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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





**ENGINEERS STAMP** 

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

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-heam. Press or drive pan firmly into soil until flush or below soil then install pier per manufactures', instructions or per Florida Regs.

\$PECAL 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.

\*\*RISTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101 L"V")

MOTE WHEN INSTALLING THE LONG THOMAS STEEM ONLY A MINIMAN OF 2 SYSTEMS FIRE PROCESS ECTION IS REQUIRED. SOIL TEST PROCESSHOULD BE USED TO DETERMINE CORRECT TYPE OF ANCHOR PER SOIL CLASSIFICATION OF PROCESS IS RADAMSS ARE RETWEEN TS 8,275 A FOOT ANCHOR MUST BE USED. IF PROCESS IS ANCHOR SHE RETWEEN 276 B 329 A FOOT ANCHOR MAY BE USED. USE CROUDED ANCHOR SHET IS AND ASSESSION OF THE PROCESS AND ASSESSION OF THE STATE OF THE STATE

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(40° Min 45° Max.)	Tube Length	Tube Length	9/16" Dia. (562") hole-y	(40° Min 60° Max.)	Tube Length
7 3/4" to 25"	22"	18"	//TI	14° to 18"	20"
24 3/4° to 32 1 /4°	32"	18"	0.75	18" to 25"	28°
33" to 41"	44"	18"		24" to 35"	39°
40° to 48°	54*	18"	Part E	30° to 40°	44*
gram A			-0.75*4	36" to 48"	54"
			1 000 1 6		

5 Install (2) of the 1.50° square tubes (B) into the "U" bracket (J), insert carriage boilt and leave nut loose for final adjustment.
6. Place I beam connector (F) loosely on the bottom flange of the I-beam.
7 (For Deagram in mistallation) Side the selected 1.25° tube (E) into a 1.50° tube (B) and attach to I-beam connectors (F) and fasten loosely with boil and nut. (For Diagram B installation) Attach the selected 1.5° tubes (B) to the I-beam connectors (F) and fasten loosely with boilts 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 tightner 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")

INSTALLATION OF LATERAL TELESCOPING TRANSVERSE ARM SYSTEM (Model 1101 T 1"V")

THE MODEL 1101 "V" (LONGITUDINAL & LATERAL PROTECTION) ELIMINATES THE NEED FOR STAILLEER 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 SPECIFES 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 1.30" tube as the bottom tube, and the 1.25" tube as the inserted tube.)

12. Install the 1.30" transverse brace (H) to the ground pan connector (D) with boil and nut.

13. Slide 1.25" transverse brace into the 1.30" brace and attach to adjacent 1-beam connector (1) with boil and nut.

14. Secure 1.50" transverse arm to 1.25" transverse arm using four (1) 1".4" - 14 x 3.4" el-licapping screws in pre-drilled holes.

PATENTA 6634150.8 OTHER PATENT PENDING

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### INSTALLATION USING CONCRETE RUNNER/ FOOTER

- 15. A concrete numer, footer or slab may be used in place of the steel ground pan.

  a) The concrete shall be minimum 2500 psi mils
  b) A concrete numer 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 both and the edge of the concrete lose below).
  c) Footers must have minimum surface area of 414 sig mit, let 21" squaret, 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 both to the edge of the concrete.

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

  LORGITUPINAL: (Model 1101 LC ")"

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

When using Parts 1101-W-CPCA (wessell simply install the bracket in nunner/footer OR When installing in cured concrete use Part # 101-D-CPCA (drysel). The 1101 (drysel) CA bracket is attached to the concrete using (2) 5/8\*3/3 concrete wedge bolts (Simpson part # 5162300H 5/8\* X; 3' or Powers equivalent). Place the CA bracket in desired location. Mark both hole locations, then using a 5/8" diameter masonry bit, diffi 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 sel) CA bracket onto wedge bolts and start wedge bolt muts. Take a hammer and lightly drive the wedge bolts down by hitting the rust (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")

12. For wet set (part # 1101-W-TACA) installation simply install the anchro bot into runner/looter. For dry set installation (part # 1101-D-TACA) mark bolt hole locations, then using a \$6''' diam, masonry bit, drill a hole to a minimum depth of 3'. Make sure all dust and concrete is below mu of the hole. Place wedge both is Gimpon part # 516200H 58'''. X' 3' or Powers equivalent in into Dir concrete dry transverse connector and into drilled hole. If needed, take a hammer and lightly drive the wedge boths down by hitting the nut (making sure not to hit the top of threads on hold), then remove the nut. The sleeves of concrete wedge both needs to be at or below the top of concrete. When using part \$1 101 CVD (wetsel) or 1101 CVD (dryset), shall per steps 17 6' 18.

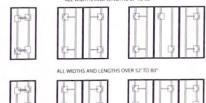
- Notes:

  1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE

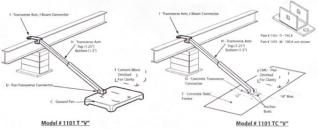
  2. □─=LOCATION OF TRANSVERSE BRACING ONLY

  3 👸 = LOCATION OF LONGITUDINAL BRACING ONLY

  4. ፫─= TRANSVERSE AND LONGITUDINAL LOCATIONS



HOMES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS PATENTA 6634150 & OTHER PATENT PENDING



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.

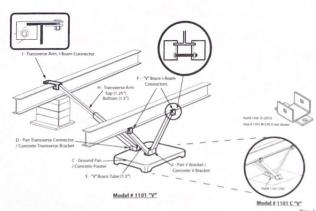
C = GROUND PAN / CONCRETE FOOTER OR RUNNER

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

E = TELESCOPING 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 = TELESCOPING 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)



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