



# Oregon

John A. Kitzhaber, M.D., Governor

Department of Consumer and Business Services

Building Codes Division

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JANUARY 4, 2000

**LON LARSON, GENERAL MANAGER  
MANUFACTURED HOUSING FOUNDATION SYSTEMS  
562 GLENHEATHER DRIVE  
SAN MARCOS, CA 92069**

**RE: ADJUSTABLE OUTRIGGER**

Thank you for your letter of November 3, 1999. I apologize for the delay and not being able to respond to your letter sooner.

The Division can not provide a blanket approval for adjustable outriggers since manufactured homes vary considerably concerning the size, grade, species, spacing, spans, loads, and direction of floor joists. Adjustable outriggers are currently not addressed in the Oregon Manufactured Dwelling Standard (OMDS). However, the OMDS does make provisions for those methods not addressed, by allowing them to be approved by the local authority having jurisdiction as an *alternate method or material* (see Sections 205(b) and 301(f) of the OMDS).

When requesting approval in Oregon for adjustable outriggers as a replacement for some or all of the required perimeter or marriage line piers, the following conditions should be met:

1. The adjustable outriggers would need to be located in line with the existing cross members or have cross members added between the I-beams at each adjustable outrigger location to prevent;
2. Since the adjustable outriggers transfer loads from the perimeter and marriage lines to the I-beams, the footings and piers under the I-beams would need to be increased in size and capacity or decrease the spacing to compensate for the additional loading;
3. The adjustable outriggers would need to be engineered for each specific manufactured home design, including the various roof loads, floor systems, dead loads, etc; and
4. Engineering would need to be performed by an Oregon registered professional engineer and submitted to the local authority having jurisdiction for approval.

I hope this addresses any questions you might of had concerning the Division's acceptance of adjustable outriggers. If I can be of further help to you, please give me a call at (503) 373-1326.

Patrick Lewis, Program Specialist





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**APRIL 28, 1999**

**LON LARSON, GENERAL MANAGER  
MANUFACTURED HOUSING FOUNDATIONS SYSTEMS  
562 GLENHEATHER DRIVE  
SAN MARCOS, CALIFORNIA 92069**

**RE: ADJUSTABLE OUTRIGGERS**

Thank you for your April 19, 1999 letter. At this time, adjustable outriggers do not comply with the prescriptive method of manufactured dwelling installations of the 1997 Oregon Manufactured Dwelling Standard (OMDS). However, Section 303(g) of the OMDS does permit a person to design for unusual installations not provided for in the OMDS or the manufacturer's installation instructions with prior approval from the authority having jurisdiction. This means adjustable outriggers are permitted in Oregon but the engineering on the product would need to be submitted for review and approval to the municipality where they are intended to be used. You should also be aware that the engineering stamp on your calculations is not acceptable in Oregon. Oregon law requires all engineering be stamped by an Oregon registered engineer.

I hope this gives you some direction on the approval of your product for use in Oregon. If I can be of further service to you please call me at (503) 373-1326.

Patrick D. Lewis, Program Specialist  
Technical Advisory Group

cc: Albert Endres

