

STANDARDIZATION OF 3D PRINTING

WINSUN 3D Builders Africa announces kick-off international standardization of 3D printing materials and technology | Shanghai, August 3 2019 | By Winsun 3D Builders Africa Ltd Staff

The technology press conference was held in one of the seven buildings that are planned to be constructed as a research center, using Winsun's 3D construction printing technology.

Mrs Ye Beihong, Senior engineer of Shanghai Academy of Building Research institute, presented a session during the recently concluded Winsun 3D technology press conference in Shanghai. During the session, Mrs Ye presented the technical results of the research conducted on the additive manufacturing (3D printing) materials (Ink) and other 3D products produced by Winsun (Yingchuang Building Techniques). She mentioned that they have formulated the standards applied to enterprises so far. The first thing is that the Ink and we have already prepared the standards for printed wall structures for the standard. The 3D printing material of Winsun can reach the highest strength of C60. In addition to strength we have also studied the bending resistance and anti-freezing properties the insulation system of 3D printed exterior walls. We think that Winsun's products have their strength. These are our existing enterprise standards and we plan to move forward to work out national and international standards for 3D construction.

The session presented by Mrs Ye showed the process followed to develop the technical standards for printing ink, printing structures and printing wall panels. The research was conducted collaboratively by several organizations, such as user communities, interest groups, standards organizations and government. The research was conducted on the performance of the 3D structure under the following conditions, stress impact, weather impact, water intrusion, fire, sound penetration and heat transfer.

Comments

Mr Joseph Faluyi, the President and CEO of Winsun 3D Builders Africa, commented: "From the report, it clearly shows that the future of our cities is safer with 3D construction. Setting standards such as this will create technical enforcement for other player in the 3D construction printing industry to follow and ensure consistency in the quality of the structures"

Mr Ma Yihe, the chairman of WinSun, spoke at the ceremony, where he emphasized the challenges that our world is facing and the value that the technology can provide in salvaging it. "Standardization will further accelerate the development of our construction 3D printing technology in the world and help drive the integration of construction 3D printing technology into planning, architecture and design." Winsun holds about 225 patents relating to 3D materials and designs, some of which are glass-fibre reinforced gypsum, and Crazy Magic Stone.

According to Eric Hoefmans, COO of 3D Builders Africa, in the future the 3D printing technique will be used in developing regions in Africa, which will be based on global and local standards that are developed today. It will help to speed up the adoption of technology in Africa.

Winsun 3D Builders Africa will discuss the results with local authorities in Nigeria, like the Nigerian Building and Road Research Institute (NBRRI), which is the authority within the Government of Nigeria that is responsible for researching and developing road and building, to ensure alignment with local standards,

The Nigerian structural engineering consultancy firm Etteh Aro and Partners Consulting Engineers commented that it very good that winsun is investing in research and setting standards for 3D construction. "This will enable our architects, designers, builders, engineers, etc to learn more about the possibilities and start integrating the 3D construction methods and products into new projects.



Image: The kick-off of global development of a standard for 3D construction printing materials and technology.

Headquartered in Nigeria, Winsun 3D Builders Africa is the pioneer that brings 3D construction printing to Africa and Winsun is one of the leading 3D printing companies for buildings in the world.

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