

AGENDA

UBC COMMISSION
STRUCTURAL ADVISORY COMMITTEE

March 3, 2022 3:00 pm

This agenda is subject to change up to 24 hours prior to the meeting.

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1. Roll call
2. Approve the minutes from the February 3, 2022 meeting
3. Review current amendment to IBC Section 1905.1.9
4. Review current amendments for Chapter 16

Next Scheduled Meeting: as needed

Please call Sharon at 530-6163 or email ssmalley@utah.gov if you do not plan on attending this meeting.



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MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION
STRUCTURAL ADVISORY COMMITTEE
MEETING

February 3, 2022 3:00

CONVENED: 3:21

ADJOURNED 4:06

STAFF:

Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

COMMITTEE MEMBERS:

Jeremy Achter
Oliver Burt (absent)
John Saunders (absent)
Tyler Wright

Josh Blazzard, Commission Liaison
Patrick Tomasino
Brent Maxfield

VISITORS:

Robert Moyle

MINUTES

Following the discussion on the content of meeting minutes, a motion was made by Jeremy Achter to approve the minutes from the December 2, 2021 meeting as written. The motion was seconded by Brent Maxfield and passed unanimously.

REVIEW CURRENT AMENDMENT
TO IBC SECTION 1905.1.9

The committee agreed to postponed the discussion on this item until the March meeting so that Mr. Williams could attend and join the in on the discussion of this current amendment.

The meeting adjourned at 4:06.

P_{roof} = Design roof snow loads, P_f or P_s , psf

For the purpose of this section, snow load shall be assumed uniform on the horizontal projection without including the effects of drift or sliding. The Importance Factor, I , used in calculating P_f may be considered 1.0.

(3) In IBC, Section 1605.1 a new exception 4 is added as follows:

"4. ASCE 7-16 Section 2.3.6 Equation 6 shall be modified to $1.2D + E_v + E_h + L + f_2S$ and $1.2D + E_v + E_{mh} + L + f_2S$ with $f_2 = (0.20 + 0.025(A-5))$ where the roof snow load exceeds 30 pounds per square foot (1.44kN/m^2). Where A = Elevation above sea level at the location of the structure (ft/1000). $f_2 = 0$ for roof snow loads of 30 pounds per square foot (1.44kN/m^2) or less."

~~(4) In IBC, Section 1605.2, in the portion of the definition for the value of f_2 , the words "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 + .025(A-5)$ for other configurations where roof snow load exceeds 30 psf; $f_2 = 0$ for roof snow loads of 30 psf (1.44kN/m^2) or less.~~

~~Where A = Elevation above sea level at the location of the structure (ft./1,000)."~~

~~(5) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44kN/m^2) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30 pounds per square foot, the following in load combination shall be combined with seismic loads: $S = (0.20 + 0.025(A-5))P_f$ is greater than or equal to $0.20P_f$.~~

I don't think these apply to the 2021 IBC. The intent is that the new amendments 2 and 3 above should replace these two.

~~Where:~~

~~S = Weight of snow to be used in combination with seismic loads~~

~~A = Elevation above sea level at the location of the structure (ft./1,000)~~

~~P_f = Design roof snow load, psf.~~

~~For the purpose of this section, snow load shall be assumed uniform on the roof footprint without including the effects of drift or sliding. The Importance Factor, I , used in calculating P_f may be considered 1.0 for use in the formula for W_s ."~~

~~(6) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General. Except as modified in Sections 1608.1.1, and 1608.1.2, and 1608.1.3, design snow loads shall be determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less than that determined by Section 1607. Where the minimum live load, in accordance with Section 1607, is greater than the design roof snow load, p_f , the live load shall be used for design, but it may not be reduced to a load lower than the design roof snow load. Drifting need not be considered for design roof snow loads, p_f , less than 20 psf."~~

~~(7) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Ice dams and icicles along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 is deleted and replaced with the following: 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed 75 psf, eaves shall be capable of sustaining a uniformly distributed load of $2p_f$ on all overhanging portions. No other loads except dead loads shall be present on the roof when this uniformly distributed load is applied. All building exits under down-slope eaves shall be protected from sliding snow and ice."~~

~~(8) A new IBC, Section 1608.1.2, is added as follows: "1608.1.2 Thermal factor. The value for the thermal factor, C_t , used in calculation of p_f shall be determined from Table 7.3-2 in ASCE 7."~~