



March 22, 2005

BF5-032

Lon Larson (via fax - 760-744-7444)
Oliver Technologies
562 Glenheather Dr.
San Marcos, CA 92069

Subject: Oliver All Steel Foundation Systems

Dear Lon:

It has come to my attention that there is some misunderstanding about the use of the Oliver longitudinal bracing. As stated in chapter 5 of the Fleetwood Home Installation Manual "proprietary foundation systems" do not need separate approval for use with Fleetwood homes as long as the three stipulations are met.

Fleetwood homes have frame clips for longitudinal anchors welded to the bottom main beams at each end of the home. It seems problems have arisen when attempting to use the Oliver longitudinal bracing in lieu of these clips. This is to clarify that the Oliver longitudinal bracing may replace the welded frame clips at the end of the home. I am encouraging the use of the complete Oliver system, both longitudinal and transverse, on the home to replace as many ground anchors as possible, but the Oliver longitudinal system could be used separately just to replace the longitudinal anchors.

If you have any other questions about this project please do not hesitate to contact me.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

A handwritten signature in black ink that reads 'Bill Farish'.

Bill Farish, P.E.
Director of Product Engineering
Housing Group

3051 Myers Street
Riverside, CA 92513-7638
951-351-3500

Tracy



February 7, 2003

BF3-011

Lon Larson (via fax - 760-744-7444)
Oliver Technologies
562 Glenheather Dr.
San Marcos, CA 92069

Subject: Oliver All Steel Foundation Systems

Dear Lon:

I have reviewed the letter from Ed Salisbury, P.E., to you, dated January 31, 2003, concerning the suitability of the Oliver All Steel Foundation System (OASFS) for single-section homes in Wind Zone I applications. (See attached letter.) While no calculations were presented it does state that only two ground anchor/tie-down straps need to be used to secure the main beams on each side of the home (for a total of four anchors per home) in addition to the OASFS. It also states that these anchors must be located no more than two feet from the end of the 76 feet maximum length home. I see no reason why this approval by a professional engineer would not qualify as an alternate foundation system for Fleetwood

Fleetwood has already approved the use of the OASFS for multi-section homes in Wind Zone I so this letter confirms that the OASFS may be used on all Fleetwood homes in Wind Zone I.

If there are any further questions concerning this issue please do not hesitate to contact me.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

Bill Farish, P.E.
Director of Product Engineering
Housing Group

7051 Myers Street
P.O. Box 7636
Riverside, CA 92513-7636
951-501-3500



October 13, 2004

BF4-100

Jim Sloan
Alabama Manufactured Housing Commission
350 So. Decatur St.
Montgomery, AL 36104

Subject: Alternate Tiedown Systems

Dear Jim:

This is in response to your December 27, 2001 letter to all manufacturers asking them to verify which alternate tiedown systems have been approved by the manufacturer.

Fleetwood has already responded with a list of major proprietary systems that it has reviewed and approved. This is to further clarify all of the systems* produced by the Oliver Technologies.

Based on the test reports reviewed the following systems are approved for use on Fleetwood homes in Wind Zone I, whether new or used, when used in accordance with the manufacturer's installation instructions:

- 1100 I "V" (pan system)
- 1100 IC "V" (concrete system)

* - The older 1100 I "T" & "L" systems, while previously approved, are apparently no longer in production.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

A handwritten signature in cursive script that reads 'Bill Farish'.

Bill Farish, P.E.
Director of Product Engineering
Housing Group

cc – Lon Larson

3051 Myers Street
Riverside, CA 92513-7638
951-351-3500

November 20, 2002



BF2-122

Jim Sloan
Alabama Manufactured Housing Commission
350 So. Decatur St.
Montgomery, AL 36104



Subject: Alternate Tiedown Systems

Dear Jim:

This is in response to your December 27, 2001 letter to all manufacturers asking them to verify which alternate tiedown systems have been approved by the manufacturer.

Fleetwood has already responded with a list of major proprietary systems that it has reviewed and approved. This is to further clarify all of the systems* produced by the Oliver Technologies.

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- 1100 I "V" (pan system)
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Sincerely,

FLEETWOOD ENTERPRISES, INC.

A handwritten signature in cursive script that reads "Bill Farish".

Bill Farish, P.E.
Director of Product Engineering
Housing Group

cc - Tracy Bain - Oliver

3051 Myers Street
P.O. Box 7638
Riverside, CA 92513-7633
909-351-3500

October 14, 2005



BF5-088

Lon Larson (via e-mail)
Oliver Technology
562 Glenheather Dr.
San Marcos, CA 92069

Subject: 30 psf Home in 20 psf Zone

Dear Lon:

This concerns an improbable misinterpretation of our installation manual which you brought to my attention. The question has arisen as to the requirement to put perimeter piers under a Fleetwood home when it is located in a 20 psf roof zone.

Page 3, note 7 a) of the *Fleetwood Home Installation Manual* clearly states the following:

Homes labeled for roof L.L. over 20 psf that are installed in the 20 psf zone may omit the perimeter piling requirement.

This letter is written to restate this stipulation. As clearly as possible I am saying that a home that is manufactured and labeled as complying with the 30 or 40 psf roof live load requirements may be installed in a 20 psf roof zone without perimeter piers.

If you have any other questions about this project please do not hesitate to contact me.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

A handwritten signature in black ink that reads 'Bill Farish'.

Bill Farish, P.E.
Director of Product Engineering
Housing Group

cc- Bob Henry

3051 Myers Street

Riverside, CA 92513-7638

951-351-3500

October 5, 2005



BF5-081

Lon Larsen (via fax: 760-744-7444)
Oliver Technology
562 Glenheather Dr.
San Marcos, CA 92069

Subject: Use of Oliver Foundation System in Louisiana

Dear Lon:

This concerns the use of certain Oliver Technology products for installation in Louisiana, Mississippi, and Alabama in the wake of the recent hurricanes. I have reviewed the installation instructions in relationship to the Fleetwood Home Installation Manual for this area for the following products:

- Oliver Model 1101-L "V" All Steel Foundation – Florida Installation
- Oliver Model 1101 "V" All Steel Foundation – Florida Installation
- Oliver Adjustable Outrigger
- Oliver Model 1055 ABS Pads
- Oliver Model CB1 or CB2 Cap Boards

I see no reason why these products cannot be used to properly secure any Fleetwood manufactured home for the Wind Zone I, II or III areas of the states mentioned above.

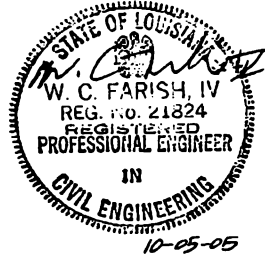
If you have any other questions about this project please do not hesitate to contact me.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

Bill Farish, P.E.
Director of Product Engineering
Housing Group

Cc – Bob Henry



3051 Myers Street

Riverside, CA 92513-7638

951-351-3500

November 20, 2002



BF2-122

Jim Sloan
Alabama Manufactured Housing Commission
350 So. Decatur St.
Montgomery, AL 36104

Subject: Alternate Tiedown Systems

Dear Jim:

This is in response to your December 27, 2001 letter to all manufacturers asking them to verify which alternate tiedown systems have been approved by the manufacturer.

Fleetwood has already responded with a list of major proprietary systems that it has reviewed and approved. This is to further clarify all of the systems* produced by the Oliver Technologies.

Based on the test reports reviewed the following systems are approved for use on Fleetwood homes in Wind Zone I when used in accordance with the manufacturer's installation instructions:

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Sincerely,

FLEETWOOD ENTERPRISES, INC.

A handwritten signature in cursive script, appearing to read "Bill Farish".

Bill Farish, P.E.
Director of Product Engineering
Housing Group

cc - Tracy Bain - Oliver

3051 Myers Street
P.O. Box 7638
Riverside, CA 92513-7638
909-351-3500