LEWIS & VAN VLEET
incorporated

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 11/12/15

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
15,099
OREGON
JAN. 23, 2001
GARY JAMES LEWIS
EXPIRES 12-31-2016

Gary Lewis
Jan 9 2015 3:26 PM
CoSign

principals
chris c. van vleet, p.e.
gary j. lewis, p.e.

January 9, 2015

Pacific Yurts Inc.
77456 Highway 99S
Cottage Grove, OR 97242

Attention: Alan Bair

RE: 30' YURT WITH 50 PSF ROOF SNOW LOAD

Dear Alan:

We have reviewed the ASCE 7-10 calculations for the standard 30' diameter yurt in order to determine the snow load capacity with upgrades of the rafters and perimeter cable. The upgrades consist of using 2 x 6 select structural Douglas Fir rafters in lieu of the standard 2 x 4 rafters, and upsizing the perimeter tension cable to 5/16" diameter. All other components of the yurt are per the standard package.

The roof snow load design capacity for the upgraded structure exceeds 50 pounds per square foot (psf), in combination with the standard 142 mph (ultimate) Exposure C wind criteria (in areas without abrupt changes in topography that cause topographic wind effects). Please note that the 50 psf *roof* snow load equates to a *ground* snow load of 64 psf (certain factors are applied to ground snow to attain the roof snow load). Structural calculations for these load and framing conditions are available.

Please do not hesitate to call if you have any questions.

Gary Lewis
Jan 9 2015 3:26 PM
CoSign

Gary J. Lewis, S.E.

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