



TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: www.frtw.com or 1.800.TEC.WOOD (832.9663)

FASTENER RECOMMENDATIONS

PyroGuard™ Interior Fire-Retardant-Treated Wood

Treatment with **PyroGuard™** does not cause fasteners to corrode. Corrosion is caused by wetting from rainfall or other sources. **PyroGuard™** treatment is not significantly more hygroscopic than untreated wood.

International Building Code (IBC) Section 2304.10.5.4* states - **Fasteners for fire-retardant-treated wood used in interior applications.** Fasteners, including nuts and washers, for *fire-retardant-treated wood* used in interior locations shall be in accordance with the manufacturer's recommendations. In absence of manufacturer's recommendations, Section 2304.10.5.3* shall apply.

In accordance with IBC 2304.10.5.4*, Hoover recommends the following:

- Per UL Evaluation Report UL ER7002-01 section 5.3 - Fasteners made from aluminum, carbon steel, galvanized (zinc) steel, copper or red brass are acceptable.
- When **PyroGuard™** fire-retardant-treated wood products are used and installed in code compliant interior enclosed dry applications, not exposed to dampness or wetting, uncoated carbon steel fasteners are acceptable.
- It is suggested, but not required, that carbon steel fasteners be plated or coated.
- As stated in IBC 2304.10.5.3 stainless steel or silicon bronze fasteners are also permitted.

Plywood Fasteners Size and Spacing:

Fastener size and spacing must be as required in the applicable building code for untreated plywood of the same thickness; except that roof sheathing must be fastened with

1. Minimum 8d common or 8d deformed shank nails spaced a maximum 6 inches o.c. at edges with all nails at least 3/8 inch from panel ends and 3/8 inch from panel edges and a maximum of 12 inches o.c. at intermediate supports for panels on 24- and 32-inch spans and spaced a maximum of 6 inches o.c. on all supports for panels on a 48-inch span, or
2. Other fasteners with comparable withdrawal and lateral load capacities at the same maximum spacing.
3. For 1-1/8-inch roof sheathing panels, minimum 10d common or deformed shank nails must be used.

For unblocked roof diaphragms panel edge clips are required for roof sheathing: one midway between supports for 24-inch and 32-inch spans, and two at 1/3 points between supports for 48-inch span. Clips must be specifically manufactured for the plywood thickness used.

**Code reference sections are from 2015 edition of the IBC. Sections 2403.10.5.3 and 2403.10.5.4 are 2304.9.5.3 and 2403.9.5.4 in the 2012 and 2009 editions.*