

## Engineered Roof Truss and Floor Joists in Part 9 Buildings under the Manitoba Building Code

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The purpose of this bulletin is to clarify the Manitoba Building Code administrative documentation requirements for engineered roof trusses and floor joists in Part 9 buildings that are required to be designed by a professional engineer.

“Land authorities” for the purpose of this document includes municipalities, planning districts, provincial parks and land regulated by Indigenous Reconciliation and Northern Relations (IRNR).

### Manitoba Building Code structural documentation requirements

Division C, Part 2 Administrative Provisions, under the Manitoba Building Code, contains the following requirements for structural drawings and related documents for designs under Part 4 of Division B:

#### **2.2.4.2. Seal and Signature of Professional Engineer**

1) Structural drawings and related documents submitted with the application to build a *building* shall be dated and shall bear the authorized professional seal and signature of a *professional engineer* skilled in the work concerned.

### Manitoba Engineering and Geoscientific Professions Act, Authentication of Documents

Under section 26 of the Manitoba Engineering and Geoscientific Professions Act, members, specified scope of practice licensees, and temporary licensees regulated by Engineers Geoscientists Manitoba must authenticate every engineering or geoscientific estimate, specification, report, working drawing, plan and other engineering or geoscientific document they issue.

### Floor joist and roof truss designs with Part 9 building applications

Under the Manitoba Building Code, any designed floor system using manufactured joists, must be designed by a professional engineer skilled the work concerned, in accordance with Division B, Part 4 Structural Design.

Roof trusses designed in accordance with “good engineering practice” as per Sentence 9.23.14.11(1), or in accordance with Division B, Part 4 Structural Design, must also be designed by a professional engineer skilled in the work concerned.

Further, based on the requirements of Sentence 9.23.14.11.(2), the joint connections used in wood roof trusses must be designed in accordance with Subsection 4.3.1, which requires that the designer be a professional engineer skilled in the work concerned.

Therefore, designed floor systems, as well as wood roof trusses, used in Part 9 buildings, including dwellings, are required to be designed by a professional engineer (see Note A-9.23.14.11.(2)). Any design drawings and accompanying documentation submitted as part of a building application must be appropriately dated, signed and sealed by the engineer.

As application and documentation requirements vary across jurisdictions, please consult with the land authority for any permit requirements and supporting manufacturer's, engineering or other documentation.

### **Further information**

- Please contact the Building Code Section of Inspection and Technical Services at 204-945-3398 with any questions or for clarifications regarding this bulletin.
- Please contact your land authority for questions regarding permitting application and documentation requirements.
- Refer to ITS 22-011 for additional information on the Roles and Responsibilities within the Buildings Act.