

STRONGFLOOR & STRONGBEAM COMPOSITE SYSTEMS PRODUCT UPDATE



COMPOSITE SYSTEMS

STRENGTH. STABILITY. DURABILITY.

Viridi Group is excited to share the latest updates on our innovative building products, StrongBeam. StrongBeam is a timber-concrete composite band beam designed to work seamlessly with our StrongFloor floor system. We have been engaged in an extensive structural testing program with our partners at Holmes Solutions in Christchurch, and the results of the first tests have exceeded our expectations.

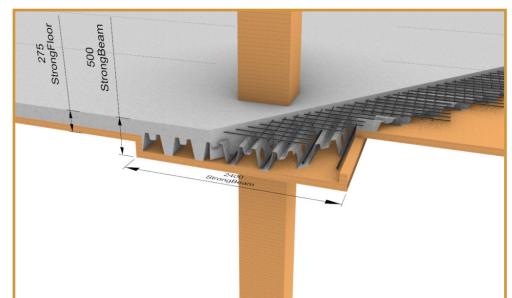
StrongBeam has demonstrated a very high degree of composite behaviour between the concrete and timber, with an ultimate load capacity around 250% above the service design load. Additionally, the StrongFloor system has undergone further testing to validate other improvements, resulting in significant extra strength and stiffness, allowing us to support spans in excess of 9m with no back-propping.

The combination of StrongBeam and StrongFloor allows for a high-performing timber-concrete hybrid floor that can accommodate grids in excess of 9m x 9m.



The StrongBeam and StrongFloor system offers numerous advantages. It provides high levels of structural, acoustic, and fire performance, with thinner floors than conventional mass timber, making service reticulation easier and more cost-effective. The system allows for minimal back-propping and faster construction speed, reducing overall construction time and costs.



The StrongBeam and StrongFloor systems are designed with sustainability & efficiency in mind, reducing embodied carbon, waste, and improving overall quality.

Throughout our core partnership with Composite Systems, an Australian-owned company focused on designing and manufacturing composite building materials, we have developed a range of ground-breaking products, including the StrongFloor and StrongBeam timber-concrete composite building systems. Our partnership combines the expertise of Composite Systems in composite material design with Viridi's off-site prefabrication and construction capabilities, resulting in a range of advanced building solutions that are efficient, sustainable, and cost-effective. We are committed to pushing the boundaries of innovation and delivering quality building solutions that are kind to both the environment and the bottom line.



STRONGBEAM & STRONGFLOOR ADVANTAGES

-  High levels of structural, acoustic and fire performance
-  Thinner floors than conventional mass timber, making service reticulation easier and cheaper

-  Minimal back-propping and faster construction speed
-  Reduced embodied carbon, reduced waste and higher quality