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# REBOND

Signage material made from recycled carpet textile waste.



# MEET REBOND

ReBond is a collaboration between Modulex, the global leader in architectural and wayfinding signage, Dansk Wilton, a Danish carpet manufacturer serving the cruise ship and hospitality industry and Elektro-Isola, a material developer and manufacturer based in Denmark.



ReBond is made by using waste from Dansk Wilton's Cradle to Cradle Certified carpet solution. The process starts by removing the carpets and recovering scraps from production waste from Dansk Wilton, which are shredded into fine fibres using innovative technology. The shredded textile fibres are mixed with a melting binding fibre, giving it the consistency needed to create felt mats. To produce ReBond, each felt is pressed into 3mm sheets with a white surface layer, strengthening the material and enabling direct print on each panel. While the surface and appearance of ReBond are brand new, the sides of the panels bear a faint hint of the colour of the original carpets, leaving a trail of its previous life.

This project has enabled Modulex and Dansk Wilton to reduce carpet waste and use it to generate new value in the signage industry. It has helped us develop a material that reduces the use and extraction of virgin raw materials and contributes to a circular economy.



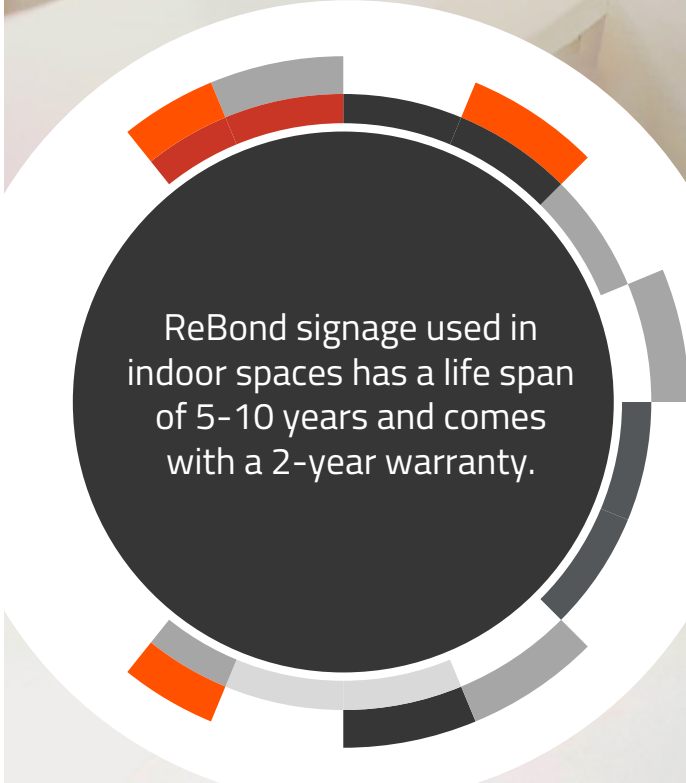
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## WHY CHOOSE REBOND?

- ReBond is a signage material manufactured from recycled carpet waste that minimizes the extraction of virgin raw materials and uses waste that would otherwise be discarded to generate architectural signage.
- ReBond sheets have a thickness of 3mm and are suitable for signage and communication purposes in indoor non-humid areas.
- The core of this material is made of 75 % recycled carpet textile and 25 % binding fibre. On top of this, the materials are pressed with an outer layer of white polyester and kraft paper, which give the material the stability and consistency needed.
- The carpets used to make ReBond are Cradle-to-Cradle certified at a bronze level.
- ReBond is suitable for any printing and graphic technology, from UV-print to eco-solvent, 3D tactile print, vinyl, and braille.
- A wide range of mounting methods can be used to install ReBond signs – the possibilities are infinite.
- ReBond has a carbon footprint 67% lower than ACMs.

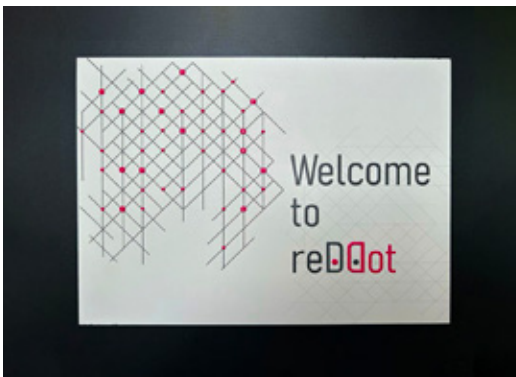
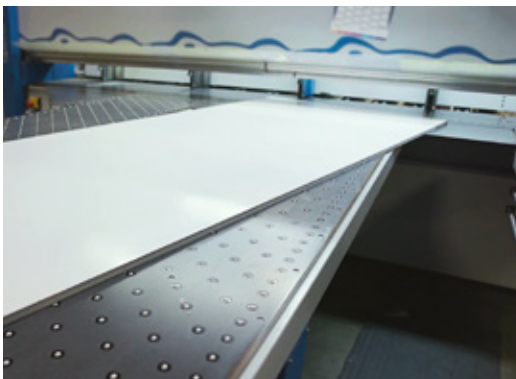
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ReBond signage used in indoor spaces has a life span of 5-10 years and comes with a 2-year warranty.



# HOW DOES **MODULEX** MEASURE THE ENVIROMENTAL IMPACT ?



- To measure the environmental impact of ReBond, Force Technology in Denmark carried out a carbon footprint analysis at a screening level, which estimates the carbon footprint of ReBond via Life Cycle Assessment (LCA) and compares it to ACMs.
- The study considered most life stages to determine the overall greenhouse gas emissions released throughout the product's lifespan. The results showed that the ReBond has a carbon footprint 67% lower than ACMs.
- Using carpet waste to make new signage products, ReBond cuts down the amount of waste discarded and minimizes the extraction of virgin raw materials to produce signage. It has strengthened our commitment to use waste from other industries to develop other products in the future.



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