



Code Amendment Proposal Application **OSSC 22-05**

Department of Consumer & Business Services
Building Codes Division
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APPLICANT INFORMATION

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PROPOSAL INFORMATION

Specialty code:	Oregon Structural Specialty Code (OSSC)
Code section(s):	1603.1.4

Briefly explain the subject of your proposal:	This proposal removes a requirement for the engineer of record to provide wind pressure maps for all exterior elevations of buildings in the construction documents.
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Code Review Committee Outcomes
Nov. 9, 2021 – Tabled
Nov. 17, 2021 – Approved as modified by retaining the 2019 OSSC language.



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

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PART I – CODE AMENDMENT LANGUAGE

You must provide exact language for your code proposal. Failure to provide language will invalidate the application. Include all code sections that require changes and use the following format to show additions and deletions from the code — strikethrough for deleted text and underline and bold for new text.

Note: Where applicable, the proposed code language should show how the existing Oregon amendments will integrate with the base model code or if the proposal is rescinding an existing Oregon amendment. Any modification to the new model code should note or reflect any current Oregon amendments related to this language.

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1603.1.4 Wind Design Data

The following information related to wind loads shall be shown, regardless of whether wind loads governs the design of the lateral force resisting system of the structure.

1. Basic design wind Speed, V , miles per hour and ~~allowable stress wind design speed, V_{asd} , as determined in accordance with Section 1609.3.1.~~
2. Risk Category
3. Wind exposure. Applicable wind direction if more than one wind exposure is utilized.
4. Applicable internal pressure coefficient.
5. ~~Design wind pressures and their applicable zones with dimensions to used for exterior components and cladding materials not specifically designed by the registered design professional responsible for the design of the structure, pounds per square foot (kN/m^2)~~

PART II – CODE AMENDMENT PROPOSAL REQUIREMENTS

Generally, proposals should only suggest amending the technical and scientific matters within the scope of the specialty code. Administrative matters are adopted and amended to align with statutes and rules governing the state building code.

Those administrative matters not regulated by a specialty code, include, but are not limited to:

- Licensing or certification requirements, or other qualifications and standards for businesses or workers;
- Structure or equipment maintenance requirements;
- Matters that conflict with federal or state law; and,
- Matters that conflict with other specialty codes or publications adopted by the division.

Review the statutes and rules governing the state building code and ensure that your proposal is enforceable by the specialty code for which you are proposing an amendment.

PART III – CODE AMENDMENT PROPOSAL CRITERIA

Code amendment proposals must conform to the requirements in ORS 455.020, ORS 455.030, ORS 455.110, and OAR 918-008-0060. All proposals must provide justification and the particular circumstances requiring the amendments. View the proposal criteria on page 3 of this application.

Code Amendment Proposal Criteria

Proposal

1. Describe the concept and purpose of this proposal.

This proposal strikes language from model code which requires a detailed map of wind pressures to be provided by the EOR for bidder design cladding design.

2. What problem in the existing Oregon code or national model code is this proposal solving? How does this amendment address the issue? If you have evidence demonstrating the problem, submit that information.
 - a) If this proposal corrects any unforeseen or probable outcomes resulting from the application of a code section, explain how.
 - b) If this proposal corrects inadequate application by a code section to a method, material or design, explain how.
 - c) If this proposal eliminates conflicting, obsolete, or duplicative code provisions or standards between Oregon-adopted codes, statutes or regulations, explain why.
 - d) If this proposal is for a fire or life safety matter, or is it otherwise needed to protect the health, safety, welfare, comfort and security of occupants and the public, explain why.
 - e) If this proposal is necessary to address unique geographic or climatic conditions within Oregon, explain why.
 - f) If there are alternatives to this proposal that solve the problem, explain why this proposal is the best or a necessary solution.
 - g) If this proposal provides for the use of unique or emerging technologies, or promotes advances in construction methods, devices, materials and techniques, explain how.
 - h) If this proposal meets any energy conservation or indoor air quality requirements, explain how.
 - i) If this proposal involves the adoption of an electrical or plumbing building product, note if the appropriate advisory board approved the product.

This provision requires the engineer of record (EOR) to provide elevations of all exterior building surfaces and calculate the wind pressures for each wind pressure zone. When the exterior system is a bidder designed system, this requires the engineer of record to take on the responsibility and assume the liability of the cladding system design which is not the intent of bidder designed scope. This is further complicated by the fact that wind pressures vary by tributary area, which makes documenting these conditions extremely complicated and time consuming. The modifications to the code require the EOR to provide basic wind data (often done in the general structural notes) which can be used by all bidder designed engineers. These engineers are required to be licensed professional engineers and should be able to take this information and design their cladding system for the required loads per OSSC/ASCE7.

3. Has this been proposed at the national model code level. If so, explain when it was proposed, what happened, and why it was not adopted. Provide all associated national model code hearing information and background.

No, however it will be in future code cycles

Implementation And Fiscal Impact

1. Explain how the proposed provisions would be enforced? Are additional inspections or permits required? Describe any necessary equipment, training, tests or special certifications.

This is enforced by the plans examiner. No special training is required.

2. What is the fiscal impact of this proposal? Provide a cost benefit analysis and include the resources or methods you used to determine the fiscal impact.
 - a) If this proposal adds to the cost of construction, explain how the added cost contributes to the health and safety of occupants, or is necessary to conserve scarce resources.
 - b) If there are any other adverse fiscal impacts or cost savings passed on to the general public, the construction industry, local and state governments, and small businesses, an interested person must describe the added or reduced cost of a proposed code amendment, and describe the adverse fiscal impact or cost savings in relation to the current Oregon specialty code.
 - c) If this proposal will affect the cost of development of a detached single-family dwelling, please indicate the cost. For the purposes of illustrating the change on the cost, please use a 6,000-square-foot parcel and the construction of a 1,200-square-foot detached single-family dwelling on that parcel. The information on the cost must be sufficient to assist the division in preparing a housing cost impact statement.

This will increase the design costs for the EOR as documenting this can be time consuming and complicated (especially for smaller renovation projects). This should not change construction costs as the design wind pressures are not changed.

Impacted Stakeholders And Other Specialty Codes

1. It is important that proposals be shared with stakeholders that will be impacted by them. Was this proposal developed with people or organizations likely to be affected by it? Has it been reviewed or shared with people or organizations likely to be affected by it? If so, who, and if not, why not?

This proposal has been developed by the Structural Engineers of Oregon.

2. Does this proposal impact other specialty codes or statewide programs?

No