



ECO TRAIL PRODUCT PREVIEW

BIG 5 Construct
Saudi

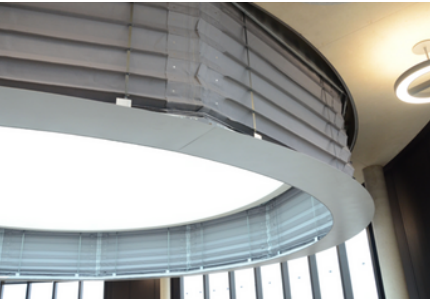
Pioneering sustainable solutions
for the future of construction



ecotrail



First week | 15 - 18 Feb 2025



Coopers Fire – Fire and Smoke Curtain

Coopers Fire’s innovative Fire and Smoke Curtain is a sustainable fire safety solution designed to contain smoke and heat, ensuring safer evacuation routes. Made from high-performance, fire-resistant fabrics that are non-toxic and fully recyclable, it provides an eco-friendly alternative to traditional fire barriers. The curtains feature a corrosion-resistant aluminum casing and an advanced control system for automatic deployment during a fire. Designed for commercial and industrial use, this space-efficient solution enhances both safety and sustainability. Coopers Fire is accredited by industry standards, ensuring top-tier quality and compliance in fire protection.

Stand 1E88



ALMEC – PIR & PU Fire-Rated Sandwich Panels

ALMEC's PIR and PU Fire Rated Sandwich Panels, Decking Sheets, and Purlins are certified under ISO 14001, showcasing a commitment to environmental responsibility and safety standards. These products help reduce the environmental impact of construction projects by ensuring effective environmental management and promoting health and safety practices in production and usage.

Stand 5F01



Voided Biaxial Slabs, Stormwater Solutions & Sustainable Foundations

These products—including Voided Biaxial Slabs, Aquabox, Rootbox, Drainroof, and Modulo & New Elevator foundations—are made from 100% recycled high or medium-density polypropylene. Their sustainable design reduces environmental impact while maintaining high performance. Each product is certified with an Environmental Product Declaration (EPD), ensuring transparency in sustainable construction.

Stand 2A160



DEWALT POWERSHIFT™ – Sustainable Power Solution

DEWALT POWERSHIFT™ is transforming jobsite electrification by reducing reliance on gas-powered equipment, enhancing safety for workers and the planet. This advanced battery system cuts CO₂ emissions by up to 60% compared to traditional gas tools, while optimizing energy use for longer runtimes and faster charging. By minimizing battery waste and energy consumption, POWERSHIFT™ promotes eco-friendly building practices. Recognized for its impact, TIME Magazine named it one of the Best Inventions of 2024 in the “Sustainability” category, highlighting its role in shaping a smarter, cleaner construction future.

Stand OS 315



Alex Elite – Sustainable Roof Cladding System

Alex Elite is an eco-friendly roof cladding system combining ArcelorMittal’s Granite HDX coating with advanced polyurethane foam for superior performance. This halogen-free system eliminates harmful CFCs and HCFCs, reducing ozone depletion and improving air quality. With low VOC emissions and a smaller carbon footprint, Alex Elite supports sustainable construction, offering high durability and insulation. Customizable in thickness and coating materials, it meets diverse project needs. Certified with an Environmental Product Declaration (EPD), Alex Elite is designed for long-lasting environmental protection and energy efficiency.

Stand 5H38





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HFO Refrigerants – Next-Generation Cooling Solution

HFOs (hydrofluoroolefins) are a new generation of refrigerants that replace older refrigerants with high global warming and ozone depletion potentials. HFOs feature a significantly lower GWP and zero ODP, reducing environmental impact by preventing the harmful effects associated with traditional refrigerants.

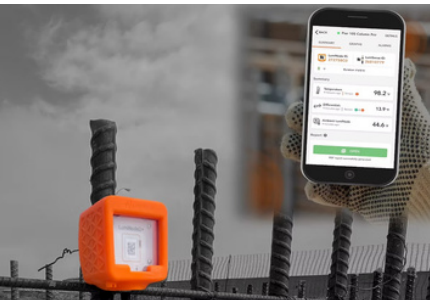
Stand 1D60



Concrete Sustainability Council Certificate & CarbonCure Technology

AAF is driving sustainable concrete production with CSC Certification and CarbonCure Technology. The CSC Certification ensures responsible sourcing, carbon reduction, and resource efficiency, aligning with global green building standards like LEED and BREEAM. CarbonCure Technology enhances sustainability by injecting captured CO₂ into concrete during mixing, permanently reducing its carbon footprint without compromising strength. Installed at AAF's batching plant, this system optimizes production while supporting eco-conscious construction.

Stand 3D61



LumiCon – Smart Concrete Monitoring for Sustainable Construction

LumiCon is an advanced IoT-based solution for real-time temperature and maturity strength monitoring of concrete. By reducing the need for extensive concrete cylinder testing, it minimizes material waste and emissions. Its reusable sensors provide accurate strength validation on-site, supporting more efficient and sustainable construction practices.

Stand 4F26



QuadCore™ – High-Performance Sustainable Insulation

Kingspan's QuadCore™ Technology is a next-generation hybrid insulation core designed for superior thermal efficiency. By reducing reliance on heating and cooling systems, it lowers energy consumption and operational carbon. Free from CFCs, HCFCs, HFCs, and halogenated fire retardants, QuadCore™ supports green building certifications through its material efficiency, ease of disassembly, and contribution to circular construction. Rigorously tested and FM-approved, it minimizes embodied emissions while enhancing sustainability in building design.

Stand 3B48



Kronospan OSB & Melamine Faced Chipboard – Sustainable Wood-Based Panels

Kronospan's Oriented Strand Board (OSB) and melamine faced chipboard are produced using wood residue from the sawmill industry, ensuring efficient use of timber as a renewable resource. Certified by PEFC and FSC®, these panels come from responsibly managed forests, promoting sustainability in construction. With low VOC emissions and formaldehyde-free production, Kronospan OSB is recognized by Energieinstitut Vorarlberg as an environmentally friendly product. Designed for durability and versatility, these panels support eco-conscious building while minimizing environmental impact.

Stand 2D131





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RePET

RePET is an innovative recycling and pelletising technology that transforms PET acoustic panel trimmings and manufacturing off-cuts into PET pellets. These pellets are then moulded into new acoustic product accessories like SpinFix™, End Caps, and Vicinity™ Desk Clamps. This process enables a circular lifecycle, allowing materials to be reused and recycled repeatedly, reducing landfill waste and reliance on fossil-based inputs. The trimmings used in RePET are certified with Global GreenTag GreenRate Level A, a Declare label for Red List Free compliance, and a product-specific Type III Environmental Product Declaration (EPD), ensuring transparency and sustainability in manufacturing.

Stand 4D23



Chilliwack Sauna

The Chilliwack Sauna is crafted from FSC-certified Western Canadian Hemlock, ensuring sustainability through responsible forestry practices. This premium wood is known for its durability, stability, and smooth, knot-free grain. The Forest Stewardship Council (FSC) certification guarantees environmentally and socially responsible sourcing, protecting biodiversity and supporting long-term forest health. By using 100% FSC-certified hemlock, the sauna meets high sustainability standards while offering a high-quality, long-lasting wellness experience.

Stand 4E29



Sole EUROSTAR solar water heater

The SOLE EUROSTAR ECO is a thermosiphon solar water heating system designed for Middle Eastern climates. It efficiently harnesses solar energy to produce hot water while being made from recyclable materials. An optional Wi-Fi smart remote control enhances energy savings by preventing unnecessary electric heater use. With a capacity of up to 300 liters, it reduces reliance on conventional energy sources, lowering both carbon footprint and electricity costs. Certified with ISO 9001:2015 and the SOLAR KEYMARK, it meets international quality and performance standards, ensuring reliability and sustainability.

Stand 4C59



Hybrid Evaporative & Refrigerant Air Conditioner

This innovative air conditioning system integrates direct evaporative cooling, indirect evaporative cooling, and refrigerant compression to enhance cooling efficiency while reducing power consumption. By pre-cooling ambient air using water-based cooling stages, it significantly lowers the need for high-capacity refrigerant compression. The first two stages reduce air temperature from 44°C to below 21°C before the final stage further cools and dehumidifies it to 13-15°C. This process improves indoor air quality, lowers CO₂ levels, and adds humidity in dry climates. With reduced electricity demand and extended compressor lifespan, this system offers a more sustainable and energy-efficient cooling solution.

Stand 6C98

