

SEI SHELLEY ENGINEERING, INC.
STRUCTURAL CONSULTANTS

Portland Food COOP
Hampshire Street
Portland, Maine

April 7, 2011
Job No. 2011-039
Pg. 1 of 1

Attention: Stefan Apse

Stefan:

I am pleased to be of assistance to the Portland Food Co-op. Per your request, I analyzed the roof structure of the building you will occupy to see if it meets the structural loading requirements of the IBC 2006 Building Code.

It is my understanding that the roof is framed with 2x8s at 12"oc, and every other 2x8 rafter has been sistered with a new 2x8. The 2x8s are supported by (2) interior W8x24 steel girders and masonry walls. One masonry wall abuts an adjacent high bay building, resulting in potential snowdrift condition for the 2x8s of your roof.

For the analysis I used the following dead loads:

Existing roof Decking.....2.0psf
EPDM Roofing.....0.5psf
2x4s @ 24"oc Ceiling Framing..... 1.1psf
10" Dense Cellulose Insulation 3.5psf
5/8" Gyp-Board 2.8psf
Misc. Dead Load Allowance 5.1psf
Total Dead Load Used 15psf

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Dept. of Building Inspections
City of Portland Maine

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Snow Load Used:

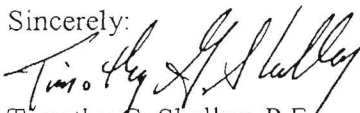
42psf flat roof snow loading plus drifting snow (per IBC).
42psf flat roof snow loading plus rain water surcharge (per IBC).

The analysis of the roof framing was found to be adequate to support loads stated above. Please verify that the original 2x8s are in good condition with no decay.

Please keep in mind that in extreme winters, building code recommended snow loads may be exceeded, and snow removal may be required.

Please let me know if you have any questions.

Sincerely:


Timothy G. Shelley, P.E.

