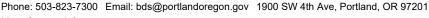
Development Services

From Concept to Construction



More Contact Info (http://www.portlandoregon.gov//bds/article/519984)





APPEAL SUMMARY

Status:	Decision F	Rendered
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Appeal ID: 22197	Project Address: 2060 N Marine Dr
Hearing Date: 12/11/19	Appellant Name: Martin Ouellet
Case No.: B-007	Appellant Phone: 514-723-7646
Appeal Type: Building	Plans Examiner/Inspector: Jason Butler-Brown, Amit Kumar, Nate Takara
Project Type: commercial	Stories: 1 Occupancy: cirque du soleil america inc. Construction Type: Tents
Building/Business Name: Cirque du Soleil-Volta	Fire Sprinklers: No
Appeal Involves: Erection of a new structure	LUR or Permit Application No.: 19-236247-MT
Plan Submitted Option: pdf [File 1]	Proposed use: Theatrical presentation

APPEAL INFORMATION SHEET

Appeal item 1

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Code	Section	

2014 - Article 1609.1.1

Requires

Article 1609.1.1 in OSSC 2014 requires structures to be designed in accordance with ASCE 7 and using the basic design wind speed determined by Section 1609.3. If Risk Category III is considered, the basic design wind speed can reach 130 mph.

Proposed Design

The design of Cirque du Soleil tents for wind loads has been done according to ANSI/ASCE 7-10 for a basic wind speed of 95 mph. Therefore, to maintain a level of safety while occupying a tent comparable to that of a permanent structure, Cirque du Soleil requests a conditional appeal to this provision, because the tent structures do not fully comply with the code due to wind loading. Conditions of the permit would include the following:

install and maintain all structural components in accordance with sealed drawings and calculations,

monitor wind speed forecasts from the nearest meteorological stations, evacuate the public when on site measured wind gust exceed 50 mph, evacuate the staff when on site measured wind gusts exceed 62 mph,

evacuate the security staff when on site measured wind gusts exceed 75 mph.

Provided the structures are erected in accordance with the drawings, the actual sustained winds are less than indicated, and there is no snow accumulation on the tents, the structures will remain

stable.

Reason for alternative Due to the temporary nature of the performances in continuous cities and the economics of transporting these structures, the tents were not designed to withstand the same wind loads as a permanent structure. The appellant requests a conditional appeal to the wind loading provisions

due to the temporary nature of the structures, and the weather monitoring that will be implemented.

Appeal item 2

Code Section

OSSC 1608.1

Requires

The design roof snow load shall not be less than 20 psf (960 N/m2).

Proposed Design

Cirque du Soleil requests a conditional appeal to this provision because the tent structures do not fully comply with the code due to snow loading. Therefore, to maintain a level of safety while occupying a tent comparable to that of a permanent structure, conditions of the permit would include the following;

Install and maintain all structural components in accordance with sealed drawings and

Remove snow using such methods as melting, blowing and/or sweeping in order to prevents its accumulation on the tent roofs.

evacuate the individual tents if snow accumulates on the roof.

Provided the structures are erected in accordance with the drawings and there is no snow accumulation on the roofs, the structures will remain stable.

Reason for alternative Due to the temporary nature of the performances in continuous cities and the economics of transporting theses structures, the tents were not designed to withstand the same snow loads as a permanent structure. The appellant requests a conditional appeal to the snow loading provisions due to the temporary nature of the structures, and the weather monitoring and snow removal plan that will be implemented.

Appeal item 3

Code Section

OSSC 1803.3.2

Requires

For Sites for structures and facilities defined by ORS 455.447 as essential facilities, hazardous facilities, major structures and special occupancy structures shall be evaluated on a site-specific basis for vulnerability to seismic-induced geologic hazards as required in Section 1803.7.

Proposed Design

The structure is classified as a special occupancy structure because of the high occupancy load and use for assembly. The appellant requests exemption from OSSC 1803.3.2 based on the temporary nature of the structure.

Reason for alternative The seismic provision of the code requires structures to be designed to provide collapse protection for an earthquake with a 1% probability of exceedence over 50 years. Considerin the life of the structure at this site, an earthquake with an equivalent probability of occurance will be very small. Such an earthquake is unlikely to create any geologic hazards, with the exception of minor ground shaking. The structure is designed to resist such ground shaking.

APPEAL DECISION

- 1. Reduction of design wind load for temporary performance tent: Granted as proposed.
- 2. Reduction of design snow load for temporary performance tent: Granted as proposed.
- 3. Omission of engineered evaluation of site specific seismic geologic hazards for temporary performance tent: Granted as proposed.

Note: These appeals are granted for the temporary tents in place for this event only.

The Administrative Appeal Board finds that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

