

FBR completes first two storey structure using Hadrian X®

Highlights

- FBR completes construction of first two storey structure using the Hadrian X®
- Structure built using rebar, reinforced concrete pillars and suspended slab
- Demonstrates FBR's ability to service large global markets, including seismic areas

Tuesday, 27 October 2020 – Robotic technology company **FBR Limited (ASX:FBR)** ('FBR' or 'the Company') is pleased to advise that the Company has completed construction of its first two storey structure using the Hadrian X® construction robot.

The structure was built on FBR's premises in a building style commonly found around the world in developing markets, including in key FBR markets such as Mexico, the MENA and GCC region and throughout Asia. This is the first time FBR has demonstrated the Hadrian X®'s ability to build two storey structures, as well as working with design elements like steel reinforced concrete columns, suspended concrete slabs and rebar.

Starter bars were inserted into the concrete slab, with couplers used to install rebar through the aligned cores of the blocks and concrete manually poured into the cores. Steel cages were inserted into the block columns built by the Hadrian X®, with a concrete pump used to fill the columns.

FBR crane-lifted a precast concrete slab onto the structure the day after the first storey was completed, with the Hadrian X® commencing building of the second storey immediately after the crane left FBR's premises. In large greenfields developments it is likely the Hadrian X® would continue building the first levels of the adjacent buildings in the development while the second storey slabs are formed and poured, before returning to build the second storey of each structure once the slabs have cured.



ASX Announcement FBR Limited



FBR's Managing Director & Chief Executive Officer, Mike Pivac: "The completion of our first two storey build is a significant step in the commercialisation of our robotic construction technology. In many parts of the world our customers want to be able to build two storey structures safely, quickly and efficiently, and we have now demonstrated that the Hadrian X[®] can deliver on those customer needs. We have also taken this opportunity to demonstrate our ability to work a range of design elements like steel reinforced concrete columns, which may be required in certain geographies due to factors such as seismic activity, weather patterns or custom."

A video capturing the construction of the two storey structure can be viewed at the following link:
<https://youtu.be/l101yRZ02Fg>

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About FBR Limited

FBR Limited (ASX:FBR) designs, develops and builds dynamically stabilised robots to address global needs. These robots are designed to work outdoors using the company's core Dynamic Stabilisation Technology[®] (DST[®]). FBR is commercialising products for the construction sector together with DST[®]-enabled solutions for other industries.

The first application of DST[®] is the Hadrian X[®], a bricklaying robot designed to build structural walls faster, safer, more accurately and with less wastage than traditional manual methods. The Hadrian X[®] will provide Wall as a Service[®], FBR's unique commercial offering, to builders on demand.

To learn more please visit www.fbr.com.au

