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## **Circular Materials Solutions a simple way to improve sustainability in construction**

There is growing demand from stakeholders across the building and construction industries, including governments and end consumers to adopt genuinely sustainable practices. How can the sector successfully embrace sustainability with commercially viable solutions?

### **The challenges of a growing industry**

The forecast looks bright for the Australian construction industry, thanks to a growing population that is driving demand for housing and infrastructure. Despite the promising outlook, continued growth has come with a new set of challenges. As more than 25 million tonnes of construction and demolition waste is generated in Australia annually, the industry is being challenged to find and adopt more sustainable building practices.

Both industry and government stakeholders alike are focused on minimising waste and reducing the embodied carbon of their projects, whilst also improving the efficiency and circularity of materials. However, while there is broad recognition of the importance of adopting sustainable practices, the challenge facing the industry today is how to implement an end-to-end solution for the greatest benefit.

### **Building a circular economy**

The good news is, there is a simple and effective way to design out waste and improve sustainability across every project stage, thanks to Boral's industry-leading Circular Materials Solution (CMS). CMS provides visibility over materials flow, volume movement, recycling rates, products developed (using the recycled waste material) and the carbon reduction levels achieved. This is all summarised to the customer in reports provided throughout the project.

Most demolition waste such as brick, concrete, and steel are not at the end of their life cycle as a material, so there is a significant opportunity to recycle. Similarly, excavation waste materials such as sand, stone, and fill can be reclaimed, blended, or repurposed.



In a recent CMS implementation case study, Mirvac, as part of its zero waste to landfill and net zero carbon goals, partnered with Boral to design out waste for its Green Square project. By working with Boral to ensure the right quantities of concrete were initially brought to site at the right time, and then diverting any excess concrete waste back to Boral for recycling, Mirvac was able to realise a reduction in their construction waste and have complete visibility over the material flow, disposal costs and waste management outcomes.

