

Is It Always Unfavourable To Transport Materials Across The Globe?

In the quest to combat global warming, the construction industry is increasingly focused on reducing emissions. However, it's important to dispel the misconception that all transportation of materials should be minimized. When evaluating materials for their carbon footprint, it's crucial to consider not only transportation distances but also the emissions produced during the manufacturing process. By taking a holistic approach to analysing emissions throughout a product's lifecycle, we can make more informed decisions to minimize overall environmental impact.

Evaluating Emissions: A Holistic Approach

When assessing the environmental impact of materials, it's essential to consider both production and transportation emissions. Let's compare two widely used materials in the construction industry to illustrate this point: aluminium and aggregate.

Aluminium: A Focus on Production Emissions

Aluminium production involves energy-intensive processes that contribute significantly to its embodied carbon emissions. However, PurOptima products use Hydro CIRCAL, which is composed of recycled content and utilizes highly efficient processing techniques, the emissions associated with its production are significantly lower compared to conventional aluminium products. Furthermore, the transportation emissions of aluminium are negligible in comparison to its production emissions, making it a sustainable choice for architects and designers.

Aggregate: Balancing Production and Transportation Emissions

Aggregate, a crucial component in construction materials, can be sourced globally with relatively low production emissions. However, minimizing transportation distance is vital for reducing the overall emissions associated with purchased aggregate. By sourcing low emission factor aggregate locally, architects and designers can further contribute to reducing the environmental impact of their projects.

Sustainable Solutions for Architects and Designers

In the pursuit of reducing emissions in the construction industry, PurOptima's use of Hydro CIRCAL offers a sustainable solution with significantly lower emissions compared to traditional aluminium products. By considering lower emission production methodologies and minimizing transportation distances, architects and designers can make informed choices to create a more sustainable future.

Conclusion

In conclusion, it's not always unfavourable to transport materials across the globe. By evaluating the entire lifecycle of materials and considering both lower emission production methodologies and transportation distances, architects and designers can make informed decisions that contribute to reducing emissions in the construction industry. PurOptima's commitment to sustainable materials offers a pathway to lower emissions, while local sourcing of low emission factor aggregate further enhances the industry's environmental sustainability.