Padel Tennis
Building for the Future

BUILD WITH HEMP

FOR PEOPLE • FOR PLANET

Creating or enhancing active environments within local communities prioritising the health and well-being of the people and the planet is the only way forward.

This requires a coordinated approach to environmental design that promotes sustainability, accessibility, inclusion, and a sense of community in our neighbourhoods and public spaces for generations to enjoy.

M.D Walker
Founder – Hemp Alliance

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The Growth of UK Padel – “Incredible”

The surge in popularity of padel across the UK is indeed remarkable, with associations and commercial providers actively seeking to build more courts to meet the increasing demand.

This growth has brought numerous positive developments, such as increased sports participation and interest. However, alongside these benefits, some challenges must be addressed, particularly concerning noise nuisance surrounding padel courts.

The noise nuisance issue is common in recreational facilities like sports courts, especially in residential areas. Padel courts, with their design and the nature of the game itself, can generate significant noise during play. This can be disruptive to nearby residents, particularly if the courts are located close to residential properties.

Noise Issue – The Solution

To mitigate this issue, court operators and local authorities can take various measures;

1.Noise barriers: Installing soundproofing barriers or walls around the padel courts can help reduce noise transmission to neighbouring properties.

2. Soundproofing equipment: Utilizing advanced soundproofing materials during constructing or renovating padel courts to minimize noise pollution.

3. **Community engagement:** Engaging with the local community to address concerns and find mutually acceptable solutions. implementing changes based on residents' input.

4. Education and awareness: Educate players about the importance of being mindful of noise levels during play and encourage them to respect the surrounding community.

5. Regulatory compliance: Ensuring that padel court facilities comply with local noise regulations and standards to mitigate potential legal issues.

6. Regular maintenance: Ensuring the padel courts are properly maintained to minimize any unnecessary noise caused by equipment or structural issues.

The Solution – Build With Hemp Green ECO Sound Barriers

The first net–zero solution to improve sound quality, environmental design, and aesthetics, managing noise pollution and improving the visual appearance across all Padel Court locations whilst continuing to sequester carbon, meeting all biodiversity issues and creating the only Carbon Positive Padel Court.

Not only will residents, associations and local councils be satisfied with the noise levels, but they will also appreciate the commitment to using products that focus on the environment and sustainability and improving the area by adding beautiful foliage that enhances the space.

Build With Hemp Sound Barriers Sequester **231 kg** of carbon dioxide per panel.

BWH Classic ECO GreenWall

Noise Produced by Padel **91dB** (average)

Accepted Noise Level **50dB** (regulatory)

BWH Sound Barriers **27dB** (after insulation)

Build With Hemp's Green Eco Walls

The green noise barrier with unique properties

Soundproof Green Eco Wall

It is used as a noise barrier where a traditional one is not aesthetically pleasing. **This can be on the border between private land and public space, along parking lots, roads, and railway lines or courts.**

BWH Green Eco Walls can be perfectly integrated into the landscape. They are widely used by garden and landscape architects and urban planners due to their natural look and graffiti resistance, which ensures a large support among residents. The vegetation provides CO2 binding, oxygen production, and filtering of particulate matter.

BWH Green Eco Wall barriers provide optimal privacy from the moment of installation. A hedge protects the park or garden against outside eyes, noise nuisance, and other annoying environmental factors.

Installing a Green Eco Wall noise barrier, consisting of prefab elements, is very quick and can often be done without a foundation. This means fast installation and minimal disruption during construction but safe and secure.

BWH Classic ECO Green Wall

BWH Classic ECO Green Wall

Our noise barriers will help combat the nuisance as long as it is the right height and length and in the built in the right location.

Model	Application	Length	Height	Thickness	Price
BWH Cassette Standard	Commercial, Residential, Infrastructure	200 cm	100 cm	12 cm	On Request
BWH Cassette XL	Commercial, Residential, Infrastructure	400 cm	100 cm	12 cm	
Frames (Steel - Lumber)	On Request				
Bespoke	Options Available On Request				

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BWH Cassette Eco Wall

Technical specifications

Construction	Steel Cage (treated)
Filling	HempCrete reinforced in natural fibre
Planting	Various Climbing Plants (Ivy perfered)
Installation	Horizontal - Vertical

A 4-meter hemp wall can sequester around **531 kg of carbon dioxide,** helping to offset carbon emissions and contribute to a more environmentally friendly construction process.

Biodiversity Net Gain (BNG). Our products surpass all requirements for biodiversity across the UK build environment

Model	Application	Length	Width at Base	Width at Top	Height	Weight	Price
BWH100	Foundation	120 cm	80 cm	60 cm	100 cm	650 kg	On Request
BWH120	Commercial, Residential, Infrastructure	120 cm	40 cm	20 cm	120 cm	250 kg	
BWH180	Commercial, Residential, Infrastructure	120 cm	40cm	10 cm	180 cm	400 kg	
BWH200	Commercial, Residential, Infrastructure	120 cm	60 cm	20 cm	200 cm	600 kg	
BWH240	Commercial, Residential, Infrastructure	120 cm	80 cm	20 cm	240 cm	1000kg	
BWH 300	Commercial, Residential, Infrastructure	120 cm	80 cm	20cm	300cm	1250 kg	
BWH Bespoke	Special Projects						

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BWH Classic Eco Wall

Technical specifications

Construction	Trapezoidal steel cage (treated)
Filling	HempCrete reinforced in natural fibre.
Planting	Various Climbing Plants (Ivy perfered)
Installation	Stand-alone or on base

Hemp can sequester **1.62 tons of CO_2 per ton** of harvested hemp biomass.

The process of photosynthesis, where hemp plants absorb CO_2 from the atmosphere and convert it into carbon stored in their biomass

Biodiversity Net Gain (BNG). Our products surpass all requirements for biodiversity across the UK build environment

Why Build With Hemp?

Our Top 10 Reasons...

01

Sustainability
Hemp, a fast-growing and resource-efficient crop, requires minimal water and synthetic pesticides for cultivation.

02

Carbon sequestration:
Hemp's growth involves absorbing and storing carbon dioxide, making it a carbon-negative material that helps combat climate change by reducing greenhouse gas emissions.

03

Renewable resource:
Harvested and replanted annually, hemp ensures a continuous and sustainable supply of building materials.

04

Versatility:
Hemp offers diverse construction options, from hempcrete to insulation and panels, suitable for walls, roofs, and structural elements.

05

Energy efficiency:
Hemp-based materials provide effective thermal insulation, reducing energy consumption for heating and cooling, ensuring comfort indoors.

06

Durability:
Properly maintained hemp-based materials can be long-lasting, contributing to sustainable building practices.

07

Biodegradability:
Hemp products naturally break down without environmental harm after their useful life, promoting eco-friendly disposal.

08

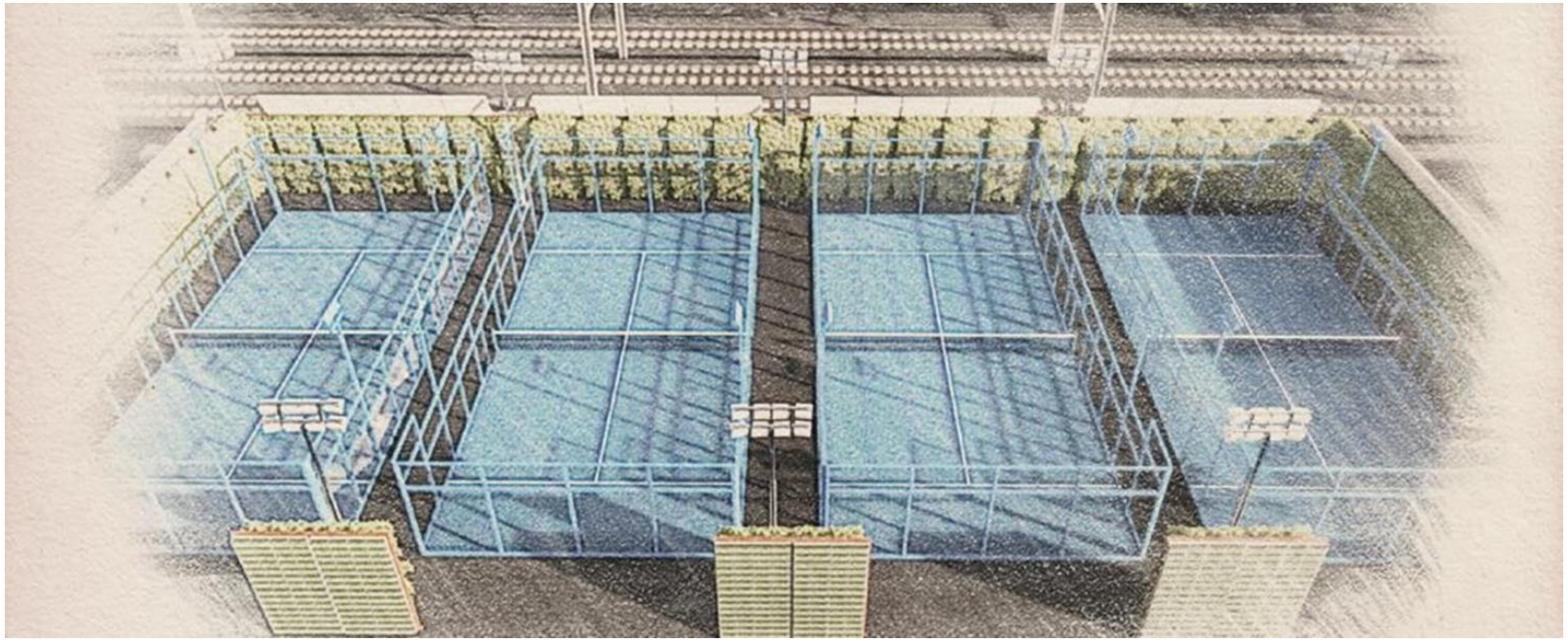
Health benefits:
Non-toxic hemp-based materials enhance indoor air quality and occupant health.

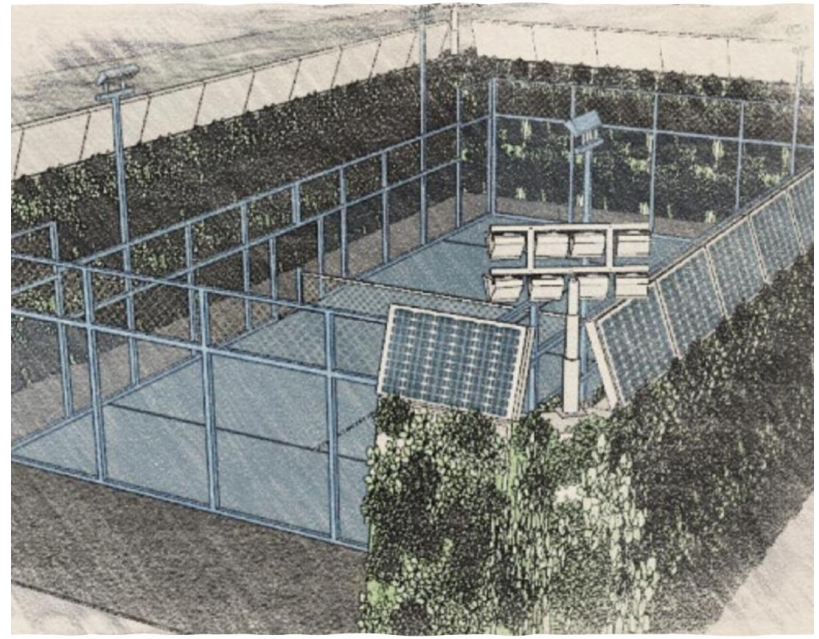
09

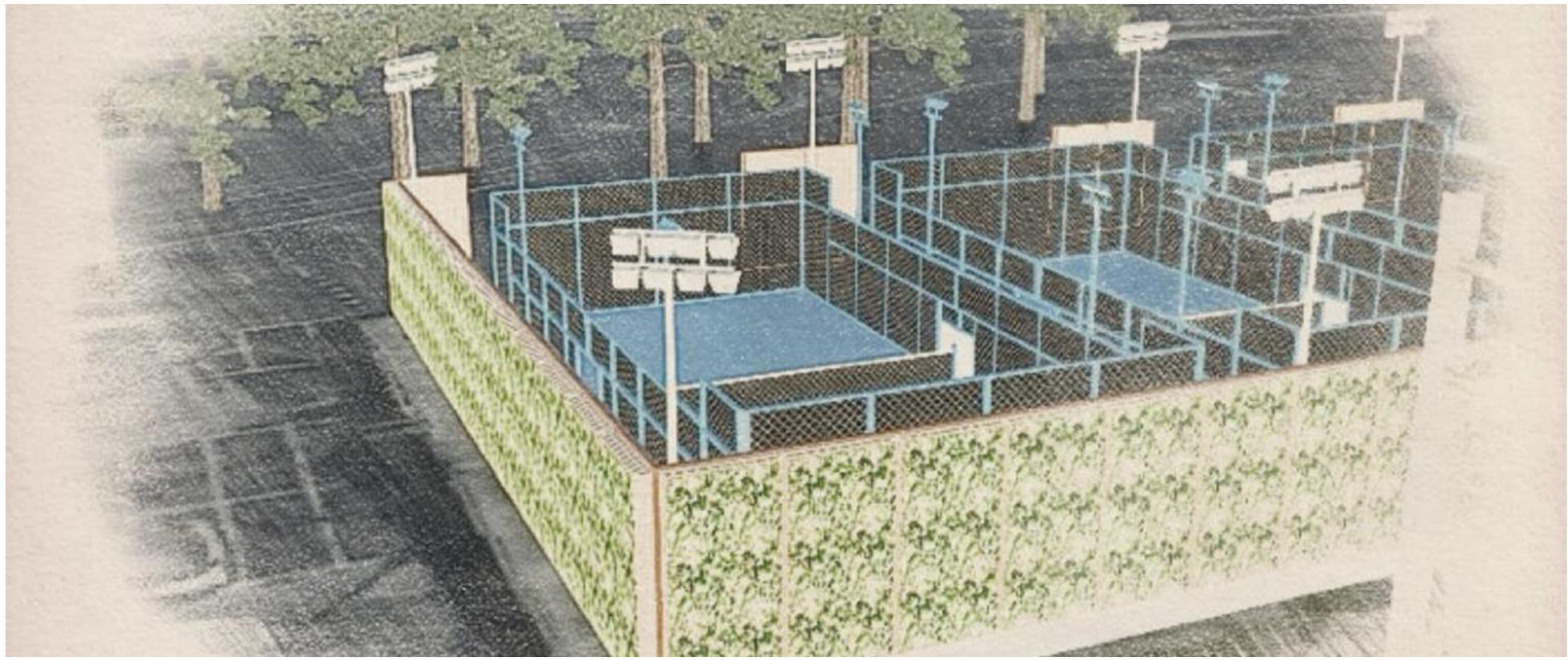
Cost-effectiveness:
Depending on location and availability, hemp proves cost-effective in the long run, considering energy savings and environmental advantages.

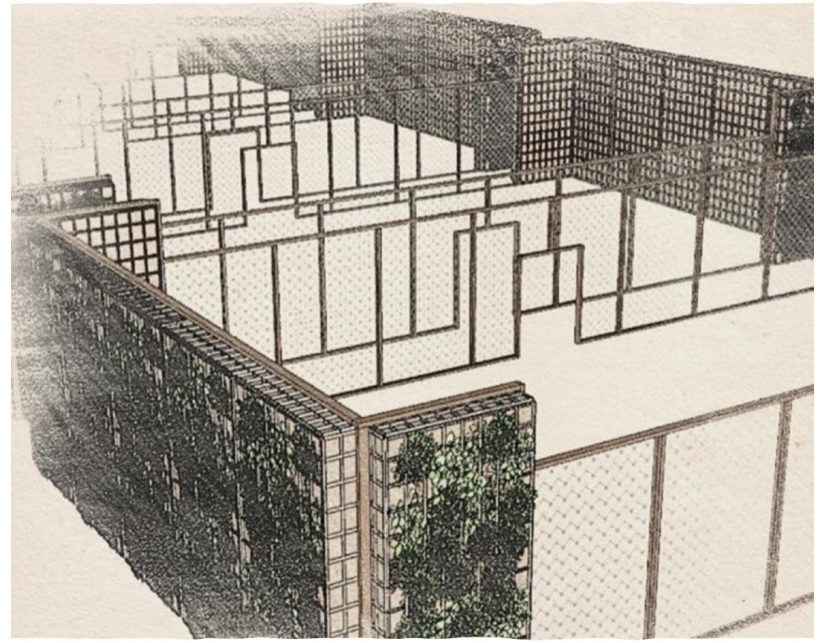
10

Biodiversity Net Gain
Surpassing all the requirements to meet BNG regulations in February 2024. Enhancing the natural environment with natural hemp products.









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"Never have we been so close to being able to make such a positive impact on the construction industry while prioritising people and the planet."

Michael Walker
C.E.O – Hemp Alliance Group.

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hemp alliance
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