PRODUCT FACTS THE NATUREBASED ACOUSTIC BARRIER

FACADES



DIMENSION

Width of element posts C-C	Height (standards)	Depth
CLASSIC 250 cm EASYPEASY 120 cm	100 cm, 150 cm, 200 cm, 250 cm, 300, 400, 500, 600 cm (EASY PEASY max 2,0 M H)	225-350 mm

NOISE DATA

Noise data	120 mm core	240 mm core CLASSIC only)	Rockwool core certified according
Noise isolation DL _R	22 dB (category B2).	32 dB (category B3).	to EFIC (European Fire & Conduc- tivity Laboratory) and classified as
Noise absorption $DL\alpha$	9 dB (category A3).	5 - 11 dB (category A2).	A1 to fire reaction.
R _w -value	26	37	

LIFE EXPECTANCY AND MAINTENANCE

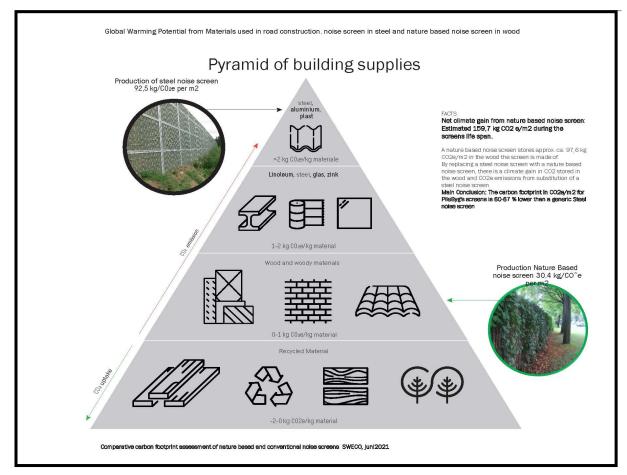
- Life expectancy: CLASSIC + 36 years EASYPEASY: + 25 years
- CE-certified according to DS/EN 14-388.
- NATUREBASED NOISE BARRIER is a concept developed to ensure none or an absolute minimum of maintenance. Only:
- Facades of living willow requires pruning (each or every second year) and on some locations irrigation during establishing years.
- Ivy: Fertilizing + attaching the greenery to the barrier during first years of establishment.

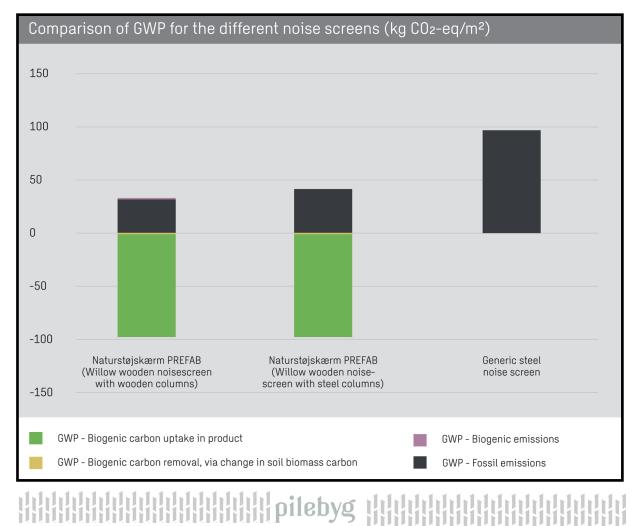
MATERIALS & MOUNTING

- Principle with posts of certified acacia or steel.
- Foundation of posts in concrete; reinforcement when required + socket shoe. Alternately foundations screws
- Core of mineralwool: Lapinus dual density 200/80 kg/m³
- Laths above ground of lark
- 3-5 year old willow rods, diameter 25-70 mm depending on the design.
- Mounting according to installation guideline. Hot-line for technical support.

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PRODUCT FACTS - CLIMATE DATA THE NATUREBASED ACOUSTIC BARRIER

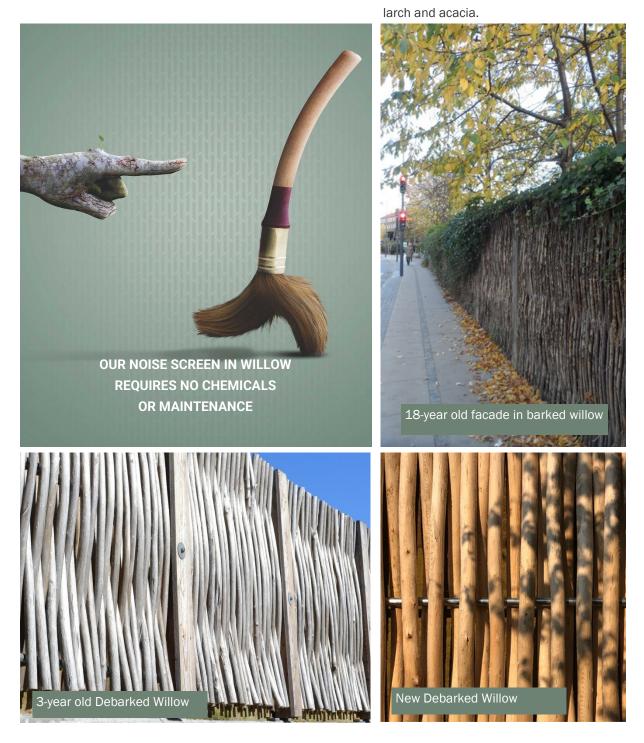




PRODUCT FACTS - MAINTENANCE THE NATUREBASED ACOUSTIC BARRIER

FACADES IN WILLOW AND MAINTENANCE

An environmentally sustainable design demands a smart and extensive maintenance strategy. THE NA-TURE BASED NOISE BARRIER does not require maintenance (unless it is living willow). The dried and whole rods in contrast to sawn wood is not "opened" Boards and panels have open or fractured wood fibers. Whole rods of willow has no damaged fibers and for that reason they age with a beautiful elegance. We always recommend planting by the facades to increase lifespan, improve habitat and increase carbonuptake through the ivy. The structural inetregrity of the facades is estimated based on steel and wood of



PRODUCT FACTS - GRAFITTI THE NATUREBASED ACOUSTIC BARRIER

GRAFFITI

A Natural looking and raw, uneven facade, does not invite to tagging or grafitti - Experience tells that when grafitti has been attempted on Nature based facades, the attempt has always failed. Painting on the willow seldomly succeeds The paint disappears in the uneven facade. Time has also revealed that the natural aging of the facade results in grafitti fading this is unique to the design of the PileByg Nature Based Noise Screen. A Couple of photos illustrate this principle.



Same location in Copenhagen with a year between. This facade is a rare example of gra-

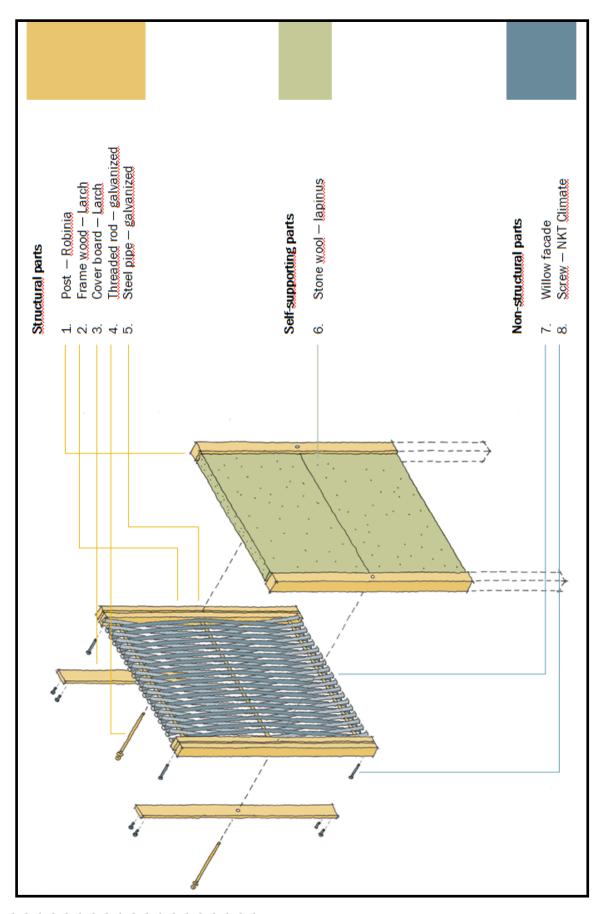




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PRODUCT FACTS - OUTLINE THE NATUREBASED ACOUSTIC BARRIER



PRODUCT FACTS - PREFAB THE NATUREBASED ACOUSTIC BARRIER

Principle of installation



PRODUCT FACTS - CE-MARK THE NATUREBASED ACOUSTIC BARRIER

CE-CERTIFICATE

		CE	EXAMPLE
		0199 1136	
		PileByg A/S Ville- rup Hovedgaard Villerupvej 78 9800 Hjørring Denmark	
	DS/EN 14388:2006,	DS/EN 1794-1:2003 and DS/EN	1794-2:2003
		e Screen for reduction of trafic r BASIC+ / CLASSIC Width = 250	
Acousti		reated willow, debarked Williov insulation, type: RockDelta Ston	
Dry and decreased v	wet weight of an acoustic Dry vægt Decreased	c element: wet weight	Ca 32 kg/m² Ca 43 kg/m²
F	Characteristic values): Pressure Strenght f _{c.0,k} , _k =235 MPa	Bending stength $f_{m,k}$	Elasticitymodule E⊧ 2100GPa
Resisteance to loads above Max load (*if characteristic value): Maximum vertical load an element can withstand:			1,0kN/m*
Normal (90 ²) lo	oad an acoustic element	can withstand (caused by wind	and static) 0,94 kN/m ^{2*}
Normal (90º) lo lumns	oad a structural element	can withstand (Caused by wind	, weight og static): co-
Reglar C24	Dim. 2"x 5-6"	1,60 kN/m	
	Sound Absorption: [DL_{α}	9 dB
Airborn sound isolation: DLR		22 dB	
	sound reduction index: Rw		26 dB
	Reflection of light:		NPD
	Risk of falling components:		Klasse 0
	Expected lifspan:		
Lifespan, Acoustic Element: Lifespan, Structural Element:			50 år +36 år



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