

BUILDING THE FUTURE Sustainably





SAC Commitment to Environmental Stewardship

At 3A Composites USA, we recognize the impact human actions have on environmental and societal health. We acknowledge our responsibility as a company and manufacturer to use natural resources in a manner that allows for the sustainment of future generations.

We are committed to continual enhancements of our sustainable practices through collaboration and knowledge development. Each manufacturing facility takes action energy consumption in pursuit of more efficient production and operation processes. As an industry leading brand and the original aluminum composite material (ACM), ALUCOBOND[®] has been a trusted architectural cladding for over 50 years. Manufactured in the USA, our goal is to provide accurate, concise information as well as guidance in the selection of the most efficient building solution for the environment while meeting today's fire performance requirements set by the International Building Code (IBC).

3A Composites USA



Environmentally Friendly Handling of Resources

Selecting and improving building materials to limit the impact on the environment has become a major task. The construction industry is the most energy-consuming sector. Many aspects must be taken into consideration to determine the least impact on the environment.

We are aware of our social responsibility as a company and as the manufacturer of ALUCOBOND[®]. We monitor and improve our actions on a continual basis. Our integrated management system provides us with an important framework for implementing the environmental, health and safety (EHS) aspects within our business.

Strenuous efforts to reduce energy and water consumption, increase productivity, cut down waste and therefore significantly reduce CO₂ emissions are made on a continuous basis.

Efficient handling of energy sources, as well as, the preservation of the environment and its resources are important issues. Each 3A Composites USA manufacturing facility is Compliant to ISO 45001 Management Systems for Occupational Health and Safety and Certified in Accordance with ISO 14001 Environmental Management System. 3A Composites has invested approximately \$24 million in sustainability measures in the last 20 years. Investments of \$17.5 million are planned for new, more energy efficient production processes and other CO_2 reductions in the next 3 years – for example, a heat recovery measure will lead to an annual CO_2 reduction of 450 t from 2021 onwards

ISO Certifications at 3A Composites USA

- Compliant to ISO 45001 Management Systems for Occupational Health and Safety
- Certified in accordance with ISO 14001 (Environment management system)





The ALUCOBOND[®] Product

The Smart Cladding Choice

ALUCOBOND[®] PLUS aluminum composite material (ACM) consists of two aluminum skins and a fire retardant, mineral-filled core. Our panels have outstanding product characteristics such as precise flatness, surface and color variety as well as excellent formability. Made in the USA, ALUCOBOND adheres to the highest federal, state and local environmental standards.

Lightweight

Aluminum is an excellent lightweight construction material which is suitable for very long usage periods in the industry, transport and construction sectors. Aluminum composite panels are a light-weight cladding system which remain intact for very long usage periods. Lightweight panels require less supporting material, and less total materials in the exterior wall assembly.

Longevity & Durability

Unlike other facade systems such as EFS, ALUCOBOND® material does not have to be replaced several times during the lifecycle of a building. This characteristic has a very positive effect on the life cycle assessment (LCA) of a building. ALUCOBOND® has an Environmental Product Declaration (EPD) in accordance

with International ISO Standards, which certifies a service life of 50 vears.

Thermal Efficiency

ALUCOBOND is used in ventilated and sealed facade systems. These systems in combination with exterior insulation materials dramatically improve the thermal efficiency of the exterior envelope. This reduces the required load for heating buildings in the winter and cooling them in the summer. Many ALUCOBOND colors utilize "cool" pigments, which reflect the sun's infrared rays. This reduces the transfer of heat through the cladding. The lightweight panels can require less penetrations through continuous insulation required by ASHRAE 90.1 standards. Less penetrations can greatly enhance the thermal efficacy of the overall wall assembly.

VOC and SVOC Emissions

By painting the coil at the factory we eliminate coating on the job site and the potential of releasing additional volatile organic compounds (VOC's). ALUCOBOND PLUS panels are coil-coated in a factory that captures and destroys 99% of VOC's. Zero VOC's are emmitted from installed panels.







Fire Classification

While this may not be a typical sustainability component it does contribute toward the safety of the building and its inhabitants. ALUCOBOND PLUS panels meet the Class A criteria for Flame Spread and Smoke Developed per ASTM E84. They also achieve a Class CC1 rating per ASTM D635. Finally the panels exterior wall assemblies.

ALUCOBOND is a 100% recyclable material, meaning have passed the NFPA 285 requirements in a number of the core material and the aluminum skins can be returned to the material cycle and reused in the manufacturing of new products. The ALUCOBOND The flameproofing of the core material of ALUCOBOND PLUS core material mainly consists of mineral PLUS is manufactured with mineral additives and does components which use a small amount of not contain halogenated compounds. primary energy.



The Stack at Deep Ellum Dallas, TX LEED® Core & Shell and WELL certified ALUCOBOND PLUS: Custom Brushed Manhatten

Recycling

All façade components, including ALUCOBOND[®], can be easily and homogeneously dismantled and returned to the reusable material cycle. For example, knife milling can be used to separate the composite panels into the different individual components.



Building Certifications

There are different systems utilized for evaluating the environmental performance and energy efficiency of buildings, guaranteeing the overall quality of the entire building. Environmental certification guarantees that the end user will use a building designed to respect the environment and the well-being of the occupants.

Certification is also useful when the building is put into service: without a certification, it can remain unoccupied much longer. The same is true for a company changes location, it will have an easier time convincing its employees to settle in new certified offices.

Some property developers wanting to attract investors sometimes commit to a double or even a triple certification for the same building. While LEED is the dominant certification in the US there are other certifying agencies in Europe.



LEED®

(Leadership in Energy and Environmental Design) Certifications: Certified, Silver, Gold, Platinum www.usgbc.org

DGNB

(Deutsche Gesellschaft für Nachhaltiges Bauen – German Sustainable Building Council) Certifications: Bronze, Silver, Gold, Platinum www.dgnb.de/en/

BREEAM®

(Building Research Establishment Environmental Assessment Methodology) Certifications: Pass, Good, Very Good, Excellent, Outstanding www.breeam.org

HQE™

(Haute Qualité Environnementale – High Environmental Quality Standard) Certifications: Pass, Good, Very Good, Excellent, Exceptional www.behqe.com



BREEAM®

DGNB Deutsche Gesellschaft für Nachha





Global Certified ALUCOBOND[®] Projects



Marine Gateway Mixed-Use Development in British Columbia,

LEED[®] Gold Certified ALUCOBOND PLUS: Bone White, Steel City Silver, Anodic Clear Mica, Custom Ridgedale Silver, Custom Yellow Flash, Red Fire, Custom Mustard Yellow, Custom French Burgundy, CIBC Red, Montreal Blue, Focus Black, Custom Spectra Lime Zest, Custom Spectra Mossy Forest, Custom Spectra Rainforest, Custom Spectra Springtime



SFO Airport Traffic Control Tower in San Francisco, California LEED[®] Gold Certified ALUCOBOND PLUS: Custom SFO Silver © Daniel Lunghi





BskyB Believe in Better Centre in London, Great Britain BREEAM[®] Certificate Excellent ALUCOBOND® PLUS Sunrise Silver Metallic © Simon Kennedy





Partnerships & Affiliations















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