

Alubond

U.S.A.

Minimizing a Building's Carbon Footprint



ALUBOND U.S.A GREEN

The Eco-Friendly Composite Panel

The ALUBOND GREEN Composite Panel is an ECO FRIENDLY façade that focuses on minimizing a building's CARBON FOOTPRINT and making significant contributions to the SUSTAINABILITY of a building structure.

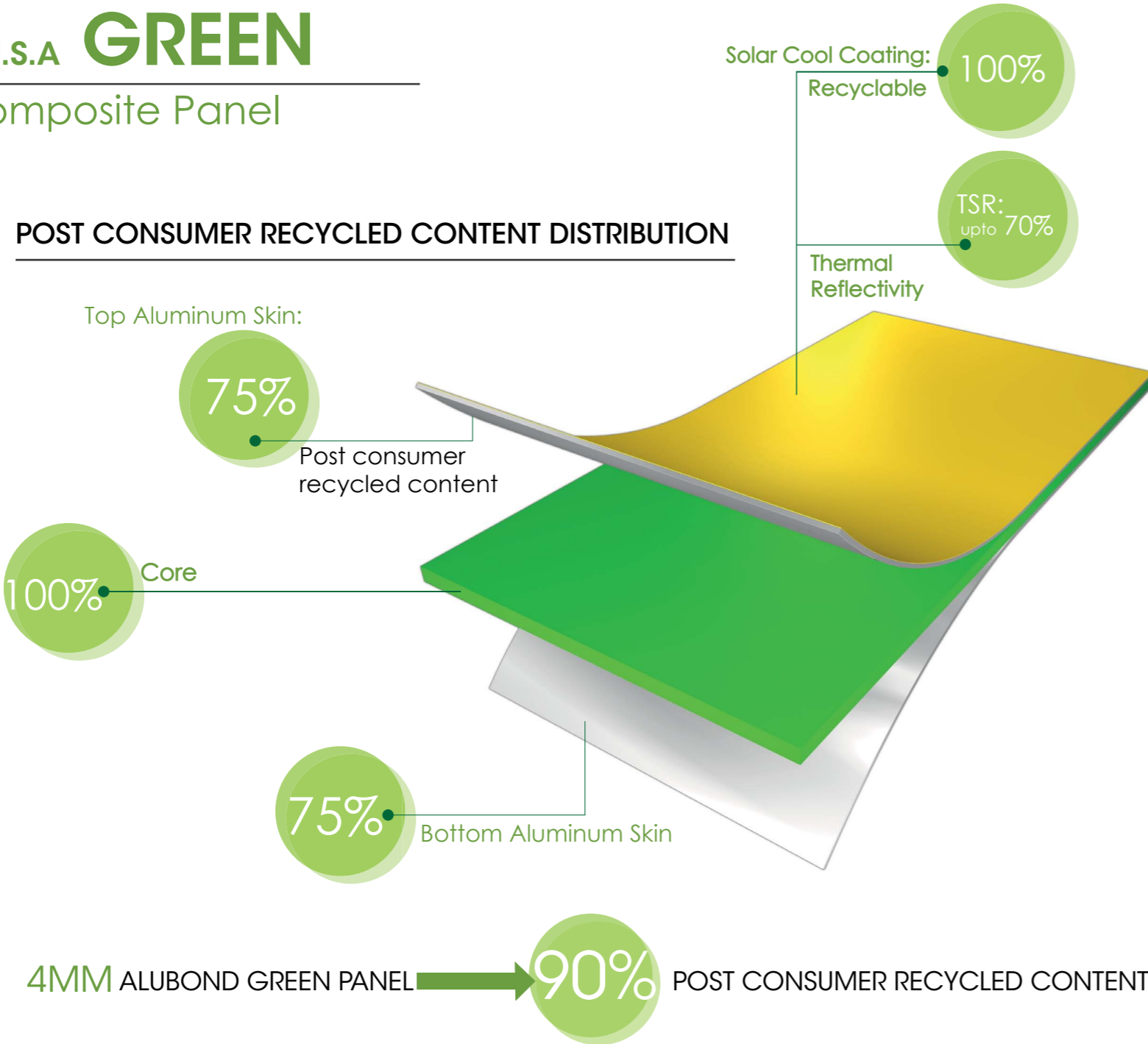
The reduced carbon footprint of Alubond Green is achieved through a 3 TIER CONTRIBUTION:

- Maximum utilization of POST CONSUMER RECYCLE CONTENT (PCR) in the raw materials used.

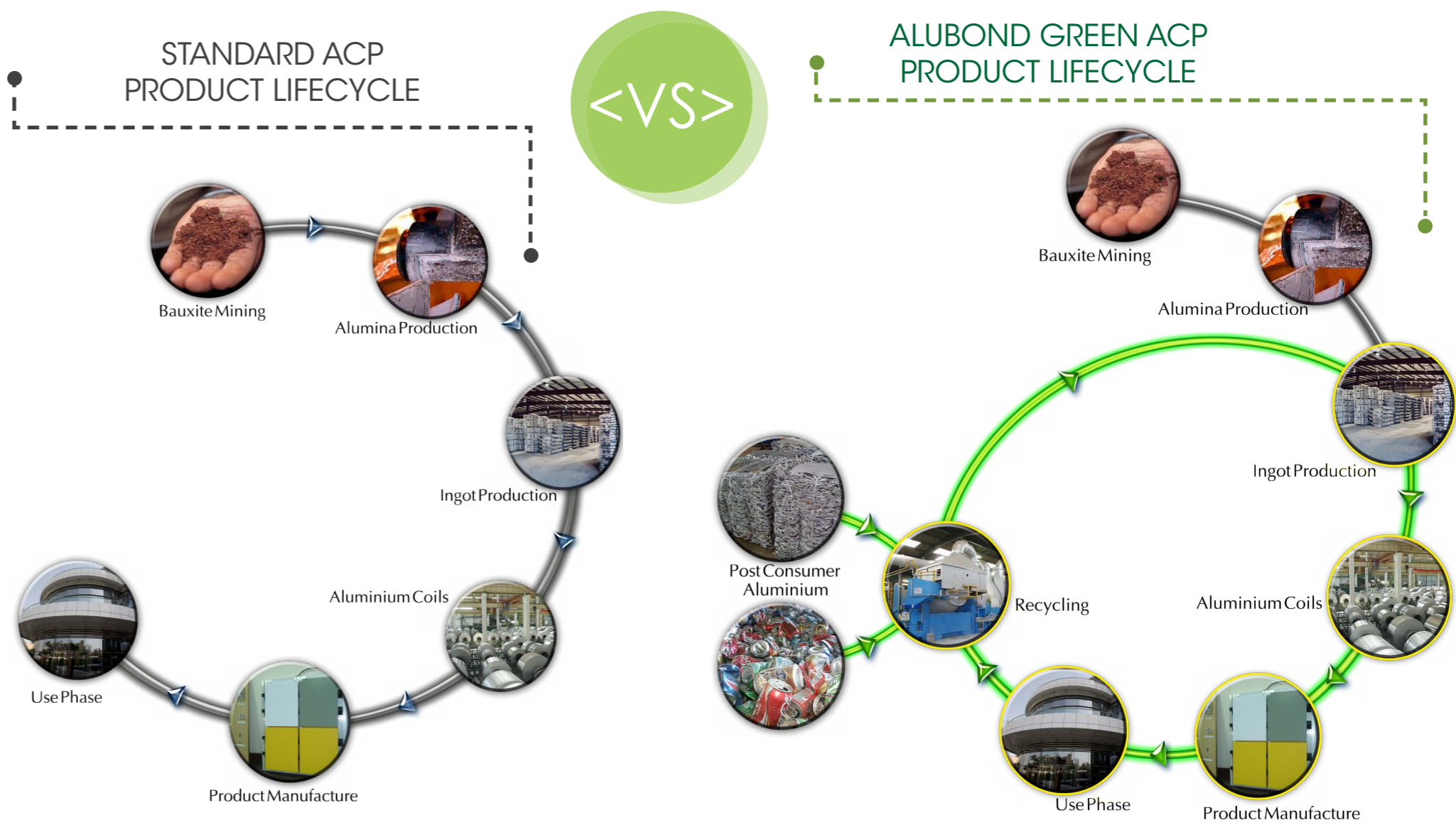
- ENERGY EFFICIENCY measures during its product life cycle.

- THERMAL REFLECTIVE COOLING offered during usage of product.

POST CONSUMER RECYCLED CONTENT DISTRIBUTION



HOW is ALUBOND U.S.A GREEN CARBON FRIENDLY?

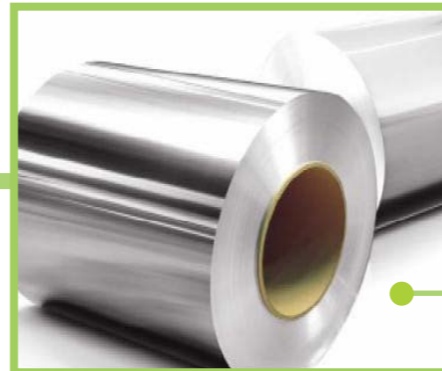


PCR – POST CONSUMER RECYCLE CONTENT

ALUMINUM

The Aluminium used in the Alubond Green façade panel consists of up to 75% post consumer recycle content. Sources of the PCR content vary from used beverage cans to recycled aluminium bales.

During the production of raw material maximum PCR percentage is targeted with a strict focus on quality control of the final product to ensure sustainability and quality are achieved hand in hand.



PCR – POST CONSUMER RECYCLE CONTENT

LDPE

The source of the Core in the Alubond Green Panel is an inhouse plastic recycling facility with an annual capacity of 15,000 Tons production to cater to Alubond Green's core raw material requirements. The state of the art facility located at Bureimi, Oman and independently located on site recycling units at Alubond production facilities convert used plastic to sustainable building panels.

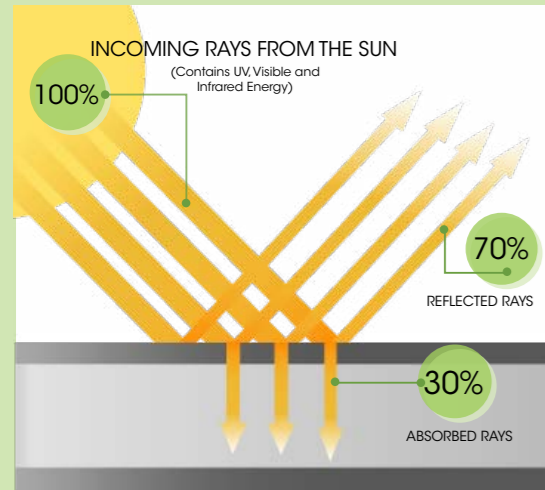
The core formula is perfected to maximize quality while using recycled plastic content. The final product adhering to Alubond's global quality standards.



ALUBOND U.S.A GREEN – CARBON FOOTPRINT REDUCTIONS

THERMAL REFLECTIVE - SOLAR COOL COATING

TOTAL SOLAR REFLECTANCE (TSR)



The Alubond Green **SOLAR COOL COATING** offers a **THERMAL REFLECTANCE** property that aids in cutting off the heat transferred to a building structure and enhance thermal comfort.

REDUCTION of up to **20%** is achieved in **INTERNAL TEMPERATURES** of applied structures when used with Alubond u.s.a ABTI Substructure.

Subsequent **SAVINGS** in a building's air conditioning and drop in **ENERGY CONSUMPTION** lead to further reduction in a buildings **CARBON FOOTPRINT** and increase in its **SUSTAINABILITY**.

ENERGY EFFICIENT - GREEN PRODUCTION

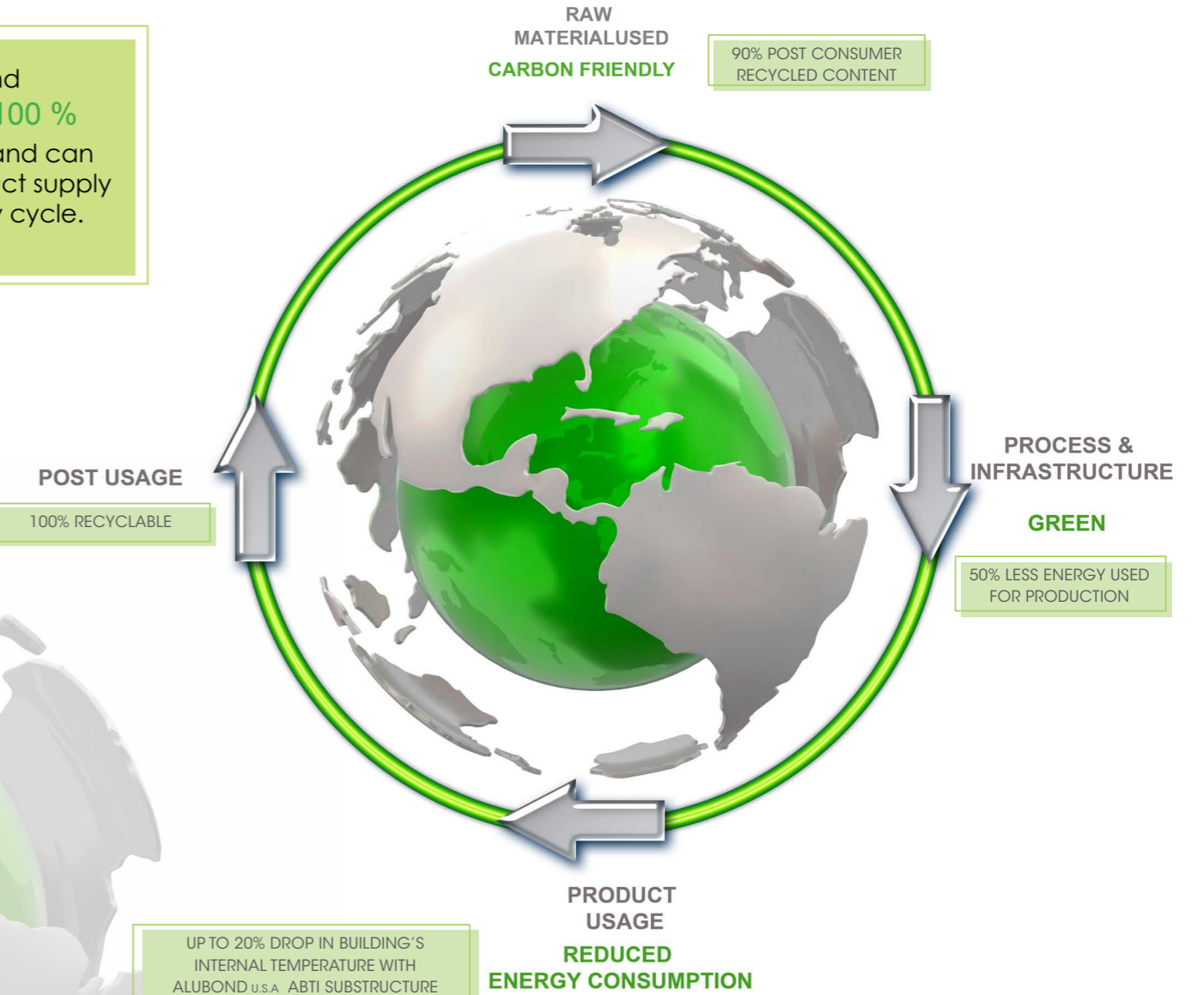


The Alubond Green Panels are manufactured using energy efficient production lines consuming 50% less energy for production as compared to standard industry production lines.

ALUBOND U.S.A GREEN – CARBON FOOTPRINT REDUCTIONS

ALUBOND GREEN'S SUSTAINABILITY CIRCLE & ENERGY SAVINGS

An additional feature of the Alubond Green Composite Panel is that it is **100 % RECYCLABLE POST USAGE** and can be reintroduced back into its product supply chain to complete the sustainability cycle.



ALUBOND U.S.A GREEN - WHY USE IT?

LEED

Category	Code	Description
Material Resource	Credit 4.1	10%(post consumer + _ Pre consumer)
	Credit 4.2	20%(post consumer + _ Pre Consumer)
	Credit 5.1	Regional Material 10%(Processed and Manufactured Regionally)
	Credit 5.2	Regional Material 20%(Processed and Manufactured Regionally)
Environmental Quality	Credit 4.2	Low Emitting Material
	Credit 7.1	Thermal Comfort Design
Sustainable Sites	Credit 7.2	Heat Island Effect, Roof

GREEN STAR

Category	Description
Management - 7	Waste Management (60% waste reused or recycled)
	Waste Management (90% waste reused or recycled)
Indoor Environment Quality - 5	Thermal Comfort
Energy - 1	Greenhouse Gas Emission (Design)
Materials - 2	Building Re- use
Materials - 3	Recycled Content & Re-used Products and Materials
Emissions - 4	Insulant ODP
Innovation 1,2,3	Any feature or benefit which is not covered by the GREEN STAR Benchmark

ESTIDAMA

Code	Category	Description
Resourceful Energy(RE-R2)	Building Energy Guidelines	Building Envelope Parameters
Resourceful Energy(RE-2)	Urban Heat Reduction	Use material with solar reflective index
Stewarding Materials(SM-2)	Regional Materials	Cost of regional mater equals 10% of total material cost
	Regional Materials	Cost of regional mater equals 20% of total material cost
Stewarding Materials(SM-3)	Recycled Materials	15% of total is Recycled
	Recycled Materials	30% of total is Recycled

BREEAM

Category	Description
Climate & Energy(Heat Island)	Appropriate choice of external finishes
Climate & Energy(Energy Efficiency)	Maximize the thermal efficiency of the building envelopes Minimizing consumption of energy used for space heating and cooling
Place Shaping(Building Reuse)	50%,75%,100%+ of existing buildings will be reused or refurbished.
Resources(Low Impact Materials)	Material used on site is A+ - B rated, according to the Green Guide to Specification.
Resources(Locally Sourced Materials)	Where evidence provided demonstrates that % of materials used on site are locally sourced

ENERGY IMPACT

HIGH POST CONSUMER RECYCLED CONTENT.

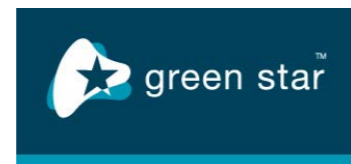
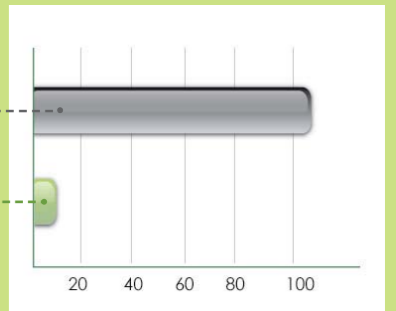
GREEN SUPPLY CHAIN & PROCESSES.

CRADLE TO CRADLE PRODUCT FOOTPRINT REDUCTION.

ENERGY CONSUMPTION ANALYSIS

STANDARD ACP
TOTAL = 110.95 KWH/M2

ALUBOND GREEN
TOTAL = 9.03 KWH/M2



ALUBOND U.S.A GREEN

VALUE ADD SOLUTIONS



Alubond U.S.A Total Solution concept is designed to offer a complete Turnkey package of engineering, supply and installation of Alubond Aluminum Composite Panels/ Alubond Solid Aluminum Panels using an open joint silicon free ventilated Substructure system with a full system warranty of 15 years.

The Total Solutions concept includes services from facade engineering, onsite building survey, engineering drawings of project specific fixing details, structural analysis of full system of panels with ABTI Substructure, supply of full system including accessories to site, installation services by approved installers, Alubond approval of installed system and release of 15 years warranty for the full system.

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