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Revisions Enhance ICC-ES AC509 to Include Multi-Story Building Construction

Proof of code compliance for emerging 3D automated construction technology is crucial to building safety

Brea, CA – ICC Evaluation Service (ICC-ES) recently revised its Acceptance Criteria (AC) 509 for *3D Automated Construction Technology for 3D Concrete Walls* to include provisions for multi-story construction. AC509 establishes guidelines for evaluation of the material and durability properties of proprietary 3D concrete and the structural performance and fire-resistance of 3D concrete walls.

Large scale 3D construction printing has been gaining in popularity, and has the potential to help governments and businesses address a number of infrastructure needs including closing the gap on affordable housing deficits, speeding up disaster recovery efforts and providing more value to much-needed infrastructure improvements throughout the world.



3D printed concrete wall construction (photo courtesy of Black Buffalo 3D)

"As new and innovative approaches to construction are explored, building code compliance continues to be a priority for the safety of our citizens," said ICC-ES President Shahin Moinian, P.E. "An ICC-ES AC509 report gives code officials peace of mind while approving such a method of construction, knowing the product has met the rigorous requirements of ICC-ES."

A key proponent for the latest revisions to AC509 was [Black Buffalo 3D](#) Corporation, a provider of large scale 3D printers for construction and a member of HN Group.

"Working with the ICC-ES team on the AC revisions was an important step in advancing the 3D construction printing industry and a positive experience," said Michael Woods, CEO and COO, Black Buffalo 3D. "We continue to invest in our

3D printers to increase the awareness, efficiency, and utility of additive manufacturing in the construction industry. I look forward to working with Dr. Mahmut Ekenel, Manuel Chan and the rest of the ICC-ES team during the testing phase of the certification process.”

[Learn more](#) about ICC-ES Acceptance Criteria development. ICC-ES encourages manufacturers to comply with the most current codes to increase market acceptance.

For more information about updating your product’s compliance to the current codes, contact ICC-ES at 800-423-6587 or es@icc-es.org.

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About ICC-ES

A nonprofit, limited liability company, ICC-ES is the United States’ leading evaluation service for innovative building materials, components and systems. ICC-ES [Evaluation Reports](#) (ESRs), [Building Product Listings](#) and [PMG Listings](#) provide evidence that products and systems meet requirements of codes and technical standards. The ICC-ES Environmental Programs issue VAR environmental reports that verify a product meets specific sustainability targets defined by today’s codes, standards, green rating systems and ICC-ES [environmental criteria](#). ICC-ES is a member of the [ICC](#) family of solutions.



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