



## **TOPIC: Calculated fire protection of wood members**

**Related Code Section: 2014 OSSC 703.3, 722.1 and 2018 ANSI/AF&PA NDS**

**QUESTION:** What are options available for determining the fire protection rating of wood columns, beams, and solid wood decking without requiring approval by the Appeals Board?

**RESPONSE:** These options are applicable to fully exposed, partially exposed, and concealed wood structural members in structures governed by the OSSC and ORSC.

1. Provide a char calculation to confirm fire protection of wood beams, columns, and decking per 2018 NDS Chapter 16/ Technical Report No. 10.
2. Add layers of 5/8" Type X gyp board directly to the solid, laminated (e.g. glulam), or composite (e.g. 3 2x12's) beams and posts for 30 minutes of fire protection per layer up to 1 hour.
3. Provide an analysis of fire protection for up to 2 hours achieved by adding layers of gypsum combined with char calculation times following the methods in 2018 NDS Chapter 16/ Technical Report No. 10 signed by a licensed structural engineer, fire protection engineer, or architect.

**Change History:**

Effective Date	Significant Changes	Employee Name
3/28/2019	Implementation	Terry Whitehill