

GREEN WALL PANELS PROMOTE RESPONSIBLE RESOURCE USE

Resource efficiency is a fundamental element of OSK Holdings Berhad's ("OSK") environmental commitments. In pursuit of long-term environmental preservation and operational excellence, we are dedicated to minimising raw material use, championing recycling initiatives, and prioritising resource reuse across our operations.

Our Industrial Building System Division, which manufactures precast wall panels, prides itself as the provider of green products for the Industrialised Building System ("IBS"). The Acotec products are proudly certified with the Singapore Green Label, an eco-labeling scheme administered by the Singapore Environment Council. This certification reflects our commitment to sustainability by using recycled materials, passing leaching tests, and adhering to the rigorous environmental, performance, and health standards set by the certification scheme.

RECYCLED MATERIALS

Acotec wall panel uses recycled materials in partial replacement of sand, aggregates and cement. This significant use of recycled content translates into direct savings of raw materials and enhances the sustainability of our products.

The Acotec team target to gradually increase the use of recycled materials, aiming to incorporate up to 50% into the wall panel product within the next five years. To achieve this, the team regularly review material specifications to ensure the inclusion of sustainable options and adherence to environmental best practices.

In alignment with this goal, the Acotec team has invested significant effort in research and development to test the feasibility and effectiveness of integrating sustainable materials into various product lines. These efforts culminated in the development of a new product range AcoLite, which is a step ahead in terms of environmental friendliness.

Launched in January 2024, AcoLite incorporates lightweight expanded clay aggregates to further replace natural resources. The product is lightweight yet strong, leaving only a low carbon footprint with the reduction in usage of cement. In addition, energy saving is achieved as we rely solely on natural heat for the panels' self-curing process.

LOW ENVIRONMENTAL IMPACT



Acotec wall panels contribute to sustainability in the construction industry.

Beyond the manufacturing of the wall panels, Acotec utilises green packing materials for the products, steering clear of polyvinyl chloride (PVC) and wood-based supplies and playing a part in reducing plastic pollution and deforestation.

The manufacturing process for our IBS wall panels is relatively low-impact. Approximately 45% lighter than traditional walls, the precast panels require minimal energy input. The precision of precast concrete ensures exact measurement, reducing both waste and the energy needed for production and assembly.

The prefabricated nature of these panels further minimises on-site construction waste and lowers carbon emissions, contributing to sustainability in the construction industry. With construction time shortened, reliance on on-site labour can be reduced as well.