



OAKWOOD HOMES ENGINEERING

Codes & Structures Department

Date: March 31, 2000

To: Local Building Official

From: Amor Camatcho, P.E.
(336) 315-3254 Phone
(336) 315-3285 Fax

Subject: Adjustable Outrigger Approval

As required per the Oakwood Homes Installation Manual, piers are required at each side of all exterior doors along the sidewall, and at each side of all sidewall openings greater than 48", such as bay windows, patio doors, recessed entries, etc. The adjustable outrigger by Manufactured Housing Foundation System, Inc., a subsidiary of Oliver Technologies, Inc., may be used in lieu of piers and pad footings at these locations only when installed in accordance with the manufacturer's installation requirements.

This adjustable outrigger shall not be used in place of typical sidewall perimeter piers for homes located in 30 psf through 80 psf snow load regions. These piers are spaced and located as shown in the tables on pages 3.5 and 3.7 of the Oakwood Homes Installation Manual for homes.



HBOS Manufacturing, LP

Engineering Department
7800 McCloud Road
Greensboro, NC 27409-9634

Date: October 23, 2002

To: Mr. Tommey Colley
Alabama Manufactured Housing Commission
350 South Decatur Street
Montgomery, Alabama 36104
(334) 242-4036 ext. 22 Phone
(334) 240-3178 Fax

Cc: Mr. Tracy Bain
Oliver Technologies, Inc.
487 Swan Avenue
Hohenwald, TN 38462
(800) 284-7437 Phone
(931) 796-8811 Fax

From: Amor Camatcho, P.E.
(336) 315-3254 Phone
(336) 315-3285 Fax

Subject: Alternate Foundation System; All Steel Foundation Systems

The support systems shown in the installation manual (piers, footings, and anchoring devices) for homes manufactured by HBOS Manufacturing, LP, comprise of the minimum structural requirements for supporting the home to resist the required design loads. These design loads comply with the "Federal Manufactured Home Construction and Safety Standards" in accordance with the requirements of the U.S. Department of Housing and Urban Development.

As stated in the installation manuals, homes may be installed on permanent foundations or other alternate support systems that vary from our installation manual provided they meet the requirements of the local building authority and are certified by a registered professional engineer or architect.

Accordingly, the "All Steel Foundation Systems" by Oliver Technologies, Inc. is approved for use as a supplement to our installation manual. These systems have been certified by Wisconsin licensed engineer Richard M. Reinhard and Alabama licensed engineer Ray Tucker. The use of this alternate longitudinal and transverse bracing system is allowed with the provisions that the system is approved by the authority having jurisdiction and is installed per the manufacturer's instructions.

The approved "All Steel Foundation Systems" 1100 Series shall be used and installed for the appropriate MUD wind zones. These systems include 1100I "V", 1100 IC "V", 1100II "V", and 1100IIC "V". Please see the manufacturer's installation instructions for set-up conditions allowed with this foundation system.

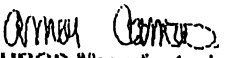
This letter applies to homes manufactured by HBOS Manufacturing, LP, including its affiliates and registered trade names (Oakwood Homes, Schult, Marlette, Marlette by Schult, Marlette Elite, House Smart, and Golden West Homes) and homes manufactured by HBOS Manufacturing, LP for independent companies (Cornerstone, Leader Homes, Ashton).

Mr. Tommey Colley
Alabama Manufactured Housing Commission
October 23, 2002
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The warranty for these homes shall be honored under the condition that the installation of the home meets all of the requirements as described in the home manufacturer's installation manual, the Oliver Technologies "All Steel Foundation System" installation instructions, and is accepted by the jurisdiction having authority. All footings must be sized according to the installation manuals to provide proper support for the home.

Please call me should you have any questions or comments. Thank you.

Sincerely,

 P.E.
HBOS Manufacturing, LP
Amor Camatcho, P.E.
Senior Structural Engineer

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HBOS Manufacturing, LP

Engineering Department
 7800 McCloud Road
 Greensboro, NC 27408-8634

Date: August 16, 2002

To: Mr. Tracy Bain
 Oliver Technologies, Inc.
 487 Swan Avenue
 Hohenwald, TN 38462
 (800) 284-7437 Phone
 (931) 798-8811 Fax

From: Amor Camatcho, P.E.
 (336) 315-3254 Phone 664-3954
 (336) 315-3285 Fax

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Subject: Alternate Foundation System; All Steel Foundation Systems

The support systems shown in the Oakwood Homes and Schult Homes Installation Manual (piers, footings, and anchoring devices) comprise of the minimum structural requirements for supporting the home to resist the total design loads. These design loads comply with the "Federal Manufactured Home Construction and Safety Standards" in accordance with the requirements of the U.S. Department of Housing and Urban Development.

As stated in our installation manuals, homes may be installed on permanent foundations or other alternate support systems that vary from our installation manual provided they meet the requirements of the local building authority and are certified by a registered professional engineer or architect.

Accordingly, the "All Steel Foundation System" by Oliver Technologies, Inc. is approved for use as a supplement to our installation manual. These systems has been certified by Wisconsin licensed engineer Richard M. Reinhard and Alabama licensed engineer Ray Tucker. The use of this alternate longitudinal and transverse bracing system is allowed with the provisions that the system is approved by the authority having jurisdiction and is installed per the manufacturer's instructions.

The approved "All Steel Foundation System" 1100 Series shall be used and installed for the appropriate HUD wind zones. Please see the manufacturer's installation instructions for set-up conditions allowed with this foundation system.

Oakwood Homes and Schult Homes will honor the warranty for these homes under the condition that the installation meets all of the requirements as described in the home manufacturer's installation manual, the Oliver Technologies' installation instructions, and is accepted by the jurisdiction having authority. All footings must be sized according to the installation manual to provide proper support for the home.

Please call me should you have any questions or comments. Thank you.

Sincerely,


 HBOS Manufacturing, LP
 Amor Camatcho, P.E.
 Senior Structural Engineer

DEC. 20. 2000 3:35PM

NO. 5315

HBOS Manufacturing, LP

Engineering Department
7800 McCloud Road
Greensboro, NC 27409-8634

Date: Wednesday, December 20, 2000

To: Mr. Tommy Colley
State of Alabama
Manufactured Housing Commission
305 South Decatur Street
Montgomery, AL 36104
(334) 242-4038 ext. 22 Phone
(334) 240-3178 Fax

From: Amor Camatcho, P.E.
(336) 315-3254 Phone
(336) 315-3285 Fax

Subject: All Steel Foundation Systems


The support systems shown in the Oakwood Homes Installation Manual (piers, footings, and anchoring devices) comprise of the minimum structural requirements for supporting the home to resist the total design loads. These design loads comply with the "Federal Manufactured Home Construction and Safety Standards" in accordance with the requirements of the U.S. Department of Housing and Urban Development.

As stated in our installation manuals, homes may be installed on permanent foundations or other alternate support systems that vary from our installation manual provided they meet the requirements of the local building authority and are certified by a registered professional engineer or architect.

Accordingly, the "All Steel Foundation System" by Oliver Technologies, Inc. and as certified by California licensed engineer Edward M. Salisbury, is acceptable for use as a supplement to our installation manual. This use is allowed with the provision that the system is approved by the local building official and is installed per the manufacturer's instructions.

Please call me should you have any questions or comments. Thank you.

Sincerely,


HBOS Manufacturing, LP
Amor Camatcho, P.E.
Senior Structural Engineer

