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RE: BC CALC® Building Code Reference

BC CALC® sizing software is intended for the component design of BCI® joists and VERSA-LAM® / BOISE GLULAM® beams, columns and studs, and is in accordance with the relative provisions stipulated in the 2009 International Building Code (IBC) and 2009 International Residential Code (IRC), including analysis, load combinations, and minimum deflection limits.

The 2009 IBC references ASCE 7-05 *Minimum Design Loads for Buildings and Other Structures* for design load determination. The 2015 IRC references an updated edition of this publication, ASCE 7-10. The only difference between the 2009 I-Codes (ASCE 7-05) and 2015 IRC (ASCE 7-10) that affects analysis within BC CALC® is the factor applied to wind load within the allowable stress load combinations in ASCE 7 (Section 2.4). ASCE 7-10 provisions provide a wind design load based on strength design, thus ASCE 7-10 applies a load reduction factor of 0.6 to all wind loads in each load combination listed in Section 2.4.1. BC CALC® currently follows ASCE 7-05, and thus the wind load reduction factor is 1.0.

If a program user inputs a wind load based on ASCE 7-10 provisions, the resulting analysis will be conservative. Please feel free to contact me at 888.234.0056 or [jeffolson@bc.com](mailto:jeffolson@bc.com) if there are further questions.

Sincerely,

A handwritten signature in dark ink that reads "Jeff K. Olson". The signature is fluid and cursive, with the first name "Jeff" and last name "Olson" clearly legible.

Jeffrey K. Olson, P.E  
Technical Services Manager  
Boise Cascade Engineered Wood Products