

Example for Mobile Homes - Safebuilt

Building Structure (3 pgs)

Site plans (2pgs)

Installation Instructions (2pgs)

Engineer Seals (1pg)

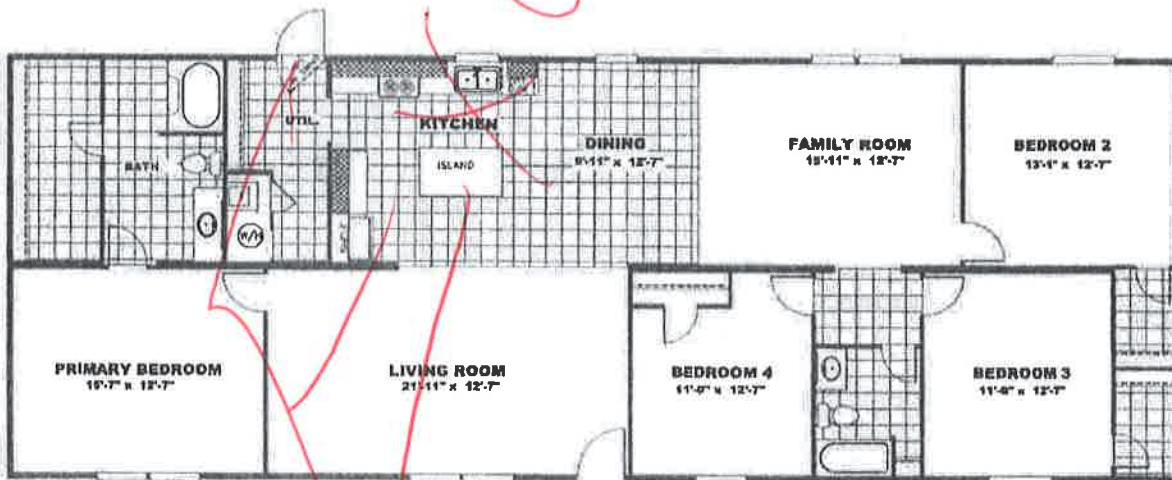
Data Plates (2pgs)

TRU

WONDER

TRU28724R

1,896 sq ft // 4 beds // 2 baths

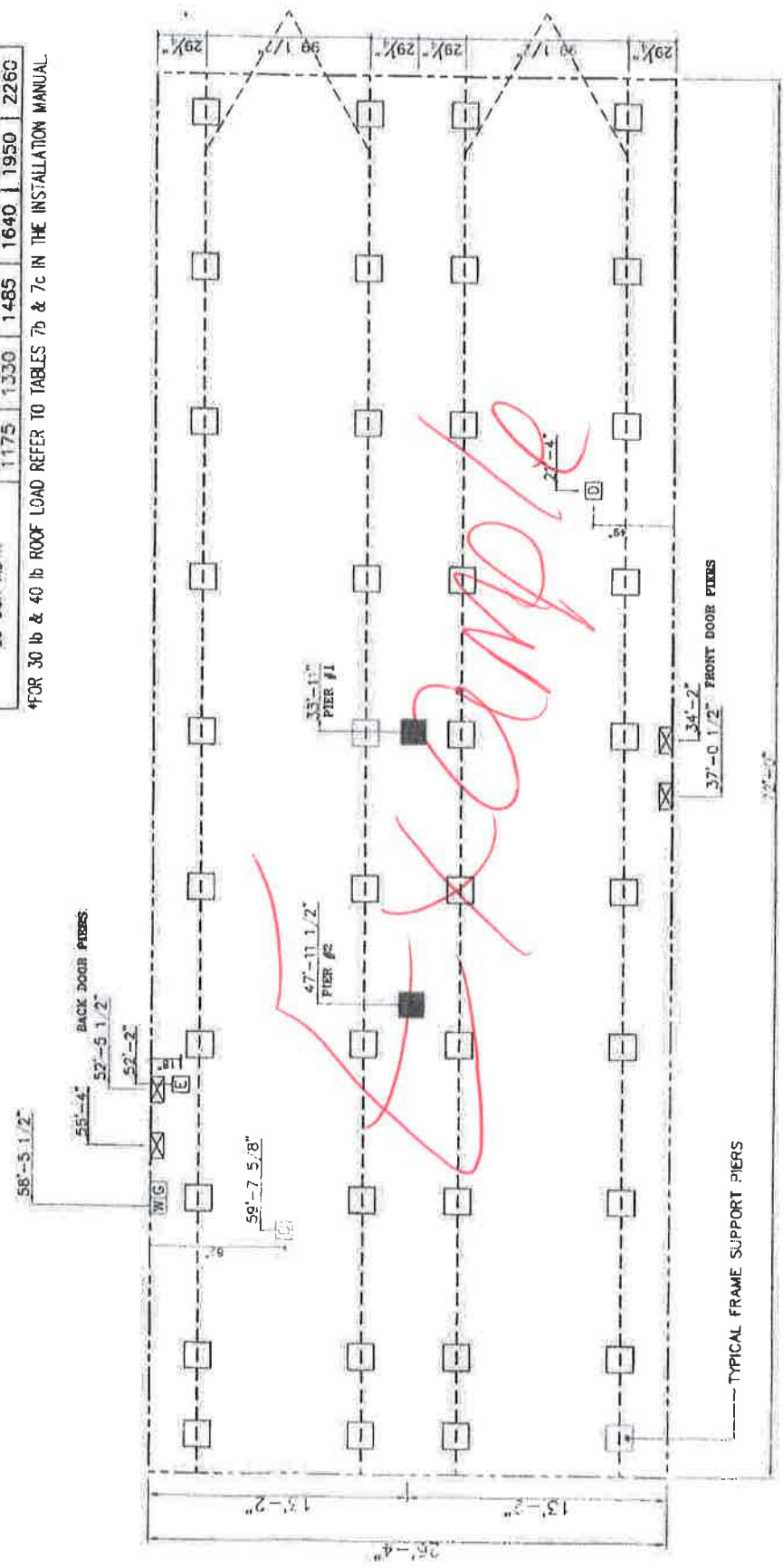


The home series and floor plans shown all have starting prices within the price range indicated. Your local Home Center can quote you specific prices and terms of purchase for specific homes. TRU invests in continuous product and process improvement. All home series, floor plans, specifications, dimensions, features, materials, availability, and starting prices shown are artist's renderings or estimates and are subject to change without notice or obligation. Dimensions are nominal and length and width measurements are from exterior wall to exterior wall. Starting prices include the home only, plus typical delivery and installation. Starting prices do not include other costs such as taxes, title fees, insurance premiums, filing or recording fees, land or improvements to the land, optional home features, optional delivery or installation services, wheels and axles, community or homeowner association fees, or any other items not shown on your Retailer Closing Agreement and related documents (your RCA). Your RCA will show the details of your purchase. 2020 TRU. All rights reserved.

1 of 3
Building Structures

20 lb ROOF LOAD		SIDEWALL OPENING (FT)				
SIDEWALL OPENING PIER LOAD		REQUIRED PIER LOAD (LBS)				
28' BOX WIDTH		3	4	5	6	8
		1175	1330	1485	1640	1950
		2260				

FOR 30 lb & 40 lb ROOF LOAD REFER TO TABLES 7b & 7c IN THE INSTALLATION MANUAL



- GENERAL NOTES:
- PIER LOADS SHOWN ARE TO BE USED TO SIZE THE FOOTINGS BELOW THE MARRIAGEWALL FOR COLUMN SUPPORT PIERS. REFER TO TABLES 6b AND 6c IN THE INSTALLATION MANUAL FOR LOAD ON FRAME PIER FOOTINGS FOR HOMES THAT DO NOT REQUIRE PERIMETER BLOCKING. REFER TO TABLES 7b AND 7c IN THE INSTALLATION MANUAL FOR LOAD ON FRAME PIER FOOTINGS THAT REQUIRE PERIMETER BLOCKING. REFER TO TABLES 10 AND 10a TO DETERMINE FOOTING SIZE FOR ALL PIERS.
 - REFER TO TABLE 9 FOR PIER CONFIGURATION AND MAXIMUM ALLOWABLE HEIGHTS. CROSS REFERENCE THE PIER HEIGHT WITH THE MAXIMUM ALLOWABLE FLOOR HEIGHT LISTED IN THE FRAME TIEDOWN CHARTS (TABLE 18, 19, AND 20).
 - FLOOR WIDTH SHOWN IS FOR STANDARD PRODUCT ONLY. CONTACT THE MFG PLANT FOR SPECIFICATIONS OF OPTIONS ORDERED.
 - SERVICE DROP LOCATIONS IDENTIFIED ARE APPROXIMATE.
 - THE MAXIMUM SPACING FOR FRAME SUPPORT PIERS FOR 8" I-BEAMS IS 8 FEET, 10" & 12" I-BEAMS ARE 10 FEET.

PIER LEGEND	
<input type="checkbox"/>	SUPPORT UNDER MATING OPENING
<input checked="" type="checkbox"/>	SUPPORT UNDER MATING COLUMN
<input checked="" type="checkbox"/>	SUPPORT UNDER MATING WALL
<input checked="" type="checkbox"/>	PIER PORCH/RECESSED ENTRY
<input type="checkbox"/>	PIER MAIN BEAM
<input checked="" type="checkbox"/>	PIER PERIMETER
SEE DETAIL D-E IN FOUND. PLAN	

SERVICE DROP LEGEND	
<input type="checkbox"/>	ELECTRICAL DROP
<input type="checkbox"/>	WATER INLET
<input type="checkbox"/>	DRAIN PLUMBING DROP
<input type="checkbox"/>	GAS INLET

Front Door Load		Back Door Load	
Distance from Wall (ft)	Load (lbs)	Distance from Wall (ft)	Load (lbs)
1	35	11	3173
2	47	11.5	3173

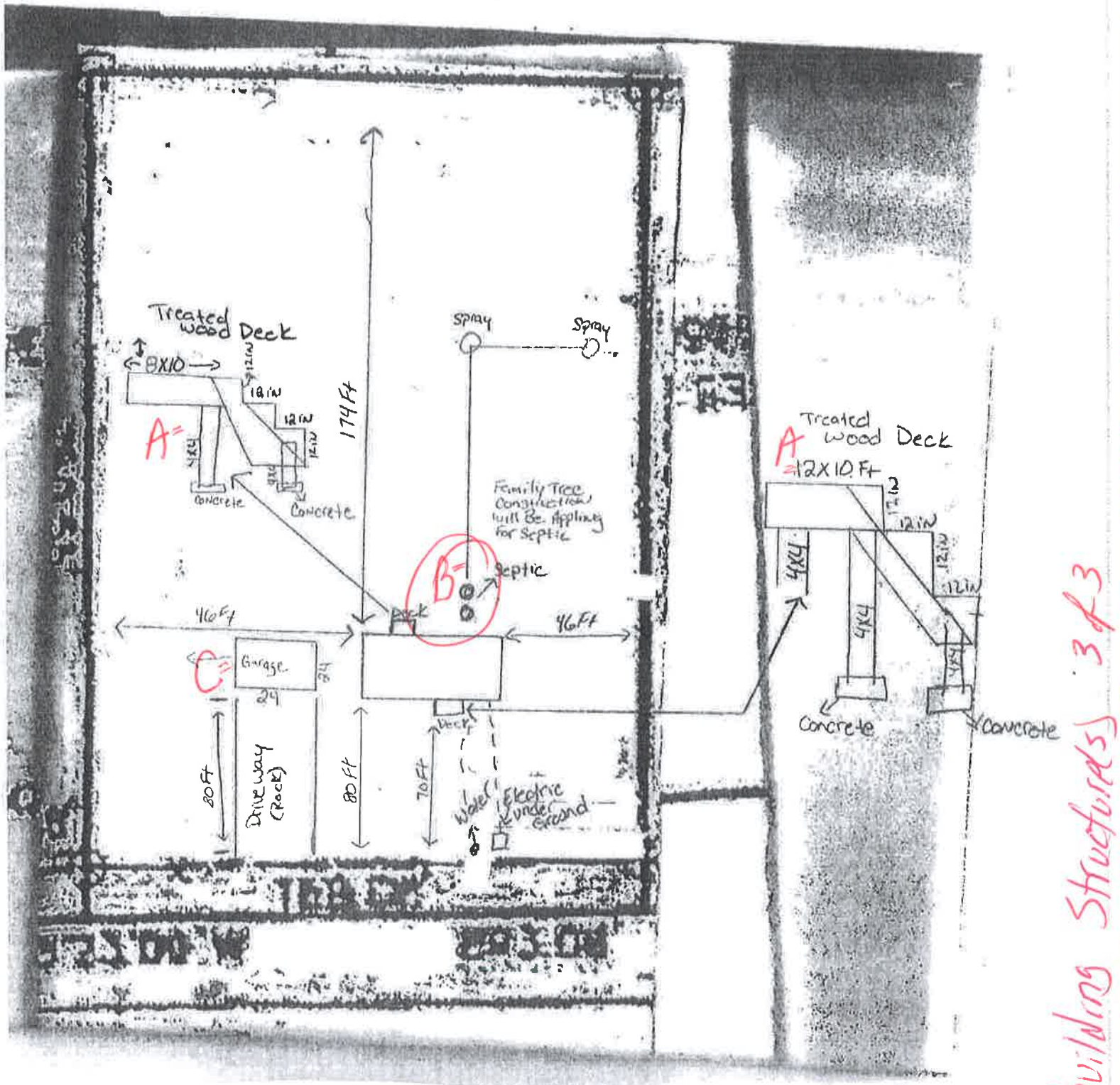
1,896 SQ.FT. (STD PLAN "CONDITIONED")
N/A SQ.FT. (W/OPT. PORCH/RECESS "CONDITIONED")

Model # TRU00724R
Drawing # TRU0007-72-4
Product Designer: Hammond
28' x 72' Wander

PIER LOADS

Building Structures 2 of 3

Example



- A = front + back deck/porch if included
- B = septic system if included
- C = garage/carport will be a separate permit

BACK OF LAND

separate structures
need separate
permits

180' - 190'

Approx
40'

DISTANCE
?

15'-18'
APPX

30' x 30'
Shop?

Double
Wide
28' x 68'

APPX 150'

60' culvert
(Center of property)

Water
Meter

Approx 75'

Approx 75'

CR 2529

CR 2529

Example

Electrical Buried Underroad

Site Plan 2 of 2

Example



Technologies Inc. Installation Instructions For 1100 Series All Steel Foundation Systems (ASFS)

Ground Set For Wind Zones I & II

SPECIAL CIRCUMSTANCES: If the following conditions occur - STOP! Contact Oliver Technologies at 1-800-284-7437 for further instructions: A) Pier (system) height exceeds 48" B) Roof eaves exceed 16" C) Location is within 1500 ft. of coastline. D) Soil conditions are less than 48

The 1100 Series ASFS offers 3 packages:

- 1) 1102 ITV (1 arm - Lateral), 2) 1102 IV (3 arms - Lateral & Longitudinal- Replaces Pier), or 3) 1102 Solo (2 arms - Lateral & Longitudinal).
- Installation of 2 systems is required on homes $\leq 76'$ (based on the manufacturer's data plate), 96" sidewall height, and 4.37/12 (20°) roof pitch. Additional instructions below for homes greater than these dimensions. See home manufacturer's installation instructions on all new homes to determine the requirements for lateral and longitudinal securement. When only lateral securement is required, it is not necessary to install longitudinal arms. Any anchors installed in conjunction with an 1100 ASFS must be rated for a working load of 3,150 lbs. with an ultimate load of 4,725 lbs.

INSTALLATION OF GROUND PAN

- 1) Remove weeds and debris in an approximate 3 foot square to expose firm, level soil or controlled fill for each ground pan. The steel pan is equivalent to a 21" x 21" footing.
- 2) Before placing pan in ground make sure pan hardware is installed. (see Diagram 1A & 1B) Hold lock washer flush to the pan, hand tighten bolt and washer to lock washer. Hammer bolt head until washer and bolt are flush with pan. a.) 1102 ITV - Transverse Bolt installed with lock washer. b.) 1102 IV - Transverse bolt installed with lock washer and Longitudinal bracket installed with lock washer(s). c.) 1102 Solo - Both Transverse & Longitudinal bolt installed with lock washer(s).
- 3) Place pan on ground; so that, Longitudinal bracket/bolt is centered directly under the I-Beam and/or Transverse Bolt is placed towards adjacent I-Beam or center line of home. (Diagram 1A) Press or drive pan in ground flush with or below grade as per local jurisdiction.

INSTALLATION OF TRANSVERSE (LATERAL) ARM: See Table 3

1102 ITV, 1102 IV, & 1102 Solo System - see Page 2 Diagram(S) 5 or 7:

- 1) Hook Transverse I-Beam connector (D) over adjacent I-Beam.
 - 2) Slide 1.25" section of Transverse Arm (E) into 1.5" section. Attach 1.25" section of arm to I-Beam connector with bolt, nut, and washer.
 - 3) Extend flattened end of 1.5" Transverse Arm (E) over bolt in pan and hand tighten nut and washer
- A) Tighten upper and lower hardware on Transverse Arm.
B) Secure 2 sections of Transverse Arm with (4) $\frac{1}{4}$ " x $\frac{1}{4}$ " self tapping screws in pre-drilled pilot holes.

Diagram 1 B

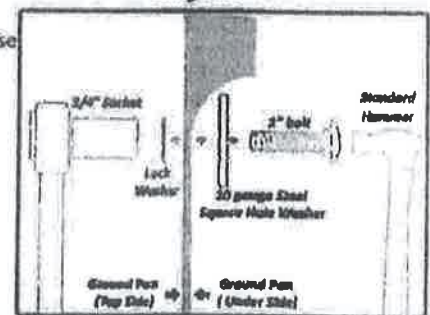
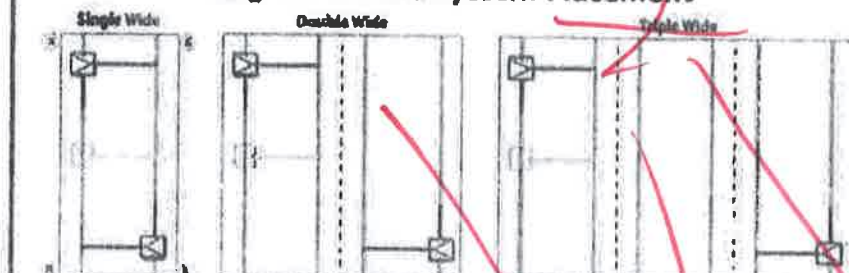


Diagram 1 ASFS System Placement



Transverse and Longitudinal Arms- Shall be installed at a minimum of 2' in and not more than 25% in from the end of the home. (2nd pier location recommended)

Recommended location of 3rd or 5th system, if required.

Anchor & Strap- All single wides shall have four corner anchors that shall be installed a minimum of 2' and a maximum of 10' from the end of the home. Straps shall also be at a minimum angle of 45 degrees and a maximum of 90 degrees.

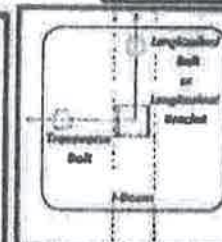


Diagram 1 A
Bracket & Bolt
Placement on
Ground Pan

TABLE 3

Frame Width	Transverse Arm Tube Lengths
60"	60"
112" <	72"

TABLE 2 ASFS REQUIREMENTS FOR ROOF SLOPES GREATER THAN 20 DEGREES

Length of Building	Roof Slope / Degree of Angle			
	5:12 23.6°	6:12 26.6°	7:12 30.3°	8:12 36.9°
34	2	2	2	2
38	2	2	2	2
42	2	2	2	3
46	2	2	2	3
50	2	2	2	3
54	2	2	3	3
58	2	3	3	3
62	2	3	3	3
66	3	3	3	3

Length of Building	Roof Slope / Degree of Angle			
	5:12 23.6°	6:12 26.6°	7:12 30.3°	8:12 36.9°
64	3	3	4	4
68	3	3	4	4
72	3	4	4	4
76	4	4	4	5
80	4	4	4	5

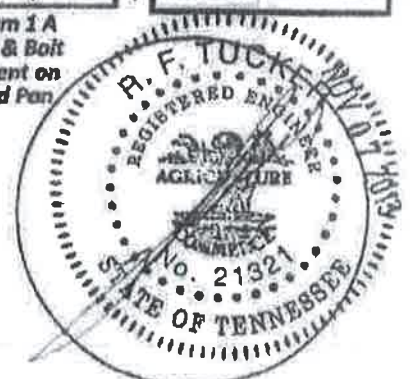
ADDITIONAL TRANSVERSE SYSTEMS

When the home exceeds 76' (based on the manufacturer's data plate) or 96" sidewall height, an additional transverse system is required.

For roof pitches greater than 4.37/12 (20°), see Table 2 for number of systems to be installed.

If more than 2 systems need to be installed, the additional systems may be transverse only.

Installation Instructions



Example



Technologies Inc.

INSTALLATION OF LONGITUDINAL ARM(S):

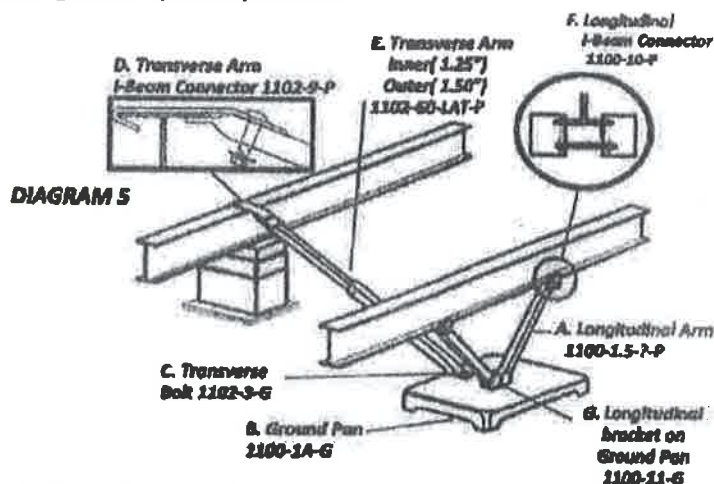
INSTALLATION OF 1102 IV LONGITUDINAL ARMS see Diagram 5

*The longitudinal "V" brace system serves as a pier under the home and should be loaded as any other pier. Longitudinal bracket (G) must be centered underneath I-beam so that channel in bracket is parallel with I-beam.

- 1) Determine the correct length of longitudinal arms to be installed based on pier height. See TABLE 4
- 2) Attach both of the 1.5" square tubes (A) into the Longitudinal bracket (G), insert carriage bolt and leave nut loose for final adjustment.
- 3) Place all four (4) I-beam connectors (F) loosely on the bottom flange of the I-beam.
- 4) Attach the selected 1.5" tubes (A) to the I-beam connectors (F) and fasten loosely with bolts and nuts. NOTE: The ground pan must be level in both directions to ensure the angle markings on the Longitudinal bracket (G) are correct from the horizontal plane of the pan. The angle of longitudinal arms (A) must be between 40° & 60°. The Longitudinal bracket (G) is stamped with the angles to verify correct placement.
- 5) Using standard hand tools, tighten all nuts and bolts.

TABLE 4
PIER HEIGHT = THE DIMENSION FROM THE TOP OF THE PAN TO THE BOTTOM OF THE I-BEAM

Pier Height	Tube Lengths
14" - 20"	20"
18" - 26"	28"
24" - 32"	36"
30" - 40"	44"
36" - 48"	54"



INSTALLATION OF 1102 SOLO LONGITUDINAL ARM see Diagram 7

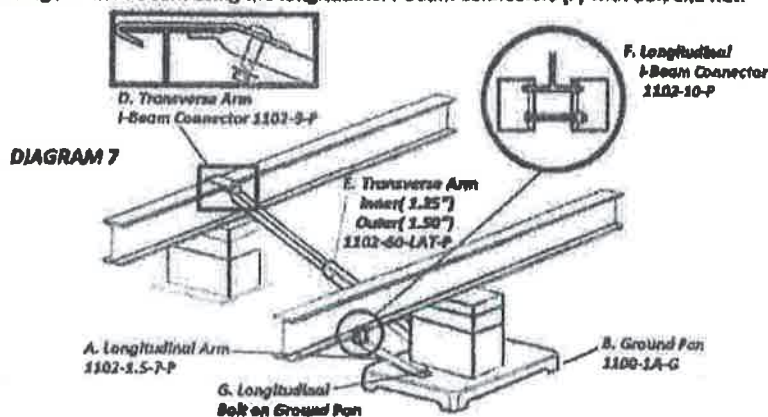
*The 1102 SOLO system does not replace a pier.

- 1) Determine the correct length of longitudinal arm to be installed based on pier height. See Table 6
- 2) Make sure that the Longitudinal bolt (G) is centered underneath the I-beam. Note: It is required that each longitudinal arm is installed in opposite directions underneath the home. see Page 1, Diagram 1
- 3) Place the flattened end of the Longitudinal arm (A) over the bolt on the ground pan (G) and loosely secure with provided nut and washer.
- 4) Place both I-beam connectors (F) loosely on the bottom flange of the I-beam.
- 5) Attach the opposite end of the Longitudinal arm (A) to the bottom flange of the I-beam using the longitudinal I-beam connectors (F) with bolt and nut.
- 6) Using standard hand tools, tighten all nuts and bolts.

Note: Angle of Longitudinal Arm Must Be Between 15° & 45°.

TABLE 6
PIER HEIGHT = THE DIMENSION FROM THE TOP OF THE PAN TO THE BOTTOM OF THE I-BEAM

Pier Height	Longitudinal Arm Length
12" - 24"	36"
12" - 32"	44"
12" - 40"	54"
12" - 48"	65"



Notes:

- 1) Installation of Longitudinal systems eliminate the need for the longitudinal anchors. (exception see note 3 & 4 below)
- 2) Installation of Transverse systems eliminates the need for diagonal frame ties and the related anchors and stabilization plates..
- 3) All single wide homes require four corner anchors, See PG. 2, DIAGRAM 1
- 4) All other home manufacturer's Instructions for Installation of stabilizing devices must be followed, including vertical tie-down anchors and any special anchors such as mating line and shear wall tie down anchors. Any required anchors must be installed per the anchor manufacturer's instructions.
- 5) If the home manufacturer's installation instructions are not available, vertical tie-down anchors and any special anchors such as mating line and shear wall tie-down anchors must be installed in accordance with any state regulations, or as required by the authority having jurisdiction.
- 6) All Wind Zone II homes require vertical wall tiedowns see anchor manufacturer's instructions for spacing.

STATE OF MICHIGAN: As required by Section 1805.2.1, 2000 Michigan Building Code footer depth shall be 42" below grade or per local jurisdiction.

STATE OF N. CAROLINA: All tubing must be galvanized.

Revised 11/6/2013

Patent # 6634150 and other patents pending

NOV 07 2013

Page 2/2

Installation Instructions

Examples

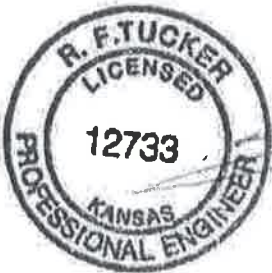
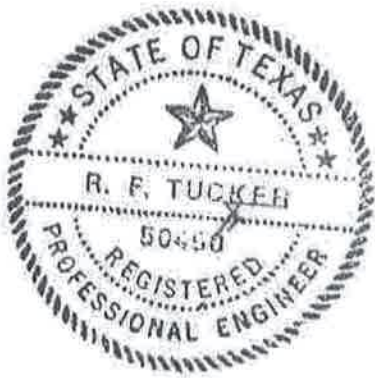


Technologies Inc.

SOUTH WEST STAMPS

Professional Engineer seals on this page are applicable to the following Oliver Technologies Inc. documents:

1. Installation Instructions For 1100 Series All Steel Foundation Systems (ASFS)
Ground Set for Wind Zones I & II, Revised 11/6/2013
2. Installation Instructions For 1100 Series All Steel Foundation Systems (ASFS)
Concrete Set for Wind Zones I & II, Revised 11/6/2013



Engineer Seals

EXAMPLES OF MOBILE HOMES DATA PLATES

[illegible]

Figure 1 – HUD

[illegible]

Figure 2 – HUD

BUILDING MANUFACTURER'S DATA PLATE

MANUFACTURER: CH Manufacturing, Inc. DBA: Clayton-Richfield 933
ADDRESS: Post Office Box 1000
Richfield, NC 28137

BUILDING SERIAL NO.: CR020299CM9B MODEL NO. MR1003A 1967-6851
STATE LABEL NO.: 56985 DATE OF MANUFACTURE: 7-11-01
FMC LABEL NO.: 7470102/7470103 DATE DATA PLATE ATTACHED: 2-7-02

THIS BUILDING IS DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH THE FOLLOWING CODES:

RESIDENCE
BUILDING: COMMITTEE A MINIMUM 20% DISCOUNT
FLORIDA: Vol VII, 1995 CIRC 162 Family 1997 NC ED W/1996/1999 Rev.
PLANNING: Vol VII, 1995 CIRC 162 Family 1997 NC ED W/1996/1999 Rev.

ONE:
MECHANICAL: Vol VII, 1995 CIRC 162 Family 1997 NC ED W/1996/1999 Rev.
ELECTRICAL: Vol IV, 1999 NEC NATH 1999 NC Rev.

THIS BUILDING IS DESIGNED FOR THE FOLLOWING CONDITIONS

USE PROTECTION TYPE: B
CONSTRUCTION TYPE: VI Unprotected
FIRE RATING OF EXTERIOR WALLS (FUR):
FLOOR: OSI 18" W/18" 0.82 NO ROOFING 0.43
ELECTRICAL SERVICE: 20 W/18" 120/240 Simple 60 HT
FUEL TYPE: ☒ NATURAL GAS ☐ LP GAS ☐ OTHER Electric
WATER SYSTEM TEST PRESSURE: 100 PSI

THE FOLLOWING MAJOR APPLIANCES WERE PROVIDED BY THE BUILDING MANUFACTURER

APPLIANCE	MANUFACTURER	MODEL
HEATING	<u>Nordyne</u>	<u>12F001 SHA</u>
AIR CONDITIONING	<u>NA</u>	
WATER HEATER	<u>RHEEM</u>	<u>81V57UC</u>
REFRIG.	<u>GE</u>	<u>JBP66M94W</u>
REFRIG.	<u>GE</u>	<u>GSS201EMR3V</u>
D/W	<u>GE</u>	<u>GSD3230F00W</u>

BEFORE THE INSTALLATION OF THIS BUILDING AND UTILITY CONNECTIONS SHOULD BE PROVIDED ONLY BY QUALIFIED PERSONS AND IS SUBJECT TO INSPECTION BY LOCAL AUTHORITIES. AFTER THE APPROVED LOCAL INSPECTION, ALL GAS LINES MUST BE CHECKED AND ALL GAS INSTALLATION MUST BE PROVIDED BY THE MANUFACTURER. ALL INSTALLATIONS MUST BE TO LOCAL CODES.

SEE ALSO INSTRUCTIONS, LIMITATIONS, ETC.

THIS BUILDING WAS MANUFACTURED UNDER A QUALITY CONTROL SYSTEM MONITORED INDEPENDENTLY BY HILCOM, HILCOM, GARTER & ASSOCIATES, INC., 1037 SOUTH MOBILE AVENUE, CLAYTONVILLE, FLORIDA 32616.

Figure 3 – MOD (modular)

MODULAR DATA PLATE		APPROVAL AGENCY: NTA, Inc. 305 North Oakland Ave. Naperville, IN 46350-0490	
MANUFACTURER: SCHULTZ - Plant #957 PO Box 700 / 506 Palmer Rd Rockwell, NC 28138			
Modular House Model: 3301 State Label No(s): NC 113419 NTA, Inc. Label No(s): P2 318921 / P2 318923		Modular Home Serial No.: 723427 A/J Date Label(s): 01-Dec-99	
ELECTRICAL: Service Panel: 200 AMP, 120/240 V., Single Phase, 3 Wire			
FACTORY INSTALLED APPLIANCES:			
MANUFACTURER Washer Clothes Dryer Range Water Heater Dishwasher Microwave Furnace Refrigerator Fireplace Whirlpool Disposal TV DVD / Receiver		MODEL N/A N/A N/A JES67M1DB K2-40-3 JESD3000R000 GFI N/A GFI EVEN-0121 GTS18DCPLJBJ N/A N/A N/A N/A	
DESIGN CONDITIONS:			
Building Area: 1186 SQ FT Ground Snow Load: 30 PSF Roof Dead Load: 10 PSF Arête Live Load: 10 PSF Floor Live Load: 40 PSF Galt Gross Weight: 49,007 LBS Water Supply Temp: 168 / 13 F (50 / 55 F)	Wind Load: 90 MPH Building Height: 15 (Single) STORY Seismic Zone: C Soil Profile Category: C Use Group: H - 3 Construction Type: VII DWFY Test: Air 5 PSF 15 min		
CODES & STANDARDS:			
NC RESIDENTIAL CODES (2009 ED.) NC PLUMBING CODES (2009 ED.) NC MECHANICAL CODES (2009 ED.)	NC ELECTRICAL CODES (2009 ED.) W/2008 Amendments NC FUEL GAS CODE (2009 ED.)		
HEATING:			
Design Temperature: Indoor: 69 F. Outdoor: 1 F. Degree Days: 4999	"R" VALUES Floor: 22 Wall: 13 Ceiling: 20		
SPECIAL INSTRUCTIONS:			
UNFINED ROOF TO BE COMPLETED ON SET-UP PER MANUFACTURER'S INSTALLATION MANUAL			

Figure 4 – MOD (modular)

Data Plots 1 of 2

LOCATION OF DATA PLATES

5. Where are Data Plates normally located?

a. Kitchen Cabinets

- i. Check around the cabinet area below the Kitchen Sink first.
- ii. Glued to the Kitchen Sink Cabinet Door. See Figure 5
- iii. Glued just inside the Cabinet beside the Kitchen Sink Cabinet Door. See Figure 6
- iv. Glued to the Wall Directly Beneath the Kitchen Sink.
- v. Check the doors of your overhead cabinets. See Figure 7

b. Clothes Closet

- i. Glued to the Wall of a Clothes Closet – Normally Master bedroom closet. See Figures 8, 9

c. Electrical Panel Box – Less common location these days



Figure 5



Figure 6



Figure 7

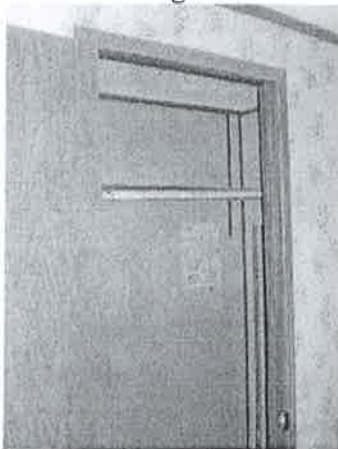


Figure 8



Figure 9

6. What Information can be found on a Data Plate?

a. Manufacturer Name and Address

Data Plates 2 of 2