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“Americhanvre achieves one hour fire resistance rating with the Eready Spray Applied Hempcrete System via ASTM E119”

For Immediate Release:

On Tuesday, July 9th, 2024, Americhanvre executed the United States first full-scale ASTM E119 fire resistance test on a hempcrete wall sample at Intertek in York, PA. The construction of the wall section consisted of twelve inches of Eready Spray Applied Hempcrete installed around a central frame with lime plaster on both the interior (exposure) and exterior of the test panel. The wall section was exposed to 1700-degree F heat for sixty minutes, under load, and was then subjected to a hose stream test. The test sample survived both the firing and subsequent hose stream test resulting in a successful test and forthcoming one hour fire resistance rating.

“This result is confirmation of a widely held belief in the hemp building community – the impressive fire resistance characteristics of a well-built hempcrete home. Our faith in the material has been built on reports from our colleagues and related testing in Europe, however the execution of this test will serve to unlock the commercial potential for the Eready hempcrete system in the U.S. construction market as we now have definitive proof of the material’s performance. Despite my own long held conviction, it was breathtaking to observe, in real time, the data returning to the control room regarding the sensors on the exterior (unexposed) side of the panel and how that face never rose a single degree above ambient temperature, despite the intense heat on the other side. It was incredibly compelling to witness, and we predict these results will have a positive impact for the entire industry.” – Cameron McIntosh, Americhanvre Owner, Principal Investigator

The wall construction detail for the sample followed closely both the larger IRC index and the recently published Appendix BL for Hemp Lime construction. It is the first of four full scale ASTM E119 fire resistance tests that Americhanvre will be performing on the Eready System via funding from a direct to phase II U.S. Army SBIR award. Engineering support for this effort was provided by Verdant Structural Engineers. Americhanvre was also supported by our colleague Karen Rugg with Perennial Building who provided their recent lab-scale ASTM E-119 report for our team to review prior to our full-scale test.

Sincerely,

Cameron A. McIntosh
President and Principal Owner