



Made of Air

Carbon-negative materials

Client
Audi AG

Project Name
HexAudi

Completion date
May 2021

Location
Trudering, Bavaria,
Germany



Properties	Test method	Unit	Results
Density	ISO 1183	kg/m ³	1280
Flexural modulus	EN ISO 178	MPa	2785.6
Flexural strenght	EN ISO 178	MPa	18.57
Flexural strain	EN ISO 178	%	0.737
Water absorption	ISO 62	%	negligible
Thermal expansion coefficient	ISO 11359-2	mm/mK	0.02
Artificial weathering (2000 hours)	ISO 4892-3	Grey scale	>=4
Fire behavior (Euroclass) (target)	DIN EN 13823	N/A	C-s3, d0

HexAudi by Made of Air

A beautiful testament to sustainability



The built environment accounts for almost 40% of annual global CO₂ emissions, with 10% coming alone from building materials. A true net-zero and a circular economy requires rapid decarbonization of the sector and Audi's car dealership in Trudering, Bavaria, Germany, is a showcase of how this can be done.

This radical change is no longer voluntary; regulations are changing worldwide. HexAudi panels were born out of this necessity when Audi needed to look for substitute material for their typically aluminum clad


façades in order to obtain planning permission within a stringent environmental regulatory framework.

Audi went a step further and sought a carbon-negative alternative. Made of Air's façade panels achieved just that. The brief was to create exteriors that met these new regulations while sustaining Audi's high-end and branded design; excelling in product and as environmental standards.

Made of Air's product created through a waste-to-value process is a combination of functionalized

biochar, made from wood waste, and formed into durable, carbon-negative thermoplastic.

Not only did these unique and durable panels permanently sequester CO₂ at a rate of -1.95kg CO₂e / kg, but their installed price was in parity with incumbent materials and installation techniques they were used to.

Made of Air's biochar-based building products made are your significant assets in the fight against climate change. 

Positive impact on the environment with negative emissions

Versatile product with an ingredient brand

-10

tons of CO₂ HexAudi panels permanently removed from the atmosphere

Equivalent to:

84,000

kilometres driven
in a diesel car

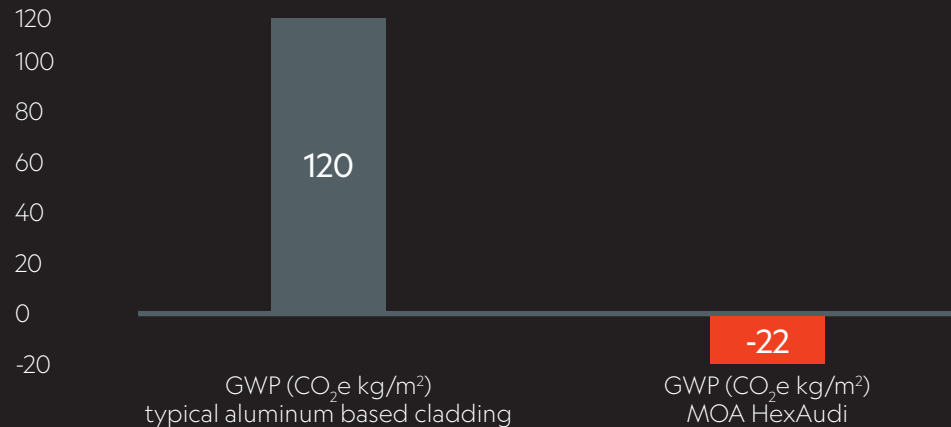
3,590

kilometres flown
in a Boeing 737-400

25,900

years of charging
a smartphone

CO₂ emissions per façade



Exteriors

High quality, tested durable exterior panels with over 30 years lifespan and recyclability



Interiors

Unique looks and durable design. A perfect combination for long-lasting premium interiors



Furniture

Comfort meets sustainability in a solution made for generations to come



Consumer goods

Drop-in MOA material for eco-friendly, fast-moving consumer goods products

You can join the carbon-to-value revolution with:



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