIVE DRAINAGE AWAY FROM STRUCTURE. A 6 MIL POLYETHYLENE VAPOR BARRIER UNDER SLAB IS RECOMMENDED.
2. FLOOR INSULATION SHALL BE R28 MAX FOR DEVELOPING PASSIVE HEATING OF CRAWLSPACE AREA. FLOOR INSULATION CAN BE INCREASED TO R33 FOR ENERGY STAR OR NET ZERO QUALIFIED HOMES WHEN THE CRAWLSPACE WALL INSULATION REQUIREMENT PER R403(1) IS DOUBLED.
3. PROVIDE AN 18"x24" MINIMUM CRAWL SPACE ACCESS IN SKIRTING.
4. CRAWL SPACE CLEARANCE TO BE 32" MAXIMUM BELOW BOTTOM OF FLOOR JOISTS TO SLAB (12" MINIMUM FROM BOTTOM OF MAIN BEAM)
5. REMOVE ALL TOPSOIL AND VEGETATION FROM SITE. DESIGN BASED ON ALLOWABLE SOIL BEARING AS NOTED.
6. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS WITH COLD WEATHER EXPOSURE RATED MIX PARAMETERS. STEEL REINFORCEMENT CAN BE REPLACED WITH FIBER REINFORCEMENT (FRC) WITH A CONCRETE COMPRESSIVE STRENGTH OF 3500 PSI. IF USING FRC USE #4 BARS @ 18" O.C. BOTH WAYS EXTENDING 24" ALL DIRECTIONS AROUND PIERS EXCEEDING 12,000 LB. REACTION (REF. HOME LOADING PLAN).

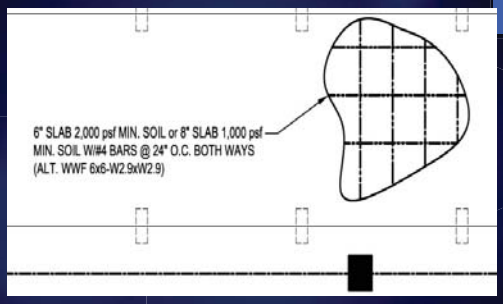

FOUNDATION PERIMETER
A
B
C
IRC 2018 / 2020 RCNYS FIGURE R403.3(1)
TABLE R403.3(1)
MINIMUM FOOTING DEPTH AND INSULATION REQUIREMENTS FOR FROST-PROTECTED FOOTINGS IN HEATED BUILDINGS


FOUNDATION PERIMETER
A
B
C
IRC 2018 / 2020 RCNYS FIGURE R403.3(1)
TABLE R403.3(1)
MINIMUM FOOTING DEPTH AND INSULATION REQUIREMENTS FOR FROST-PROTECTED FOOTINGS IN HEATED BUILDINGS
Net Zero - Energy Star
Would need to increased
to R13.4


Beam Pocket Detail
Perimeter
Skirting
Frame Beam
Porch
Recessed entry
Skirting
Beam Pocket
width = 5"
depth = beam


PROVIDE FLASHING
PER R703.4
(2) #4 BARS CONTINUOUS
AROUND THE PERIMETER
3" MIN COVER
12" MIN.
THKND. SLAB
12" MAX.
12" MIN.


PLAN-TYPICAL SLAB ON GRADE
SINGLE SECTION OR DOUBLE SECTION
DESIGN CRITERIA
REFERENCE STANDARDS
PFS
FROST FREE SLAB DESIGN
NORTHEAST REGION
IN02.01.01D
1 OF 4
CHAMPION
MANUFACTURED BEAUTIFULLY



STEP 6. CONNECT FLOORS

Make floor structural connections according to the method described below.

Install toed fasteners through bottom board

Install fasteners at approximately a 45-degree angle (+/- 5 degrees) from horizontal as shown in (**Figure 29**) using the fastener type, size, and spacing indicated on **Table 13**.

TABLE 13. FLOOR CONNECTION FASTENING SPECIFICATIONS

Fastener		Spacing		
Type	Size	Wind Zone I	Wind Zone II	Wind Zone III
Lag screw	5/16" x 5"*	36 in.	20 in.	16 in.
Wood screw	#10 x 5"*	24 in.	N/A	N/A

* Increase fastener lengths by 3 inches for double rim joists.

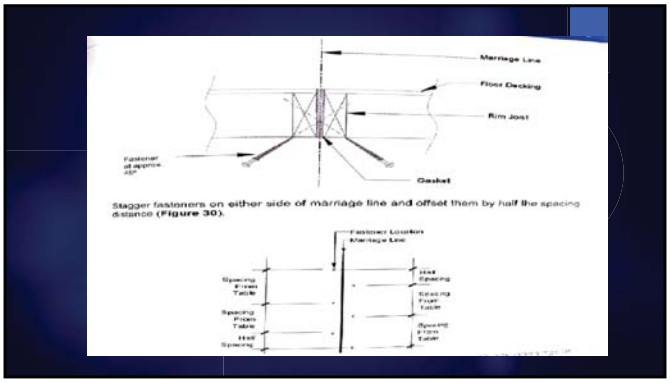
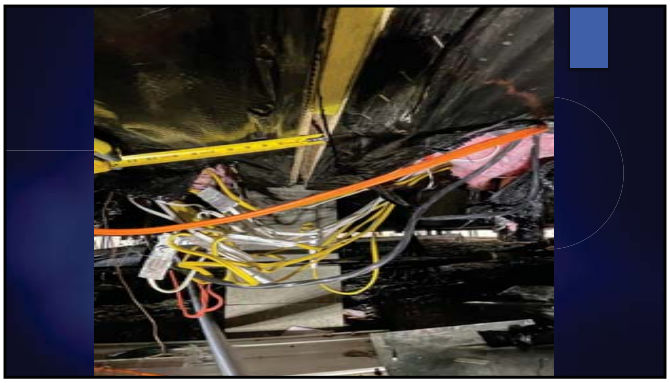
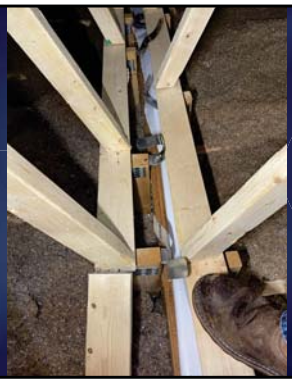


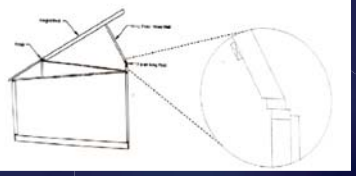
Figure 29. *Floor connection through bottom board (Fasteners must penetrate the rim joist by a minimum of 1½ inches)*



6. **Shim gaps.** Shim any gaps up to one inch between structural elements with dimensional lumber. If any gaps exceed one inch, re-position the home to eliminate such gaps.



4. **Secure king posts.** Position the hinged king posts (may be a knee wall) atop the fixed king posts or against the wooden stop (**Figure 20**). The king posts are either hinged to the underside of the hinged-truss top chord or shipped loose as a knee wall stored in the roof cavity. Position them as needed to level the roof, aligning each king post with the king post directly beneath it, and securing it in place per hinged roof truss installation addendum.



STEP 7: CONNECT ROOF

If the marriage line along the roof is not snug, position jacks every 20 feet or less along the outside I-beam and uniformly lift the section until the roof area is tight.

Check to make sure the ceiling joint is flush before installing the connectors. If not, use a jack and toe-screw whatever ceiling is low, starting at the front and working to the rear of the home. Fasten the roof along the marriage line for either double or triple-section homes.

DOUBLE-SECTION HOMES

Make roof structural connections in double-section homes as described below.

Install sped fasteners through roof sheathing

Install the fasteners through the roof deck into the ridge beams or roof rails at an approximately 30-degree angle (+/- 5 degrees) from horizontal (**Figure 32**) according to the fastener spacing and specifications in **Table 16**. Stagger fasteners on each side of marriage line and offset them by half the spacing distance (**Figure 30**). Spacing indicated is on-center, both sides of ridge. Make sure fasteners penetrate the ridge beam/rail by a minimum of 1-1/2 inches both sides of ridge.

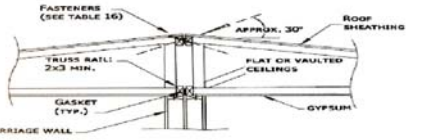
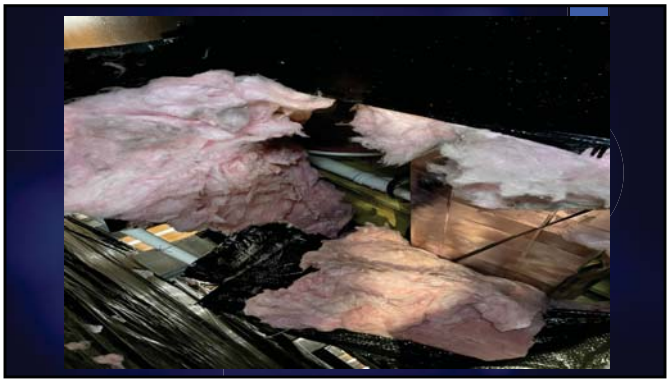


TABLE 16. ROOF CONNECTIONS SPECIFICATIONS

Fastener		Spacing		
Type	Size	Wind Zone I	Wind Zone II	Wind Zone III
Lag screw	5/16" x 5"	28 in.	20 in.	12 in.
Wood screw	#10 x 5"	18 in.	N/A	N/A



manufactured.housing@dos.ny.gov

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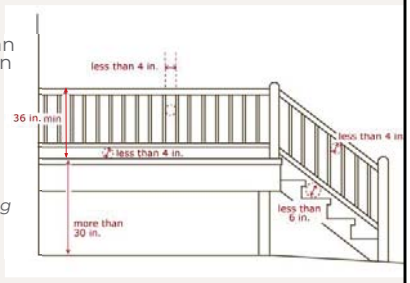
Residential Code

R321 Guards

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

Open sided walking surfaces

Guards meeting this drawing



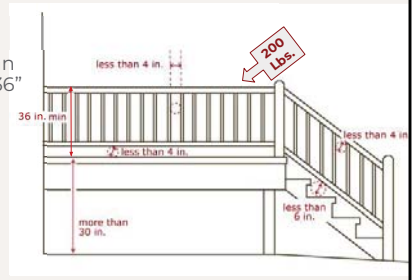
MHC Consultants LLC

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.

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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 J
  - Create no hazard to life, health or safety by such addition, alteration or repair
- Alterations and Repairs nonstructural in nature, not affecting structural members or fire protection maybe made with materials similar to original home construction

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Residential Code, Appendix 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

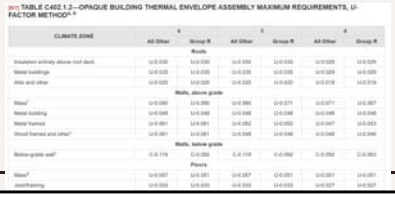

TABLE C402.1.2—OPAQUE BUILDING THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS, U-FACTOR METHOD[a, b]

CLIMATE ZONE	4		5		6	
	All Other	Group R	All Other	Group R	All Other	Group R
Roofs						
Insulation entirely above roof deck	U-0.032	U-0.032	U-0.032	U-0.032	U-0.029	U-0.029
Metal buildings	U-0.035	U-0.035	U-0.035	U-0.035	U-0.029	U-0.029
Attic and other	U-0.020	U-0.020	U-0.020	U-0.020	U-0.019	U-0.019
Walls, above grade						
Mass[c]	U-0.090	U-0.090	U-0.080	U-0.071	U-0.071	U-0.057
Metal building	U-0.045	U-0.045	U-0.045	U-0.045	U-0.045	U-0.045
Metal framed	U-0.061	U-0.061	U-0.052	U-0.052	U-0.047	U-0.043
Wood framed and other[c]	U-0.061	U-0.061	U-0.045	U-0.045	U-0.045	U-0.045
Walls, below-grade						
Below-grade wall[d]	C-0.119	C-0.092	C-0.119	C-0.092	C-0.092	C-0.063
Floors						
Mass[e]	U-0.057	U-0.051	U-0.057	U-0.051	U-0.051	U-0.051
Joist/framing	U-0.033	U-0.033	U-0.033	U-0.033	U-0.027	U-0.027

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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

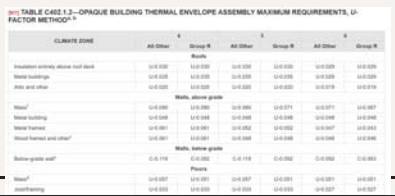

TABLE C402.1.2—OPAQUE BUILDING THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS, U-FACTOR METHOD[a, b]

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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

TABLE C402.1.2—OPAQUE BUILDING THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS, U-FACTOR METHOD[a, b]

Residential Code, Ap
BA 104.2 Alterations an

- **Exception** Install nt of glass shall be in conformance wit g requirements for new installations
  - Fenestration: win , glass block, skylights

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

[NY] TABLE N1102.1.2 (R402.1.2)
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT[a]

CLIMATE ZONE	FENESTRATION U-FACTOR[b]	SKYLIGHT[b] U-FACTOR	GLAZED FENESTRATION SHGC[b, k]	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE[i]	FLOOR R-VALUE	BASEMENT WALL R-VALUE
4	0.32	0.55	0.40	49	20 or 13+5[h]	8/13	19	10/13
5	0.30	0.55	NR	49	20 or 13+5[h]	13/17	30[g]	15/19
6 Option 1	0.30	0.55	NR	49	20+5[h] or 13+10[h]	15/20	30[g]	15/19
6 Option 2	0.28	0.55	NR	60	23 cavity	19/21	30[g]	15/19

NR = Not Required.
For SI: 1 foot = 304.8 mm.
a. *R*-values are minimums. *U*-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label o insulation, the installed *R*-value of the insulation shall be not less than the *R*-value specified in the table.

Residential Code, Ap
BA 104.2 Alterations an

- **Exception** Install of glass shall be in conformance wit requirements for new installations
  - Fenestration: wind glass block, skylights

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

[NY] TABLE N1102.1.2 (R402.1.2)
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT[a]

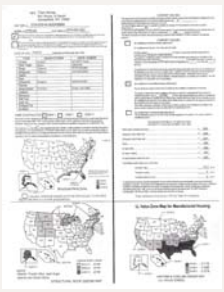
CLIMATE ZONE	FENESTRATION U-FACTOR[b]	SKYLIGHT[b] U-FACTOR	GLAZED FENESTRATION SHGC[b, k]	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE[i]	FLOOR R-VALUE	BASEMENT WALL R-VALUE
4	0.32	0.55	0.40	49	20 or 13+5[h]	8/13	19	10/13
5	0.30	0.55	NR	49	20 or 13+5[h]	13/17	30[g]	15/19
6 Option 1	0.30	0.55	NR	49	20+5[h] or 13+10[h]	15/20	30[g]	15/19
6 Option 2	0.28	0.55	NR	60	23 cavity	19/21	30[g]	15/19

NR = Not Required.
For SI: 1 foot = 304.8 mm.
a. *R*-values are minimums. *U*-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label o insulation, the installed *R*-value of the insulation shall be not less than the *R*-value specified in the table.

Installation Instructions
Getting Started

Locate the Data Plate

Confirm
- Information
- Equipment Data
- Design Data



HUD Data Plate

Manufacturer Info

HUD Label

Serial Number

Formaldehyde

HUD Data Plate

Manufacturer Info

HUD Label

Serial Number

Formaldehyde

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CHAMPION HOMES **HUD Data Plate**

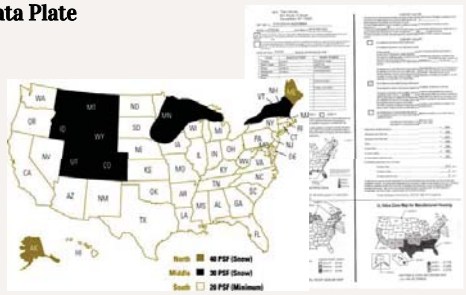
Confirm Wind Zone

MHC Consultants LLC

CHAMPION HOMES

HUD Data Plate

Roof Zone



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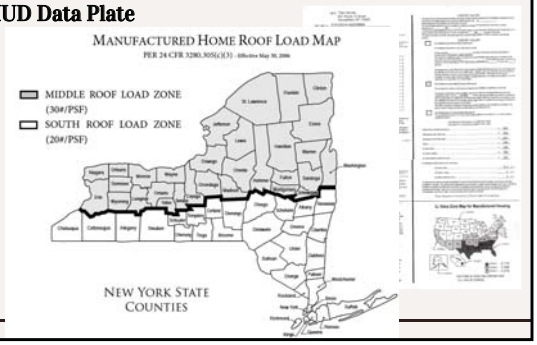
CHAMPION HOMES

HUD Data Plate

Roof Zone



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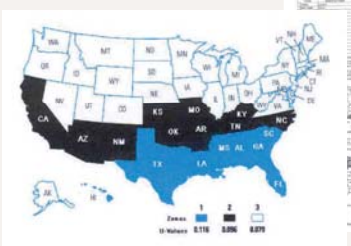
CHAMPION HOMES

HUD Data Plate

Thermal Zone



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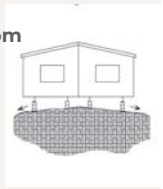
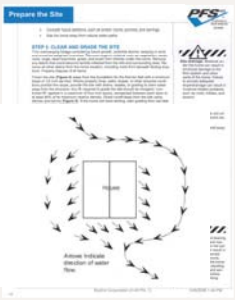
Installation Instructions
Prepare the Site

- Crown site away from foundation
  - minimum slope of ½" per foot for first ten feet
- **Direct runoff away from the home**





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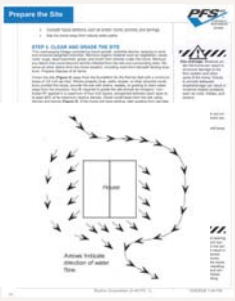
Installation Instructions
Prepare the Site

- Crown site away from foundation
  - minimum slope of
    ten feet
- **Direct runoff away**
the home

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



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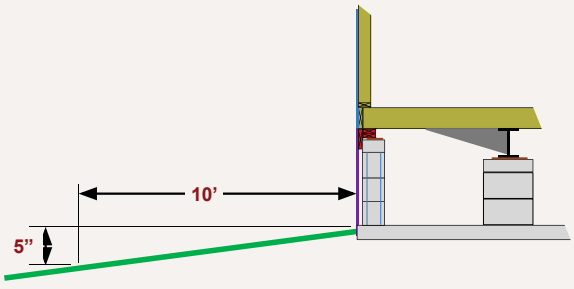
…minimum slope of ½" per foot for first ten feet…



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Installation Instructions
Determine Soil Conditions

Soil Type

↓

Soil Bearing Capacity

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

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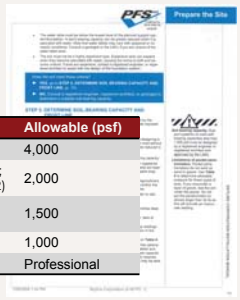
Installation Instructions
Determine Soil Conditions

Soil Bearing Capacity



Soil Type (and classification)	Allowable (psf)
Rock or hard pan (class 1)	4,000
Sandy gravel and gravel; very dense and/or cemented sands; 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

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Installation Instructions
Determine Soil Conditions

Soil Bearing Capacity

Soil Type (and classification)	able (psf)
Rock or hard pan (class 1)	
Sandy gravel and gravel; very dense an course gravel/cobbles; preloaded silts,	
Sand; silty sand; clayey sand; silty grave sands; sandy gravel; very stiff silt, sand	
Clay sandy clay, silty clay, clayey silt (cl	
Uncompacted fill, peat, organic clays (cl	sional

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

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Pocket Penetrometer

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

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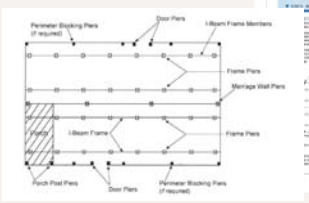
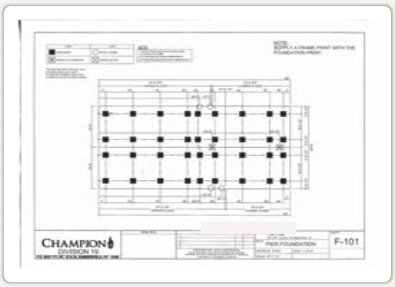
Installation Instructions
Install Footings

Determine Pier Locations using Instructions



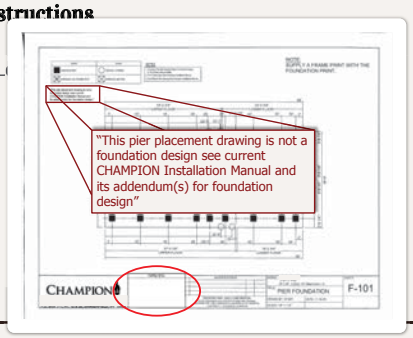
Installation Instructions
Install Footings

Determine Pier Locations using Instructions



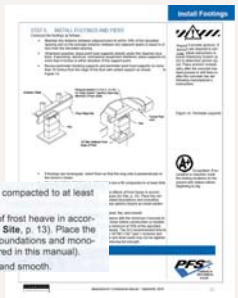
Installation Instructions
Install Footings

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.

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Installation Instructions
Install Footings

Determine Pier Loads (Frame – no perimeter blocking required)

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	7030
10ft	6220	7040	7840	7010	7920	8790

Roof Load zone and max. section width

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Installation Instructions
Install Footings

6340

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

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

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Installation Instructions
Install Footings

Footer size 32" x 32" = 1024 in^2

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Installation Instructions
Install Footings

6340

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

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

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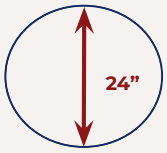
Installation Instructions
Install Footings

Footer size 24" round



24" Diameter equivalent
$3.14*12^2$= 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.

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
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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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
Re-evaluate Soil Bearing Capacity	254	18	6	2650	-	-
1500	452	24	"	4710	6	4710
	615	28	"	6410	"	6410
	800	32	"	8000	"	8370
2500	254	18	6	4410	-	-
	452	24	"	7850	6	7850
	615	28	"	8000	"	10690
	800	32	"	-	"	13960

6340

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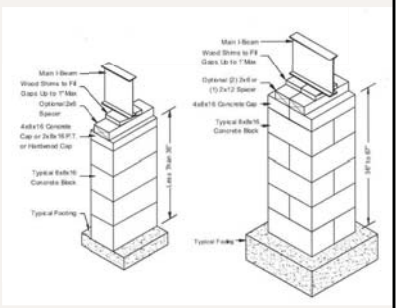
Installation Instructions
Pier Construction

8x16 Single Stack to 36"

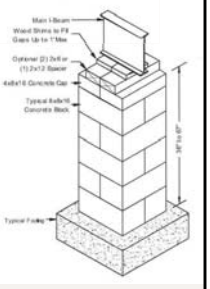
16x16 Double Stack to 67"



Installation Instructi
Pier Construction

8x16 Single Stack to 3

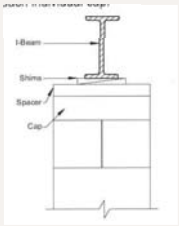
16x16 Double Stack to



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



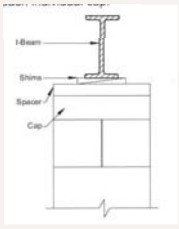
Installation Instructions
Pier Construction

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

ructions

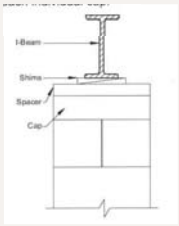
Champion Permissible Caps
Solid Masonry 4"x8"x16"
PT Lumber 2"x8"x16"
Corrosion Protected Steel min. ½" thick



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



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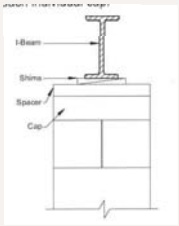
Installation Instructions
Pier Construction

Spacers

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

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



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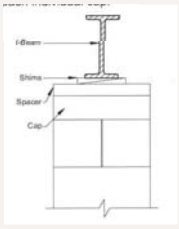
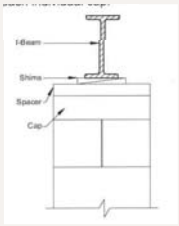
Installation Instructions
Pier Construction

Shims

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



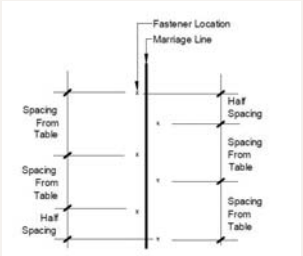
Installation Instructions
Pier Construction



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

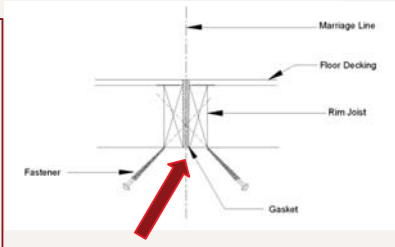


5/16" x 4 ½" lag screw with washer
36" Spacing
Must penetrate the opposite rim joist by a minimum of 1 ½"

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.



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Gaps b
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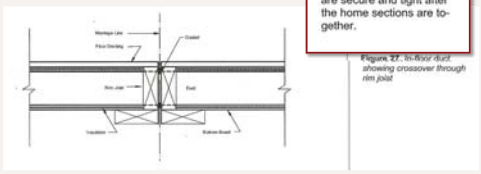
Installation Instructions
Multi-Sectional Fastening

HVAC Crossover Ducts

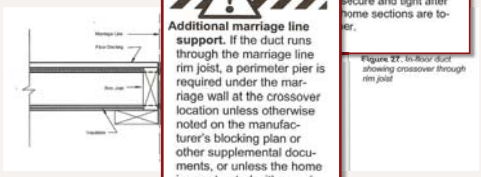
Installation Instructions
Multi-Sectional Fastening
HVAC Crossover Ducts



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

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

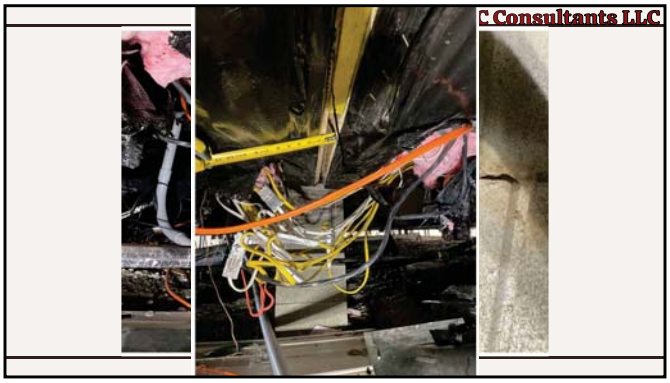
Installation Instructions
Multi-Sectional Fastening
HVAC Crossover Ducts

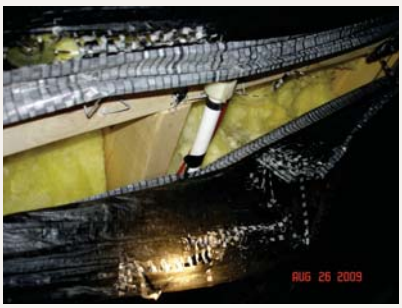


Additional marriage line support. If the duct runs through the marriage line rim joist, a perimeter pier is required under the marriage wall at the crossover location unless otherwise noted on the manufacturer's blocking plan or other supplemental documents, or unless the home is constructed with a perimeter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

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

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

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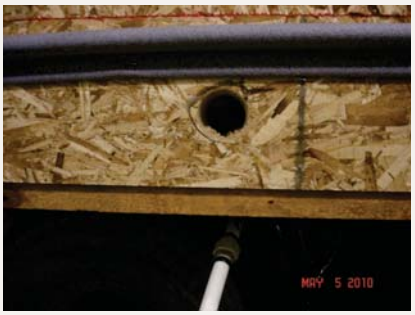
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Installation Instructions
Plumbing Issues

Sanitary Sewer

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

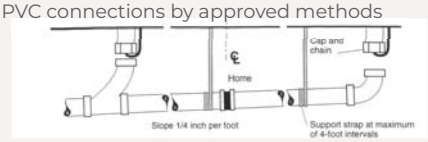
Installation Instructions
Plumbing Issues

Miscellaneous

- Drain, Waste and Vent

Support pipe 48"oc or less by approved method

ABS to PVC connections by approved methods



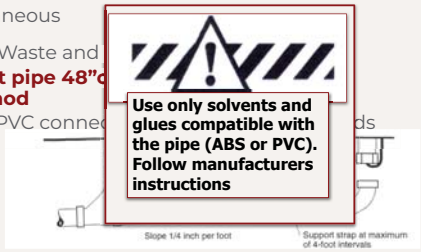
Installation Instructions
Plumbing Issues

Miscellaneous

- Drain, Waste and

Support pipe 48"o
method

ABS to PVC conne ds



Installation I
Plumbing Issu

Miscellaneo

- Drain, Was

Support pip
method

ABS to PVC

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Installation I
Plumbing Issu

Miscellaneo

- Drain, Was

Support pip
method

ABS to PVC

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Installation Instructions
Stabilizing Systems

Determine anchor types / locations

TABLE 21. ANCHOR LOCATION TYPES[1]

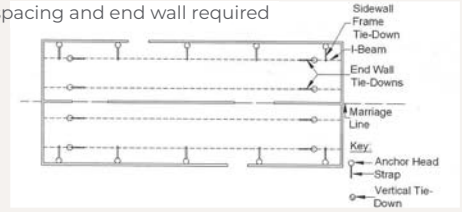
Location	Type	Wind Zone I	Wind Zones II and III	See page
Sidewall	Frame	Yes	Yes	61
	Vertical	No	Yes	65
End wall	Frame	Yes	Yes	65
	Vertical	No	NA	65
Tag Unit	Frame	Yes	NA	65
	Vertical	No	NA	65
Porch Post	Vertical	No	All Vertical Straps	65
Off Set Unit	Same as Single	Section Home		65

[1] 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

Determine anchor locations

Sidewall max. spacing and end wall required



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Installation Instructions
Stabilizing Systems

Sidewall spacing

Utilize appropriate table

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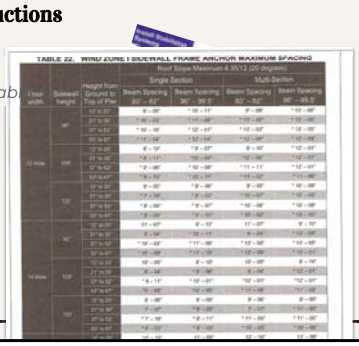
Installation Instructions
Stabilizing Systems

Sidewall spacing

Utilize appropriate tab



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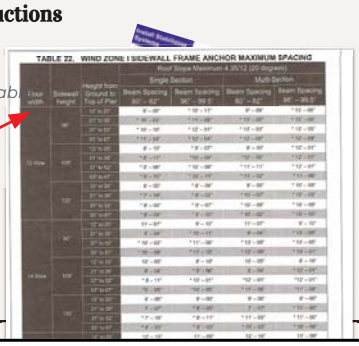
Installation Instructions
Stabilizing Systems

Sidewall spacing

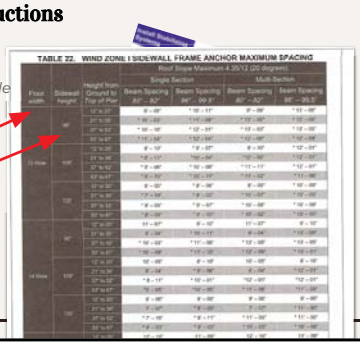
Utilize appropriate tab

Floor Width



Installation Instructions
Stabilizing Systems

Sidewall spacing
Utilize appropriate table



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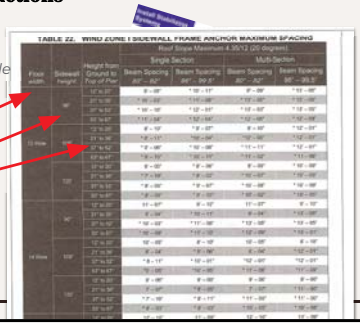
Installation Instructions
Stabilizing Systems

Sidewall spacing
Utilize appropriate table



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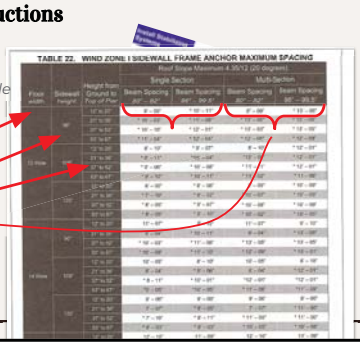
Installation Instructions
Stabilizing Systems

Sidewall spacing
Utilize appropriate table



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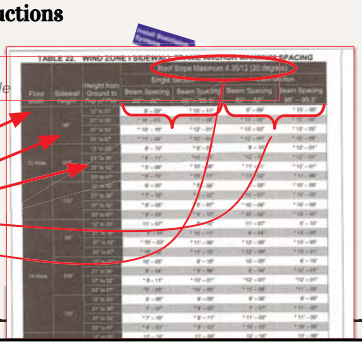
Installation Instructions
Stabilizing Systems

Sidewall spacing
Utilize appropriate table



Floor Width
Sidewall Height
Height of Pier
Beam Spacing
Roof Pitch

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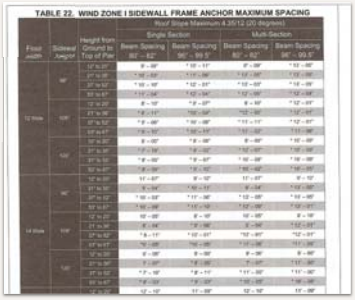
Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch



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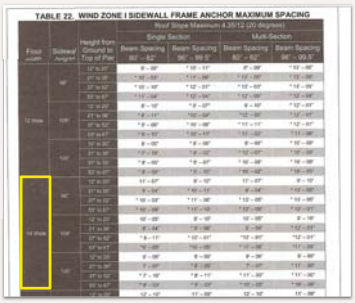
Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

14' Floor Width



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Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

14' Floor Width
96" Sidewall Height

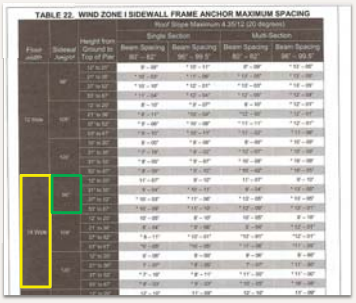
TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

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Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

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

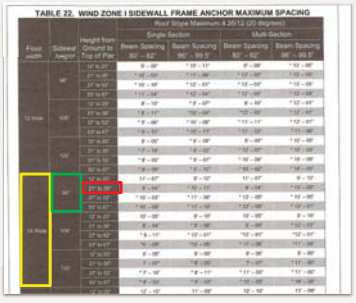
TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

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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

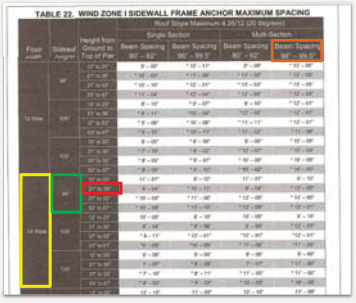
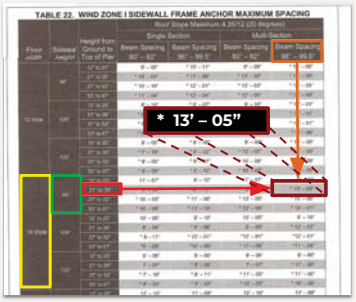


TABLE 22. WIND ZONE I SIDEWALL FRAME ANCHOR MAXIMUM SPACING

Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

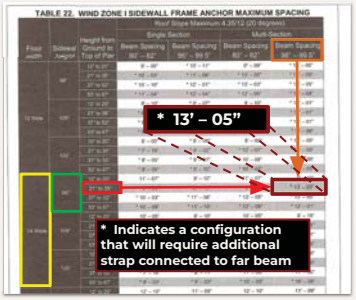
14' Floor Width
96" Sidewall Height
28" Height of Pier
99.5" Beam Spacing



Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

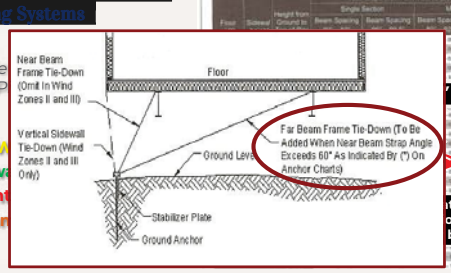
14' Floor Width
96" Sidewall Height
28" Height of Pier
99.5" Beam Spacing



Installation Instructions
Stabilizing Systems

Example:
28' Double
4:12 Roof P

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



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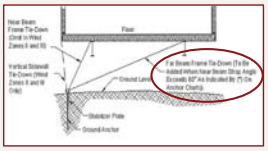
Installation Instructions
Stabilizing Systems

Example:
28' Double Wide
4:12 Roof Pitch

28" Height of Pier



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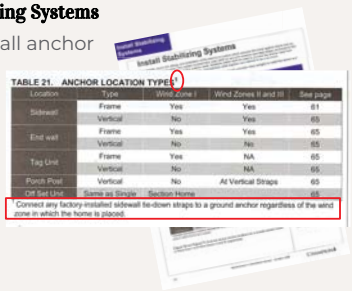
Installation Instructions
Stabilizing Systems

Side wall anchor



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Installation Instructions
Stabilizing Systems

Anchor Depths

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

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Installation Instructions
Stabilizing Systems

Anchor Depths

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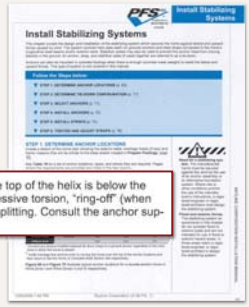

Make sure the anchor is of sufficient length such that the top of the helix is below the frost line. Select a shaft diameter sufficient to resist excessive torsion, "ring-off" (when the helix or anchor head separates from shaft) or shaft splitting. Consult the anchor supplier for guidance.

MHC Consultants LLC

Installation Instructions
Stabilizing Systems

Anchor Depths

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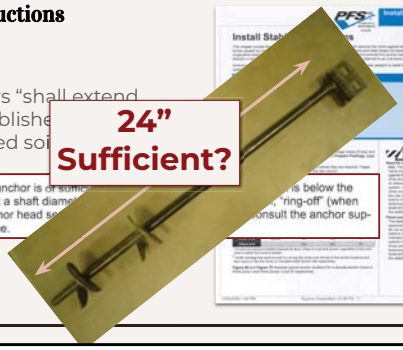

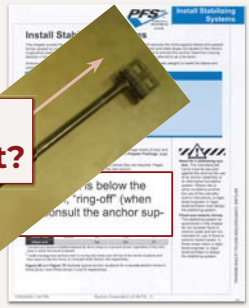

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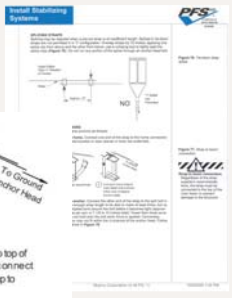
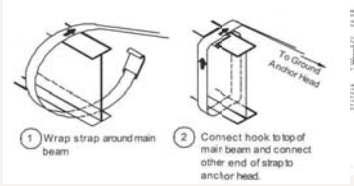
Installation Instructions
Stabilizing Systems

Tie Downs

Install per manufacturer's specifications





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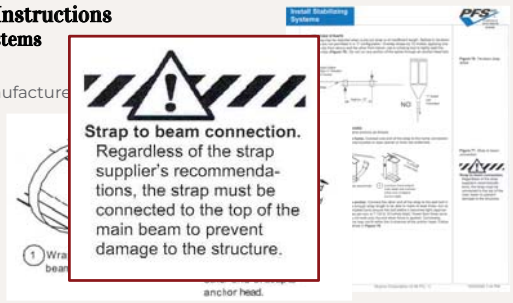
Installation Instructions
Stabilizing Systems

Tie Downs

Install per manufacture



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Installation Instruc
Stabilizing Systems

Tie Downs

Install per manufa

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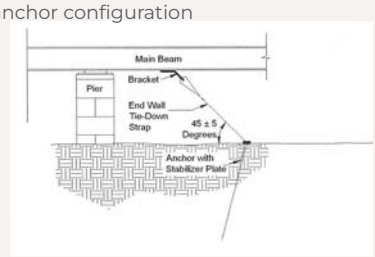
Installation Instructions
Stabilizing Systems

End wall anchor configuration



Installation Instructions

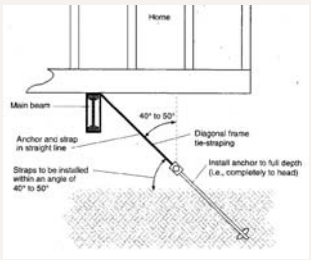
Stabilizing Sy

End wall an

Installation Instructions

Stabilizing Systems

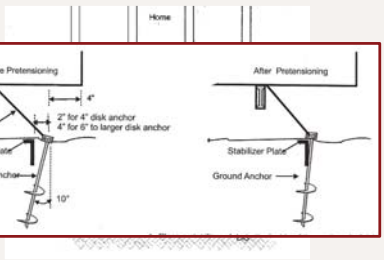
Stabilizer Plates?

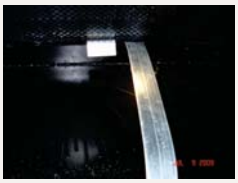


Installation Instructions

Stabilizing Systems

Stabilizer Plates?



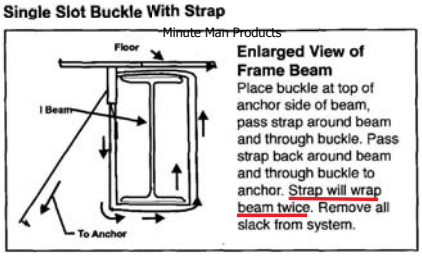




Installation Instructions
Stabilizing Systems
Single Slot Buckle

Installation Instructions
Stabilizing Systems
Single Slot Buckle

Single Slot Buckle With Strap

Minute Man Products



Enlarged View of Frame Beam

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

Installation Instructions
Stabilizing Systems

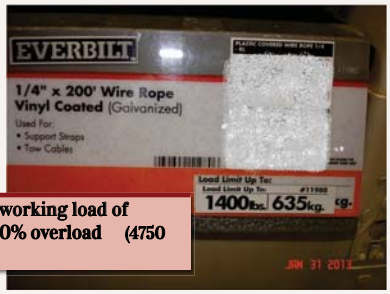
capable of resisting an working load of 3150 lbs and withstand a 50% overload (4750 lbs).

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 ¼" steel cable?

Working load of ¼" 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 Ancho

Certified by design pr

Acceptable to AHJ

Frost protected slab o

Installation Instructions
Stabilizing System

- Manufactured

Certified by des

Acceptable to A

Frost protected

Installation Instru
Stabilizing System

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

Installation Instru
Stabilizing System

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

Installation Instructions
Stabilizing Systems

- Manufactured Anchoring Systems

Installed per manufacturer's installation instructions

Do You Read Them?

Installation Instructions
Stabilizing Systems

- Manufa

Installed
instruc

Installation Instructions
Stabilizing Systems

- Manufa

Installed
instruc

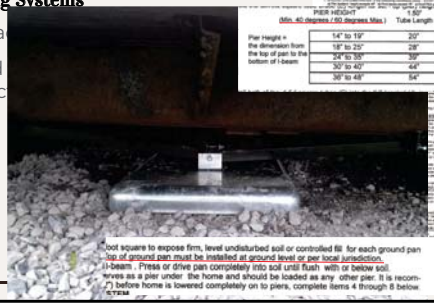
PIER HEIGHT 1.60"
(Min. 40 degrees / 60 degrees Max.) Tube Length

Pier Height = the dimension from the top of pan to the bottom of I-beam	
14" to 19"	20"
18" to 25"	28"
24" to 33"	39"
30" to 40"	44"
36" to 48"	54"

Installation Instructions
Stabilizing Systems

- Manufa

Installed
instruc



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14" to 19"	20"
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24" to 33"	39"
30" to 40"	44"
36" to 48"	54"

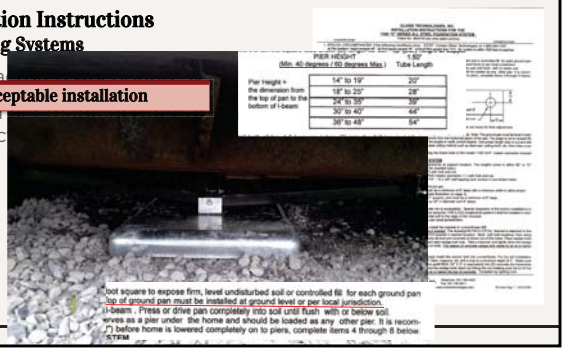
oot square to expose firm, level undisturbed soil or controlled fill for each ground pan
top of ground pan must be installed at ground level or per local jurisdiction.
I-beam . Press or drive pan completely into soil until flush with or below soil
erves as a pier under the home and should be loaded as any other pier. It is recom-
) before home is lowered completely on to piers, complete items 4 through 8 below.
STEM

Installation Instructions

Stabilizing Systems

- Manufa
installed
instruc

Not an acceptable installation



Important Update:

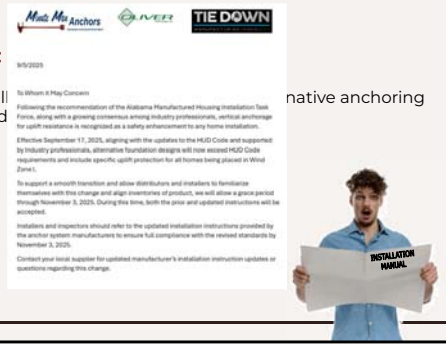
There are new installation instructions for all new alternative anchoring systems that started **November 3rd.**

Important Update:

There are new install native anchoring systems that started

Important Update:

There are new install…native anchoring systems that started…



Mobile Mini Anchors | OLIVER | TIE DOWN

9/5/2025

To Whom it May Concern

Following the recommendation of the Alabama Manufactured Housing Installation Task Force, along with a growing consensus among industry professionals, vertical anchorage for uplift resistance is recognized as a safety enhancement to any home installation.

Effective September 17, 2025, aligning with the updates to the HUD Code and supported by industry professionals, alternative foundation designs will now exceed HUD Code requirements and include specific uplift protection for all homes being placed in Wind Zone I.

To support a smooth transition and allow distributors and installers to familiarize themselves with this change and align inventories of product, we will allow a grace period through November 3, 2025. During this time, both the prior and updated instructions will be accepted.

Installers and inspectors should refer to the updated installation instructions provided by the anchor system manufacturers to ensure full compliance with the revised standards by November 3, 2025.

Contact your local supplier for updated manufacturer's installation instruction updates or questions regarding this change.

Impo…

There…ng system…

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.11,898,318

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, 4B (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

Impo…

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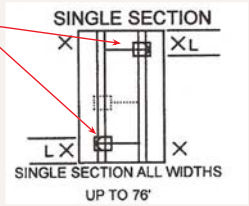
Alt. Tie Downs & End Straps

- 2 Lateral & Longitudinal systems
- At least 2 ft but no more than ¼ the length from the end

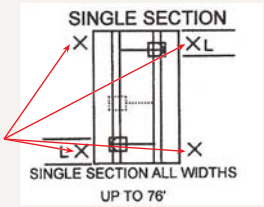


4/12 or 5/12 roof

Oliver 1100 V

Alt. Tie Downs & End Straps

- 2 Lateral & Longitudinal systems
- At least 2 ft but no more than ¼ the length from the end
- Single Section REQUIRE 2 anchors per side. Not more than 2ft from end.



4/12 or 5/12 roof

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

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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.

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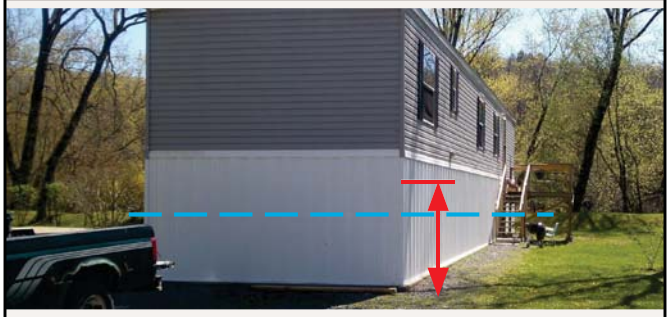

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Exterior Work

Repair and Seal Bottom Board

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

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Exterior Work

Repair and Seal Bott
- Inspect for holes &
- Replace missing in
- Patch large openin
  openings – per In
  Instructions

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

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Exterior Work

Repair and Seal B
- Inspect for holes
- Replace missing
- Patch large oper
  openings – per
  Instructions

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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

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Exterior Work

Skirting

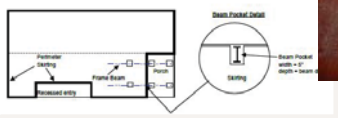
- Structural c
  perimeter
  enclosure
- Extend vent
  inlets to o
- Access (18"x
  utility con

MHC Consultants LLC

- Follow perimeter of the homes conditioned space.

Decks & Porches when part of home

Fully Vented Panels installed to allow water to drain



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Exterior Work

Ventilation

REQUIRED (by: 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

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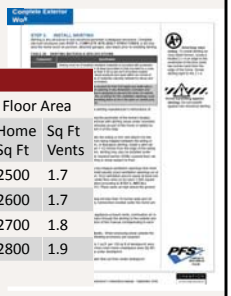
Exterior Work

Ventilation

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

- One square
  of under
- Unless usir
  be equal
- One ventila



Foundation Ventilation

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

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

Reminder: One sq ft = 144 sq inches

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Exterior Work

Ventilation Calculations - Integral Skirting

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

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Exterior Work

Ventilation Calculations - Integral Skirting

- 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)

Exterior Work

Ventilation Calculations - Integral Skirting

- 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

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Exterior Work

MHC Consultants LLC

Exterior Work

MHC Consultants LLC

Exterior Work

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

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

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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

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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

MHC Consultants LLC

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 sqin
All set, right?

MHC Consultants LLC

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” vents

(8x16=128)x2=256 sqin
All set, right?

WRONG

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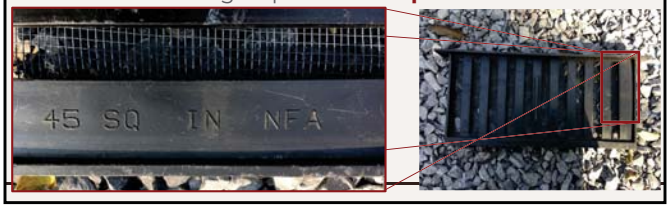
Exterior Work

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

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



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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

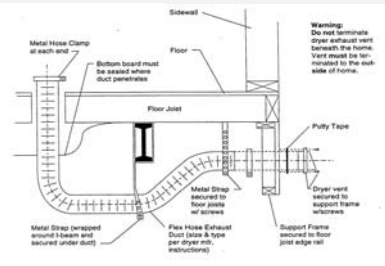
Self supporting unless

DAPIA approved design provided
OR
Designed by a design professional

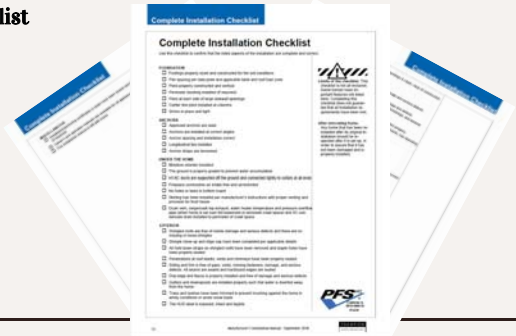
Outside combustion air?

Ventilation and Condensation Control

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



Checklist



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Checklist

WATER AND DRAIN SYSTEMS

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

ELECTRICAL SYSTEMS

- ☐ The panel amperage 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

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Checklist

WATER AND DRAIN SYSTEMS

- ☐ Crossover and service connection and splices have been properly made with correct materials
- ☐ Water and drain lines are insulated or otherwise protected from freezing
- ☐ Pipe supports are installed and properly spaced
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- ☐ 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

Potable Water Testing
Hydrostatic or Pneumatic:

Hydrostatic method (preferred)

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

Checklist

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

ELECTRICAL SYSTEMS
- ☐ The panel amperage 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

Remember the Drain System Testing
2 Part Method

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

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Checklist

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Checklist

Including
1. A continuity test

Checklist

WATER AND DRAIN SYSTEMS
- ☐ Crossover and service connection a… materials
- ☐ Water and drain lines are insulated
- ☐ Pipe supports are installed and pro…
- ☐ Proper slope has been maintained …
- ☐ All necessary inspections and tests
- ☐ All sinks, basins, tubs, and toilets o…
- ☐ All hot and cold water lines are pro… labeled, and operate properly

ELECTRICAL SYSTEMS
- ☐ The panel amperage matches the …
- ☐ The home has been properly g…
- ☐ The main power supply has been … trician
- ☐ All electrical crossovers have been …
- ☐ All receptacles, switches, and light …
- ☐ Ground fault circuit interrupters ope…
- ☐ All exterior lights have been properl…

GAS/FUEL OIL SYST…
- ☐ The gas system p…
- ☐ Connections betw…
- ☐ The main fuel line … technician

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

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Checklist

WATER AND DRAIN SYSTEMS
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Truss, Engineered Lumber or Timber Construction Placard

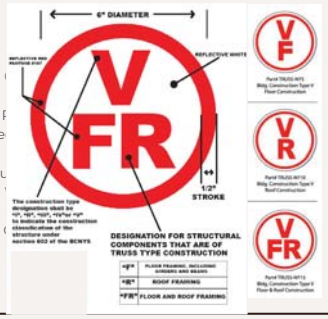
"An act to amend the Executive Law, in relation to notice requirements and enforcement for residential buildings with truss type, pre-engineered wood or timber construction."

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

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

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

Truss … Placard



§1265.4 "…affixed to e … of th residential structure

1. If obscure any me … h: sha affixed to exterior
2. If no electric box … ated where not likely seen by fire … ation approved by LAHJ as a loca … ters

Affixed prior to issua …
Property owner resp … eplacement if necessary

§126 … resi …

1. I … a …
2. I … l … b …

Affi …
Pro …
nec …

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Garage Additions/Add-On Structures

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Garage Additions/Add-On Structures

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

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

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

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

- Garage independence & support

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

- Garage independence & support
- Roof modification & ventilation

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

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

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

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

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

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

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Garage Additions/Add-On Structures

Alternative Construction Approval **REQUIRED**

Issues addressed

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

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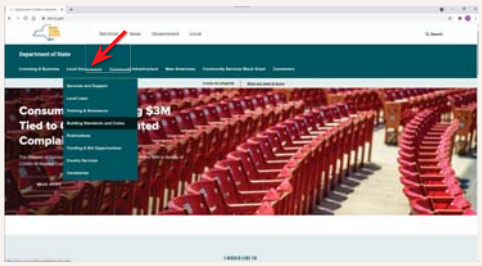
https://dos.ny.gov



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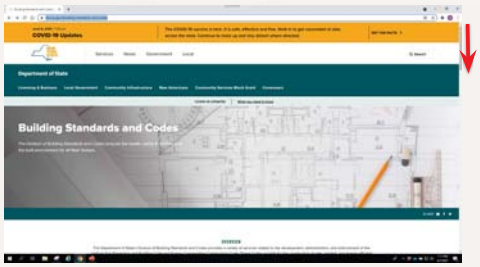
https://dos.ny.gov/building-standards-and-codes



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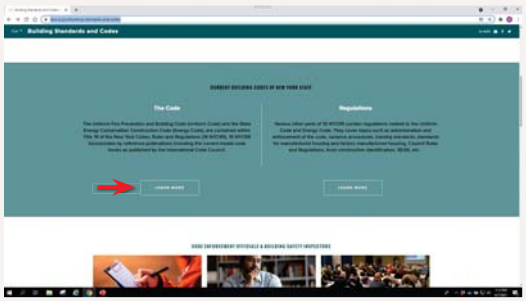

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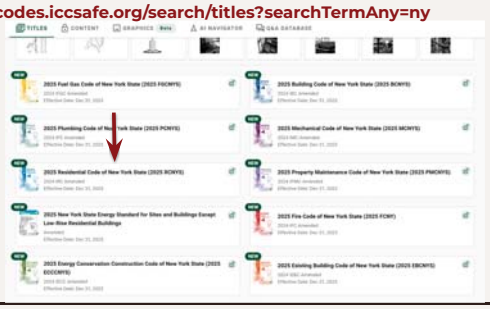

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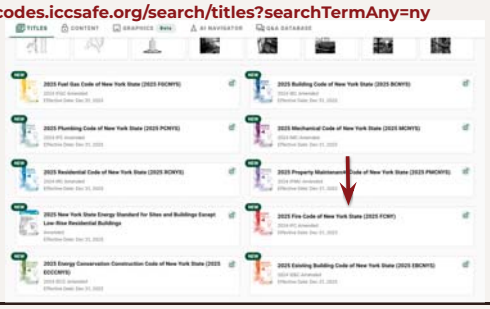

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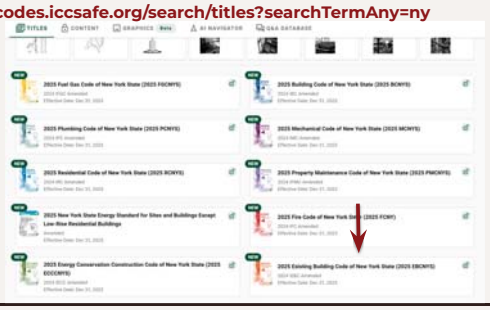

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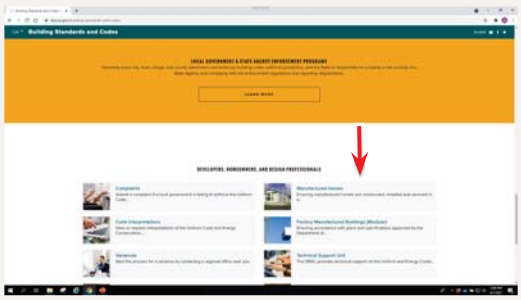

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https://dos.ny.gov/code/manufactured-homes

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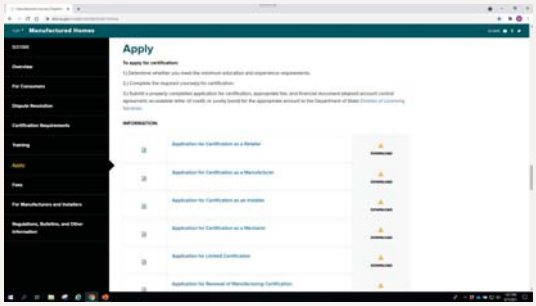

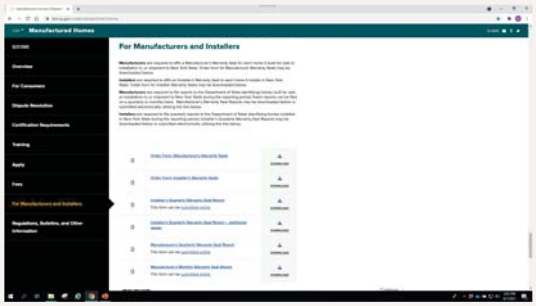

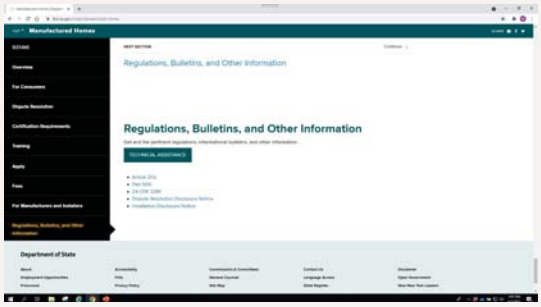

HUD Model Installation Standard (24-CFR-3285)
https://www.govinfo.gov/content/pkg/CFR-2025-title24-vol5/pdf/CFR-2025-title24-vol5-part3285.pdf

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

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Reminders

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

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Reminders

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

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Reminders

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

Don't Forget!

2025 Code

Goes into effect 12/31/25

2020 Code

Use Until Then!

MHC Consultants LLC

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

NEW YORK STATE | Department of State
Building Standards & Codes

MHC Consultants LLC

Any questions?

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If you couldn't take the polls

If your name is wrong on your certificate

Add it to your safe senders list

Any questions?