



March 3, 2016

Attn: Mr. David Paulo
Fire Retardant Coatings of Texas, LLC
1150 Blue Mound Rd. West #403
Halset, TX 76052

Phone: (817) 710-5233
Fax: (817) 439-8385

RE: Structural Integrity of lumber treated
w/FX Lumber Guard/FX Lumber Guard XT
Fire Retardant Wood Coatings

SEI Project Number: 16073.00

Dear Mr. Paulo:

Structural Enginuity Inc. (SEI) submits this letter to address the structural integrity of engineered lumber, sawn wood lumber, dimensional sheathing and/or plywood sheathing products that have an applied coating of Fire Retardant Coatings of Texas, LLC's (FRCT) FX Lumber Guard or FX Lumber Guard XT fire retardant products.

FX Lumber Guard and FX Lumber Guard XT are post applied products that are non-invasive such that they are a spray-on fire retardant that is not impregnated into the wood like typical vacuum impregnated fire retardant products. Vacuum impregnated fire retardant products deeply penetrate the grains of the lumber and cause a faster pyrolysis reaction due to the acidity of the fire retardant chemicals that enable thermal decomposition to occur at lower temperatures. The topically applied application of FX Lumber Guard / FX Lumber Guard XT penetrant does not affect the composition of the substrate (engineered lumber, sawn lumber, or sheathing it is applied to). Due to the less invasive application than the vacuum impregnated method, ASTM D5664 Structural Strength Testing of the FX Lumber Guard and FX Lumber Guard XT is not required by certified testing agencies such as Intertek or ICC.

Therefore, based on standardized strength testing not being required, and a spray-on application limiting the effects and depth of degradation of the wood lumber compared to chemically impregnated fire treated lumber, the above referenced Intertek Certified and Listed¹ FRCT products create no structural deficiencies in the wood characteristics, as specified in the National Design Specification for Wood Construction, of wood lumber and plywood products.

Should you have any questions, please do not hesitate to contact me.

Sincerely,

Mark A. Tryon, P.E.
Vice President/Founder
mtryon@structuralenginuityinc.com



3/3/16

Structural Enginuity Inc.

SEI TX COA NO. 16419

(1 – Intertek Warnock Hersey Certification is the equivalent to “UL Certification” and Intertek Code Compliance Research Report is the equivalent to “ICC-ESR”)