



Pioneering sustainable solutions  
for the future of construction

# ECO TRAIL PRODUCT PREVIEW



**eco** trail





Phase 1 | 18 - 21 January 2026

**BIG 5** Construct Saudi



## OXYGEN Films

Novacel OXYGEN films are the industry's first eco-responsible processing films, specifically engineered to reduce the carbon footprint of industrial manufacturing. Utilizing four complementary technologies, including "Plastica Seconda Vita" certified recycled content, they achieve carbon emission reductions between 11% and 80%. These high-performance films support sustainable construction by lowering the embodied carbon of surface protection across a wide range of sensitive material types during fabrication and transport.

**Stand 1E76**



## SunGuard® DS

SunGuard® DS is a high-performance float glass featuring advanced double-silver coatings optimized for the extreme Middle Eastern climate. It significantly enhances building energy efficiency by reducing cooling loads by up to 20% while maintaining high natural light transmission. This durable solution supports green building certifications by lowering operational carbon and improving occupant thermal comfort through superior solar control, making it a critical component for sustainable architectural glass applications in the region.

**Stand 4C141**



## Iris 21k

The Iris 21k Digital Slab Scanner revolutionizes stone fabrication by digitizing selection to eliminate material waste and project travel. Capturing high-resolution 21k scans via a cloud-based platform, it enables remote client approvals and precise digital vein matching before any cutting occurs. This innovative workflow maximizes slab yield, preserves valuable remnants, and reduces the industry's overall environmental footprint through digital transformation and optimized logistics.

**Stand 1D40**



## Wireless Safety

Orient Emergency Alert Systems utilize self-healing wireless mesh technology to eliminate the need for extensive cabling and permanent site infrastructure. The modular, relocatable design allows for asset reuse across multiple projects, significantly reducing hardware waste. Managed via remote cloud monitoring, the system lowers vehicle-related emissions and ensures a no-trace deployment on environmentally sensitive sites where civil works are prohibited.

**Stand 2F138**



## Airtight Sealing

Edilteco Kuwait provides precision sealing technologies designed to eliminate thermal bridges and ensure superior building envelope airtightness. These high-performance materials prevent energy leakage, drastically improving HVAC efficiency and reducing building operational emissions. By maintaining structural integrity and thermal consistency, these solutions prolong building lifespans and support comprehensive net-zero energy strategies in modern construction, ensuring long-term sustainability and comfort for occupants while reducing the building's total carbon footprint.

**Stand 2F128**





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## eMesh

eMesh is a 100% recycled polypropylene fiber solution designed to replace carbon-intensive steel mesh reinforcement in concrete. By substituting steel, it prevents "concrete cancer" and corrosion while reducing project carbon footprints by over 90%. This non-corroding material prolongs asset longevity and streamlines on-site labor through simplified, safer installation processes that eliminate manual steel fixing and storage of bulky materials on site.

Stand 2F138



## Renewable Hardware

Casal building accessories are manufactured using an energy supply sourced 100% from renewable sources, certified with a Guarantee of Origin (GO). The production process utilizes materials traceable back to their recycling cycle, including ferrous and plastic components. By combining green manufacturing with full material circularity, Casal reduces the embodied energy of building hardware, ensuring that every hinge and handle meets the highest ecological standards throughout its lifecycle.

Stand 3G56



## Sustainable HPL

Perfect Doors utilizes High-Pressure Laminate (HPL) manufactured with 60% certified wood fibers sourced from responsibly managed forests. Their products are designed for exceptional durability in high-traffic commercial environments and are supported by an industry-leading global material recovery program. This circular approach reduces reliance on virgin resources and ensures that door systems contribute significantly to green building material credits, providing a sustainable and long-lasting solution for modern interior architecture.

Stand 4D121



## FSC Wood

Alahmed Elite Venture offers E1-grade engineered wood products, including MDF and MFC, with low-formaldehyde emissions for healthier indoor air quality. All materials are sourced from 100% responsibly managed, FSC-certified forests, ensuring full supply chain transparency and traceability. These sustainable wood solutions provide a durable, low-emission alternative for interior fit-outs and furniture, aligning with international green building standards for responsible sourcing and contributing to the conservation of global forest resources.

Stand 1C58



## Eco-PVC - ShiningPearl Industrial Co.,LLC

ShiningPearl Industrial produces eco-friendly PVC and SPC flooring that is 100% recyclable and entirely free from heavy metals. Fully compliant with REACH and RoHS environmental standards, these materials prioritize indoor air quality and user safety. The durable, water-resistant design ensures a long service life in demanding environments, while the material's inherent recyclability supports circular economy goals by diverting industrial plastic waste from landfills and reintroducing it into production cycles.

Stand 3C79

## Solar Poles

The PowerStack Vertical Solar Pole System is a 100% grid-free renewable power solution for public, commercial, and critical infrastructure. By eliminating coal-fired grid dependency, each 10-pole installation saves approximately 2 tonnes of CO2 emissions annually. The wireless, rapid-deployment design avoids the environmental costs and heavy machinery associated with trenching and cabling, making it a perfect fit for sustainable smart city technology integration.

Stand 2F138

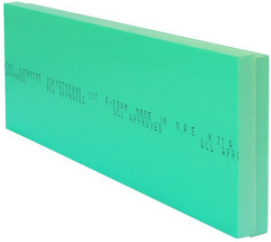






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## E-FOAM

E-FOAM Extruded Polystyrene (XPS) boards provide high-performance thermal insulation that reduces building energy consumption by 15% to 70%. These durable, recyclable sheets create a robust thermal barrier, potentially lowering CO2 emissions by up to 84% over a building's lifecycle. By improving thermal comfort and energy efficiency, E-FOAM directly supports regional green building certifications and operational sustainability goals through significant resource conservation and energy savings.

Stand 3A61

دبي للاستثمار  
Dubai Investments

## SpaceBin

SpaceBin Multi is a portable, battery-powered waste compaction system that reduces general and food waste volume by up to 50%. By halving the frequency of waste collections, it significantly lowers transport-related fuel consumption and carbon emissions. The off-grid, 12V system requires no fixed electrical infrastructure, enhancing operational efficiency and site hygiene in waste rooms. This innovative technology supports waste-to-resource goals by optimizing the logistics of the circular economy at the source.

Stand 2F138



## Filto Brass Profiles

Filto brass profiles are manufactured with a strong emphasis on circularity, utilizing a robust scrap recovery system that reprocesses production waste into new high-quality raw material under environmental supervision. These durable, corrosion-resistant profiles are engineered for longevity in construction, decoration, and industrial applications. By focusing on precision custom extrusion and short-run production, Filto minimizes material overproduction and waste, promoting a more efficient metal economy.

Stand 2A159



## SonaSpray K13

SonaSpray K13 is a bio-based acoustic spray finish manufactured from 80% recycled natural fibers. Certified with Cradle to Cradle Bronze, it offers a high-performance acoustic solution with an estimated service life exceeding 50 years. This low-VOC, carbon-sequestering material enhances indoor environmental quality while contributing to LEED and WELL certifications. Its seamless application and acoustic efficiency make it an ideal choice for sustainable commercial interiors where long-term durability and environmental responsibility are paramount.

Stand 1C49



## Mineral Core

Techno Panel's mineral core facade panels are 90% plastic-free and engineered for 100% recyclability. Produced locally to minimize transport emissions, these panels are specifically designed for extreme durability in harsh desert climates. Their non-combustible, mineral-based composition offers a sustainable alternative to traditional composite materials, promoting safer and more environmentally responsible building envelopes. This locally-sourced solution supports the development of sustainable industrial infrastructure while providing a high-performance, low-lifecycle-carbon building material.

Stand 3D71

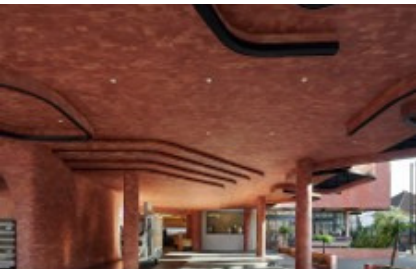


## Super Durable

Jotun Super Durable powder coatings are lead-free and TGIC-free solutions that emit near-zero Volatile Organic Compounds (VOCs). Designed for extreme weather resistance and color retention, these coatings significantly prolong the life of metal building components. The application process allows for 100% recovery and recycling of oversprayed powder, minimizing chemical waste. This sustainable finishing solution reduces atmospheric emissions and supports healthier industrial processes, providing a durable, eco-friendly aesthetic for high-performance green building exteriors.

Stand 3B29





## PHOMI EconiClay

PHOMI EconiClay eCovering is a next-generation architectural surface that transforms inorganic solid waste—such as ground stone and mining tailings—into sustainable alternatives to traditional stone, wood, and brick cladding. Manufactured at low temperatures, it achieves a carbon footprint up to 80% lower than conventional materials and is 100% recyclable. These ultra-lightweight, Class A fireproof panels enhance structural safety and significantly reduce transportation emissions while maintaining superior UV and corrosion resistance for 50-year lifecycles.

**Stand 1B41**

