

November 12, 2013

To Whom It May Concern,

RE: Structural Engineer's Preliminary Review and Comments

Subject: Titan Brick

This office has recently been provided with an introduction to a construction product known as Titan Brick. Although we do not have years of experience with this particular product in our residential or commercial designs, we have done some limited research into the certifications and utilization of the product.

The primary design of residential and light commercial foundations in this part of Texas is the conventional steel or the post tension cable steel re-enforced slab-on-grade foundation. However since these shallow foundations are often constructed on very expansive or vertically unstable soils so common to Texas, some degree of foundation movement frequently occurs. This propensity for vertical movement of the foundation is then translated into the vertical walls that it supports. The 16 to 24-inch spaced wall studs then incur various forms of undesirable distortion. However it is our belief that the very nature of the Titan brick's interlocking configuration coupled with the prescribed *bonding* process of the bricks should provide significant increase in rigidity to the overall superstructure. Simple logic confirms the solid mass of the constructed Titan wall would have to be many times stronger than the conventional wood framing and stronger than the standard mortared masonry veneers.

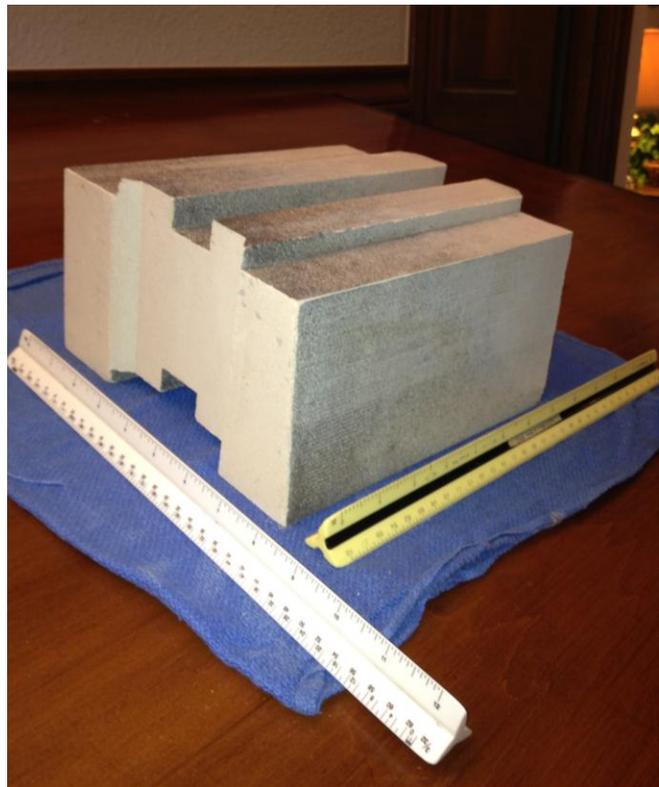


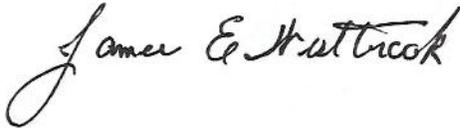
Fig. 1 Titan Brick Example (large). Illustration above shows 8-inch width but unit is also available in the narrower 4-1/2 inch width.

It is our understanding that authorities in the state of Florida have reported that this specific product meets with applicable ASTM standards and ICC (International Code Council) certification is being pursued. Additionally extensive testing and common sense confirms the obvious surpassing of *thermal* and *acoustic* insulation properties that the Titan structure will have over the conventional wood framing. The physical properties obviously have tremendous value when considerations are given to *fire* insurance and *termites*.

When the above mentioned features and many other related features are considered in to the construction cost, we believe consideration for utilization of the Titan product in residential and/or commercial construction should be taken very seriously.

Thank you for your attention to this engineer's observations on the subject product. We would welcome your comments on this product. However detailed inquiries might be more appropriately directed to the web site www.titanbrick.com or the product developer, Mr. Don Blalock at (843) 851-2830.

Respectfully,

A handwritten signature in black ink that reads "James E. Westbrook". The signature is written in a cursive style with a large, looping initial "J".

James E. Westbrook, PE