



Washington State Building Code Council

Improving the built environment by promoting health, safety and welfare

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STATE BUILDING CODE INTERPRETATION NO. 16-04

CODE: 2015 International Residential Code

SECTION: M1505/Overhead Exhaust Hoods

QUESTION 1: Is it the intention of this amendment that it would allow a broiler unit (broiler defined as a BBQ in International Fuel Gas Code Section 202) to be installed outside the building envelope under a combustible roof cover in such a manner that it provides an alternative to the manufactures installation instructions for broilers where the manufacturer's instructions do not allow combustible materials above the broiler?

ANSWER 1: **No. The intent of the state amendment to IRC1505.1 is to allow an outdoor broiler unit without the overhead exhaust hood. If the manufacturer prohibits combustible materials above the unit, that would apply. The 5 foot minimum separation would also apply.**

QUESTION 2: Where the amendment states, "the cooking surface at least 5'0" below a 1-hour fire resistance rated ceiling"; is it the intention that the "1-hr fire resistance rated ceiling" be a 1-hour roof-ceiling assembly? A 1-hour rated roof-ceiling assembly on the side protecting the combustible ceiling from below can typically be accomplished with 5/8" Type-X gypsum attached to the underside of solid wood joists or 2 layers of 5/8" gypsum attached to TGIs.

ANSWER 2: **No. The language does not indicate the ceiling must be rated as an assembly.**

QUESTION 3: Is the fire resistant ceiling required only directly over the broiler, or to extend past the footprint of the broiler or the entire ceiling?

ANSWER 3: **The 1-hour rating applies to the ceiling on the underside, for an area above the cooking surface. The surface above the broiler must be protected.**

QUESTION 4: Are the structural members supporting the fire resistant rated ceiling (or roof-ceiling) required to be protected with a similar fire-resistance rated assembly down to the ground?

ANSWER 4: **No.**

QUESTION 5: Due to the amendment being silent regarding non-combustibles, can it be assumed that the intent of the amendment is non-combustibles above the broiler are only required on the underside of the gypsum of the rated ceiling or can combustibles be installed on the gypsum above the broiler to the underside of the rated ceiling?

ANSWER 5: **Yes, the intent is to allow only non-combustibles on the ceiling above the broiler.**

SUPERSEDES: None

REQUESTED BY: City of Bellevue