

# Mobile Home Permit Worksheet

SAMS MOBILE HOME SERVICE LLC

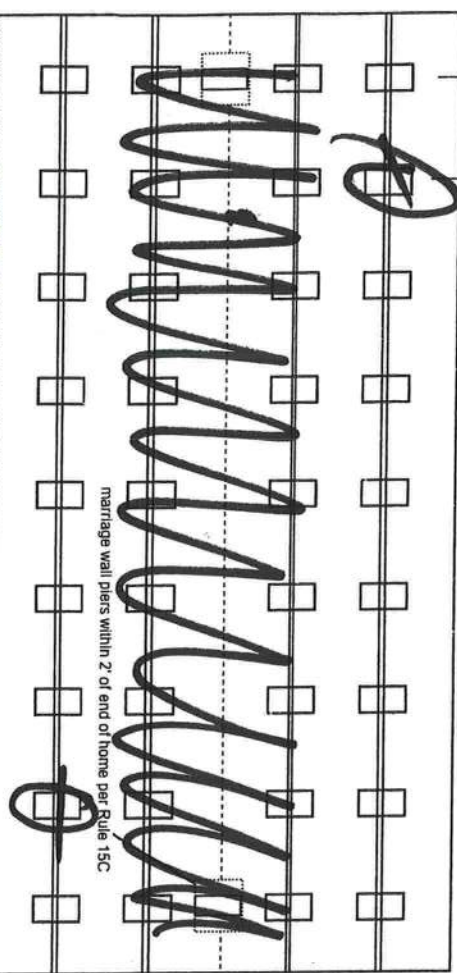
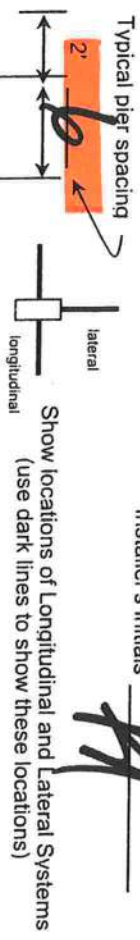
Installer Dick and Kaydon License # IH1025436

Address of home being installed 248 Sycamore Dr Fort White, FL

Manufacturer TGA Length x width 14x66

NOTE: if home is a single wide fill out one half of the blocking plan if home is a triple or quad wide sketch in remainder of home I understand Lateral Arm Systems cannot be used on any home (new or used) where the sidewall ties exceed 5 ft 4 in.

Installer's initials PI



SAMS MOBILE HOME SERVICE LLC 352-257-1282 Page 1 of 2

Permit Number: \_\_\_\_\_ Date: \_\_\_\_\_

New Home ☐ Used Home ☒

Home installed to the Manufacturer's Installation Manual Home is installed in accordance with Rule 15-C

Single wide ☒ Wind Zone II ☒ Wind Zone III ☒

Double wide ☒ Installation Decal # TGA

Triple/Quad ☒ Serial # TGA

## PIER SPACING TABLE FOR USED HOMES

| Load bearing capacity (sq in) | Footer size (256) | 18 1/2" x 18 (342) | 20" x 20" (400) | 22" x 22" (484)* | 24" x 24" (576)* | 26" x 26" (676) |
|-------------------------------|-------------------|--------------------|-----------------|------------------|------------------|-----------------|
| 1000 psf                      | 3'                | 4'                 | 5'              | 6'               | 7'               | 8'              |
| 1500 psf                      | 4' 6"             | 6'                 | 7'              | 8'               | 8'               | 8'              |
| 2000 psf                      | 6'                | 8'                 | 8'              | 8'               | 8'               | 8'              |
| 2500 psf                      | 7' 6"             | 8'                 | 8'              | 8'               | 8'               | 8'              |
| 3000 psf                      | 8'                | 8'                 | 8'              | 8'               | 8'               | 8'              |
| 3500 psf                      | 8'                | 8'                 | 8'              | 8'               | 8'               | 8'              |

\* interpolated from Rule 15C-1 pier spacing table.

### PIER PAD SIZES

I-beam pier pad size 17x25

Perimeter pier pad size \_\_\_\_\_

Other pier pad sizes (required by the mfg.) \_\_\_\_\_

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

Opening doors Pier pad size 16x16

### ANCHORS

4 ft ☒ 5 ft ☒

### TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD) Manufacturer Dynafix Longitudinal Stabilizing Device w/ Lateral Arms Manufacturer \_\_\_\_\_

### OTHER TIES

Sidewall Marriage wall Shearwall Number and

#44945



# Mobile Home Permit Worksheet

## POCKET PENETROMETER TEST

The pocket penetrometer tests are rounded down to 1500 psf or check here to declare 1000 lb. soil \_\_\_\_\_ without testing.

X 1500 X 1500 X 1500

### POCKET PENETROMETER TESTING METHOD

1. Test the perimeter of the home at 6 locations.
2. Take the reading at the depth of the footer.
3. Using 500 lb. increments, take the lowest reading and round down to that increment.

X 1500 X 1500 X 1500

### TORQUE PROBE TEST

The results of the torque probe test is 255 inch pounds or check here if you are declaring 5' anchors without testing 8. A test showing 275 inch pounds or less will require 5 foot anchors.

**Note:** A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5 ft. anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may requires anchors with 4000 lb. pulling capacity.

Installer's initials

### ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name

Date Tested

Electrical

Plumbing

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. 3

Connect all sewer drains to an existing sewer tap or septic tank. Pg. 3

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. 3

Sam's mobile home service, Inc 352-257-1282

Permit Number: \_\_\_\_\_

Date: \_\_\_\_\_

### Site Preparation

Debris and organic material removed ☒ Swale ☐ Pad ☐ Other ☐

### Fastening multi wide units

Roof: \_\_\_\_\_  
Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
For used homes a min. 30 gauge, 8" wide, galvanized metal strip will be centered over the peak of the roof and fastened with galv. roofing nails at 2" on center on both sides of the centerline.

### Gasket (weatherproofing requirement)

I understand a properly installed gasket is a requirement for all new and used homes and that condensation, mold, mildew and backed marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials

Type gasket \_\_\_\_\_

Pg. \_\_\_\_\_

Installed: \_\_\_\_\_  
Between Floors Yes \_\_\_\_\_  
Between Walls Yes \_\_\_\_\_  
Bottom of ridgebeam Yes \_\_\_\_\_

### Weatherproofing

The bottomboard will be repaired and/or taped. Yes ☒ Pg. 3  
Siding on units is installed to manufacturer's specifications. Yes ☒  
Fireplace chimney installed so as not to allow intrusion of rain water. Yes ☒

### Miscellaneous

Skirting to be installed. Yes ☒ No ☐  
Dryer vent installed outside of skirting. Yes ☒ N/A \_\_\_\_\_  
Range downflow vent installed outside of skirting. Yes ☒ N/A \_\_\_\_\_  
Drain lines supported at 4 foot intervals. Yes ☒ N/A \_\_\_\_\_  
Electrical crossovers protected. Yes ☒ N/A \_\_\_\_\_  
Other: \_\_\_\_\_

Installer verifies all information given with this permit worksheet is accurate and true based on the manufacturer's installation instructions and or Rule 15C-1 & 2

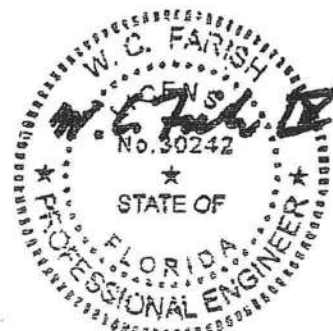
Installer Signature \_\_\_\_\_

Date

7-13-21



OLIVER TECHNOLOGIES, INC.  
INSTALLATION INSTRUCTIONS FOR FLORIDA  
MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM PAN & CONCRETE (revision 5/18)  
PATENT# 6634150 & OTHER PATENT PENDING



Aug 24, 2018



457 Swan Ave • Hohenwald, TN 38461 • (800) 284-7437 • www.olivertechnologies.com • Fax (931) 796-8811

**OLIVER TECHNOLOGIES, INC.**  
**FLORIDA INSTALLATION INSTRUCTIONS FOR THE**  
**MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM**

**MODEL 1101 "V" (Steps 1-14)**  
**LONGITUDINAL ONLY: Follow Steps 1-9**  
**LATERAL ONLY: Follow Steps 1-3 and Steps 10-14**  
**FOR CONCRETE APPLICATIONS: Follow Steps 15-18**

ENGINEERS STAMP

ENGINEERS STAMP

**1 SPECIAL CIRCUMSTANCES:** If the following conditions occur - **STOP! Contact Oliver Technologies at 1-800-284-7437:**

- a) Pier height exceeds 48"      c) Roof eaves exceed 16"      e) Location is within 1500 feet of coast  
 b) length of home exceeds 76'      d) Sidewall height exceed 96"

**INSTALLATION OF GROUND PAN**

- 2 Remove weeds and debris in an approximate two foot square to expose firm soil for each ground pan (C).  
 3 Place ground pan (C) directly below chassis I-beam. Press or drive pan firmly into soil until flush or below soil then install pier per manufacturer's instructions or per Florida Regs.

**SPECIAL NOTE:** The longitudinal "V" brace system may also serve as a pier under the home and should be loaded as any other pier. It is recommended that after leveling piers, and one-third inch (1/3") before home is lowered completely on to piers, complete steps 4 through 9 below then remove jacks.

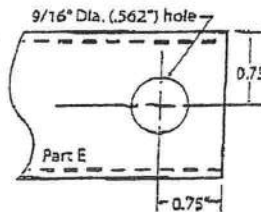
**INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101 "V")**

**NOTE:** WHEN INSTALLING THE LONGITUDINAL SYSTEM ONLY, A MINIMUM OF 2 SYSTEMS PER FLOOR SECTION IS REQUIRED. SOIL TEST PROBE SHOULD BE USED TO DETERMINE CORRECT TYPE OF ANCHOR PER SOIL CLASSIFICATION. IF PROBE TEST READINGS ARE BETWEEN 175 & 275 A 5 FOOT ANCHOR MUST BE USED. IF PROBE TEST READINGS ARE BETWEEN 276 & 350 A 4 FOOT ANCHOR MAY BE USED. USE GROUND ANCHORS WITH DIAGONAL TIES AND STABILIZER PLATES EVERY 5'4". VERTICAL TIES ARE ALSO REQUIRED ON HOMES SUPPLIED WITH VERTICAL TIE CONNECTION POINTS (PER FLORIDA REG.).

4. Choose one of the approved longitudinal tube installations; either Diagram A or B. Then select the correct square tube (E) length from the diagram for appropriate pier height at support location or cut and drill 1.5" square tube to achieve appropriate length.

| PIER HEIGHT<br>(40° Min. - 45° Max.) | 1.25" Tube Length | 1.50" Tube Length |
|--------------------------------------|-------------------|-------------------|
| 7 3/4" to 25"                        | 22"               | 18"               |
| 24 3/4" to 32 1/4"                   | 32"               | 18"               |
| 33" to 41"                           | 44"               | 18"               |
| 40" to 48"                           | 54"               | 18"               |

Diagram A



| PIER HEIGHT<br>(40° Min. - 60° Max.) | 1.50" Tube Length |
|--------------------------------------|-------------------|
| 14" to 18"                           | 20"               |
| 18" to 25"                           | 28"               |
| 24" to 35"                           | 39"               |
| 30" to 40"                           | 44"               |
| 36" to 48"                           | 54"               |

Diagram B

5. Install (2) of the 1.50" square tubes (E) into the "U" bracket (J), insert carriage bolt and leave nut loose for final adjustment.  
 6. Place I-beam connector (F) loosely on the bottom flange of the I-beam.  
 7. (For Diagram A installation) Slide the selected 1.25" tube (E) into a 1.50" tube (E) and attach to I-beam connectors (F) and fasten loosely with bolt and nut. (For Diagram B installation) Attach the selected 1.5" tubes (E) to the I-beam connectors (F) and fasten loosely with bolts and nuts.  
 8. Repeat steps 6 through 7 to create the "V" pattern of the square tubes loosely in place.  
 9. Using standard hand tools tighten all nuts and bolts. (For Diagram A installation only, secure 1.25" and 1.50" tubes using four (4) 1/4"-14 x 3/4" self-tapping screws in pre-drilled holes.)

**INSTALLATION OF LATERAL TELESCOPING TRANSVERSE ARM SYSTEM (Model 1101 T "V")**

THE MODEL 1101 "V" (LONGITUDINAL & LATERAL PROTECTION) ELIMINATES THE NEED FOR STABILIZER PLATES & FRAME TIES.

**NOTE:** THE USE OF THIS SYSTEM REQUIRES VERTICAL TIES SPACED AT 5'4".

FOUR FOOT (4') GROUND ANCHOR MAY BE USED EXCEPT WHERE THE HOME MANUFACTURER SPECIFIES DIFFERENT.

10. Install remaining vertical tie-down straps and 4' ground anchors per home manufacturer's instructions. NOTE: Centerline anchors to be sized according to soil torque condition. Any manufacturer's specifications for sidewall anchor loads in excess of 4,000 lbs. require a 5' anchor per Florida Code.  
 11. Select the correct square tube brace (H) length for set-up lateral transverse at support location. The lengths come in either 60" or 72" lengths. (With the 1.50" tube as the bottom tube, and the 1.25" tube as the inserted tube.)  
 12. Install the 1.50 transverse brace (H) to the ground pan connector (D) with bolt and nut.  
 13. Slide 1.25" transverse brace into the 1.50" brace and attach to adjacent I-beam connector (I) with bolt and nut.  
 14. Secure 1.50" transverse arm to 1.25" transverse arm using four (4) 1/4" - 14 x 3/4" self-tapping screws in pre-drilled holes.

PATENT# 6634150 & OTHER PATENT PENDING

Page 1

Revision 08/23/18



**OLIVER****Technologies, Inc.**

467 Swan Ave • Hohenwald TN 38462 • (800) 284-7437 • www.olivertech.com • Fax (931) 796-8811

**INSTALLATION USING CONCRETE RUNNER/FOOTER**

15. A concrete runner, footer or slab may be used in place of the steel ground pan.
- The concrete shall be minimum 2500 psi mix.
  - A concrete runner may be either longitudinal or transverse, and must be a minimum of 8" deep with a minimum width of 16 inches longitudinally or 18 inches transverse to allow proper distance between the concrete bolt and the edge of the concrete (see below).
  - Footers must have minimum surface area of 441 sq. in. (i.e. 21" square), and must be a minimum of 8" deep.
  - If a full slab is used, the depth must be a 4" minimum. Special inspection of the system bracket installation is not required. Footers must allow for at least 4" from the concrete bolt to the edge of the concrete.

**NOTE:** The bottom of all footings, pads, slabs and runners must be per local jurisdiction.

**LONGITUDINAL: (Model 1101 LC "V")**

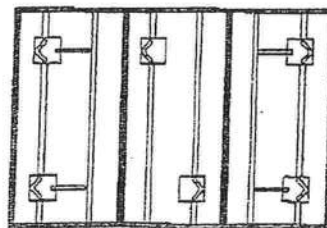
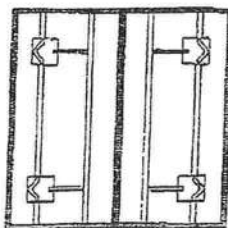
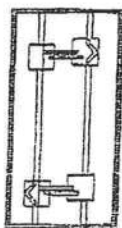
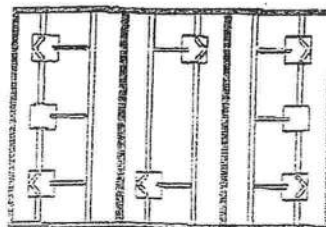
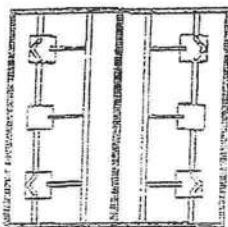
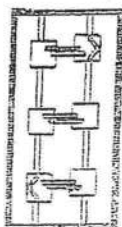
16. When using Part# 1101-W-CPCA (wetset) simply install the bracket in runner/footer OR When installing in cured concrete use Part# 101-D-CPCA (dryset). The 1101 (dryset) CA bracket is attached to the concrete using (2) 5/8"x3" concrete wedge bolts (Simpson part # S162300H 5/8" X 3" or Powers equivalent). Place the CA bracket in desired location. Mark bolt hole locations, then using a 5/8" diameter masonry bit, drill a hole to a minimum depth of 3". Make sure all dust and concrete is blown out of the holes. Place wedge bolts into drilled holes, then place 1101 (dry set) CA bracket onto wedge bolts and start wedge bolt nuts. Take a hammer and lightly drive the wedge bolts down by hitting the nut (making sure not to hit the top of threads on bolt). The sleeve of concrete wedge bolt needs to be at or below the top of concrete. Complete by tightening nuts.

**LATERAL: (Model 1101 TC "V")**

17. For wet set (part # 1101-W-TACA) installation simply install the anchor bolt into runner/footer. For dry set installation (part # 1101-D-TACA) mark bolt hole locations, then using a 5/8" diam. masonry bit, drill a hole to a minimum depth of 3". Make sure all dust and concrete is blown out of the hole. Place wedge bolts (Simpson part #S162300H 5/8" X 3" or Powers equivalent) into (D) concrete dry transverse connector and into drilled hole. If needed, take a hammer and lightly drive the wedge bolts down by hitting the nut (making sure not to hit the top of threads on bolt), then remove the nut. The sleeve of concrete wedge bolt needs to be at or below the top of concrete.
18. When using part# 1101 CVW (wetset) or 1101 CVD (dryset), install per steps 17 & 18.

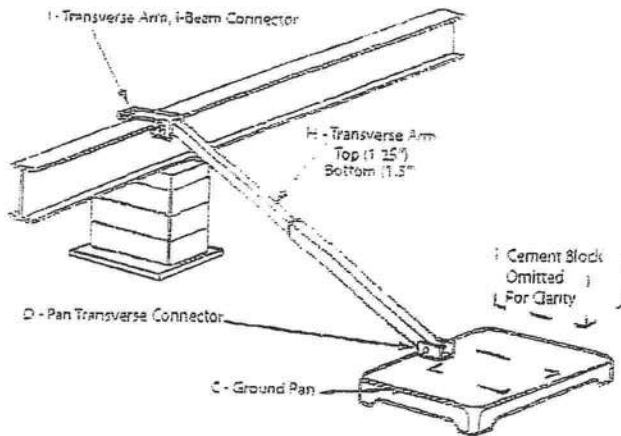
**Notes:**

1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE
2.  = LOCATION OF TRANSVERSE BRACING ONLY
3.  = LOCATION OF LONGITUDINAL BRACING ONLY
4.  = TRANSVERSE AND LONGITUDINAL LOCATIONS

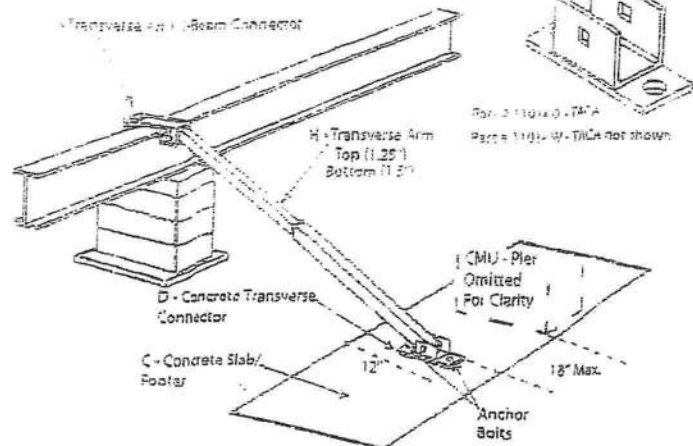
**ALL WIDTHS AND LENGTHS UP TO 52'****ALL WIDTHS AND LENGTHS OVER 52' TO 80'**

HOUSES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS  
6 systems for home lengths up to 52' and 8 systems for homes over 52' and up to 80'

PATENT# 6634150 &amp; OTHER PATENT PENDING



**Model #1101 T "V"**



**Model #1101 TC "V"**

Florida approved 4' ground anchors may be used in all locations except where home manufacturers specifications for sidewall straps are in excess of 4,000 lbs. These locations require a 5' anchor. Per Florida code.

C = GROUND PAN / CONCRETE FOOTER OR RUNNER

D = GROUND PAN / CONCRETE U-BRACKETS TRANSVERSE CONNECTOR (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)

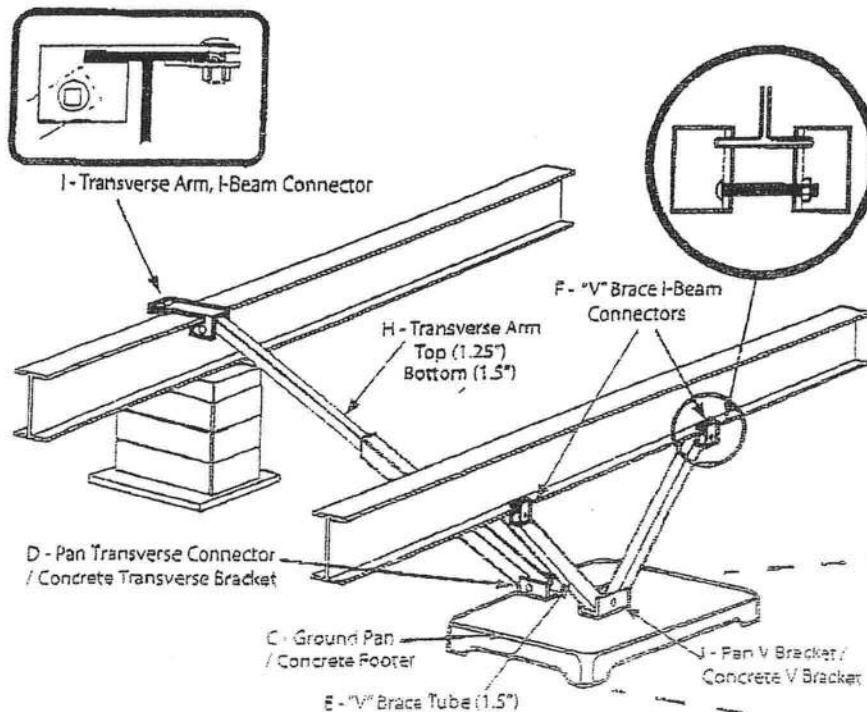
E = TELESOPING V BRACE TUBE ASSEMBLY (1.5" TUBE BOTTOM AND 1.25" TUBE INSERT FOR 1.5" TUBE)

F = "V" BRACE I-BEAM CONNECTOR ASSEMBLY

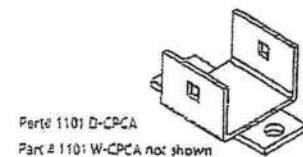
H = TELESOPING TRANSVERSE ARM ASSEMBLY

I = TRANSVERSE ARM I-BEAM CONNECTOR (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)

J = V PAN BRACKET (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)

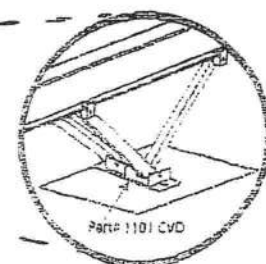


**Model #1101 "V"**



Part 1101 D-CPCA

Part 1101 W-CPCA not shown



**Model #1101 C "V"**



State of Florida  
DEPARTMENT OF  
HIGHWAY SAFETY AND MOTOR VEHICLES

TALLAHASSEE, FLORIDA 32399-0500

FRED Q. DICKINSON, III  
Executive Director

March 20, 2002

Mr. Bert A. Moore, Financial Manager  
Manufactured Housing Foundation Systems  
Oliver Technologies, Inc.  
Post Office Box 9 (467 Swan Avenue)  
Hohenwald, Tennessee 38462

Dear Mr. Moore:

We wish to acknowledge receipt of your specifications and test results certifying that your Longitudinal Stabilizing and Lateral Bracing System, 1101 V, listed below complies with the specifications and regulations set by the Department of Highway Safety and Motor Vehicles, Rules 15C-1.0105, 15C-1.0107 and 15C-1.0108, Florida Administrative Code.

Installation instructions must be available at the installation site.

MODEL #

DESCRIPTION

1101 V

Longitudinal Stabilizing and Lateral Bracing System

*NOTE: This system is for replacement of longitudinal anchors. This system can only be used with sidewall anchor spacing of 5'4". Maximum strut angle 45°.*

If you have any questions, please advise at (407) 623-1340.

Sincerely,

Phil Bergelt, Program Manager  
Bureau of Mobile Home and  
Recreational Vehicle Construction  
Division of Motor Vehicles

FPB:srb

11/18/2017 10:12 11/18/2017 10:12

**FLORIDA**  
A SAFER  
HIGHWAY SAFETY AND MOTOR VEHICLES

Terry L. Rhodes  
Executive Director

2900 Apalachee Parkway  
Tallahassee, Florida 32399-0600  
www.flhsmv.gov

MEMORANDUM

**TO:** All Steel Telescoping Lateral Arm Manufacturers  
**FROM:** Wayne Jordan, Operations Services Manager, Manufactured Housing Section  
Florida Department of Highway Safety and Motor Vehicles *WJ*  
**DATE:** August 6, 2018  
**SUBJECT:** Elimination of Requirement for Supplemental Frame Ties and Stabilizer Plates at All Steel Telescoping Lateral Arm Locations

The Department has reviewed some concerns expressed by several of the steel telescoping lateral arm manufacturers regarding the Department's requirement to install supplemental frame ties and stabilizer plates on the steel telescoping lateral arm systems.

In an abundance of caution, the Department required supplemental frame ties /stabilizer plates at each lateral arm location in June of 2002. After researching data from storm reports, the Department has found no evidence of the need for these supplemental frame ties/stabilizer plates. With this information in mind, the Department will discontinue the requirement for the supplemental frame ties/stabilizer plates at each lateral arm location.

Manufacturers who wish to change their installation instructions to remove this requirement, must resubmit their last engineering report showing the whole house test without the use of supplemental frame ties/stabilizer plates. Upon receipt and review of the engineering report, the Department will remove the requirement for supplemental frame ties/stabilizer plates. Each manufacturer will be notified within two weeks of receipt of the engineering report. These reports must be sent to my attention at 5701 East Hillsborough Ave, Suite 2228, Tampa, Florida 33610.

If the need arises in the future, the Department may impose additional requirements to the steel telescoping lateral arm systems with a change to Florida Administrative Code Rule 15C-1.



Brian Valente

---

From: Jordan, Herbert <HerbertJordan@flhsmv.gov>  
Sent: Friday, August 24, 2018 11:33 AM  
To: Brian Valente  
Subject: RE: Oliver Technologies Revised Installation Instructions

Brian,

The department has received Oliver Technologies engineering report showing Oliver Technologies All steel Foundation Brace System Model 1101V was tested without frame ties/stabilizer plates. Pursuant to the departments memorandum of July 23, 2018, Oliver Technologies may start offering the Model 1101V All Steel Foundation Brace System without the frame tie/stabilizer plate at each lateral arm location. In order to avoid any confusion to building departments, Oliver should send the new installation instructions to your suppliers who sell the Model 1101V System.

*Wayne Jordan*

Operations Services Manager  
Manufactured Housing Section

[herbertjordan@flhsmv.gov](mailto:herbertjordan@flhsmv.gov)

813-302-5032



From: Brian Valente <b.valente9@gmail.com>  
Sent: Thursday, August 23, 2018 12:53 PM  
To: Jordan, Herbert <HerbertJordan@flhsmv.gov>  
Subject: Oliver Technologies Revised Installation Instructions

Hi Wayne, please see the attached Installation Instructions that reflect the changes we spoke about on Tuesday. If you have any questions or notice any errors, please let me know.

Thank you for all of your help,

Brian Valente  
Oliver Technologies  
FL Sales  
678-574-0946



Terry L. Krueger  
Executive Director

3940 Apalachee Parkway  
Tallahassee, Florida 32399-0800  
www.flhsmv.gov

---

MEMORANDUM

**TO:** All Steel Telescoping Lateral Arm Manufacturers  
**FROM:** Wayne Jordan, Operations Services Manager, Manufactured Housing Section  
Florida Department of Highway Safety and Motor Vehicles *WJ*  
**DATE:** August 6, 2018  
**SUBJECT:** Elimination of Requirement for Supplemental Frame Ties and Stabilizer Plates at All Steel Telescoping Lateral Arm Locations

---

The Department has reviewed some concerns expressed by several of the steel telescoping lateral arm manufacturers regarding the Department's requirement to install supplemental frame ties and stabilizer plates on the steel telescoping lateral arm systems.

In an abundance of caution, the Department required supplemental frame ties/stabilizer plates at each lateral arm location in June of 2002. After researching data from storm reports, the Department has found no evidence of the need for these supplemental frame ties/stabilizer plates. With this information in mind, the Department will discontinue the requirement for the supplemental frame ties/stabilizer plates at each lateral arm location.

Manufacturers who wish to change their installation instructions to remove this requirement, must resubmit their last engineering report showing the whole house test without the use of supplemental frame ties/stabilizer plates. Upon receipt and review of the engineering report, the Department will remove the requirement for supplemental frame ties/stabilizer plates. Each manufacturer will be notified within two weeks of receipt of the engineering report. These reports must be sent to my attention at 5701 East Hillsborough Ave, Suite 2228, Tampa, Florida 33610.

If the need arises in the future, the Department may impose additional requirements to the steel telescoping lateral arm systems with a change to Florida Administrative Code Rule 15C-1.

**Installation Instructions for ABS Pads**  
**For use on all Mobile and Manufactured Homes, including:**  
**HUD approved Homes and Modular Building**  
**Patent #6503500 and other patents pending**

**GENERAL INSTRUCTIONS**

1. All pads are to be installed flat side down, ribbed side up.
2. The ground under the pads should be leveled as smooth as possible with all vegetation and rocks removed. Pads to be placed on evenly compacted soil, at or below the frost-line or otherwise protected from the effects of frost. Refer to NCSCS/ANSI A225.1
3. Pier & pad spacing will be determined by the manufactured homes' written set-up instructions or any local or state codes.
4. Center blocks on ABS pad and complete pier.
5. The open cells between the nobby on the upper side of the pads may be filled with soil or sand after installation to prevent any accumulation of stagnant water in the pads.
6. A pocket penetrometer may be used to determine the actual soil bearing value. If no soil testing equipment is available - use an assumed soil value of 1000 lbs. / square foot.

**NOTES:**

1. All pad sizes shown are nominal dimensions and may vary up to 1/8"
2. The maximum deflection in a single pad is 5/8" measured from the highest point to the lowest point of the top face.  
 (NOTE: Actual test results were less than 5/8")
3. Pad loads are the same when using single stack or double stack blocks.
4. The maximum load at any intermediate soil value may be interpolated between the next lower and next higher soil values given in the table below.
5. Any ABS pad configuration may be used to replace a home manufacturer's recommended concrete or wood base pad.
6. Steel Piers: All pads are tested with steel piers on 1000 PSF soil density unless otherwise noted. If required, attach with 2" #12 x 1/2" hex tech screws. Minimum Pier Base 7 1/4". The Multi-Pad configuration requires a minimum 9 1/4" pier base.
7. Available pads tested on 2000 PSF soil capacity using steel piers are: ID #1055-14, 1055-9, 1045-7 and 1055-13
8. If soil capacities exceed 3000 psf use the 3000 psf soil values from the table.

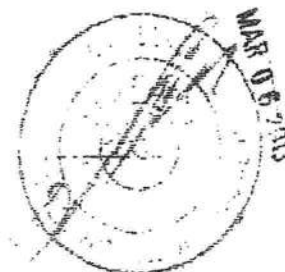
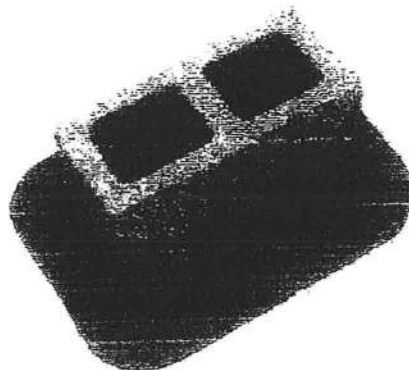
| PAD SIZE             | ID NO.              | PAD AREA    | 1000 PSF  | 1500 PSF  | 2000 PSF  | 2500 PSF   | 3000 PSF   |
|----------------------|---------------------|-------------|-----------|-----------|-----------|------------|------------|
| Oval 16" x 18.5"     | 1055-23/AIT-06-1000 | 288 sq. in. | 2000 lbs. | 3000 lbs. | 4000 lbs. | 5000 lbs.  | 6000 lbs.  |
| Oval 17" x 22"       | 1055-16/AIT-06-1001 | 360 sq. in. | 2500 lbs. | 3750 lbs. | 5000 lbs. | 6250 lbs.  | 7500 lbs.  |
| Oval 17.5" x 22.5"   | 1055-21             | 384 sq. in. | 2667 lbs. | 4000 lbs. | 5334 lbs. | 6667 lbs.  | 8000 lbs.  |
| Oval 17.5" x 25.5"   | 1055-17/AIT-06-1002 | 432 sq. in. | 3000 lbs. | 4500 lbs. | 6000 lbs. | 7500 lbs.  | 9000 lbs.  |
| Oval 21" x 29"       | 1055-22/AIT-06-1003 | 576 sq. in. | 4000 lbs. | 6000 lbs. | 8000 lbs. | 10000 lbs. | 12000 lbs. |
| Oval 23.25" x 31.25" | 1055-20/AIT-06-1004 | 675 sq. in. | 4688 lbs. | 7032 lbs. | 9376 lbs. | 11720 lbs. | 14064 lbs. |

| PAD SIZE             | ID NO.              | PAD AREA    | 1000 PSF  | 1500 PSF  | 2000 PSF  | 2500 PSF   | 3000 PSF   |
|----------------------|---------------------|-------------|-----------|-----------|-----------|------------|------------|
| Square 16" x 16"     | 1055-14/AIT-06-1005 | 256 sq. in. | 1778 lbs. | 2664 lbs. | 3556 lbs. | 4445 lbs.  | 5333 lbs.  |
| Square 18.5" x 18.5" | 1055-9/AIT-06-1006  | 342 sq. in. | 2375 lbs. | 3550 lbs. | 4750 lbs. | 5935 lbs.  | 7100 lbs.  |
| Square 20" x 20"     | 1055-7/AIT-06-1007  | 400 sq. in. | 2750 lbs. | 4125 lbs. | 5500 lbs. | 6875 lbs.  | 8250 lbs.  |
| Square 22" x 22"     | 1055-15/AIT-06-1008 | 576 sq. in. | 4000 lbs. | 6000 lbs. | 8000 lbs. | 10000 lbs. | 12000 lbs. |

\* Indicates that Piers are required to be double blocked.

EXAMPLE: 16" x 80" section (Alabama only)

| PAD SIZE           | 1000 PSF | 2000 PSF |
|--------------------|----------|----------|
| Oval 16" x 18.5"   | 3'0"     | 6'0"     |
| Oval 17" x 22"     | 3'6"     | 7'6"     |
| Oval 17.5" x 22.5" | 4'0"     | 8'0"     |
| Oval 17.5" x 25.5" | 4'8"     | 9'0"     |
| Oval 21" x 29"     | 5'0"     | 9'6"     |



ENGINEER APPROVAL



## Multi-Pad Configurations

### ABS Pad Types

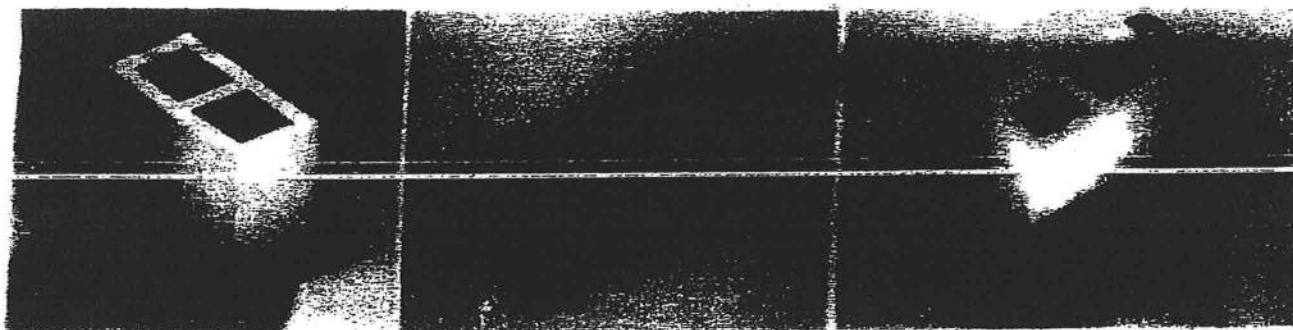
|                                        |                   |                         |
|----------------------------------------|-------------------|-------------------------|
| Over 16" x 18.5" Pad                   | 2.00 Square Feet  | ID # 1055-23/AT-08-1000 |
| Over 32" x 18.5" Pad Configuration (3) | 6.00 Square Feet  |                         |
| Over 17" x 22" Pad                     | 2.50 Square Feet  | ID # 1055-16/AT-06-1000 |
| Over 34" x 22" Pad Configuration (3)   | 7.50 Square Feet  |                         |
| Over 17.5" x 25.5" Pad                 | 3.90 Square Feet  | ID # 1055-17/AT-06-1000 |
| Over 35" x 25.5" Pad Configuration (3) | 11.70 Square Feet |                         |

### 5" Cell Block

| Pad Configuration             | Concrete Block | Soil Bearing Value | Maximum Load |
|-------------------------------|----------------|--------------------|--------------|
| 16" x 18.5" Pad Configuration | Single Block   | 1000 lbs./sq. ft.  | 4000 lbs.    |
|                               | Double Stack   | 2000 lbs./sq. ft.  | 8000 lbs.    |
| 34" x 22" Pad Configuration   | Single Block   | 1000 lbs./sq. ft.  | 2500 lbs.    |
|                               | Double Stack   | 2000 lbs./sq. ft.  | 5000 lbs.    |
| 35" x 25.5" Pad Configuration | Single Block   | 1000 lbs./sq. ft.  | 1000 lbs.    |
|                               | Double Stack   | 2000 lbs./sq. ft.  | 2000 lbs.    |

Concrete blocks are only rated at 8000 pounds. 8001 pounds and higher must be double stacked.

### PAD ASSEMBLY



**STEP 1 - 17" x 22" ABS Pad**    **STEP 2 - (2) 17" x 22" ABS PADS**    **STEP 3 - Complete Assembly**  
**(34" x 22" Configuration)**    **34" x 22" Multi-pad Configuration**

### NOTES:

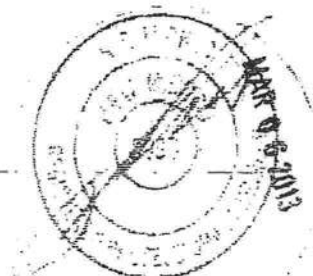
- General instructions (on reverse) apply to all multi-pad configurations.
- The 32" x 18.5" pad configuration is formed by using (3) 16" x 18.5" ABS Pads. Place (2) 16" x 18.5" side by side and place (1) 16" x 18.5" on top, laid in the opposite direction to the bottom pads.
- The 34" x 22" pad configuration is formed by using (3) 17" x 22" ABS Pads. Place (2) 17" x 22" pads side by side and (1) 17" x 22" pad on top. The top pad is laid in the opposite direction as the bottom pads.
- The 35" x 25.5" pad configuration is formed by using (3) 17.5" x 25.5" ABS Pads. Place (2) 17.5" x 25.5" pads side by side and (1) 17.5" x 25.5" pad on top. The top pad is laid in the opposite direction to the bottom pads.

### STATE SPECIFIC NOTES:

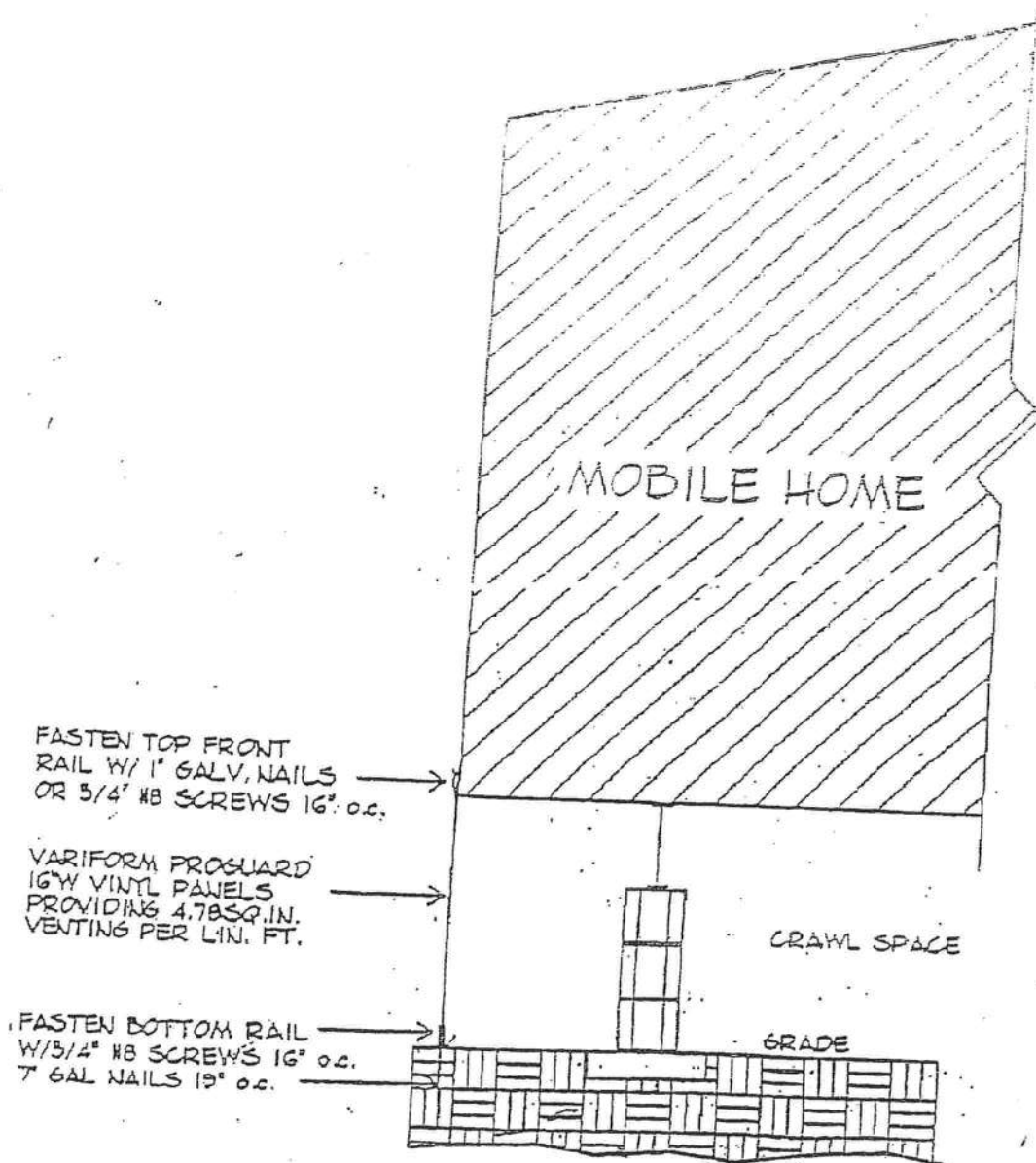
**TEXAS:** 17.5" x 22.5" ID #1055-21 and 23 25" x 31 25" ID #1055-20 may not be installed in the State of Texas.

**CALIFORNIA:** Use an assumed value of 1000 lb/sq. ft. unless engineering and calculations are provided.

**ALABAMA:** For the State of Alabama all ABS pads shall not have more than 3/8" deflection. See chart on page one for details on correct installation in Alabama. The 17.5" x 25.5" ID #1055-20 may not be installed in the State of Alabama.



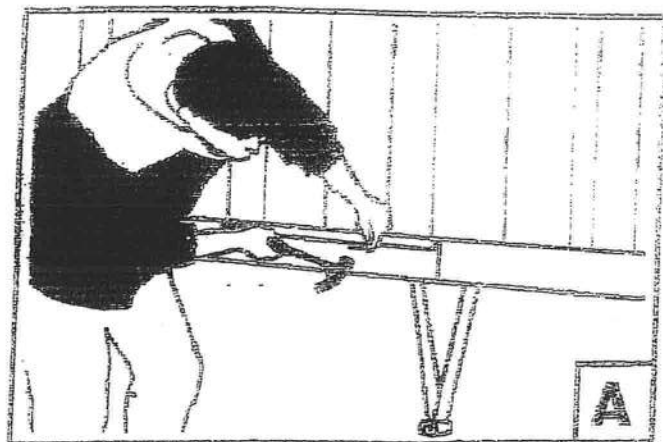
ENGINEER APPROVAL



NOTE  
 AN ACCESS PANEL 18"X24" MIN WILL  
 BE PROVIDED TO ACCESS CRAWL SPACE.  
 THE ACCESS PANEL WILL BE FASTENED  
 W/ 1" LONG PHILLIPS HEAD SCREWS.  
 ANY HOME WHICH IS MORE THAN 36"  
 ADV FINISH GRADE WILL HAVE VERTICAL  
 48" o.c.  
 WIND STAYS

TYPICAL SECTION

1/2" = 1'-0"



## STEP A: ATTACH BACK RAIL

1. Determine a place for mounting. Place bottom edge of back rail just below bottom edge of the home. This location must offer solid support for attaching and wind load pressure for panels and rails.
2. Keep the back rail straight and level. Snap a chalk line around the home to guide the top edge of the back rail.
3. Correct screwing or nailing method for back rail: Start on the back side of the home. Position screws or nails in the center of the slot. Screw/nail to allow for a clearance of 1/16" from the back rail surface. Note: avoid tightly screwing or nailing back rail. A 1/16" clearance allows for normal expansion and contraction with temperature change. Place a screw or nail in every other slot.
4. Provide a 1/2" gap between each back rail section for normal thermal expansion.

To install around corner, refer to Step E.

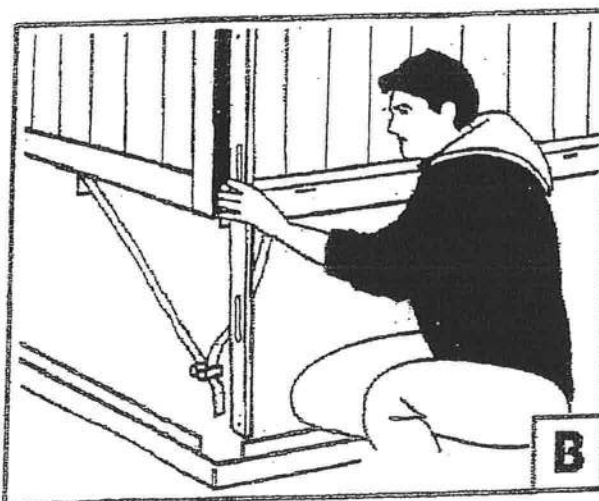
## PASO A: INSTALE EL RIEL DE APOYO

1. Determine un lugar para el montaje. Coloque el borde inferior del riel de apoyo justo abajo del borde inferior de la casa. Esta ubicación debe ofrecer un apoyo firme que permita clavar los rieles y soportar la presión por cargas de viento en los paneles.
2. Mantenga derecho el riel de soporte y a nivel. Marque una línea con el cordel entizado alrededor de la casa para guiar el borde superior del riel de apoyo.
3. Método correcto para clavar el riel de apoyo: Comience en la parte posterior de la casa. Coloque los clavos en el centro de la ranura para clavos. Introduzca los clavos y deje una holgura de 1/16" desde la superficie del riel de apoyo. Nota: No clave muy ajustadamente el riel de apoyo. Una holgura de 1/16" con la cabeza del clavo permitirá el espacio suficiente para absorber la expansión y contracción normales resultantes de los cambios de temperatura. Coloque los clavos en ranuras alternas.
4. Deje un espacio de 1/2" entre cada sección de riel de apoyo para tener en cuenta la expansión térmica normal.

Para instalar el producto alrededor de las esquinas, consulte el paso E.

## STEP B: MOUNT BOTTOM RAIL

1. Ground preparation: Prepare the ground so that it is smooth. Free of loose clumps, clods or protruding obstacles. Guard against uneven settling of newly excavated ground by mounting the bottom rail on treated (2"x2") lumber.
  2. Mark the ground location directly below the outside bottom edge of the home. Use a level or plumb bob to determine this location at each corner.
  3. Snap a chalk line or stretch a nylon string between each corner to guide the bottom rail.
  4. Position the bottom rail with the back leg toward the inside of the chalk line perimeter.
  5. Drive ground spikes every 19 inches. Two sets of holes are provided in the bottom rail. They are located inside the channel, and on the back leg. Ground spikes may be driven in either hole at intervals of 19 inches.
  6. Installation on concrete. Use a 3/4" masonry nail. You may also drill a hole for a 3/16" molly screw and plastic sleeve. (Nail and screw materials are available at most hardware stores.)
- To install around corner, refer to Step E.



## PASO B: MONTAJE DEL RIEL INFERIOR

1. Preparación del piso de tierra. Prepare el piso de manera que esté uniforme, sin tocas sueltas, terrones ni obstáculos que sobresalgan del piso. Proteja la instalación contra el asentamiento no uniforme en pisos recién excavados, montando el riel inferior en una pieza de madera tratada (2" x 2").
2. Marque la ubicación en el piso directamente abajo del borde inferior externo de la casa. Use un nivel o una plomada para determinar esta ubicación en cada esquina.
3. Marque una línea con el cordel entizado o coloque una cuerda de náilon entre cada esquina para guiar el riel de apoyo.
4. Coloque el riel de apoyo con la parte de respaldo hacia el interior del perímetro marcado por la línea de guía.
5. Introduzca los clavos gruesos en el piso a cada 19 pulgadas. En el

## Vinyl skirting installation guide

*Vinyl skirting is a ready-made, easy to install system just follow these few step-by-step instructions.*

### TOOLS YOU WILL NEED

Installation of your skirting system requires tools you are likely to already own. You will need a hammer, plumb bob, measuring tape, tin snips, chalk line and snap lock tool. See your skirting dealer or distributor to obtain any tools needed. If an accessory Trim Pak is not purchased, you will need 100 7" gutter-type spikes and 250 1 1/4" coated roofing-type nails or screws.

### HELPFUL TIPS

1. For optimal performance, Variform does not recommend the installation of vinyl skirting panels exceeding 48" in height.
2. To maintain beauty, simply clean with soap and water.
3. Do not paint your skirting. This is not necessary and it will void your warranty.
4. To keep grass and vegetation growth away from the skirting, place six to eight inches of metal roof flashing on the ground around the perimeter and center the bottom rail down the middle.
5. Do not allow line trimmers to contact your skirting, as this will result in damage.

## Guía de instalación de cenefas de vinilo

*Las cenefas o faldones de vinilo constituyen un sistema prefabricado fácil de instalar. Simplemente siga estas instrucciones paso a paso.*

### HERRAMIENTAS NECESARIAS

La instalación de su sistema de cenefas de vinilo requiere herramientas que usted probablemente ya tiene. Se necesita un martillo, una plomada, una cinta métrica, unas tijeras de hojalatero, un cordel entizado y una punzonadora de mano (Snap Lock). Consulte al distribuidor o representante de ventas de cenefas de vinilo en su localidad para obtener cualesquiera de las herramientas necesarias. Si no se compra un conjunto de accesorios Trim Pak, será necesario obtener 100 clavos de 7" tipo canalón y 250 clavos de 1 1/4" recubiertos, del tipo usado para la instalación de techados.

### CONSEJOS ÚTILES

1. Variform no recomienda que la instalación de paneles de skirting exceda la altura de 48".
2. Para mantener la belleza del producto, simplemente lávelo con agua y jabón.
3. No pinte la cenefa. Ya que no es necesario y además anular su garantía.
4. A fin de evitar el crecimiento de césped y vegetación cerca de la cenefa, coloque un tapajuntas metálico para techados, de seis a ocho pulgadas de anchura, en el piso alrededor del perímetro y coloque el riel inferior en el centro del tapajuntas.
5. No permita que las podadoras de bordes hagan contacto con la cenefa, ya que esto causará daños al producto.



riel inferior se proporcionan dos conjuntos de agujeros. Estos se encuentran dentro del canal, en la parte de soporte. Los clavos gruesos para el piso se pueden clavar a través de cualquiera de los agujeros a una distancia de 16 pulgadas entre sí.

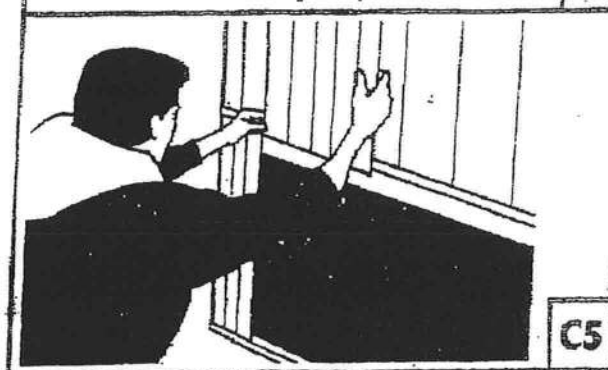
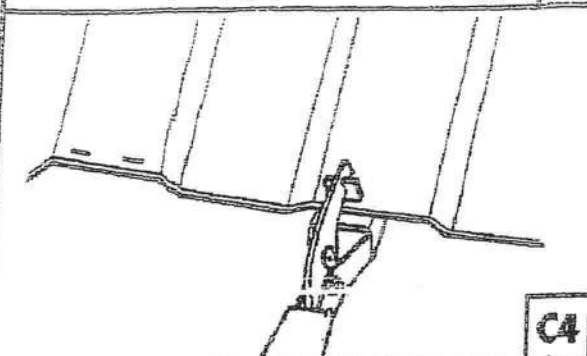
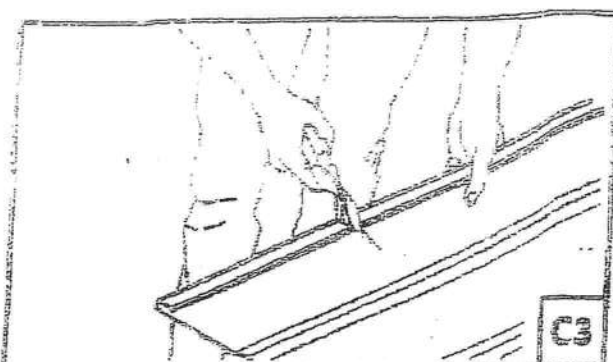
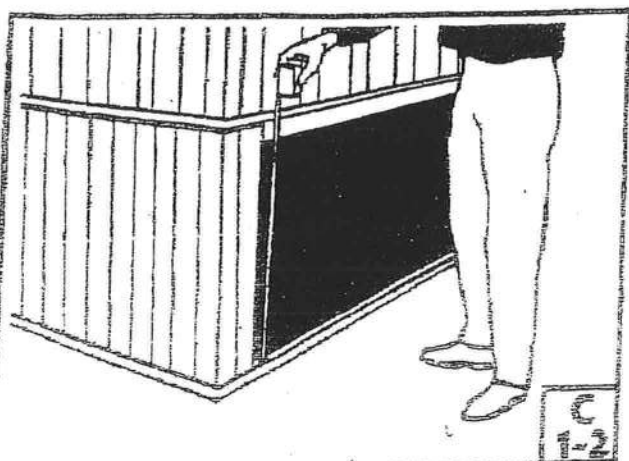
6. Instalación en pisos de concreto. Use un clavo de 3/4" para mampostería. Así mismo se puede taladrar un agujero para un tornillo de 3/16" tipo Molly con ancha plástica. Los materiales de clavos y los tornillos están disponibles en la mayoría de las ferreterías.

Para instalar el producto alrededor de las esquinas, consulte el paso E.

## STEP C: PANEL INSTALLATION

1. Beginning 24" away from the lowest corner of the home, measure from the ground up to 1-1/2" above the bottom edge of the back rail. (If the temperature is below 40°F, with frozen ground, measure to 3" above the back rail edge.)
2. Measurements on sloping ground should be taken every 16" (width of panel).
3. Cut the bottom of each panel to angle with the ground. Each cut panel section should align 90° to the bottom edge of the home. Use aviation snips or a power saw (with a fine toothed saw blade turned backwards) for cutting.
4. Punch lock tabs every 4" along the top and bottom edge of cut panel sections (or outside portion of each panel face for 13" VariBest). A Malco (SL-3) Snap Lock Punch tool is recommended. Consult your skirting supplier for obtaining this tool. Tabs are to be positioned outward to catch on the hooked edge of the rails.
5. Interlock panels and insert into the bottom rail. Begin with the first panel inserted into the bottom rail. Lock tabs should snap past the hooked edge of the bottom rail. Insert next panel section into the interlock hooks along the vertical edge of the panels. Seat each panel securely into the bottom rail. Repeat interlocking panels, forming about a 12-foot section. Resume panel cut and interlock method.

To install around corner, refer to Step E.

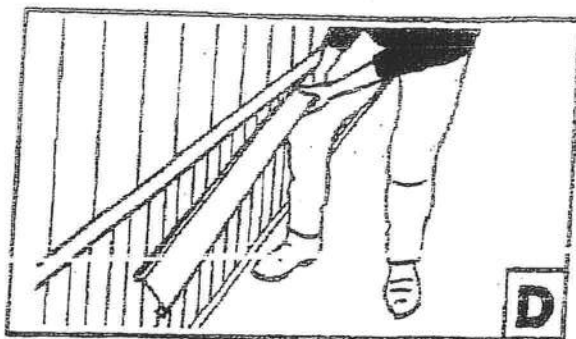


## PASO C: INSTALACIÓN DE LOS PANELES

1. Comenzando a 24" de la esquina inferior más baja de la casa, mida desde la superficie del piso hasta 1 1/2" arriba del borde inferior del riel de apoyo. (Si la temperatura ambiente durante la instalación es inferior a los 40°F y el piso está congelado, mida hasta 3" arriba del borde del riel de apoyo).
2. Las mediciones en pisos con desnivel deben hacerse a cada 16" (ancho del panel).
3. Corte la parte inferior de cada panel en ángulo según el desnivel del piso. Cada sección de panel cortado debe estar a escuadra (90°) con el borde inferior de la casa. Use tijeras de hojalatero o una sierra eléctrica (con una hoja de corte de diente fino colocada al revés) para cortar los paneles.
4. Perfore las lengüetas de cierre cada 4" a lo largo del borde superior e inferior de las secciones de paneles cortados. Se recomienda el uso de una punzonadora de mano Malco (SL-3) Snap Lock Punch. Consulte con su proveedor de cenefas sobre cómo obtener esta herramienta. Las lengüetas deben colocarse hacia afuera a fin de poder enganchar el borde de gancho de los rieles.

5. Enganche los paneles a los dueros en el riel inferior. Comience con el primer panel introducido en el riel superior. Las lengüetas de cierre deben engancharse hasta más allá del borde con gancho del riel de apoyo. Introduzca la siguiente sección de panel en los ganchos de enclavamiento a lo largo del borde vertical de los paneles. Asiente cada panel firmemente en el riel inferior. Repita el enclavamiento de los paneles hasta formar una sección de aproximadamente 13 pies. Reanude el corte de los paneles y el método de enclavamiento.

Para instalar el producto en las esquinas, consulte el paso E.



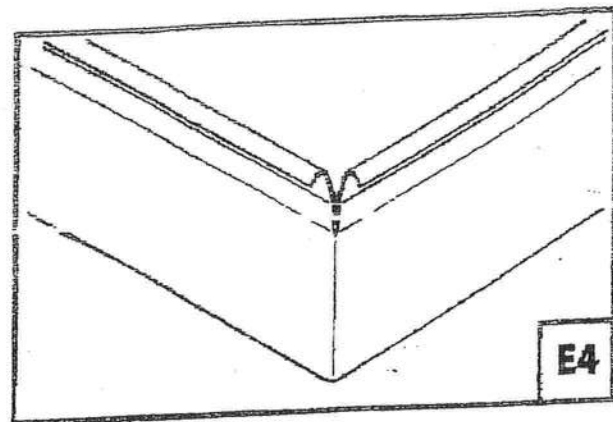
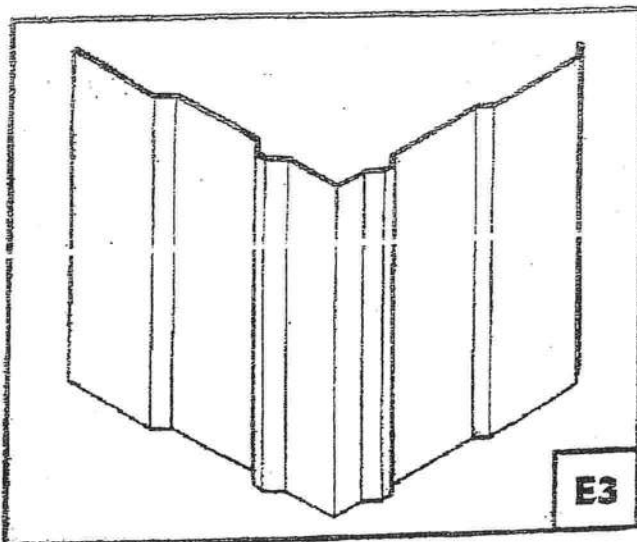
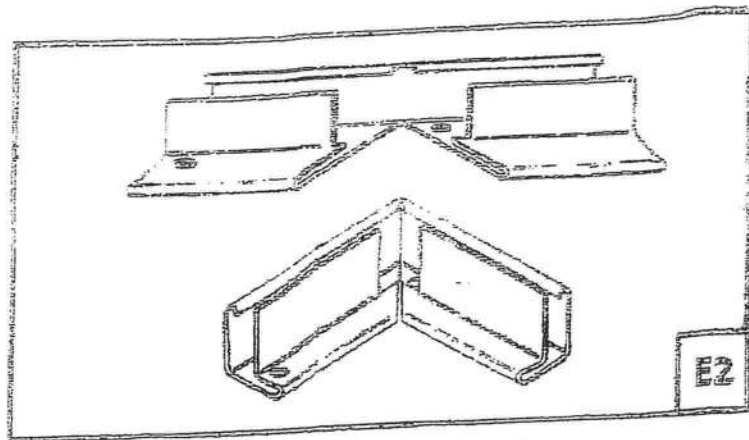
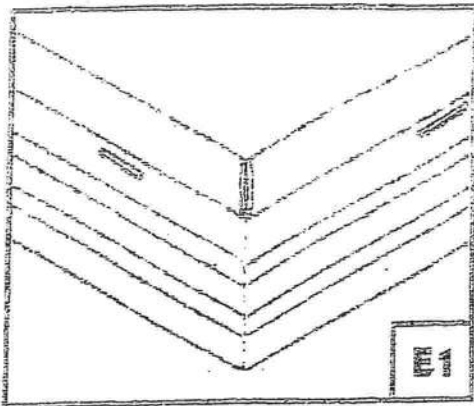
### **STEP D: INTERLOCK FRONT RAIL WITH BACK RAIL**

1. Start snapping one end of the front top rail into the back top rail, creating the interlock. Push the front top rail upward, its entire length until the front top rail is completely interlocked with the back rail.
  2. Overlap 1" each top rail section.
- To install around corner, refer to Step E.

### **PASO D: ENCLAVAMIENTO DEL RIEL FRONTAL CON EL RIEL DE APOYO**

1. Comience enganchando un extremo del riel frontal superior en el riel superior de apoyo, para formar el mecanismo de enclavamiento. Empuje el riel superior de apoyo hacia arriba en toda su longitud hasta que el riel frontal superior esté completamente enganchado en el riel de apoyo.
2. Traslapa 1" cada sección del riel superior.

Para instalar el producto en las esquinas, consulte el paso E.



2600 Grand Blvd. • Suite 900 • Kansas City, MO 64108  
1-800-800-2244 • (816) 426-8200  
FAX (816)-426-8555

## **STEP E: CORNER INSTALLATION**

1. Top back rail - Make a 1" vertical slit from the top. Top interlock hook should be completely cut through. Notch 45° on bottom curved leg.
2. Bottom rail - Notch the back portion with snips, as illustrated. Bend around a corner and attach to the ground.
3. Panels - Cut panel to proper height. Determine point of corner bend; bend over a table edge, forming a uniform angle.
4. Top front rail - Notch at both the top and bottom hooks of the front rail, as illustrated. Bend around the corner and fit into the interlock with the top back rail. Refer to Step D.

**FOUR PRE-NOTCHED TOP FRONT  
RAILS ARE INCLUDED IN TRIM PAK.**

## **PASO E: INSTALACIÓN DEL PRODUCTO EN LAS ESQUINAS**

1. Riel superior de apoyo - Haga un corte vertical de 1" desde la parte superior. El gancho superior de enclavamiento debe cortarse completamente. Haga una muesca a 45° en la pata curvada inferior.
2. Riel inferior - Corte la porción posterior con tijeras de hojalatero según se muestra en la ilustración. Dóblelo alrededor de una esquina y clávelo al piso.
3. Paneles - Corte el panel a la altura apropiada. Determine el punto de doblez: doble el panel sobre el borde de una mesa, para formar un ángulo recto.
4. Riel frontal superior - Corte los ganchos superior e inferior del riel frontal, según se ilustra en la figura. Doble la pieza alrededor de la esquina y engánchela en el enclavamiento con el riel superior de apoyo.

Consulte el paso D.

**EN EL CONJUNTO TRIM PAK SE  
INCLUYEN CUATRO RIELES  
SUPERIORES FRONTALES YA  
CORTADOS.**



# VERTICAL VINYL SKIRTING

NAME: \_\_\_\_\_

SIZE: \_\_\_\_\_

HEIGHT: \_\_\_\_\_

THERE WILL BE TWO PANELS ON THE JOB SITE SECURE WITH PHILLIPS HEAD  
SCREWS DURING THE ACCESS PANELS

THE MANUFACTURER INTEGRATES VENTING IN EACH PANEL (EQUIVALENT TO 165  
SQUARE INCHES PER LINEAR FOOT OF PANEL.)

TOP RAIL BACKER IS SECURED TO THE HOME WITH 1 1/4" HEX HEAD SCREWS EVERY 16"

TOP RAIL FRONTAL COVER IS SECURED TO THE TOP RAIL BACKER USING AN INTEGRATED SNAP LOCK

VINYL PANELS ARE SECURED BY THE BOTTOM TRACK GROOVE & THE TOP FRONTAL COVER IF PANEL EXCEEDS  
36" IN EXPOSED HEIGHT, MANUFACTURER RECOMMENDS FRAMING PLACED BEHIND, BUT DOES NOT REQUIRE IT

INTEGRATED VENTING PROVIDED BY THE MANUFACTURER

BOTTOM RAIL SITS ON THE GROUND SECURED WITH 6" SPIKES

**2010 Florida Building Code  
Residential section R311 and R312**

# STAIR DETAIL

R311.7.2 Headroom

R311.7.4.1 Riser Height

R311.7.4.2 Tread Depth

R311.7.7 Handrails

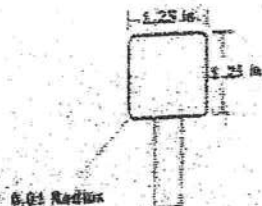
R311.7.7.2 Continuity

R311.7.7.3 Handrail grip size

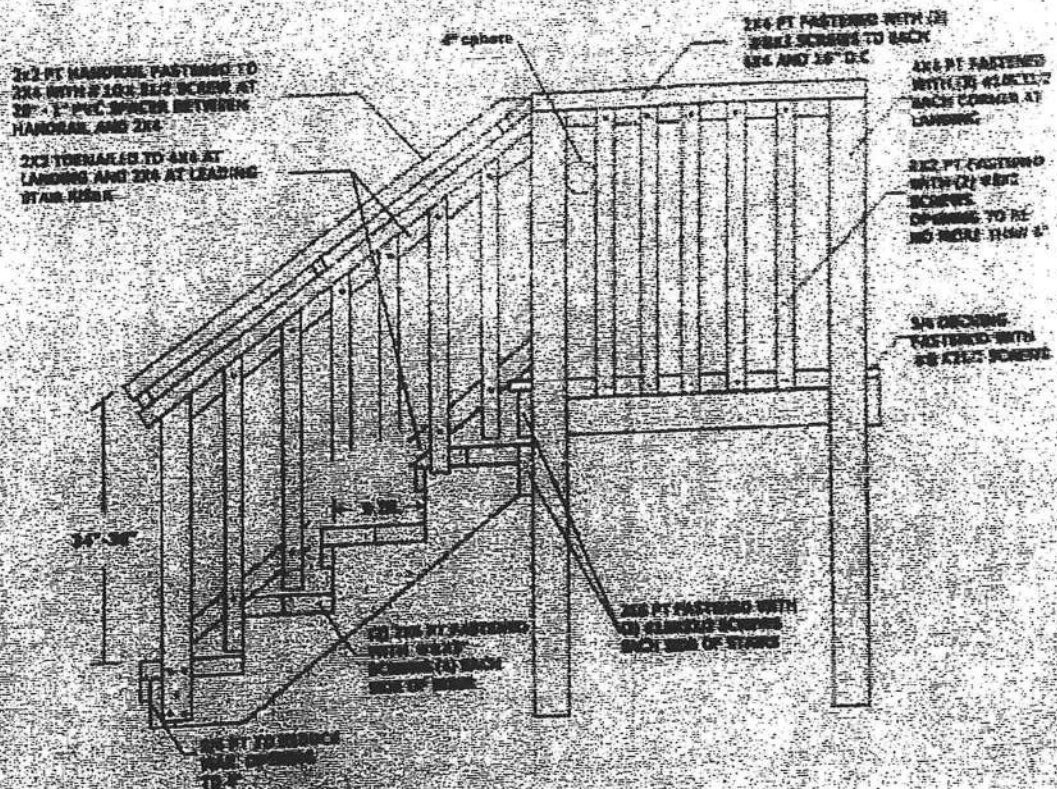
R312.1 Guards Required

R312.3 Guard opening limitations

Noncircular Handrail



Handrail that is not circular must have a perimeter of 4 in. Min. and 6.25 in. Max. with a cross section dimension of 2.25 inches.



STEP HAS A LANDING MEASUREMENT OF 48" X 48"  
RISER HEIGHT IS 7 3/4" max.