BurntWood

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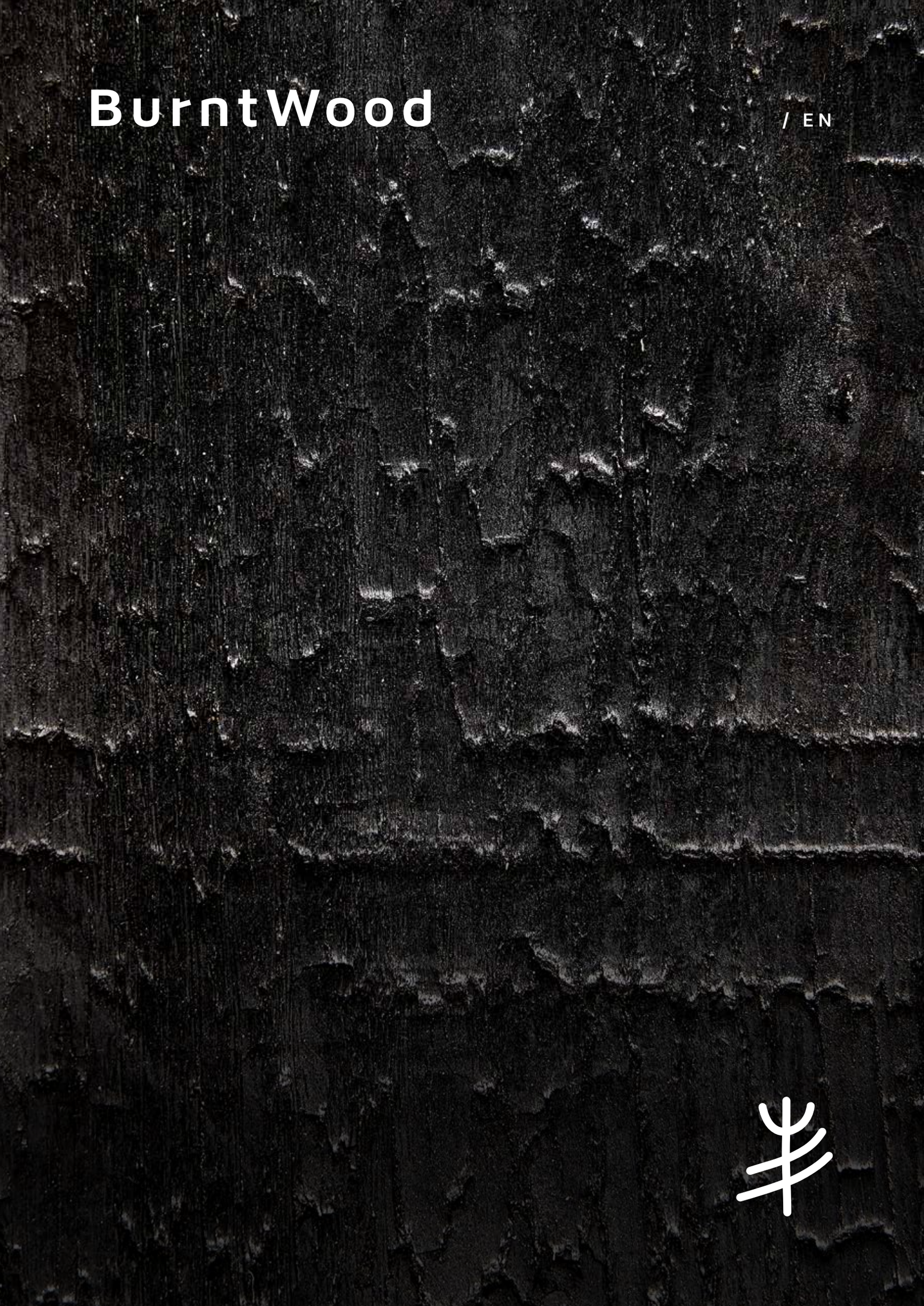


We breathe new life into the black facade

BurntWood is a Danish company specializing in burnt wood - a more durable and environmentally friendly alternative to black painted facade cladding, where we burn the wood using its natural substances to create a beautiful, chemical-free and maintenance-free surface that plays with light from shiny silver to jet black.

With roots dating back to Viking times, BurntWood continues the age-old tradition of wood treatment with a modern approach that combines history with today's requirements for documenting sustainable building and design.

Our mission is to bring timeless engineering into the future and deliver more durable and recyclable wood products that are as functional and aesthetically beautiful as they were centuries ago.

It all started with a passion for sustainability and craftsmanship

BurntWood was founded in 2018 by Anders Mølgaard and a group of enthusiasts with a shared vision to create a façade that requires minimal maintenance without the use of toxins or materials that cannot grow or be recycled.

BurntWood was the first company in Denmark to specialise in facade cladding made from burnt wood and today has two factories located in Aarhus. One factory has a production line for ReUse modules made from recycled wood, ensuring even more sustainability and a unique expression where no two elements are alike. The other factory has a production line for burntwood facade boards that can be made from either recycled or new wood

At BurntWood, we follow the architect and the client's thoughts and wishes closely, and remain in open dialogue with the customer. BurntWood delivers the cladding in the desired profile to achieve that vision.

ANDERS MØLGAARD

Anders Mølgaard, the founder of BurntWood, is originally trained as a carpenter and has participated in numerous sustainable building projects around the world throughout his craftsman career.

Here he developed his passion for environmentally friendly building solutions. Anders is still the man behind the project, but today BurntWood is backed by a strong network of professionals who share a common vision of promoting green building solutions.

"The technique is very old and was used by both the Vikings and later in Japan, where the method was refined. The genius of it is that burning the wood gives it a natural impregnation and a durability of approximately 50 years."

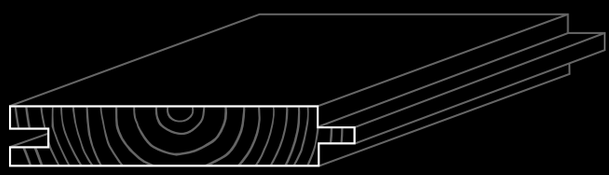
Raw elegance and natural integration with the surroundings

For BIG, BurntWood has supplied burnt facade cladding for the bathhouses, located on Aarhus Ø. The aim was to create a unique expression and pattern in the facades of the tiny houses, which contributes to the raw, natural and cosy atmosphere on the water-front in Aarhus.

The facade is constructed with a rotating pattern that turns the houses into small art installations for passers-by to experience. The wood is medium-fired to bring out the weathered look quickly.

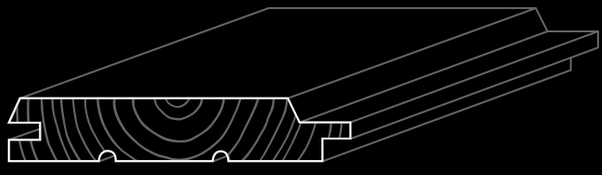
FACTS /

CLIENT	Kilden og Hindby
ARCHITECT	BIG
FACADE AREA	1.200 m²
YEAR OF CONSTRUCTION	2019
LOCATION	Aarhus Ø
PROFIL	Shiplap boards 5”



The burnt wood creates a unique story and atmosphere

In connection with the construction of two new fire stations in Aarhus, they wanted to create a unique expression that could show the buildings functionality and history while adding a modern touch. Burnt wood facades were the solution, and BurntWood supplied complete facade cladding for the two fire stations, which today stand as beautiful, durable and maintenance-free lighthouses for Østjyllands Brandvæsen.

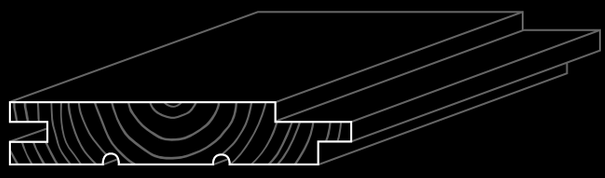


FACTS /

CLIENT	Østjyllands Brandvæsen
ARCHITECT	CUBO
FACADE AREA	1.100 m²
CONSTRUCTION YEAR	2021/2022
LOCATION	Aarhus N
PROFILE	TGU 5" 6" & 7"

REFERENCE / FIRESTATION, AARHUS S

The burnt wooden facades create a unique and streamlined look that evokes associations with flames and natural forces. The two fire stations are designed with the same vision, so they harmonise beautifully with each other while still standing out with different profiles and patterns. Each station presents its own unique character, which stands out with the other materials and textures.



FACTS /

CLIENT	Østjyllands Brandvæsen
ARCHITECT	CUBO
FACADE AREA	1.100 m²
YEAR OF CONSTRUCTION	2022/2023
LOCATION	Aarhus S
PROFILE	TGU 5" 6" & 7"

Designing something as iconic as a fire station is something very special, a task that the team of consultants approached with both knowledge and experience in technical construction and sustainability, which is also reflected in the architecture and the choice of burnt wood for the facades.

Tradition meets sustainability in burnt facade cladding

THE BEAUTY OF THE NATURAL

BurntWood is a sustainable alternative to traditional facade cladding. It is based on an old impregnation method that can be traced back to Viking times and was later refined in Japanese building culture. By burning the top millimetres of the wood, sugars and the wood's ability to absorb water are removed, creating a surface that is both beautiful and extremely resistant to wind, weather and algae growth.

Also known as the Japanese "SHOU SUGI BAN", this method ensures that microorganisms have nothing to feed on, ultimately protecting the wood from rot. This impregnation does not require the use of chemical substances, as the wood is thermofixed and forms a carbon layer that acts as protection. As a result, BurntWood has a life expectancy of up to 50 years, during which time there is minimal maintenance of the material.

The BurntWood treatment gives each board a unique surface that varies from jet black to shiny silver, giving facades a vibrant and varied appearance depending on the weather.

The unique patination, known as "Wabi Sabi," symbolises the beauty of aging and the natural life cycle. As the wood patinas, it tells a story all its own.

FSC AND PEFC LABELLED WOOD

To give the wood an extra protective layer, it is impregnated with a water-based primer specially developed by BurntWood. The primer ensures that the facade does not rub off too much.

BurntWood only uses FSC and PEFC labelled wood, ensuring that forest reproduction and biodiversity are protected. This responsible approach guarantees that work in the forests is carried out under safe conditions for employees - and the same is true at our factories in Denmark.

The BurntWood treatment is maximally energy efficient. Offcuts from ReUse modules are used to heat the ovens and minimal gas is used for afterburning, only between 10 and 20 grams of gas per m^2, which is significantly less than the approximately 1000 grams of gas per m^2 required when using a roofing felt burner.

By choosing BurntWood, you not only get a unique and aesthetic facade, but also a product that is more responsible and sustainable, making it an ideal choice for modern and sustainable construction.

BENEFITS ON SEVERAL PARAMETERS

+ SAVE MONEY AND TIME

BurntWood is a more cost-effective solution per m² over time compared to painted wood, as it eliminates the expenses of ongoing maintenance and labor costs.

+ MINIMAL MAINTENANCE AND LONG SERVICE LIFE

BurntWood requires minimal to no maintenance, unlike painted wood, which typically needs refinishing every 5–7 years. With a life expectancy of up to 50 years, BurntWood offers a durable and cost-effective long-term solution.

+ A SUSTAINABLE AND NATURAL CHOICE

BurntWood utilises an impregnation method that does not require chemical substances. The production of BurntWood has a lower CO2 consumption compared to traditional methods, and BurntWood can be recycled, which extends the life of the life cycle of the material.

+ DANISH PRODUCTION AND GUARANTEE

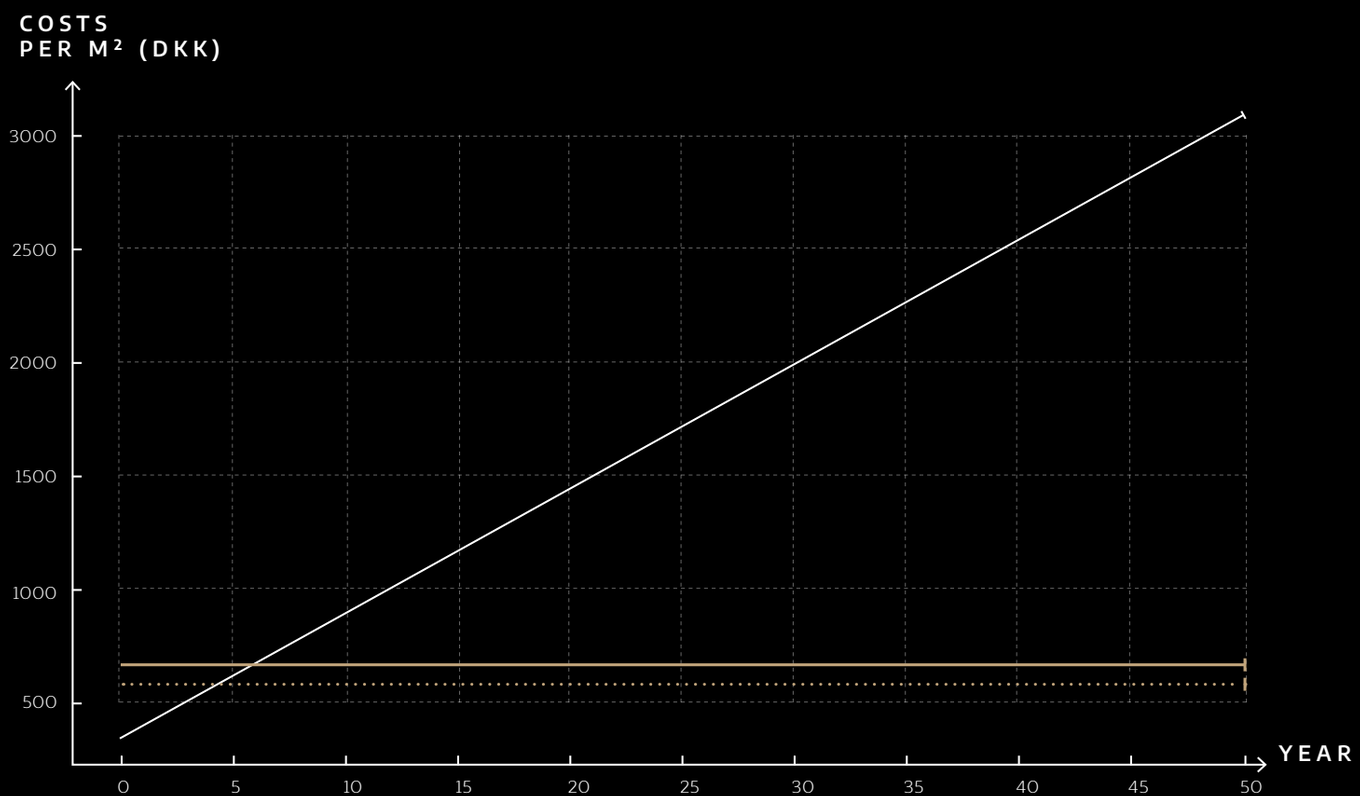
BurntWood burns the wood at two production sites in Aarhus. We are PEFC certified and always provide the necessary documentation and quality assurance required to meet the demands of sustainable construction today.

COSTS DURING THE LIFETIME OF THE TREE

The graph shows the setup and maintenance costs of 50 m² BurntWood compared to traditional painted wood in the life expectancy of 50 years. Costs are based on a craftsman hourly rate of 450 kr/hour.

	Initial cost
PAINTED WOOD	350 kr. / m²
REUSE-MODULES	675 kr. / m²
BURNTWOOD	450 kr. / m²

*all prices are excl. VAT



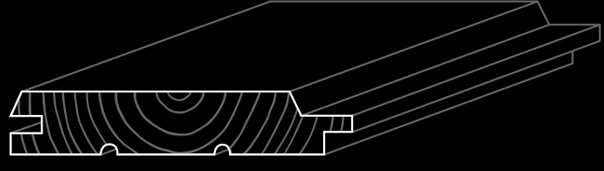
REFERENCE
/ AL2 HOUSING ASSOCIATION, TRANBJERG

Maintenance-free housing association that invites nature inside

BurntWood has delivered burnt wood facades to a large residential complex in Tranbjerg, where the goal was to create a maintenance-free and sustainable facade that harmonises well with nature on the doorstep. BurntWood's solutions create an environmentally friendly and long-lasting surface while adding depth and character to the buildings, contributing to a harmonious expression with the surrounding nature.

FACTS /

CLIENT	AL2
ARCHITECT	CUBO
FACADE AREA	6.000 m²
YEAR OF CONSTRUCTION	2023
LOCATION	Tranbjerg
PROFILE	Design 5”



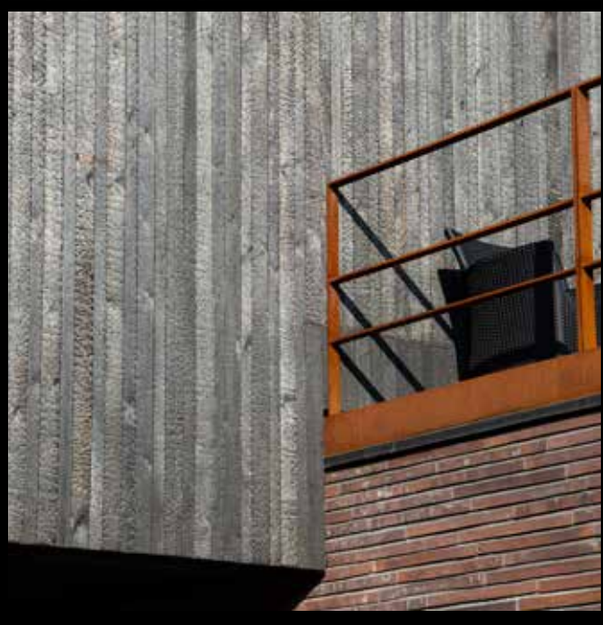
REFERENCE
/ PRIVATE VILLA, HOLTE

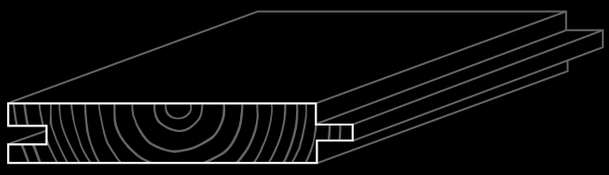
Modern and unique expression for exclusive villa

BurntWood has delivered burnt wood facades for an exclusive private villa near the water in Holte, north of Copenhagen. The facade is a central part of the villa's modern and aesthetic expression, where the interplay between brick, iron and the burnt wood superstructure creates an elegant harmony. The result is a beautiful and maintenance-free home that naturally interacts with both nature and the exclusive materials chosen.

"I was convinced that the base of the house should be built of brick and suggested to the client to use BurntWood for the upper floor. It would create a nice harmony between the chosen Kolumba bricks and the wood. At the same time, we would achieve the beautiful light reflection in the dark wooden facade, which has a beautiful texture"

/ TUE TEINAR ELSKÆR





FACTS /

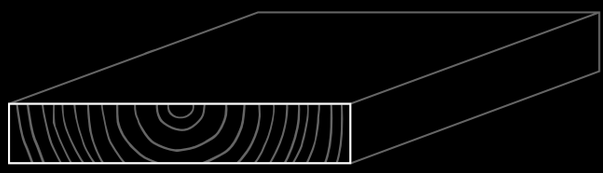
CLIENT	Private
ARCHITECT	Tue Teinar Elskær
FACADE AREA	222 m²
YEAR OF CONSTRUCTION	2020
LOCATION	Holte
PROFILE	Shiplap boards 2" 3" & 5"

Japanese and Nordic design merges with burnt wood

For the architect couple Masahiro Katsume and Mette Fredskild, BurntWood supplied burnt wood for their unique holiday home, which is beautifully located in the middle of the forest near Kulhuse. They wanted to combine Japanese architecture with Nordic design and craftsmanship, and BurntWood was an obvious choice as the method unites the two cultures. The material also makes the cottage maintenance-free, and the look only gets more beautiful with age.

FACTS /

CLIENT	Private
ARCHITECT	Masahiro Katsume and Mette Fredskild
FACADE AREA	333 m^2
YEAR OF CONSTRUCTION	2018
LOCATION	Kulhuse
PROFILE	2", 4", and 6" square-edged boards



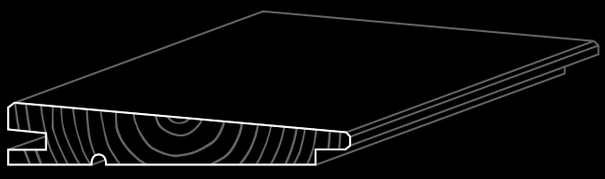
"We wanted a house that was different from a modern new build with all the necessities, and the fact that there is no maintenance is a huge advantage; it just gets more beautiful over the years."

/ MASAHIRO KATSUME

We burn all types of profiles

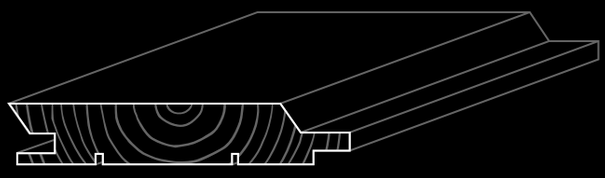
At BurntWood, all profiles are burned in either recycled or new wood. We always work in close dialogue with the architect and/or builder to ensure that we burn and deliver cladding in the desired profile. The following is therefore just a selection of some of the most common profiles.

PROFILES /



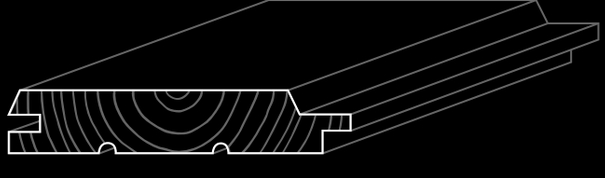
KLINK

The Klink profile creates a classic look with overlapping boards for a robust and traditional appearance. It is ideal for buildings that want to combine modern elements with timeless charm.



DESIGN

The Design profile is tailored to achieve a modern and clean look. It offers versatility in design, making it possible to create unique facades that reflect the character and function of the building.



TGV

The TGV profile provides a streamlined finish. It is perfect for facades where you want a smooth and continuous surface that can be used both horizontally and vertically.

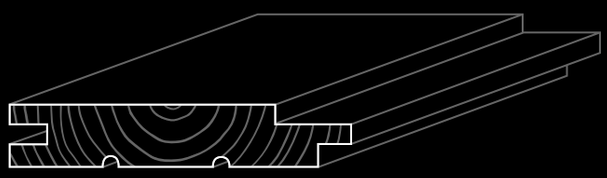
BURNT PROFILES IN NEW OR RECYCLED WOOD

When choosing a BurntWood solution, you can choose between profiles in either recycled or new wood. With new wood, you have more control over the final look and desired lengths. The surface colours vary from jet black to shiny silver. Each board has its own expression depending on density, humidity and firing, which together create a beautiful, lively play in the façade.

BurntWood's profiled recycled boards are derived from transport beams from the wind turbine industry. They measure 20 x 25 cm and are between 300 - 380 cm long. They have been joined together with threaded rods instead of nails, making it possible to run them through a profiling machine to get the desired profile.

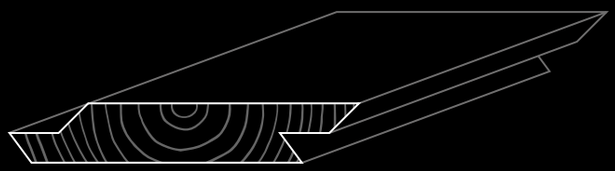
BurntWood profiles the wood with tongue and groove at the ends to create floating joints. This minimises waste and speeds up installation.

Burnt recycled wood often has more character and history, with unique marks and nicks that create a unique and rustic aesthetic not found in virgin wood. Choosing recycled wood reduces the overall environmental impact as recycled materials require less energy, fewer resources and count 0.00 in LCA (life cycle assessment).



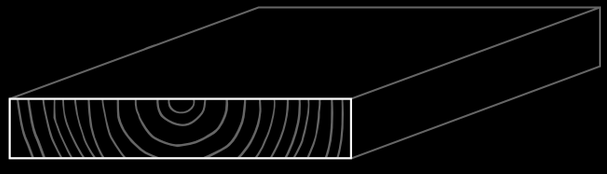
TGU

The TGU profile offers a similar finish to TGV, but with a different angle design used for vertical facades.



Z-PROFILE

The BurntWood Z-profile is designed to be used vertically and horizontally. It provides a tight and flexible finish, as you can easily replace a board that has been damaged during installation. It can also be made tongue and grooved at the end for less waste and faster installation.



KANTSKÅRET

The Kantskåret profile creates a classic and elegant look as 1 on 2 panelling. Edge-cut boards are also used for finishing around windows and doors and for corner joints.

BurntWood ReUse modules

In addition to the burnt profiles, BurntWood offers ReUse modules that add a unique look to any facade while being an even more sustainable alternative.

BurntWood collaborates with several of the country's contractors, demolition companies and recycling centres, so they can give the handed-in waste wood new life in various composite modules. This not only extends CO2 storage, but also avoids the need to cut down new trees for each project, making the carbon footprint more positive.

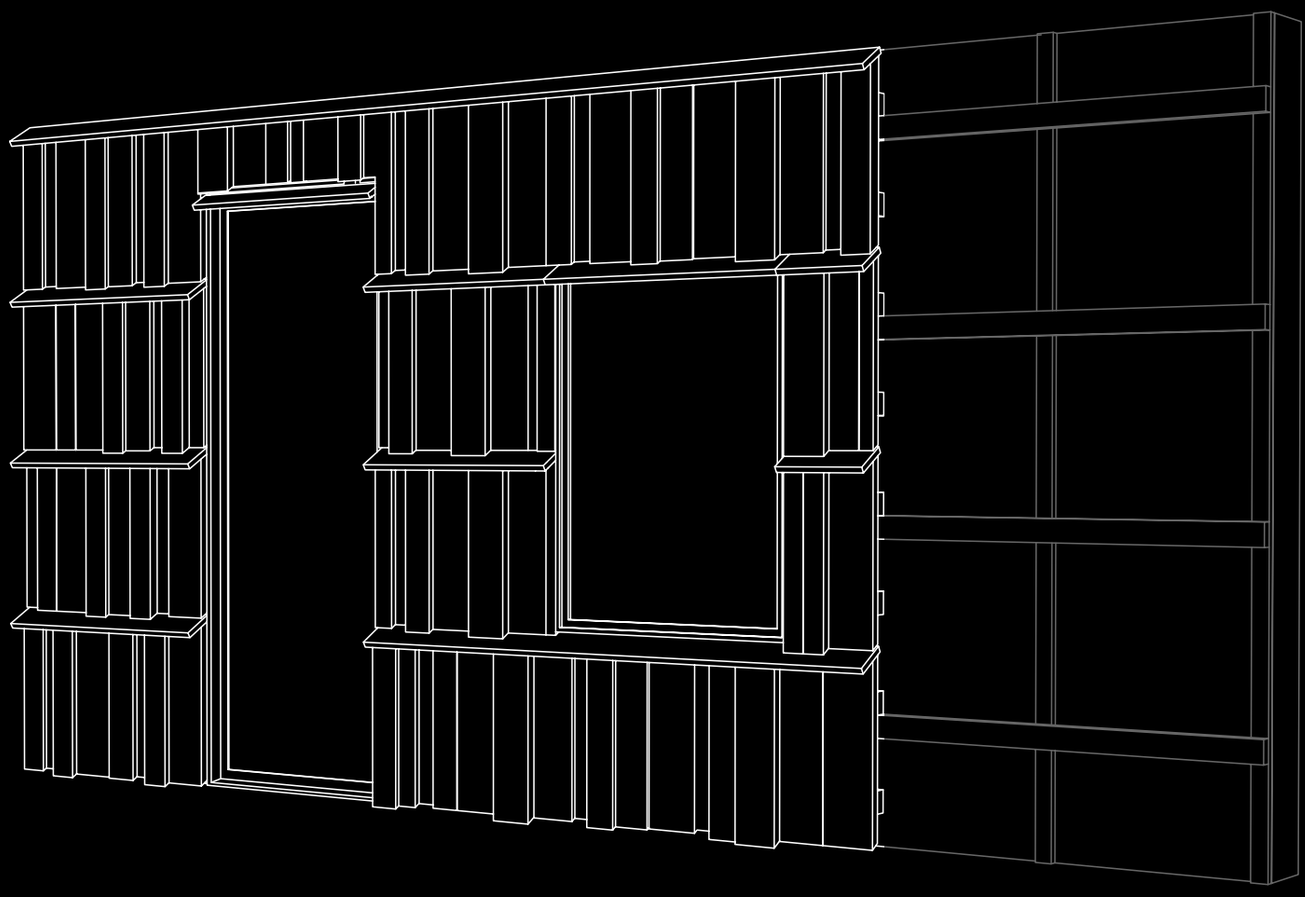
REUSE MODULES OF DIFFERENT DIMENSIONS

At BurntWood, we have developed an effective method to reuse the wood, where different dimensions, lengths and colours are not a hindrance, but rather an advantage for the architectural expression.

Our ReUse modules can be made from pieces as small as 75 cm in length and from 19 mm to 50 mm in thickness, ensuring that we utilise the majority of the wood delivered to recycling centres.

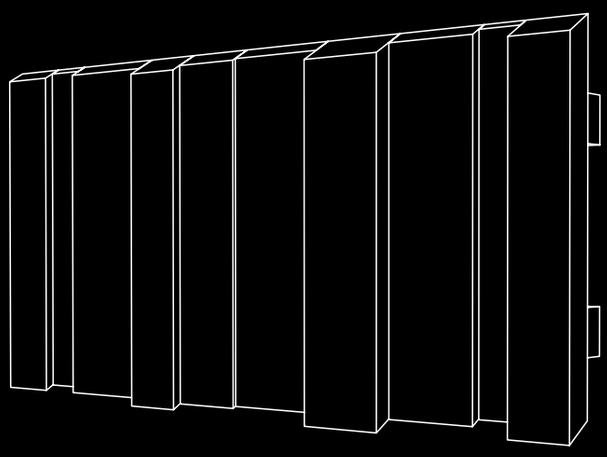
The wood is processed in collaboration with companies that are passionate about the social agenda and helping citizens into the labour market. We buy the ReUse modules from them, as it is important to us that it is economically sustainable for everyone in the loop. We call this SØM! Which, translated, stands for Socially, Economically and Environmentally Sustainable.

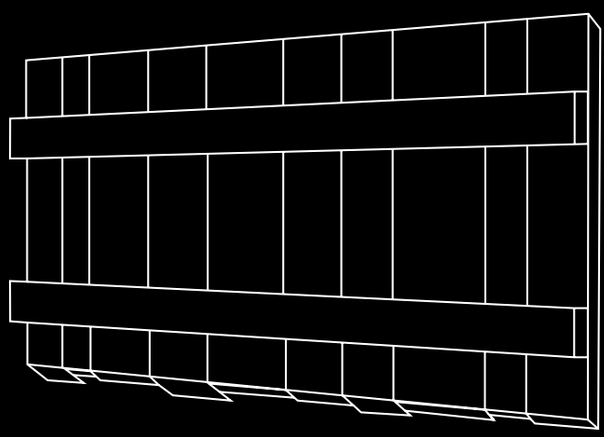
WALL VISUALIZATION



FRONT AND BACK

120 x 70 x 10 cm





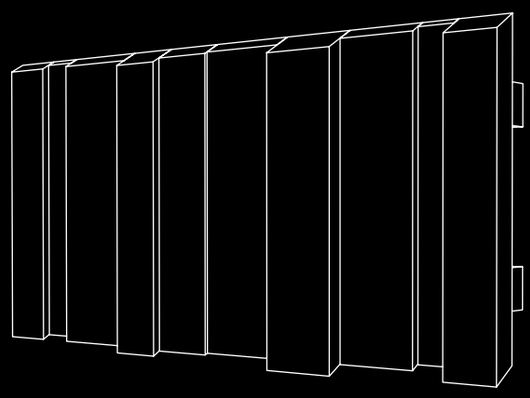
REFERENCE
/ TCSHERNING HOUSE, HEDEHUSENE

ReUse modules signal social and environmental responsibility

Recycling was key in the renovation of the Tscherning headquarters, and BurntWood supplied ReUse modules for the facade that not only add a sustainable and maintenance-free solution, but also contribute to the modern look of the building, harmonising with Tscherning's values of recycling and responsibility. The ambition for the project was to maximise the use of recycled and upcycled materials, and the BurntWood ReUse façade played a key role in this.

FACTS /

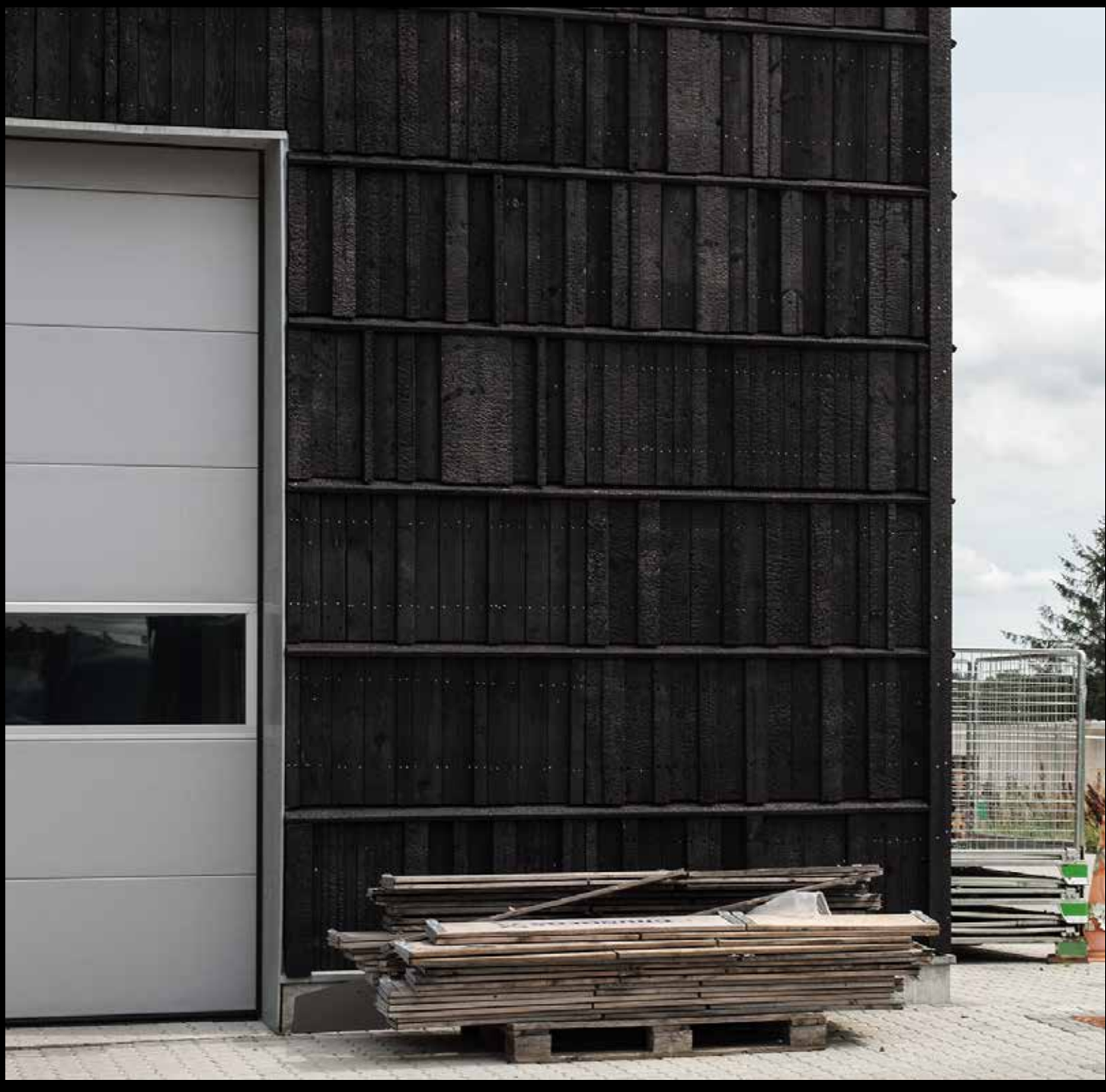
CLIENT	Tscherning G. A/S
ARCHITECT	3XN
FACADE AREA	50 m²
YEAR OF CONSTRUCTION	2024
LOCATION	Hedehusene
PROFILE	ReUse module



"Working as dedicated to circular transformation as this project does show some interesting new aspects of architecture and renovation. The recycled materials can open up creativity and create different built environments with a different aesthetic."

/ TSCHERNING

Recycling centre goes all the way with burnt recycling facade



BurntWood has supplied ReUse modules for the new recycling centre in Brædstrup, where the focus has been on sustainability and recycling. By using recycled wood and BurntWood's burning technique, the station has a facade that is both maintenance-free and environmentally friendly. The burnt wood modules add a rustic and natural look that perfectly suits the purpose of the recycling centre and helps create a functional building with a modern feel.

"As a municipality, we want to lead the way and experiment with how we can become better at recycling building materials, and we want to inspire others to do the same"

/ NIELS HOLM ØRNSTRUP, HEAD OF WASTE AND RECYCLING IN HORSENS MUNICIPALITY

FACTS /

CLIENT	Horsens Municipality
ARCHITECT	Jens Peter List
FACADE AREA	300 m²
YEAR OF CONSTRUCTION	2022
LOCATION	Brædstrup
PROFILE	ReUse module

Historical authenticity and timeless design united in burnt wood

In the heart of Zealand, as part of UNESCO's World Heritage list, lies the Viking Ring Fortress Borgring in Køge. Here, BurntWood has helped recreate an authentic and durable façade that honours the past while meeting today's requirements for sustainability. By using the ancient technique of burnt wood – known already in Viking times – the design achieves both historical accuracy and exceptional resistance to the elements. The result is a façade that weathers beautifully over time and adds to the unique atmosphere surrounding one of Denmark's most important Viking fortresses.

"Borgring conveys the Viking Age, and as architects we were inspired by the Vikings' unique charring technique – a method of burning wood to preserve buildings. Today, the façades and foyer cladding tell the story of the Viking Age through both the tactile surface and the characteristic feel of burnt wood. In this way, museum visitors are intuitively led back into history. At the same time, the charred wood captures the dark, captivating, and fascinating universe we associate with the Viking Age. At LOOP, we always focus on reuse and recycling, which is why we chose BurntWood ReUse."

/ THOMAS KRANZ, PROJECT MANAGER, LOOP ARCHITECTS

FACTS /

CLIENT	Borgring Foundation and Museum Sydøstdanmark
ARCHITECT	LOOP Architects
FACADE AREA	900 m^2
YEAR OF CONSTRUCTION	2025
LOCATION	Køge
PROFILE	ReUse module

Safe and responsible construction

DBI
DANISH INSTITUTE OF FIRE TECHNOLOGY

BurntWood holds the mandatory Reaction to Fire Classification Report, and can document that the standard treatment achieves a **C-s1-d0** rating, indicating minimal contribution to fire, low smoke emission, and no flaming droplets.

PEFC
PROGRAMME FOR THE ENDORSEMENT OF FOREST CERTIFICATION

Your guarantee for responsible forest management.

BURNTWOOD TREATMENT
ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Documentation of a product's environmental impact — BurntWood ranks among the lowest.

EPD (REUSE-MODULES)
ENVIRONMENTAL PRODUCT DECLARATION

Environmental Product Declaration showing environmental burden — here, BurntWood Re-Use-modules count as **0.00** in LCA (Life Cycle Assessment) calculations.

DGNB
GERMAN SUSTAINABLE BUILDING COUNCIL

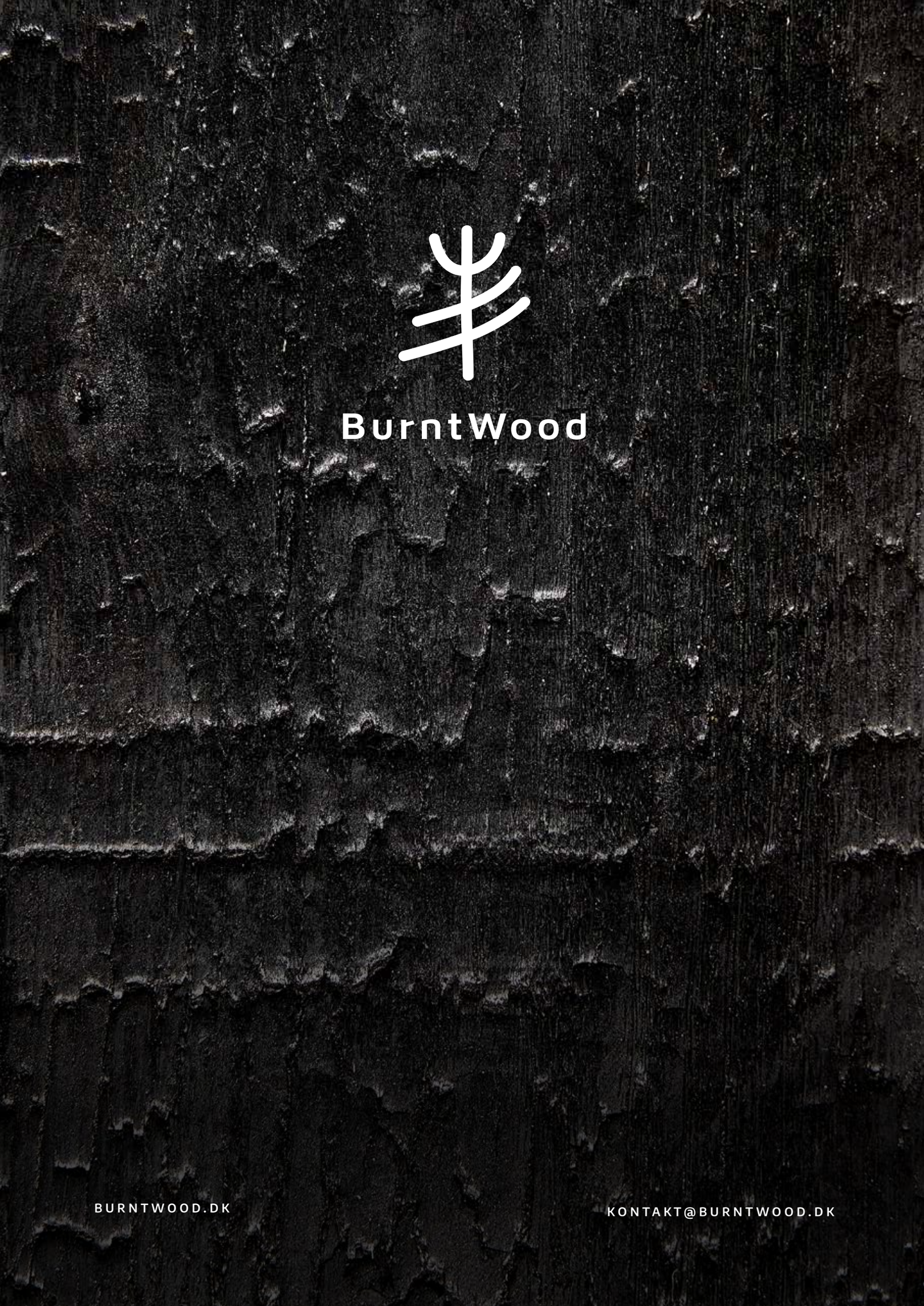
A voluntary certification scheme for sustainable construction and building.

CE
CONFORMITÉ EUROPÉENNE

The CE mark demonstrates that a product has been assessed by the manufacturer to meet the EU's health, safety, and environmental protection requirements.

DoP
DECLARATION OF PERFORMANCE

The DoP is the foundation for the CE mark. It contains all information about the manufacturer, the building product, and its performance.



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