



Technical Memorandum
Fasteners and D-blaze® treated lumber and plywood
April 30, 2014

Section 3.4 of ICC-ES Evaluation Report 2645 which relates to D-Blaze® Treated lumber and Plywood states the following :

3.4 Corrosion:

The corrosion rate of aluminum (2024-T3), carbon steel (SAE 1010), or galvanized steel in contact with wood is not increased by D-Blaze® fire-retardant treatment when the product is used as recommended by the manufacturer.

Language in Section 4.2 of the same document goes on to state the following about fasteners:

4.2 Fasteners:

Fasteners used in D-Blaze® fire-retardant-treated wood must be galvanized steel, stainless steel, silicon bronze or copper, in accordance with 2009 and 2006 IBC Section 2304.9.5, 2009 IRC Section R317.3 or 2006 IRC Section R319.3

D-blaze is intended for use in dry interior applications protected from the weather. Given the fact that corrosion of treated wood is not a significant issue provided that it is kept dry the two sections of the ESR appear to be inconsistent. In 2012 Viance contacted Mr Michael O'Reardon Regional Manager of the ICC-ES Birmingham office for clarification of this issue. Mr O'Reardon's response by Email is copied below:

*From: Michael O'Reardon [mailto:mo'reardon@icc-es.org]
Sent: Monday, May 21, 2012 5:15 PM
To: Archer, Kevin
Subject: ESR-2645*

Kevin:

I have reviewed your evaluation report for D-Blaze FRTW concerning the types of fasteners that may be used with your product. Section 3.4 of ESR-2645 states that carbon steel is not affected by D-Blaze fire-retardant treatment. Section

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4.2 for fasteners refers to Section 2304.9.5 of the 2009 International Building Code that covers FRTW use in exterior damp Locations (Section 2304.9.5 IBC) and interior applications (2304.9.5.4 IBC). When installed in interior applications the fasteners shall be in accordance with the manufacture's recommendations. Use of carbon steel fasteners may be permitted for interior applications of D-Blaze fire-retardant treated wood based on Section 3.4 of ESR-2645 and Section 2304.9.5.4 of the 2009 IBC provided your company is in agreement.

Please note that the final approval of your product is the responsibility of the Local code official.

Please contact me if you have any questions.

Michael O'Reardon, P.E., C.B.O., M.C.P.

Regional Manager

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Viance agrees with, and supports Mr O'Reardon's conclusions, provided that the D-Blaze treated lumber and plywood is used in an interior environment protected from the weather in accordance with Viance Instructions.

Kevin Archer
Director Research and Development

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