



520 Hz notification in R1 and R2 Occupancies

External

Background –

With the adoption of the 2022 Oregon Structural Specialty Code that became mandatory on April 1, 2023, R1 and R2 occupancies that are required to have a fire alarm system by 907.2.8 and 907.2.9 are required to provide alarm notification at 520 Hz in sleeping rooms per 907.5.2.1.3.2

907.5.2.1.3.2 Smoke alarm signal in sleeping rooms

In sleeping rooms of Group R-1 and R-2 occupancies that are required by 907.2.8 or 907.2.9 to have fire alarm system, the audible alarm signal activated by single- or multiple station smoke alarms in the dwelling unit or sleeping unit shall be 520-Hz signal complying with NFPA 72. Where a sleeping room smoke alarm is unable to produce a 520-Hz signal the 520-Hz alarm signal shall be provided by a listed notification appliance or a smoke detector with integral 520-Hz sounder.

907.2.11 Requires single or multiple-station alarms in these spaces

There are currently no single or multiple-station smoke alarms available on the market that meet the 520 Hz sound frequency requirement.

Policy –

Since 520 Hz audible alarms are available for fire alarm systems, fire alarm notification shall be provided at the locations required in 907.5.2.1.3.2 and shall activate all alarms in the dwelling unit using the fire alarm system or single and multiple-station alarms when available.

Effective Date –

This policy will apply to all permits applications as April 1, 2025 (Permit # 202502000) Permits applied for prior to this date can use regular frequency single and multi-station fire alarms but the notification connected to the fire alarm system required by 907.5.2.1.3.1 is required to meet the 520 Hz requirement.

