

# TECHNICAL BULLETIN

## Supercast Material: Non-Combustibility

With the release of the Tavern Mantel series, our GFRC (glass fiber reinforced concrete) or Supercast material went through verification of its performance in high-heat applications. Since it is a concrete product there was not concern over its combustibility; however, this testing was performed as an additional measure of safety for our customers.

The standard that controls combustibility of materials is ASTM E136-16, which tests materials in a furnace up to 750°C (1382°F). When the samples of our Supercast material were tested by UL (Underwriter's Laboratory), they looked for ignition of the material and also weight loss to determine if the material was combustible.

Our Supercast material met and exceeded the requirements set by the standard. This means that in all applications (fire pit tops, Tavern Mantels, fireplace surrounds, etc.) our Supercast material can be safely and officially considered non-combustible.

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## 4/8/2016: GWMT-60 and GWMT-72 Load Testing

As part of the consumer safety testing for the new Tavern Mantel series, the mantels were subjected to a two different loading scenarios on a test wall of standard construction (16" on-center studs and 8' height).

The first loading was considered a "functional load". This was a timed test lasting 15 minutes and consisted of 2.5 lbs. for every inch of width. This equates to 150 lbs. for the GWMT-60 and 180 lbs. for the GWMT-72. Both mantels easily passed this requirement, in fact the GWMT-60 actually hung on the wall with the functional load of 150 lbs. in place for 3 weeks.

The second loading was considered a "proof load". This was also a timed test lasting 5 minutes and consisted of 5 lbs. for every inch of width, which equates to 300 lbs. for the GWMT-60 and 360 lbs. for the GWMT-72. Once again, both mantels had no problems passing this requirement with the provided standard mounting hardware.