

**WESTERN WOOD**



**STRUCTURES, INC.**

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June 23, 2021  
Diamond Pier Frost Performance Review  
Portland, Oregon

Rick Gagliano, President  
Pin Foundations, Inc.  
4810 Pt. Fosdick Dr. NW, PBM 60  
Gig Harbor, WA. 98335

Rick,

I have reviewed the Performance of Diamond Pier® Foundations in Frost Zone Soils – 2009-2019 Frost Study, the DP-50 Diamond Pier Frost Performance Report, consisting of the preface, a letter from Thomas Meyers, CBO and a report by Steven A Schmidt, PE. Additionally, I have reviewed ICC-ES Evaluation Report, ESR 1895. These documents adequately certify that the DP-50 and DP75 Diamond Piers perform acceptably for detached or attached deck structures subjected to frost heave conditions.

I have also reviewed the following letters, written in support of Pin Foundations, Inc. application for the ICC-ES Evaluation Report:

Steven S. Michels, S.E., Project Manager  
Kudrna & Associates, Ltd.  
Dated September 23, 2005

Andrew C. Kelsey, PE, President  
Ascent Group, Civil and Structural Engineers  
Dated September 7, 2005

Suzette B. Lopane, RLA, Associate Planner-Urban Design  
Westchester, New York  
Dated September 21, 2005

Chuck DePrima, Deputy Director  
City of Manchester, New Hampshire  
Dated September 22, 2005

Matthew Dix, Property Foreman  
Martha's Vineyard Land Bank Commission  
Edgartown, Massachusetts  
Dated September 21, 2005

Tyler Johnson, Maintenance Mechanic  
Sequoia and Kings Canyon National Park  
Ash Mountain Building and Grounds  
Undated

Eiji Maeno, President  
Timberform Japan Co., Ltd.  
Kobe, Japan  
Dated September 15, 2005

Dallas Green, Project Manager  
Living Shelter Design Architects, PLLC  
Issaquah, Washington  
Dated September 14, 2005

Brian Muller, Park Planning Manager  
Metro District  
Hylands Ranch, Colorado  
Dated September 2, 2005

Jake Smulkowdi, Environmental Education Specialist  
Palouse-Clearwater Environmental Institute  
Moscow, Idaho  
Undated

Terry Nettles, P.E.  
Gig Harbor Washington  
Dated September 26, 2005

James "Whitey" Morris, Director of Operations  
D & C Construction Co., Environmental Division  
Rockland, Massachusetts  
Dated May 10, 2005

Peter J. Weher, Supervisory Landscape Architect  
United States Department of the Interior  
Fish and Wildlife Service  
Portland, Oregon  
Dated August 30, 2005

William L. Perry, P.E.  
United State Department of the Interior  
Bureau of Land Management  
Coeur d'Alene, Idaho  
Dated September 13, 2005

Fran McTamaneay, Environmental Education Coordinator  
San Francisco Bay National Wildlife Refuge Complex  
Newark, California  
Dated September 7, 2005

Nic Rossouw, P.E., Principal  
Swendson Say Faget  
Seattle, Washington  
September 19, 2005

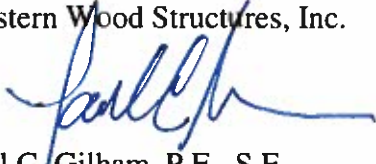
Robert W. Droll, ASLA  
Lacey Washington  
Undated

Taj Goodpastor, Construction Project Manager  
North Wind, Inc.  
Kellogg, Idaho  
Undated

Jane Baughman, AIA, LEED-AP, Associate  
FKP, Inc. Architects  
Houston, Texas  
Undated

These nineteen reports contain overwhelming evidence that the Diamond Pier DP-50 piers perform as described in frost heave conditions in addition to their performance in supporting gravity loads.

Sincerely,  
Western Wood Structures, Inc.

  
Paul C. Gilham, P.E., S.E.  
Chief Engineer



6.23.21