

Mobile Home Permit Worksheet

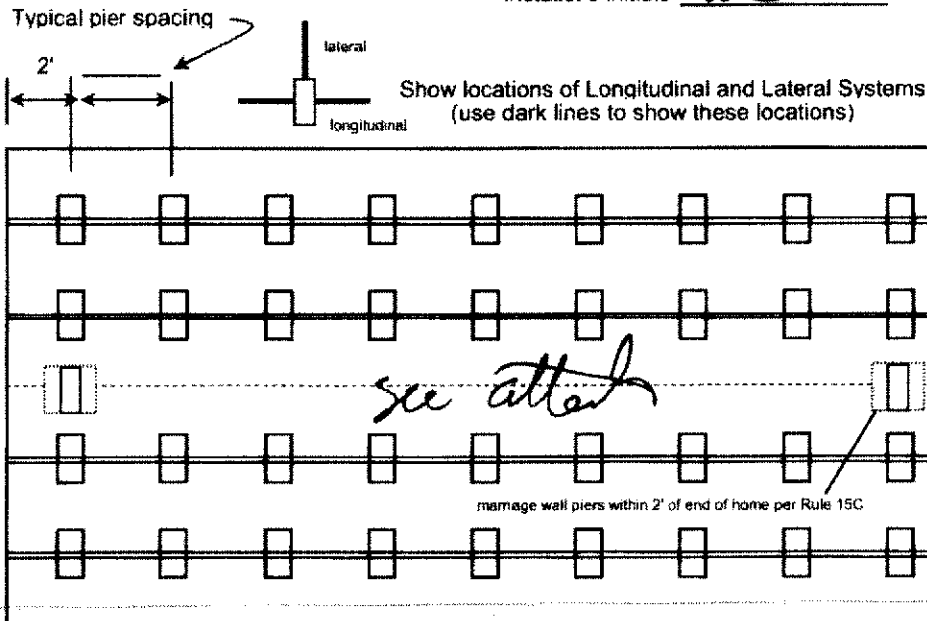
Installer: Wendell Coons License # IAH1025316

Address of home being installed _____

Manufacturer Live Oak Length x width 52 x 32

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 WC



Application 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 # TBD

Triple/Quad ☐ Serial # TBD

PIER SPACING TABLE FOR USED HOMES

| Load bearing capacity | Footer size (sq in) | 16" x 16" (256) | 18 1/2" x 18 1/2" (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' | 9' | 10' |
| 2000 psf | | 6' | 8' | 9' | 10' | 11' | 12' |
| 2500 psf | | 7' 6" | 9' | 10' | 11' | 12' | 13' |
| 3000 psf | | 8' | 10' | 11' | 12' | 13' | 14' |
| 3500 psf | | 8' | 10' | 11' | 12' | 13' | 14' |

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

PIER PAD SIZES

I-beam pier pad size 17x25

Perimeter pier pad size N/A

Other pier pad sizes (required by the mfg.) 16x16 Boon's

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.

POPULAR PAD SIZES

| Pad Size | Sq In |
|-------------------|-------|
| 16 x 16 | 256 |
| 16 x 18 | 288 |
| 18.5 x 18.5 | 342 |
| 16 x 22.5 | 360 |
| 17 x 22 | 374 |
| 13 1/4 x 26 1/4 | 348 |
| 20 x 20 | 400 |
| 17 3/16 x 25 3/16 | 441 |
| 17 1/2 x 25 1/2 | 446 |
| 24 x 24 | 576 |
| 26 x 26 | 676 |

ANCHORS

Opening Pier pad size

4 ft ☒ 5 ft

FRAME TIES

within 2' of end of home spaced at 5' 4" oc

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)
Manufacturer _____
Longitudinal Stabilizing Device w/ Lateral Arms
Manufacturer Oliver 1101V

OTHER TIES

Number
Sidewall 54
Longitudinal Oliver
Marriage wall Oliver
Shearwall Oliver

Mobile Home Permit Worksheet

Application Number: _____ Date: _____

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 N/A inch pounds or check here if you are declaring 5' anchors without testing. 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 holding capacity.

Installer's initials WC

ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name

Wendell Crews

Date Tested

10-13-20

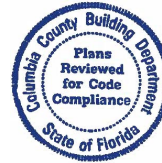
Electrical

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. 37

Plumbing

Connect all sewer drains to an existing sewer tap or septic tank. Pg. 39

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. 37



Site Preparation

Debris and organic material removed ☒ Pad ☒ Other ☐
Water drainage: Natural Swale

Fastening multi wide units

Floor: Type Fastener: lag Length: 3x5" Spacing: 16" O.C.
Walls: Type Fastener: staples Length: 2x4" Spacing: 16" O.C.
Roof: Type Fastener: metal Length: 2" Spacing: 2x O.C.
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 of all new and used homes and that condensation, mold, mildew and buckled 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 WC

Type gasket Foam
Pg. 13

Installed:
Between Floors Yes ☒
Between Walls Yes ☒
Bottom of ridgebeam Yes ☒

Weatherproofing

The bottomboard will be repaired and/or taped. Yes ☒ Pg. 13
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 ☒
Electrical crossovers protected. Yes ☒
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

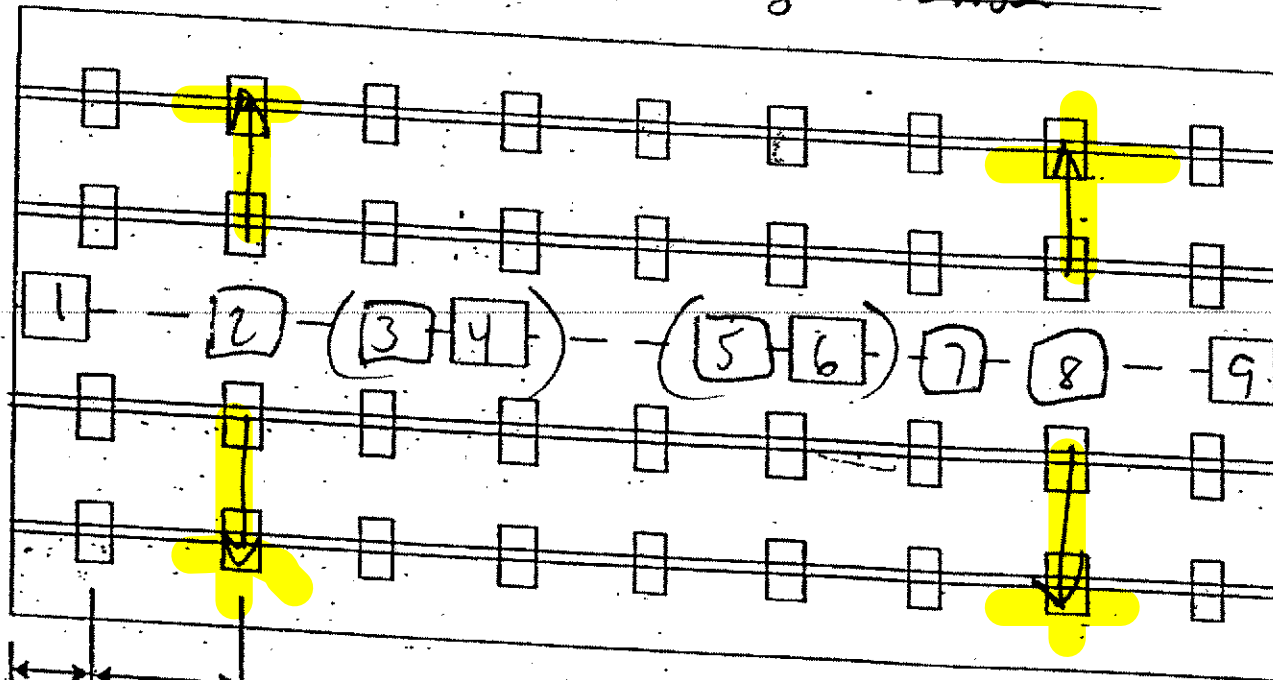
Installer Signature

Wendell Crews

Date 10-13-20

BLOCKING PLAN

Manufacturer Live Oak
Width x length 32 x 52



MARRIAGE WALL
piers & location vary per floor plan

2' spaces at
6' oc
Typical

Pier Spacing based on
for 150 PSF Soil.

Manual

Soil Bearing Capacity 15,000

Probe test / anchor length N/A

I-beam Pier Pad size 17x25

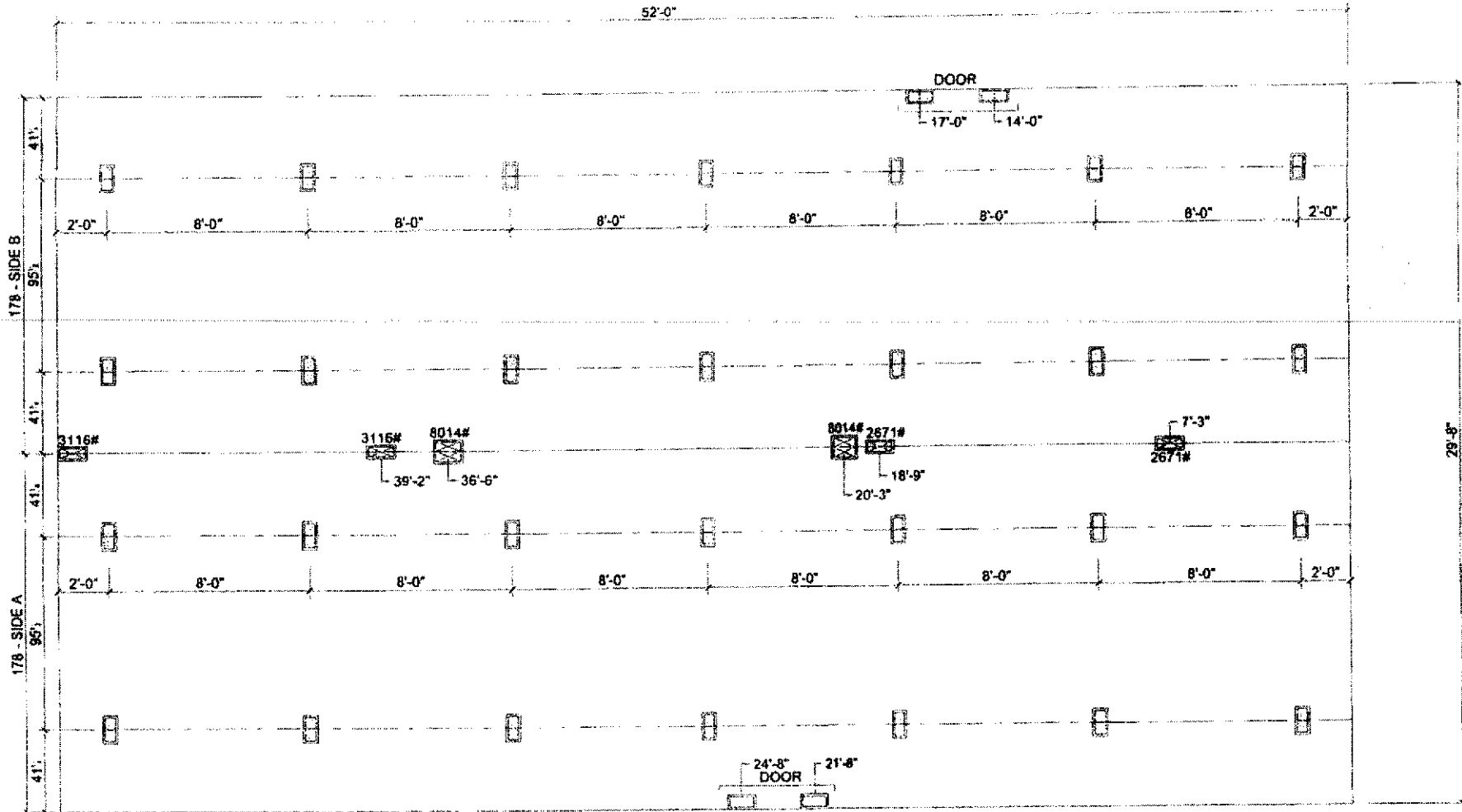
Marriage Wall Pier Pad Sizes

- 1 17x25 5 24x24
- 2 17x25 6 17x25
- 3 24x24 7 16x16
- 4 17x25 8 16x16

Perimeter Pier Pad Sizes

16x16
Doors





- MARRIAGE LINE OPENING SUPPORT PIER/TYP.
 SUPPORT PIER/TYP

07/08/19

FOUNDATION NOTES:

- THIS DRAWING IS DESIGNED FOR THE STANDARD WIND ZONE AND IS TO BE USED IN CONJUNCTION WITH THE INSTALLATION MANUAL AND ITS SUPPLEMENTS.
- FOOTINGS ARE SHOWN FOR EXAMPLE ONLY QUANTITY AND SPACING MAY VARY BASED ON PAD TYPE, SOIL CONDITION, ETC.
- FOOTINGS ARE REQUIRED AT SUPPORT POSTS, SEE INSTALLATION MANUAL FOR REQUIREMENTS.

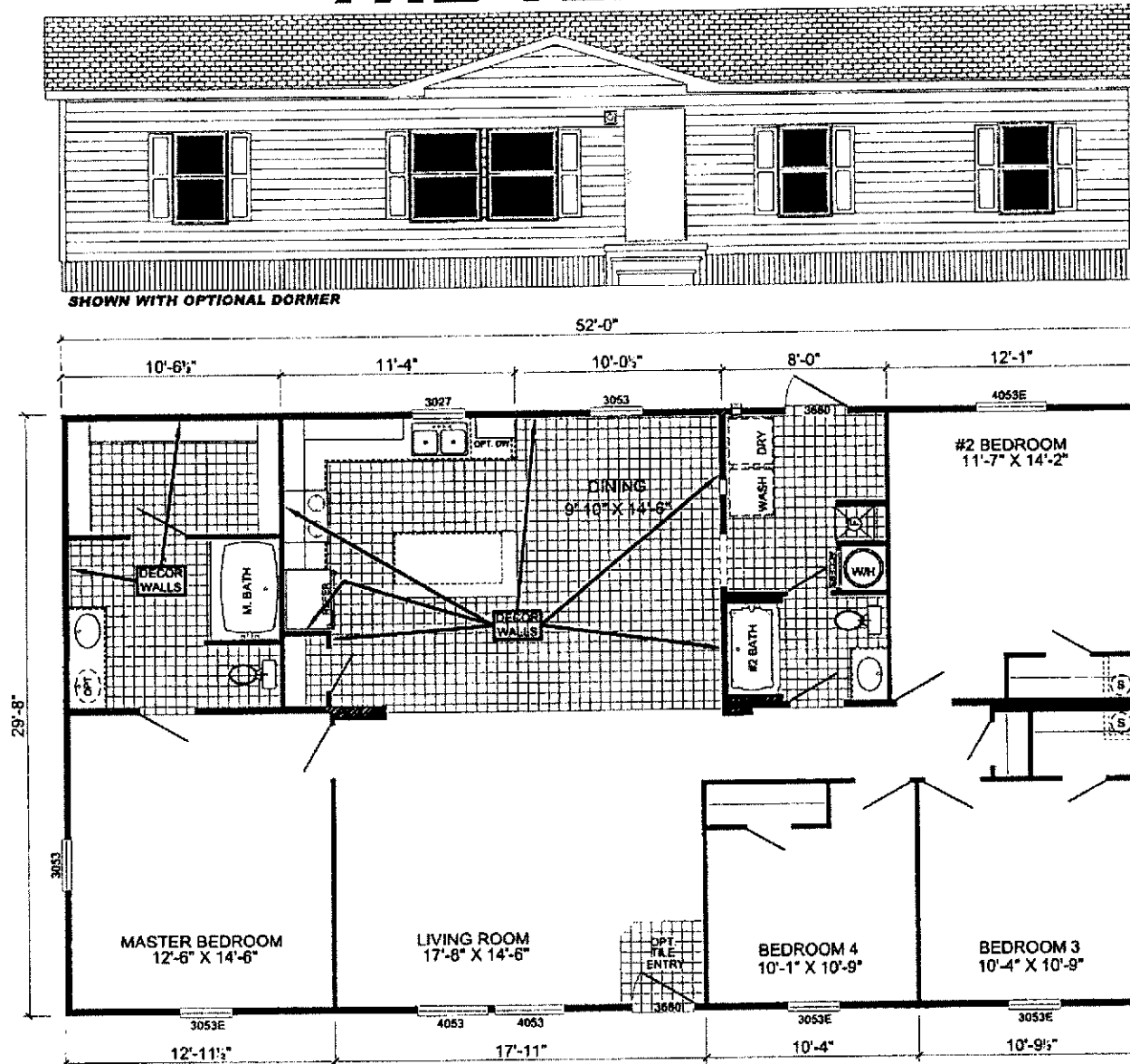


Live Oak Homes
MODEL: V-3524G - 32 X 52
4-BEDROOM / 2-BATH

V-3524G

406054
thickor

THE Telford



V-3524G

4-BEDROOM / 2-BATH

32 X 52 - Approx. 1525 Sq. Ft.

Date: 06/09/20

* All room dimensions include closets and square footage figures are approximate.
* Transom windows are available on optional 9'-0" sidewall houses only.





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

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

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 with or below soil.

SPECIAL NOTE: The longitudinal "V" brace system serves 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.

INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM

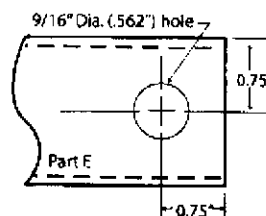
NOTE: WHEN INSTALLING THE LONGITUDINAL SYSTEM ONLY, A MINIMUM OF 2 SYSTEMS PER FLOOR SECTION IS REQUIRED. SOIL TEST PROBE SHOULD BE USED TO DETERMINE CORRECT TYPE OF ANCHOR PER SOIL CLASSIFICATION. IF PROBE TEST READINGS ARE BETWEEN 175 & 275 A 5 FOOT ANCHOR MUST BE USED. IF PROBE TEST READINGS ARE BETWEEN 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 (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" |

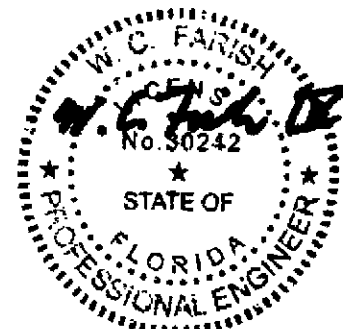
Diagram A



| PIER HEIGHT (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 {18" tube}) 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.)

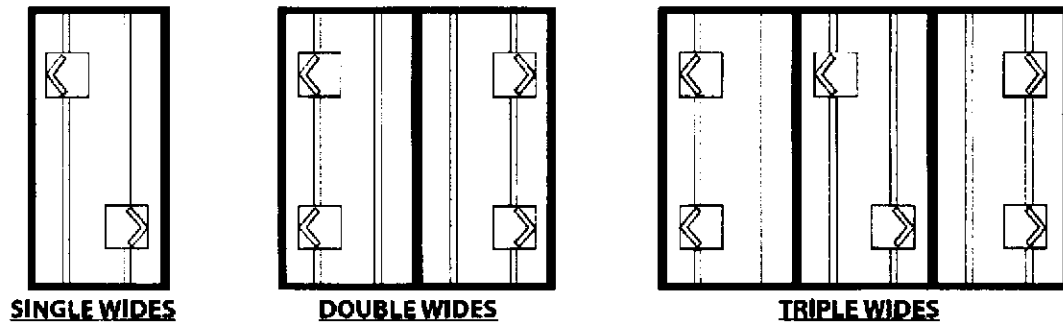


REQUIRED NUMBER AND LOCATION OF MODEL 1101 L "V" BRACES FOR UP TO 4/12 ROOF PITCH

Notes:

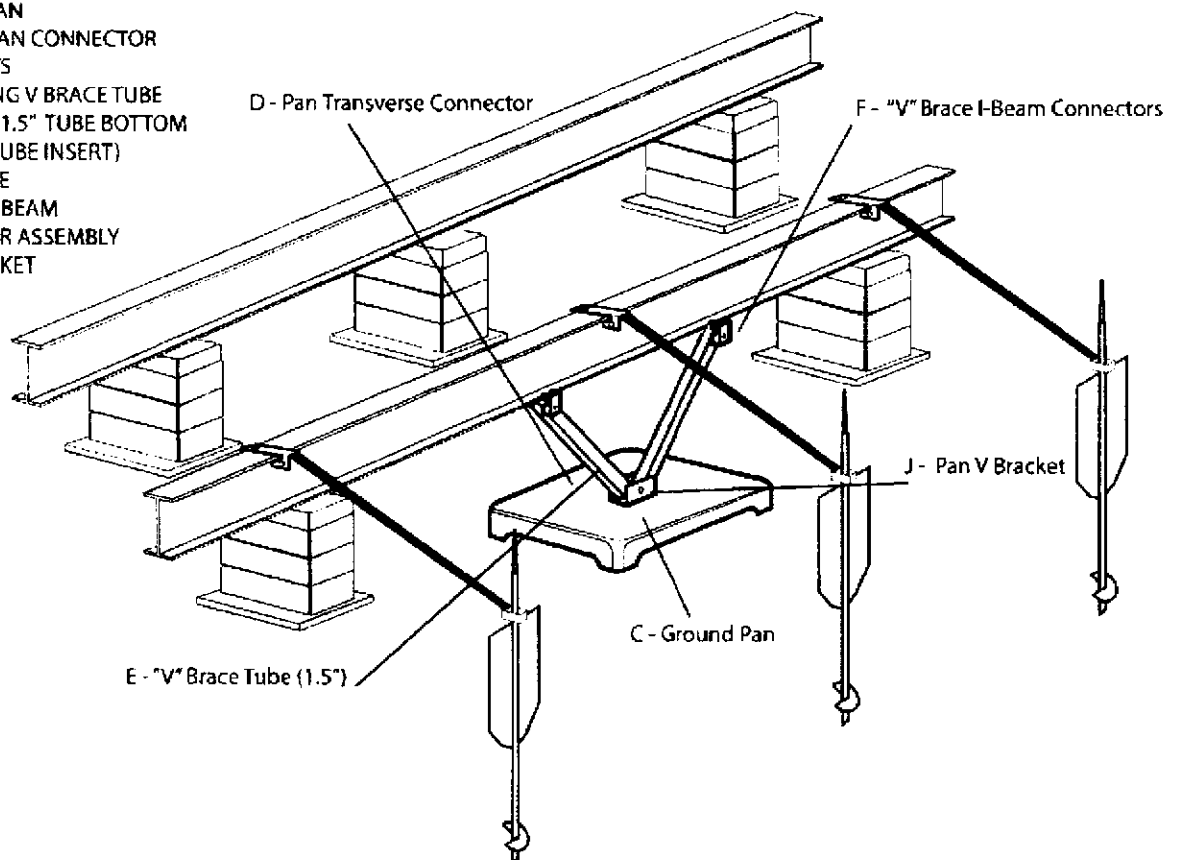
1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE
2.  = LOCATION OF LONGITUDINAL BRACING ONLY

ALL WIDTHS AND LENGTHS UP TO 80'



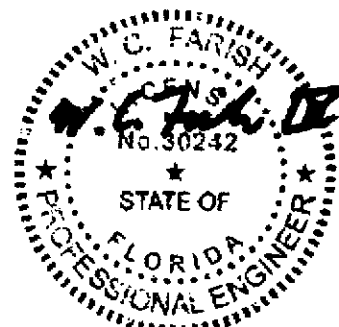
**THIS SYSTEM ELIMINATES THE NEED FOR ALL LONGITUDINAL
ANCHORS, STRAPS AND STABILIZER PLATES**

- C = GROUND PAN
D = GROUND PAN CONNECTOR
U BRACKETS
E = TELESOPING V BRACE TUBE
ASSEMBLY (1.5" TUBE BOTTOM
AND 1.25" TUBE INSERT)
OR 1.5" TUBE
F = "V" BRACE I-BEAM
CONNECTOR ASSEMBLY
J = V PAN BRACKET





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



**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.

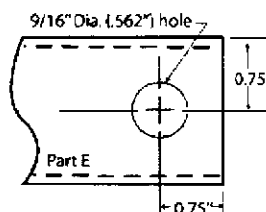
INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101 L "V")

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 (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 (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.



INSTALLATION USING CONCRETE RUNNER/FOOTER

15. A concrete runner, footer or slab may be used in place of the steel ground pan.
 - a) The concrete shall be minimum 2500 psi mix
 - b) 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).
 - c) Footers must have minimum surface area of 441 sq. in. (i.e. 21" square), and must be a minimum of 8" deep.
 - d) 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.

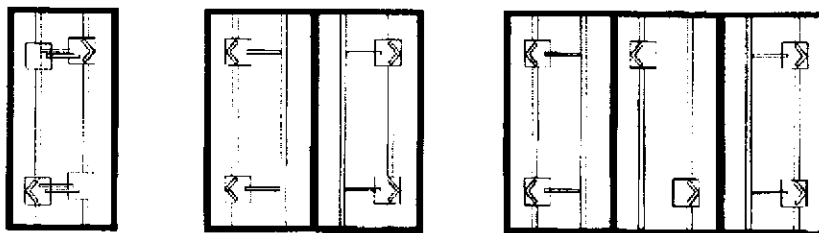
LATERAL: (Model 1101 TC "V")

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.

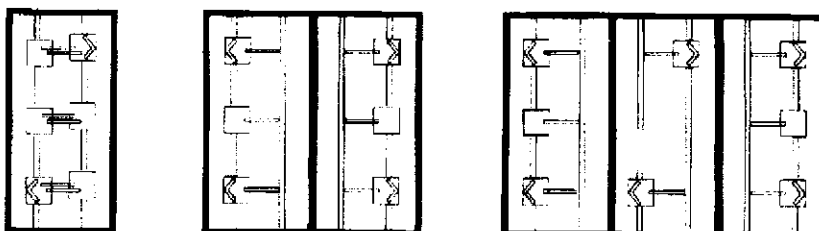
Notes:

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'

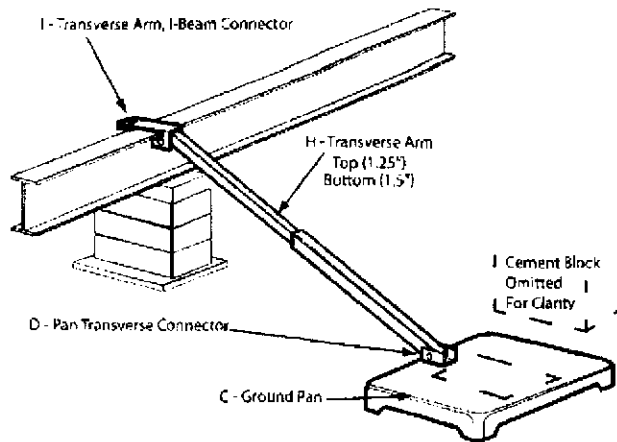


ALL WIDTHS AND LENGTHS OVER 52' TO 80'

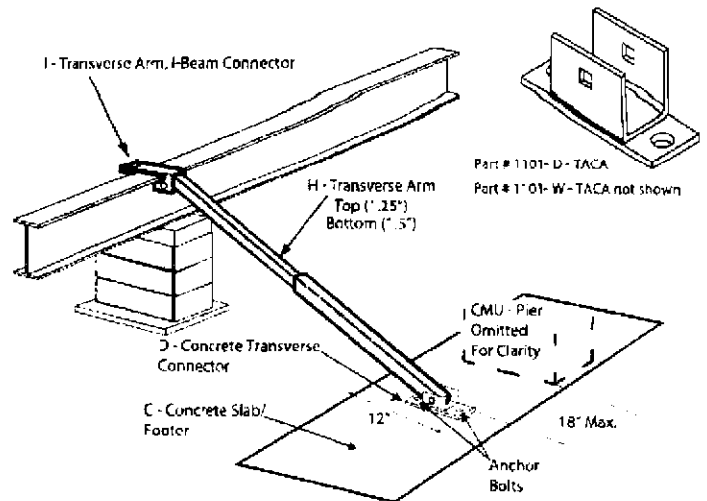


HOMES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS
6 systems for home lengths up to 52' and 8 systems for homes over 52' and up 80'.

PATENT# 6634150 & 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)

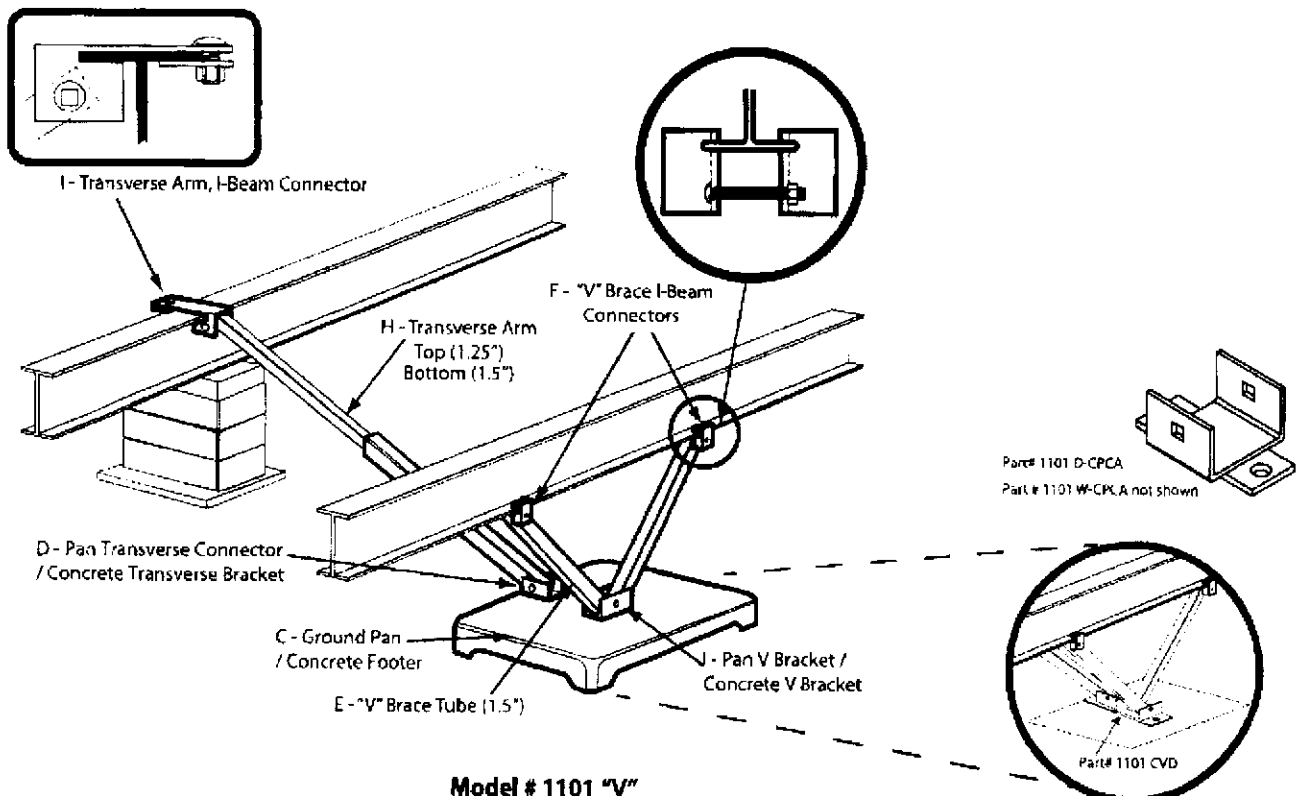
E = TELESOPING V BRACE TUBE ASSEMBLY (1.5" TUBE BOTTOM AND 1.25" TUBE INSERT) OR 1.5" TUBE

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"

Model # 1101 C "V"

VERTICAL VINYL SKIRTING

THE MANUFACTURER'S INSTRUCTIONS & DESIGNERS DO NOT ALLOW FOR PLACING SCREWS IN THE TOP & BOTTOM OF EACH PANEL. THIS WILL VOID WARRANTY.

THERE WILL BE TWO PANELS ON THE JOB SITE SECURE WITH PHILLIPS HEAD SCREWS DEEMING THEM ACCESS PANELS.

THE MANUFACTURER INTEGRATES VENTING IN EACH PANEL (EQUIVALENT TO 155 SQUARE INCHES PER LINEAR FOOT OF PANEL).

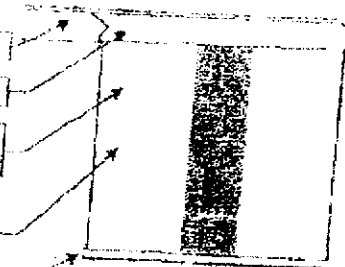
TOP RAIL BACKER IS SECURED TO THE FRAME WITH 1 1/4" HEX HEAD SCREWS EVERY 16"

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

VINYL PANELS ARE SECURE 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.

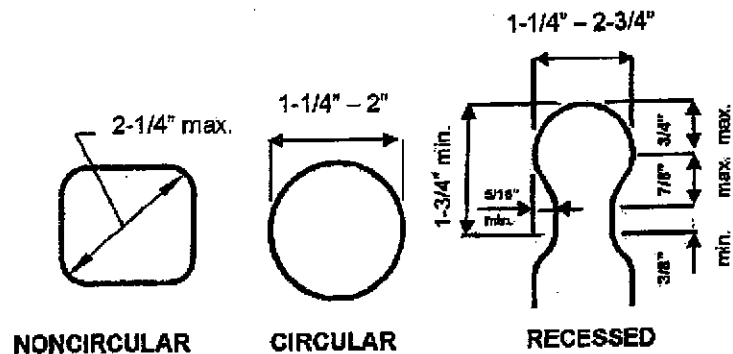
INTEGRATED VENTING PROVIDED BY THE MANUFACTURER

BOTTOM RAIL SITS ON THE GROUND SECURED WITH 6" SPIKES



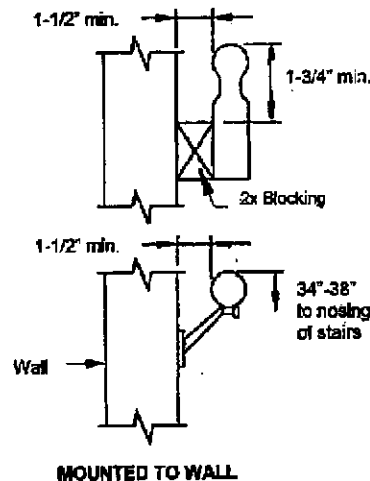
All stairs with 4 or more risers shall have a handrail on at least one side. The handrail height measured vertically from the sloped plane adjoining the nosing shall not be less than 34 inches or more than 38 inches. Handrails shall run continuously from a point directly over the lowest riser to a point directly over the highest riser and shall return to the guard at each end. Handrails may be interrupted by guard posts at a turn in the stair [R311.7.8.2].

Handrails shall be graspable and shall be composed of decay-resistant and corrosion-resistant material. Handrail shall be Type I, Type II, or provide equivalent graspability.

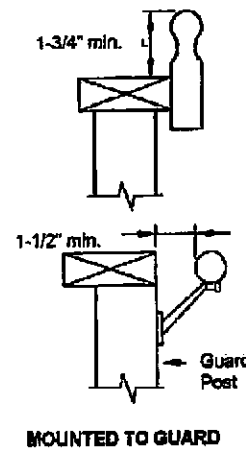


Type I (perimeter dimensions 4"-6 1/4")

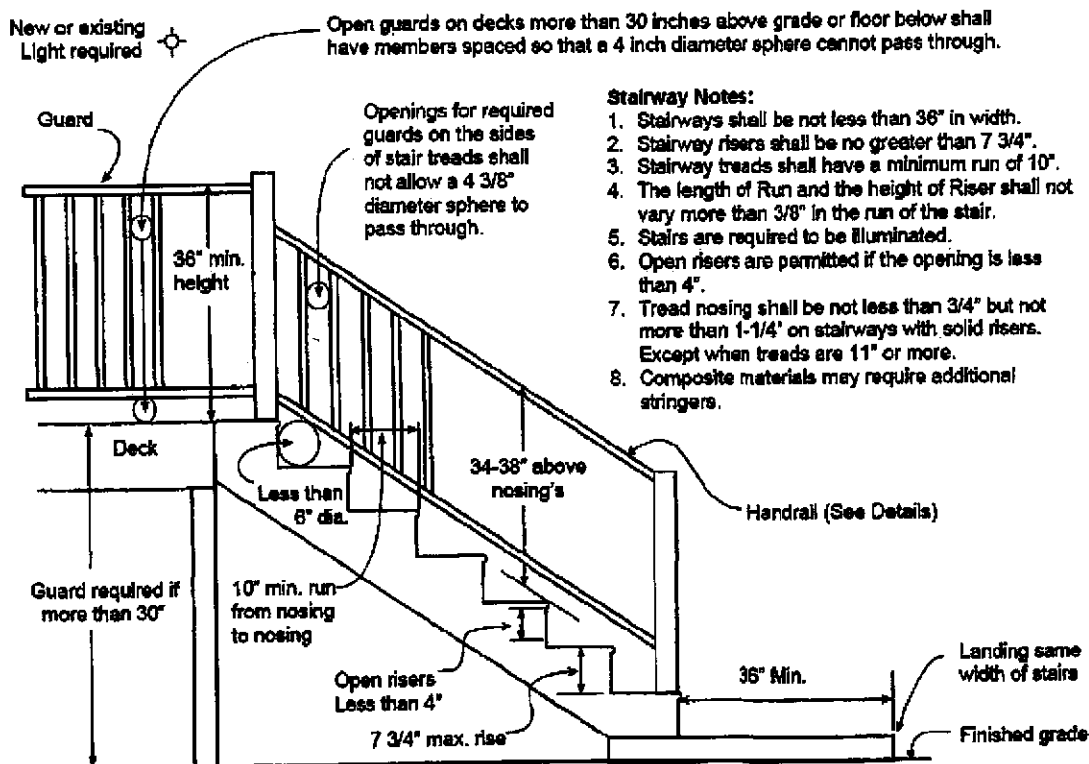
Type II (perimeter dimensions < 6 1/4")



MOUNTED TO WALL



MOUNTED TO GUARD



Stairway Notes:

1. Stairways shall be not less than 36" in width.
2. Stairway risers shall be no greater than 7 3/4".
3. Stairway treads shall have a minimum run of 10".
4. The length of Run and the height of Riser shall not vary more than 3/8" in the run of the stair.
5. Stairs are required to be illuminated.
6. Open risers are permitted if the opening is less than 4".
7. Tread nosing shall be not less than 3/4" but not more than 1-1/4" on stairways with solid risers. Except when treads are 11" or more.
8. Composite materials may require additional stringers.