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

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Subject: IRC Section R502.11.4 Truss design

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- 01/10/2017 Received by Lt. Gov & Speaker 05/10/2017

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S 01/10/2017 Referred to Committee

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Document No. 4716

**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

8‑1218. IRC Section R502.11.4 Truss design.

**Synopsis:**

The South Carolina Building Codes Council proposes to correct a scrivener’s error in Regulation 8-1218.

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

**Instructions:**

Regulation 8-1218 is amended as shown below.

**Text:**

8-1218. IRC Section R502.11.4 Truss design.

Truss design drawings. Truss design drawings, prepared in compliance with Section R502.11.1, shall be provided to the building official at the time of 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 information specified as follows:

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.

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, e.g., size, thickness or gauge, 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; and

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 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 8-1218.