Agency Name: Building Codes Council - Labor, Licensing and Regulation

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Subject: IRC Section R802.10.1 Wood Truss Design

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S 01/10/2017 Referred to Committee

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provided for in the Regulation

Document No. 4718

**DEPARTMENT OF LABOR, LICENSING AND REGULATION**

**BUILDING CODES COUNCIL**

Chapter 8

Statutory Authority: 1976 Code Sections 6‑8‑20, 6‑9‑40, 6‑9‑63(E), and 40‑1‑70

8‑1222. IRC Section R802.10.1 Wood Truss Design.

**Synopsis:**

The South Carolina Building Codes Council proposes to correct a scrivener’s error in Regulation 8‑1222 which was amended in the 2016 Legislative Session.

A Notice of Drafting was published in the *State Register* on September 23, 2016.

**Instructions:**

Regulation 8-1222 is amended as shown below.

**Text:**

8‑1222. IRC Section R802.10.1 Wood Truss Design.

Truss design drawings, prepared in conformance to Section R802.10.1 shall be provided to the building official at the time of their inspection. Truss design drawings shall be provided with the shipment of trusses delivered to the job site. Truss design drawings shall include, at a minimum, the following information:

1. Slope or depth, span and spacing.

2. Location of all joints.

3. Required bearing widths.

4. Design loads as applicable.

4.1. Top chord live load (as determined from Section R301.6).

4.2. Top chord dead load.

4.3. Bottom chord live load.

4.4. Bottom chord dead load.

4.5. Concentrated loads and their points of application.

4.6. Controlling wind and earthquake loads.

5. Adjustments to lumber and joint connector design values for conditions of use.

6. Each reaction force and direction.

7. Joint connector type and description such as size, thickness or gage and the dimensioned location of each joint connector except where symmetrically located relative to the joint interface.

8. Lumber size, species and *grade for each member.*

9. Connection requirements for:

9.1. Truss to girder‑truss.

9.2. Truss ply to ply.

9.3. Field splices.

10. Calculated deflection ratio and/or maximum description for live and total load.

11. Maximum axial compression forces in the truss members to enable the building designer to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss design drawing or on supplemental documents.

12. Required permanent truss member bracing location.

**Fiscal Impact Statement:**

There will be no cost incurred by the State or any of its political subdivisions for these regulations.

**Statement of Rationale:**

The updated regulations will correct a scrivener’s error in Regulation 8‑1222.