EKHO
INFRASTRUCTURE SOLUTIONS

ramo



WOOD NOISE BARRIERS & FENCES

Effective, sustainable willow and larch wood products for noise barriers and fencing.

AN EXPERTLY DESIGNED NOISE BARRIER SOLUTION THAT COMPLIMENTS ANY COMMUNITY.

Promoting a Circular Economy

As cities expand and technologies advance, the need for sustainable infrastructure is becoming more prevalent. The focus on convenient and cost-effective solutions is shifting to more conscientious products with infinite lifespans. By choosing products that promote a circular economy, we significantly reduce raw material use, greenhouse gas emissions, and compel others to embrace the same principles.

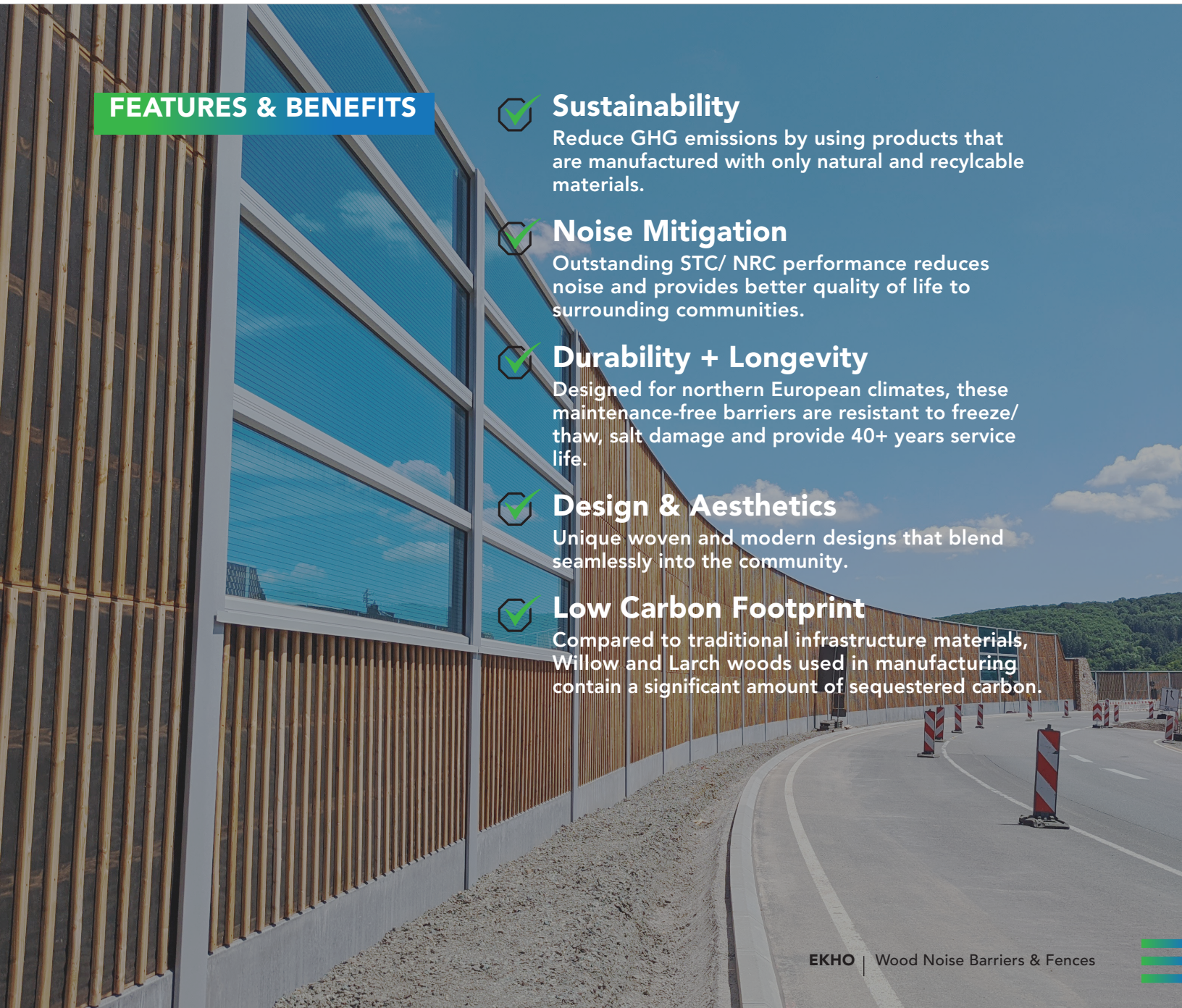
Our partners at Ramo share the same values and vision. As leaders in sustainability, they've turned to plant-based technology in Willow production to provide environmentally friendly solutions for the infrastructure sector and beyond.

APPLICATIONS

- **Residential Communities**
- **Aviation**
- **Transportation** (Highways, Bridges & Rail)
- **Commercial**
- **Industrial**

Why Willow & Larch Woods?

Willow and Larch woods are renowned for their strength, durability, and longevity, making them excellent products to use in outdoor infrastructure applications. As evident in the woven design patterns, Willow exhibits high flexibility and offers a distinctive design aesthetic while maintaining its strength and resilience. Larch holds a high resin content that acts as a protective barrier against moisture. These barriers provide outstanding longevity, offering a sustainable solution for noise reduction.



FEATURES & BENEFITS

Sustainability
Reduce GHG emissions by using products that are manufactured with only natural and recylcable materials.

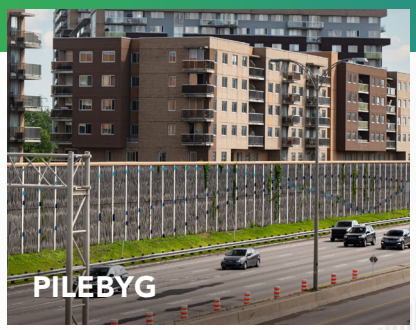
Noise Mitigation
Outstanding STC/ NRC performance reduces noise and provides better quality of life to surrounding communities.

Durability + Longevity
Designed for northern European climates, these maintenance-free barriers are resistant to freeze/ thaw, salt damage and provide 40+ years service life.

Design & Aesthetics
Unique woven and modern designs that blend seamlessly into the community.

Low Carbon Footprint
Compared to traditional infrastructure materials, Willow and Larch woods used in manufacturing contain a significant amount of sequestered carbon.

Noise Barrier Products



- Sleek woven design
- Maintenance-free
- Easy on-site installation
- Sound absorptive

Pilebyg WOVEN WILLOW WOOD

Incorporating European design expertise, the classic Pilebyg willow noise barrier boasts a Danish design that offers acoustic efficiency and environmental ingenuity. Featuring a woven facing and a mineral wool acoustic core, this product offers exceptional sound absorption.

Technical Information

Surface Density	STC	NRC	Height	Span
21 kg/m^2 4.3 psf	25	0.8	6'/8'/10'/11.5'	5'/8' or customized



- Modern design aesthetic
- 40-year service life
- Easy on-site installation
- Sound absorptive

HF1 (Henrich Fahlenkamp) LARCH WOOD

The HF1 larch wood noise barrier, designed in Germany, provides excellent noise mitigation and remarkable durability. Incorporating locally grown larch with acoustic mineral wool, it maximizes acoustic performance through innovative technology.

Technical Information

Surface Density	STC	NRC	Height	Span
over 27 kg/m^2 over 5.5 psf	32	0.8	5'/7' or customized	12' or customized



- Distinctive design
- Superior acoustic performance
- Maintenance-free
- Prefabricated for easy installation

The Hybrid (Pilebyg + HF1)

The perfect pairing of Danish design and German expertise. The Hybrid features a woven willow facing on one side, larch facing on the other, and an acoustic mineral wool core.

Technical Information

Surface Density	STC	NRC	Height	Span
over 27 kg/m^2 over 5.5 psf	32	0.8	5'/7' or customized	12' or customized

Fencing



PILEBYG FENCE

Pilebyg

No matter the complexity, we provide the necessary support and present the best options to make a project successful. Our systems are custom designed and engineered for real life applications.

- Sleek woven design
- Carbon negative product
- Maintenance-free
- Easy on-site installation

Height	Span
6'/8'/10'/11.5'	5'/8'

Graffiti Resistance

The major advantage of our Pilebyg noise barrier and fence products is their textured woven design, which creates an uneven surface that is uninviting to graffiti artists. Although rare to find graffiti on these barriers, it can be easily removed with a pressure washer or dried ice.



NATURAL WOOD BARRIERS EMBRACE CIRCULAR ECONOMY PRACTICES AND SUSTAINABLE CONSTRUCTION

Our Partnership

EKHO INFRASTRUCTURE SOLUTIONS + ramo

Low-carbon infrastructure is the future. Our quest from grey to green continues, as we respond to rapidly growing population and urbanization. These natural wood barriers embrace circular economy practices and enable sustainable construction within the infrastructure market.

Ramo is a company dedicated to solving environmental problems with nature-based technologies. Since 2006, Ramo has planted millions of trees, built tens of kilometers of sustainable fences and noise barriers, and managed millions of liters of wastewater with its Evaplant technology.







EKHO



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