



MATERIALUX  
Thermowood

# THERMOWOOD IN ARCHITECTURE

## SAUDI ARABIA PROJECTS

### 2020 - 2024



  
LUNAWOOD

 مجموعة فيان  
FIAN GROUP

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# ABOUT THERMOWOOD

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THERMOWOOD is the result of a patented wood treatment that minimizes the moisture content of the wood, product is achieved through evaporation and exposure to extreme heat 180-220 C.

The high temperature alters the physical and chemical properties of the wood and improves its performance.

The treatment increases the durability and stability of the wood, making it more resistant to decay.

Thermowood has less tendency of warping, swelling, and shrinkage in comparison to untreated wood, due to reduced moisture content. Additionally, Thermowood offers improved insulation properties as the thermal conductivity of the wood is reduced. In appearance, Thermowood is recognizable by its warm brown tone, which is even throughout the profile.



-  100% NATURAL MATERIAL, CHEMICAL & RESIN FREE
-  SOURCED FROM SUSTAINABLE SCANDINAVIAN PINE & SPRUCE
-  FOR ALL CLIMATES
-  MODERN & APPEALING DESIGNS
-  EASY TO MACHNE & FABRICATE
-  HIGH QUALITY & ENVIRONMENTALLY CERTIFIED
-  DIMENSIONAL STABILITY & LENGTHS UP TO 5 M

### PRODUCT'S APPLICATIONS



### TECHNICAL CHARACTERISTICS

|                                 |  |                                    |
|---------------------------------|--|------------------------------------|
| Density                         | 42 kg / m <sup>3</sup>                   |                                    |
| Reaction to fire                | D-s2, d0                                 |                                    |
| Screw traction resistance       | 19,45 +- 1,47 N/mm <sup>2</sup>          |                                    |
| Thermal conductivity            | 0,09 W/mK                                |                                    |
| Durability class                | Class 2 Thermo-D                         |                                    |
| Use class                       | Class 3 Thermo-D                         |                                    |
| Stability, shrinkage & swelling | Tangential 4% - Radial 2%                | (fibre direction)                  |
| Equilibrium moisture content    | 6,40% pine                               | - 7,30% spruce                     |
| Brinell hardness                | 1,4 N/mm <sup>2</sup> pine               | - 1,52 N/mm <sup>2</sup> spruce    |
| Janka                           | 1700 N                                   |                                    |
| TVCO                            | Thermo-D 0,077 pine                      | - 0,022 mg m <sup>2</sup> h spruce |
| CO <sub>2</sub> emissions       | 117 kg CO <sub>2</sub> eq/m <sup>3</sup> |                                    |

# AURA VILLA

Riyadh, Saudi Arabia, 2023

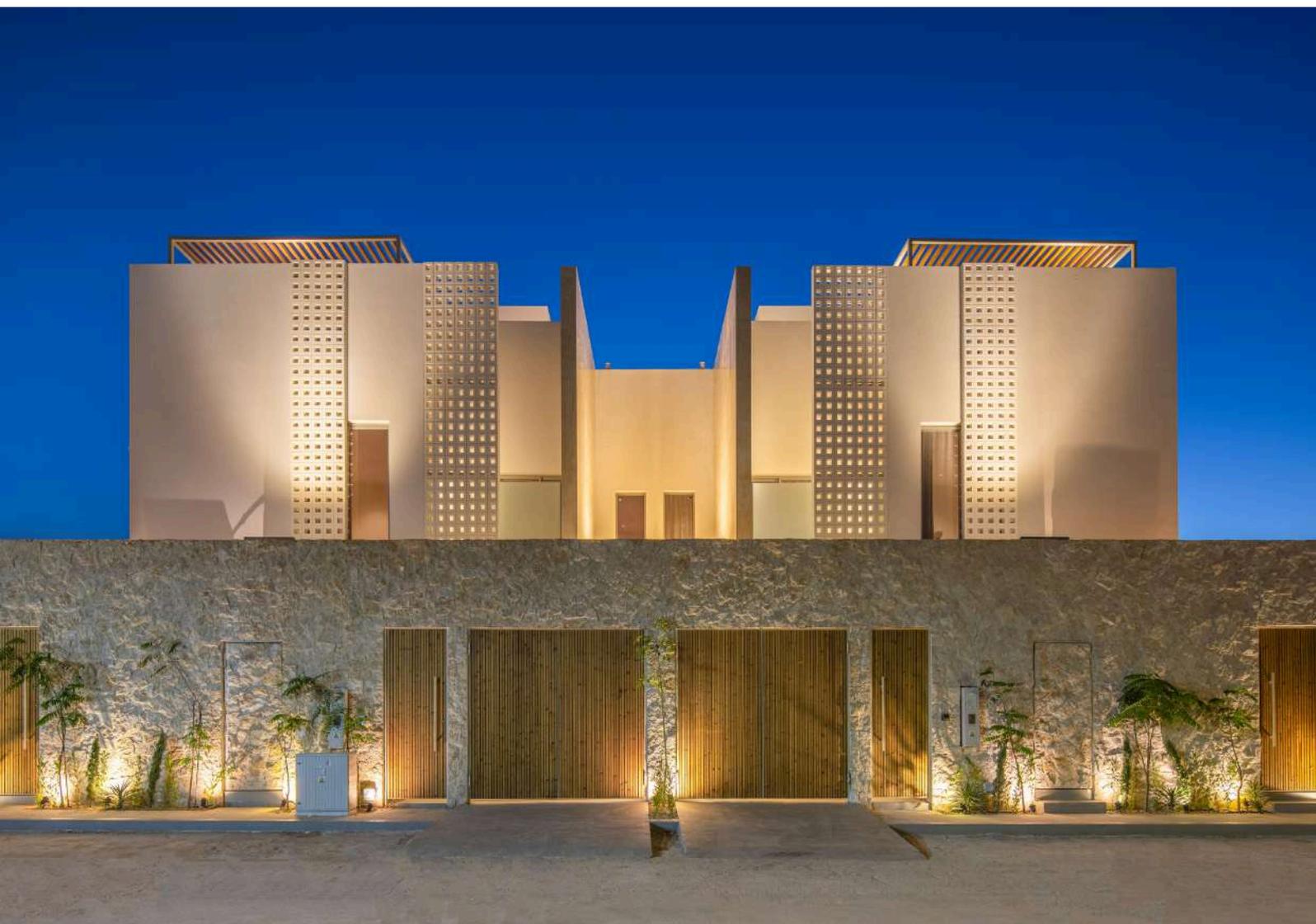
Design & execution: Soil the Company  
Developer: Alouhda real estate

Modern villas designed to react to surrounding through the use of natural materials, and providing shading system with creative pattern design.

Our premium spruce ThermoWood® 3D cladding profile **Triple Shadow 32x140** is used to clad the main and secondary entrances on the main façade of the villas. With the two deep grooves in the surface, **Triple Shadow** added a modern and low-maintenance batten-look surface with easy installation.



**Luna Triple** is the winner of the Sustainable product - category in Architecture MasterPrize 2021.



# ALMAJDIAH 139

Riyadh, Saudi Arabia, 2024

Design: Fabulous Studio - Execution: MACC

Developer: Almajdiah

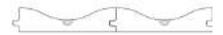
Located in Almalqa, North of Riyadh. 4 buildings, with facilities and services for special living experiences. 48 apartments & 6 townhouses of different sizes and more.

Majdiah 139 project is Bureau Veritas certified and adheres to best quality standards.



**Luna Vivo 19x188** the wide flat cladding profile, was used for the building's main facade, around the windows. The minimal elegant profile forms a well-defined high-quality wood wall look.

In the same building's reception interior, our iconic 3D cladding profile **Aalto 32x142** was used for the coffee bar cladding.



Aalto was used tinted in a light brown shade to create a seamless modern contrast with other surfaces.



# MOE EDU BUILDINGS

Ula, Saudi Arabia, 2024

Consultant: SEA JV & laceco  
Contractor: ASTRA - Sub: DIVANI

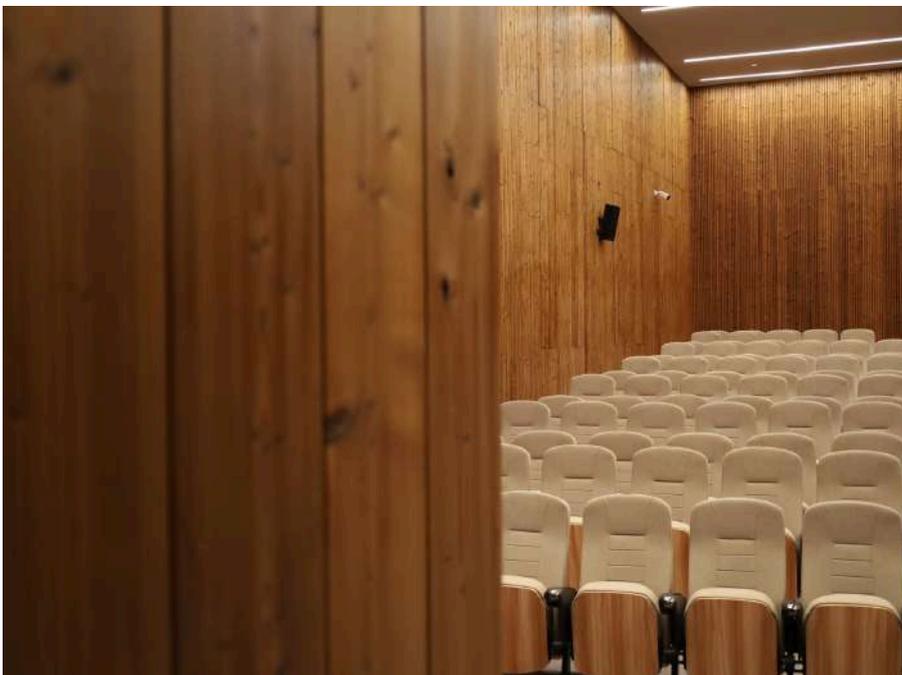
The main administrative buildings for the ministry education of Alula were newly renovated, with quality standards of the Royal Commissions of Alula. Our thermowood is used in major interior areas: the auditorium in the male's building, battens and partitions in the reception area, and storage cabinet doors in the female building.



A combination of our paneling profiles: **Triple Shadow 32x140** 3D profile, and **Vivo 19x188**, wide flat profile were used with a supporting acoustical system to clad the auditorium's walls.



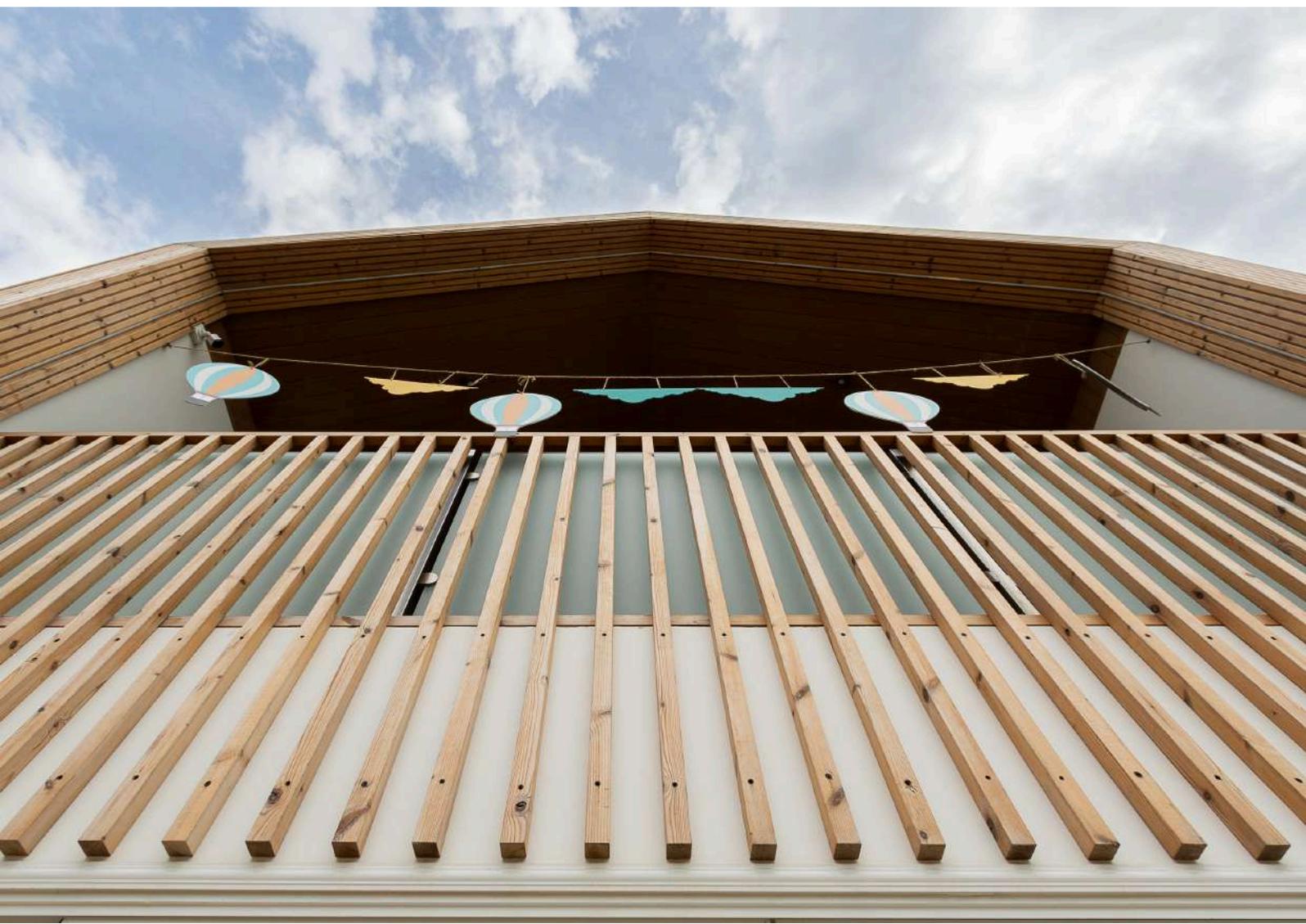
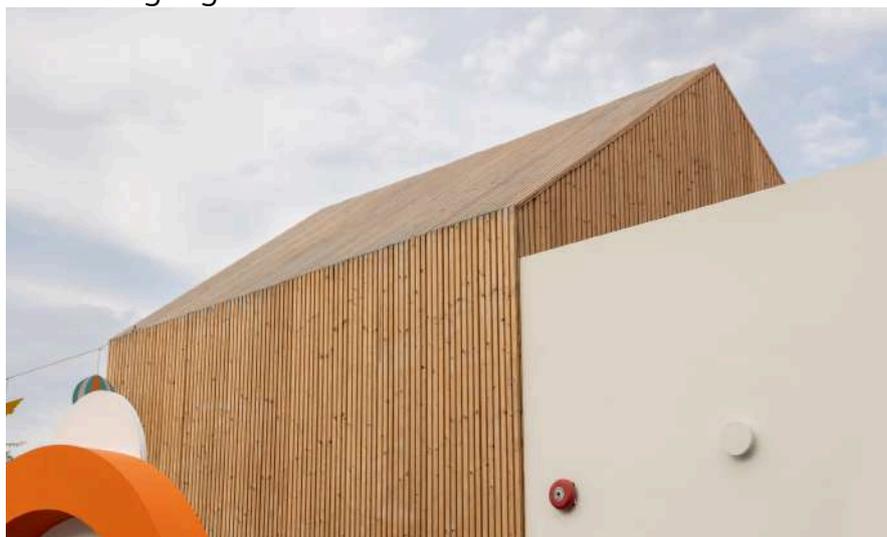
The rich tone and smooth surface of our thermowood create a welcoming and warm atmosphere.



# APPLE SEEDS ACADEMY

Khobar, Saudi Arabia, 2023

Apple Seeds is a children's learning academy with distinctive building designs, with outdoor areas equivalent to indoor spaces that are beneficial to the children's physical & mental health. A variety of our thermowood profiles: **Triple Shadow 32x140**, **Vivo 19x188**, **SHP 42x140**, **SHP 42x42**, and **Post 88x88** were used for external cladding, frames, ceilings, battens & signage.



# TUMOOR ALULA CAFE

Ula, Saudi Arabia, 2022

Design: Shar Company  
Woodworks: Alrashid Factory

In the heart of Alula, and in honor of the region's oasis dates, TUMOOR ALULA old town branch was designed authentically using sustainable, natural materials. With Lunawood Thermowood extremely stable wide beams and posts the external structure and roofs of the traditional building of the cafe were created, this project merges nature and traditional design into a memorable creation.

Products used:  
Post 88x88 & Post 140x140 (glued pine)

# BARN'S CAFE

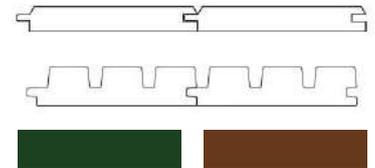
Kharj - Bahah - KAEC , Saudi Arabia, 2021-2023

Design: Ahmed Banaja  
Contractor: ICC

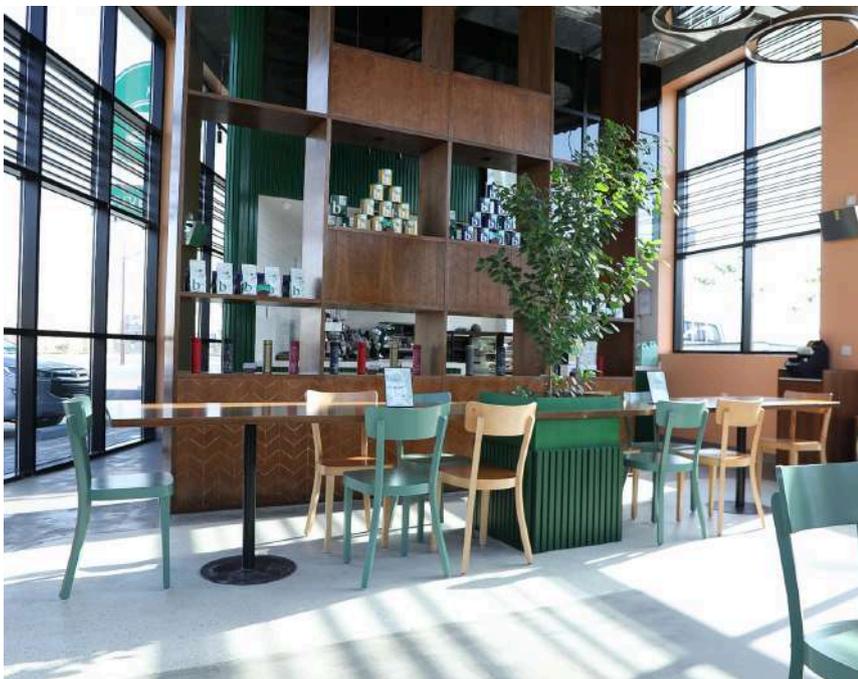
Barn's is the first contemporary specialty coffee brand in Saudi Arabia with a remarkable identity. In different branches around the Kingdom, stand-alone units & inside shopping centers, our thermowood products were incorporated into the exterior & interior of the cafes.



The main sign boards of the cafes were cladded with **Panel system 19x140** which features a hidden fixing system, and the terraces fences were cladding with our signature product **Triple Shadow 32x140**.



In the same cafe interior, the bars and major walls in the interior were covered with the brand's signature green-painted **Triple Shadow 32x140** profile. Additionally, some **Triple Shadow** cladded walls in the interior were painted with dark brown tint.



# NOURSEEN BEACH VILLA

Jeddah, Saudi Arabia, 2022

Design: Ahmed Banaja

Developer: Maken

Nourseen Villa is the first of a chain of vacation houses. It is designed carefully with high level of privacy, endless entertainment options and luxurious amenities. Within the most exclusive locations in Jeddah to maintain the spirit of fun and lasting recreation.



Located near the seaside, an area with high exposure to extreme heat and humid conditions, especially in summer, thermowood was chosen due to its durability and high stability.

The risks of swelling, cracking, and shrinkage are reduced to the minimum in thermowood in comparison to klein-dried or untreated wood.

**Featured products:**

Decking: Deck2 PF2 26x117 (grooved) & Profix-2 fixing clips

Cladding: Luna Triple Shadow 32x140

Battens & frames: SHP 42x42 & SHP 40x185



# PAUSE AWAY

Riyadh, Saudi Arabia, 2023

Design & execution: Crestwood Factory

Tuwaiq House is a desert retreat by PAUSE AWAY hospitality group, located in the heart of the kingdom, between Tuwaiq Mountains! offering a luxury glamping experience with premium service to help disconnect from daily routine and relax away from the city.

In the outdoor area of each cabinet, a special BBQ unit was created completely from our thermowood, produced by the specialized kitchen factory "Crestwood".

In the back and sides of units, **Luna Aalto 32x142** was used to highlight fixed surfaces, and flat **Vivo 19x188** was used for accent doors. **SHP 40x185**, our wide thermo pine profile was used with different widths for frames.



# DESERT X

Ula, Saudi Arabia, 2024

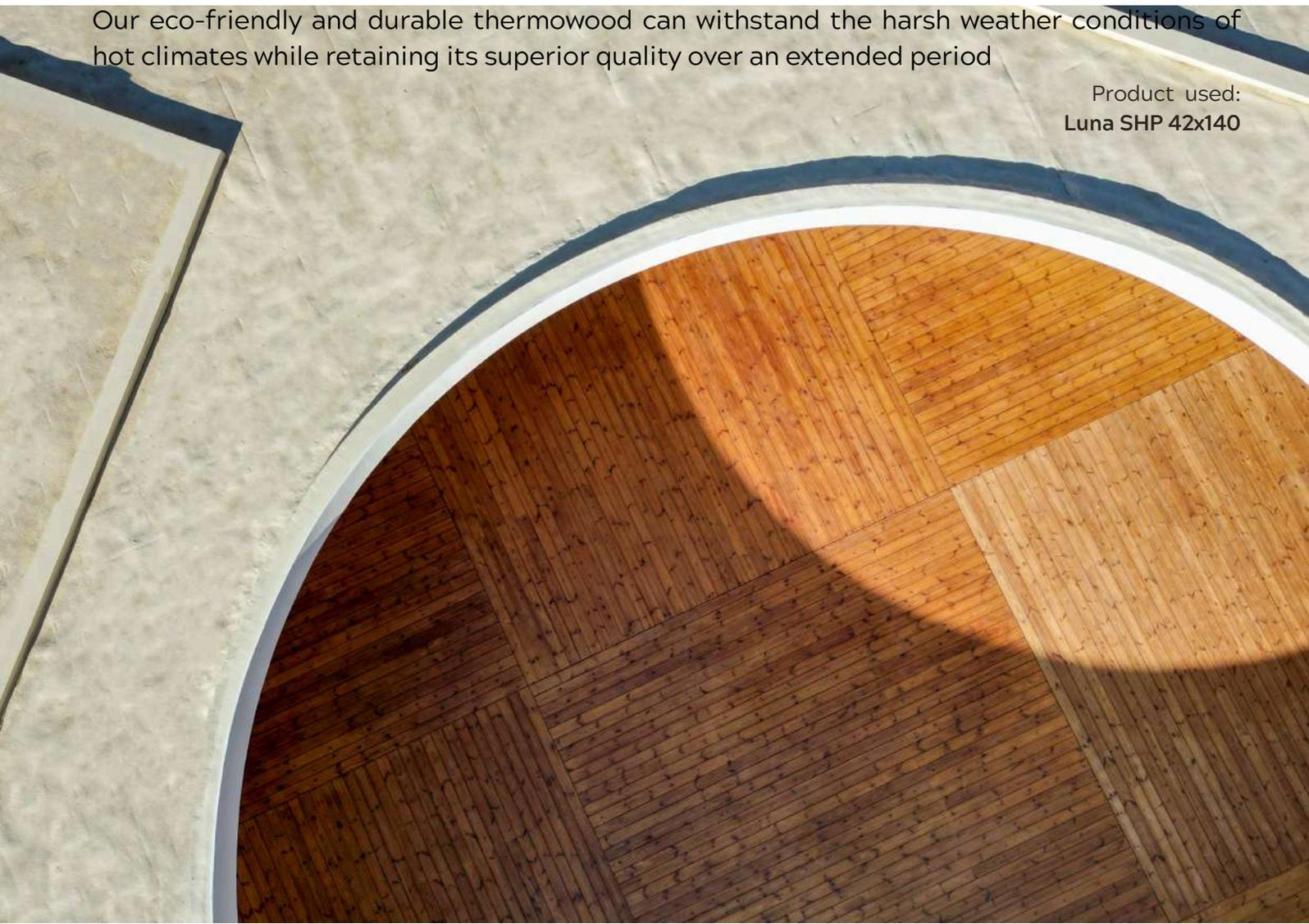
Design: KWY Studio  
Contractor: ANSAB

Desert X is a contemporary art exhibitions that foster cultural exchange among communities by showcasing artworks from the majestic mountains of the AlUla region. To create a visually captivating and sustainable experience, our thermowood was thoughtfully incorporated into the horizontal & vertical patterned external decking in a uniform format.



Our eco-friendly and durable thermowood can withstand the harsh weather conditions of hot climates while retaining its superior quality over an extended period

Product used:  
Luna SHP 42x140



# ALNAKHEEL HALLS

Riyadh, Saudi Arabia, 2023

Execution: Pietra Aluminum Systems

Developer: Diafa AL-Nokba Co.

Introduced by Diafa Hospitality Group, the multi-function hall “Al Nakheel”, is located on Prince Turki Alawwal Road, adjacent to the U Walk open mall.

The hall's main gates lengthening 15 m+ are clad with our thermowood **Triple Shadow 32x140** leaving a lasting impression.

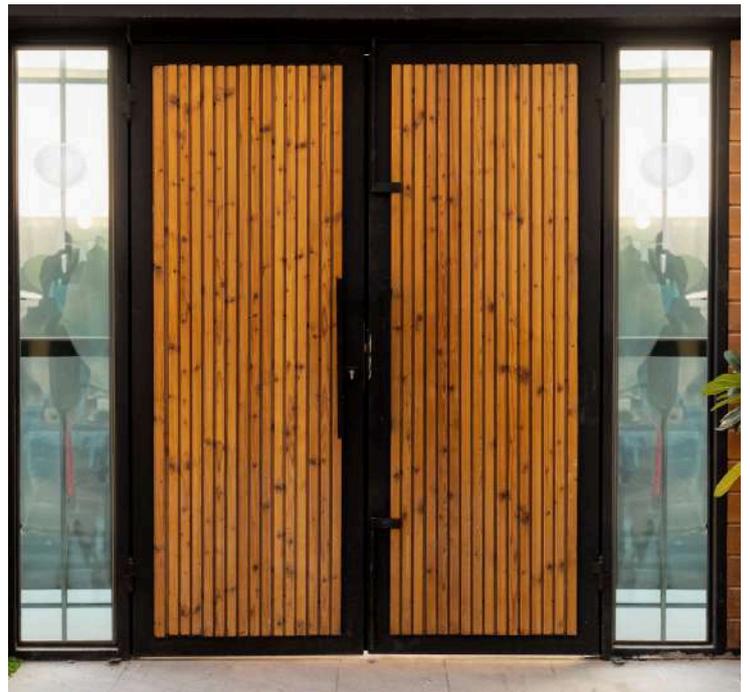




## PERGOLAS & GATES

Our ThermoWood® battens of various sizes bring a contemporary and sharp look to all kinds of spaces. By combining battens of different sizes, it is possible to achieve the most creative designs. The Nordic Lunawood ThermoWood® battens are also highly suitable for solar shades, screenings, and partition walls.

It has been popular to use it in different projects to clad external gates and shading elements in the landscape due to the easy workability of the wood, durability, and lightweight.



# ARTWORK

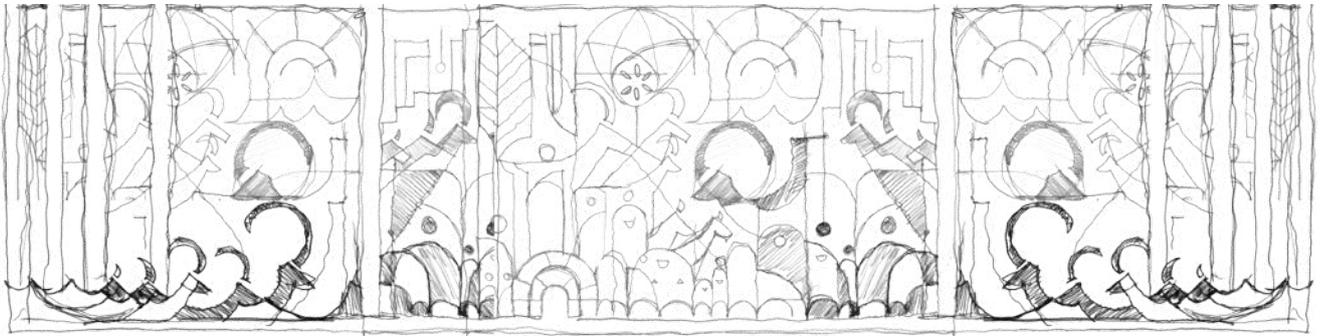
Alwaal Albari , Riyadh, 2022

Design: Ghunim Design

Execution - wood artist: Tadoom - Khalid Alabdulwahab

With the charming esthetics of thermowood and endless fabrication possibilities, it has been an interesting choice for a local artist to introduce many statement pieces that have been present in public projects.

The artist Khalid created a series of pieces for Alwaal Albari Café, located on Alltakhassusi Street in Riyadh. The artwork gained a lot of popularity from visitors.





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2024

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