
DI BAWAH
Kasih Bonda
Batu Seremban carries a quiet narrative of maternal love, where a mother gives a piece of her cloth, a part of herself, transforming something simple into a source of warmth, play, and happiness for her children.

OVERALL SITE ANALYSIS

The proposed pavilion is located within Taman Tasik Titiwangsa (3°10'37.8"N 101°42'28.6"E), one of the prominent recreational parks in Kuala Lumpur, Malaysia. The park functions as an active urban green space that supports a wide range of daily recreational activities for the public. Surrounding the site are well-established jogging paths, cycling trails, and open leisure areas that encourage outdoor movement, relaxation, and social interaction.

SUNPATH DIAGRAM

HUMAN ACTIVITIES

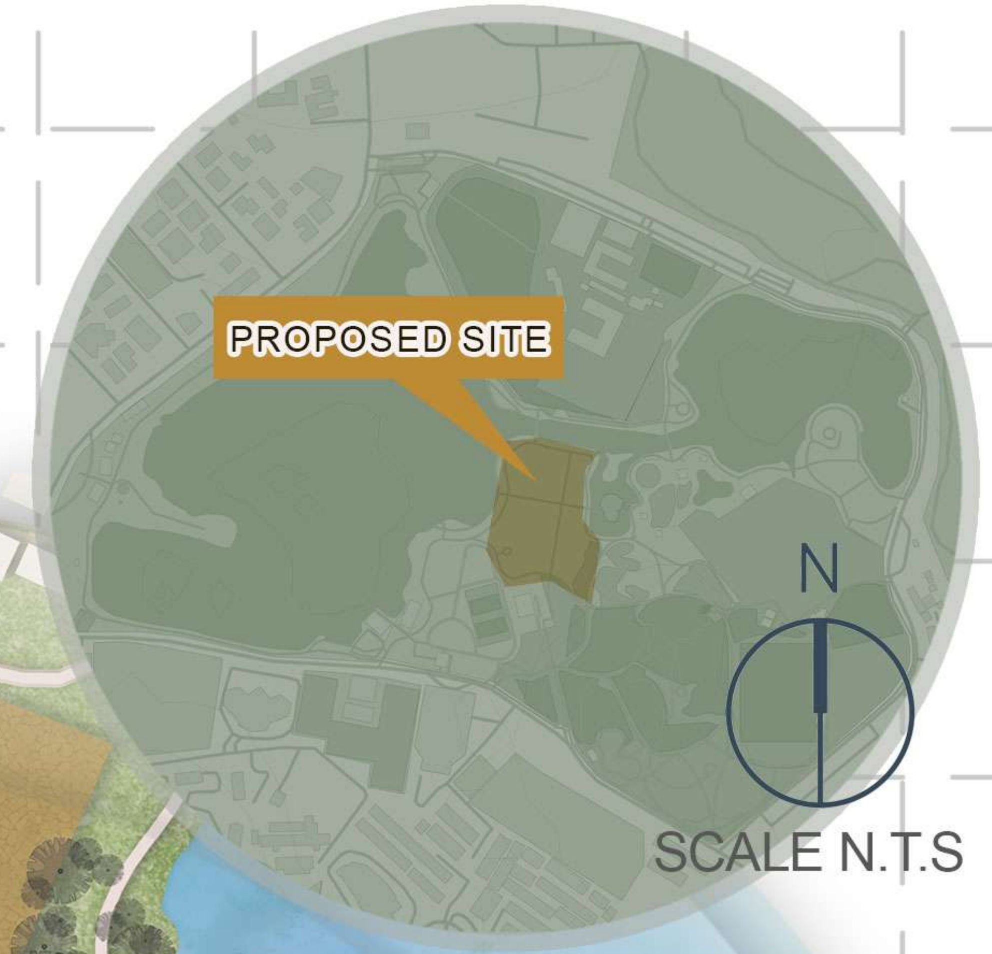
Common activities that can be spotted from the visitor at park. The visitors are mostly comprising of families, young couples and sports enthusiasts.

SITE PLAN

LEGEND

- WIND FLOW
- NOISE

LOCATION PLAN



SWOT ANALYSIS

STRENGTH

Thick vegetation buffers the site from city noise, creating a quiet atmosphere. The location features prime lake views and convenient access via the nearby pedestrian bridge.

WEAKNESS

Nearby trees will drop leaves and attract birds to the pavilion. This will require regular cleaning to manage natural debris and bird droppings, which could wear down the structure over time.

OPPORTUNITY

The site lacks shelter, making it the perfect spot for a pavilion. This addition will protect visitors from the weather while enhancing the park's beauty and character.

THREAT

Tall trees also present a risk of falling branches and twigs. To ensure visitor safety, this hazard must be addressed through both the pavilion's structural design and its ongoing maintenance strategy.

ACHIEVABLE SDG GOALS

Sustainable architecture integrates these goals by combining passive design and renewable energy (SDG 7) with smart, modular construction (SDG 9) to boost structural resilience. This technical foundation is balanced by universal accessibility (SDG 10) and green infrastructure (SDG 11) to create inclusive, flood-resilient communities. Finally, by specifying locally sourced, low-carbon materials (SDG 12) and designing for deconstruction, projects ensure a fully circular and responsible building lifecycle.

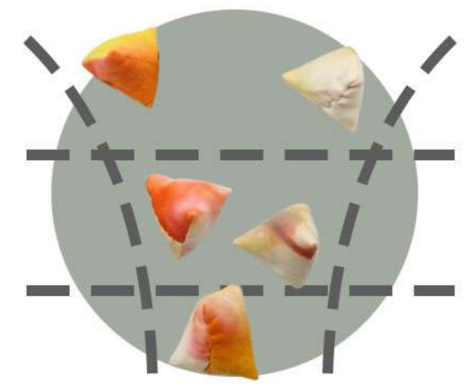
DESIGN STATEMENT

Inspired by the traditional Malaysian game Batu Seremban, where small stones are wrapped within pieces of cloth, the pavilion reinterprets this humble object as an architectural experience. The cloth, often associated with warmth and care, becomes the primary inspiration for the spatial language of the structure. In the context of the game, the cloth pouch represents more than a simple container; it symbolizes a mother's quiet act of love giving a piece of herself so her children may experience moments of happiness and play. Translating this idea into architecture, the pavilion adopts layered fabric-like elements that descend gently to form a sheltered space.

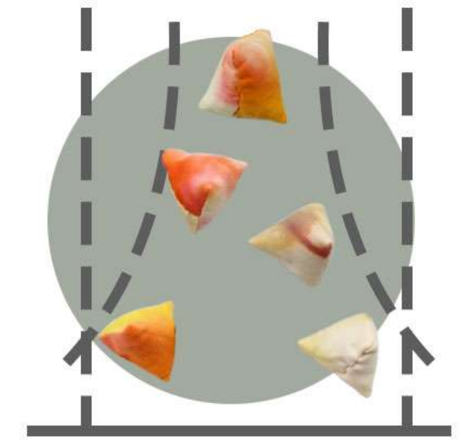
These layered forms create a soft and protective environment where visitors can gather, rest, and engage with one another. Much like a mother's embrace that provides comfort and protection, the pavilion offers a welcoming space that encourages interaction, memory, and shared joy beneath its gentle enclosure. Through this interpretation, the pavilion transforms a simple cultural object into a spatial expression of maternal love, childhood memory, and the preservation of tradition within a contemporary public setting.

DESIGN PROCESS

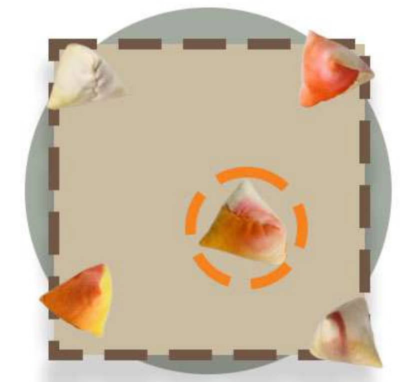
1. The "Batu Seremban" are tossed up in the air.



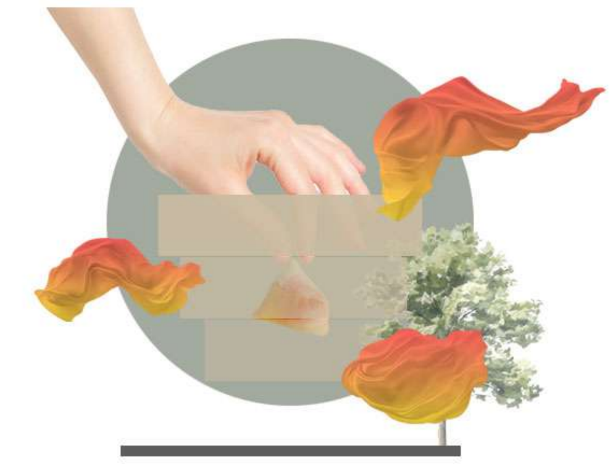
2. The upward flow creates movements and spaces.



3. Falling back to the ground, scattered.

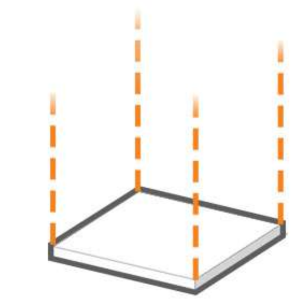


4. One core "Batu 1" is taken out from 4 points.

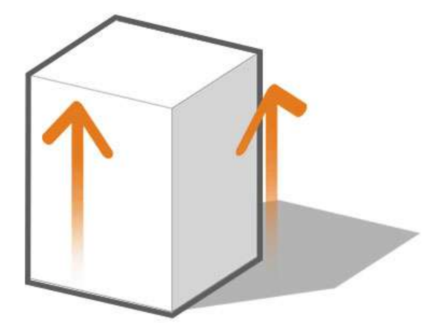


5. "Batu Seremban" fabric as an inspiration of facade treatment.

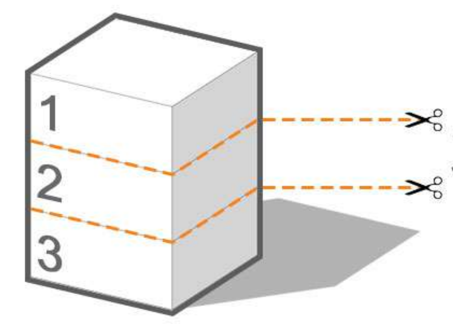
MASSING DIAGRAM



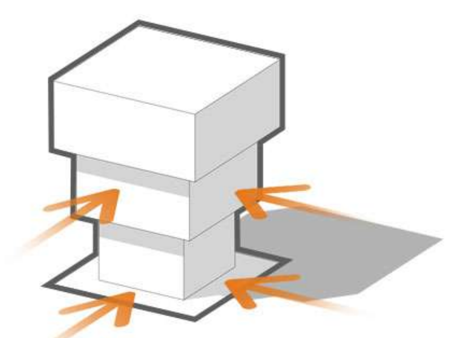
1. The dedicated space for 3m x 3m were implemented on the site.



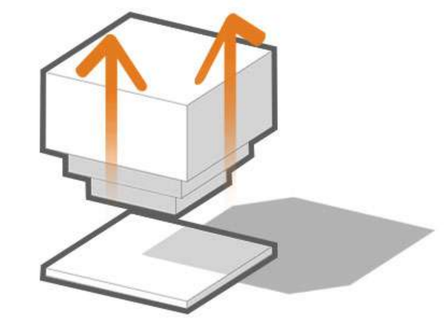
2. The site is extruded to 4m height as a box to maximise the upward space.



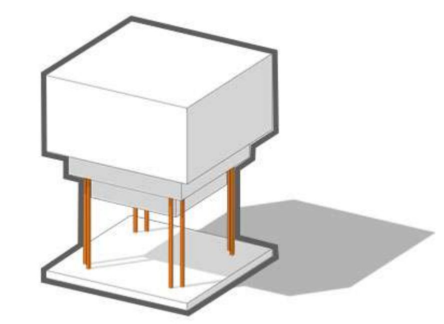
3. Divide the box to 3 sections horizontally to produce layering.



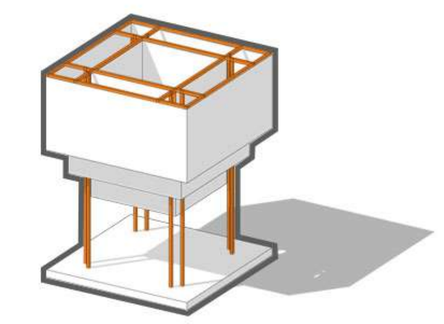
4. Each sections are pushed to the dedicated amount of space to create movement.



5. The core is brought upwards to achieve the floating effect.



6. The floated core is reinforced with columns as primary structure.



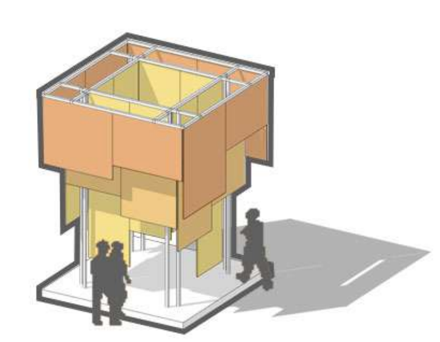
7. The structure of the core is further strengthened with additional beams at the back of facade.

8. The facade is detailed up by a variety of lengths of fabric layerings.

SENSES OF HUMAN

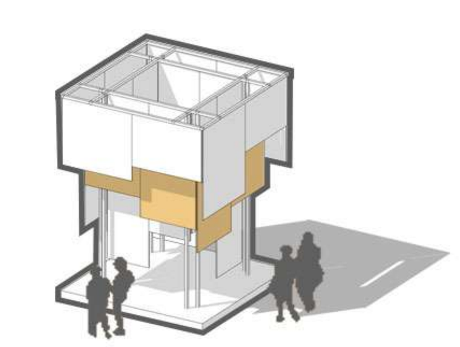
Sight

The pavilion's exterior skin interacts with the landscape, focusing on how form, color, and light could define the distant visual experience.



Touch

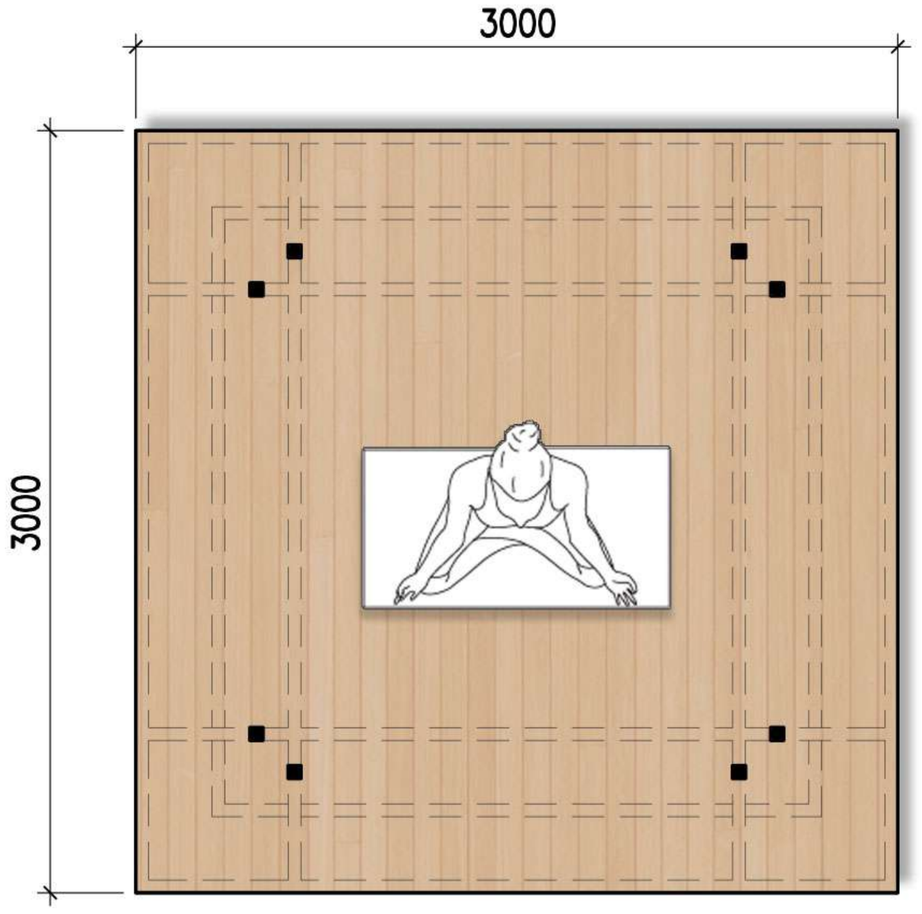
The pavilion's tactile surfaces and compressed spaces are focusing on the textures of the materials within a human's immediate physical reach.



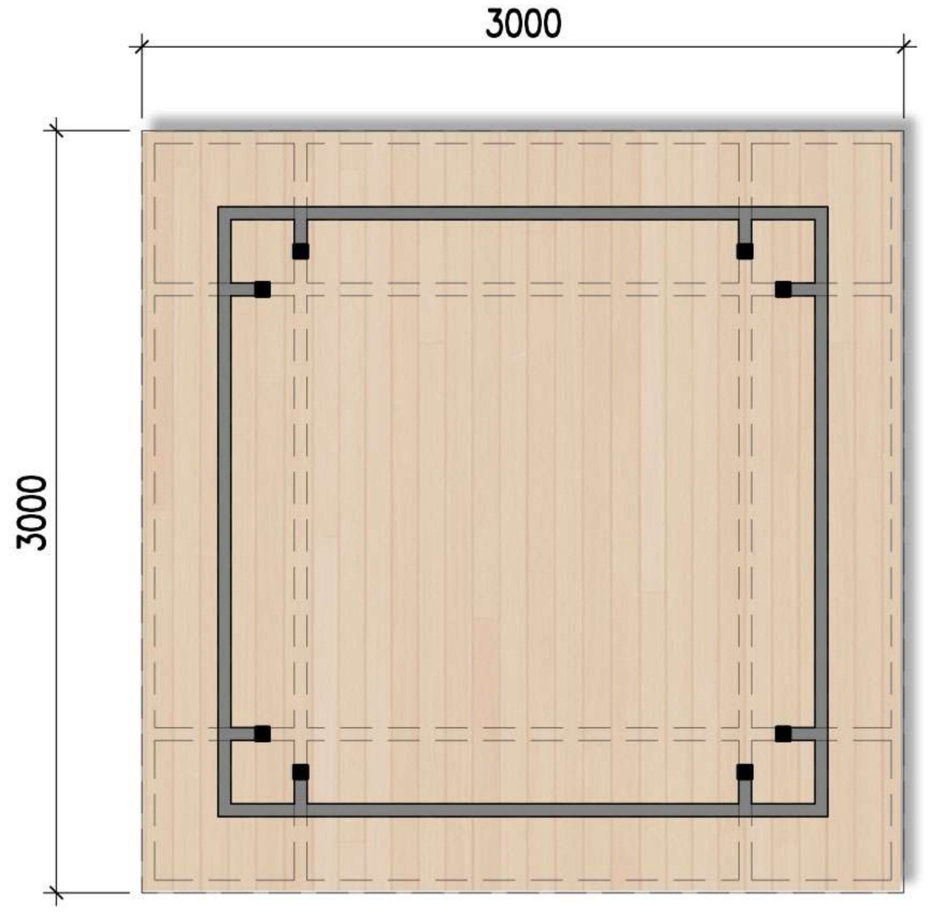
Sound

The pavilion's internal chamber illustrating how acoustic movement is defined by the shifting roller blinds and wind-driven curtain textures.

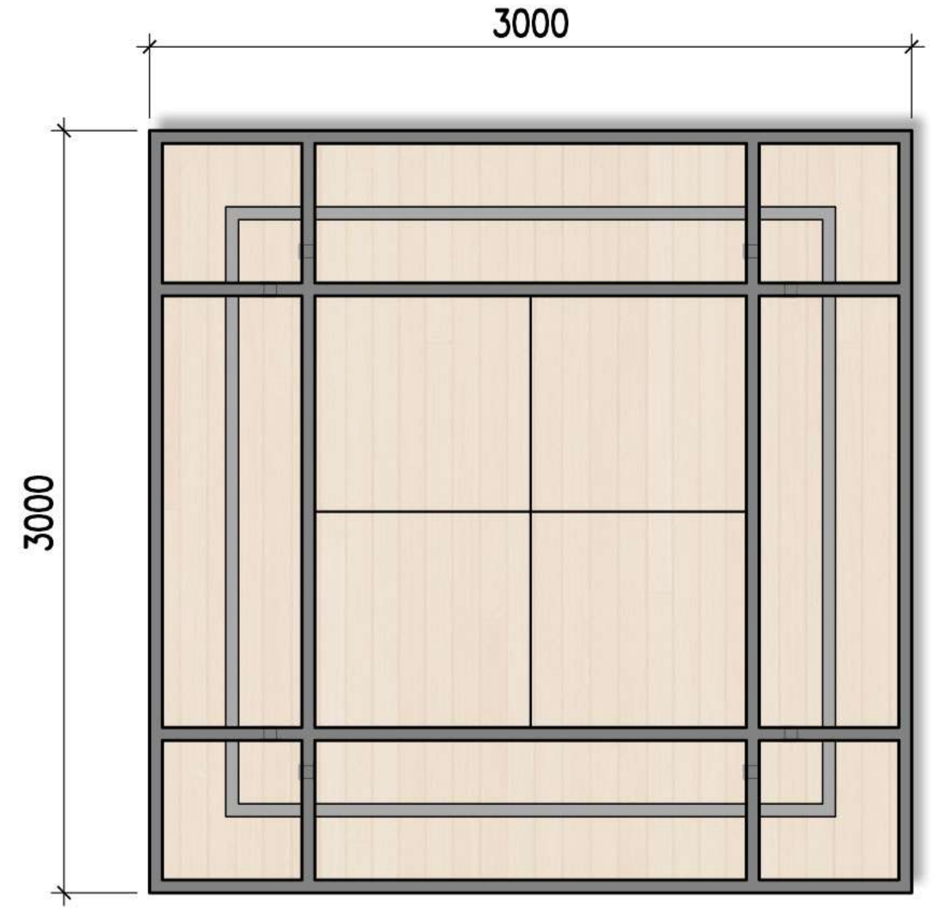
TECHNICAL DRAWING



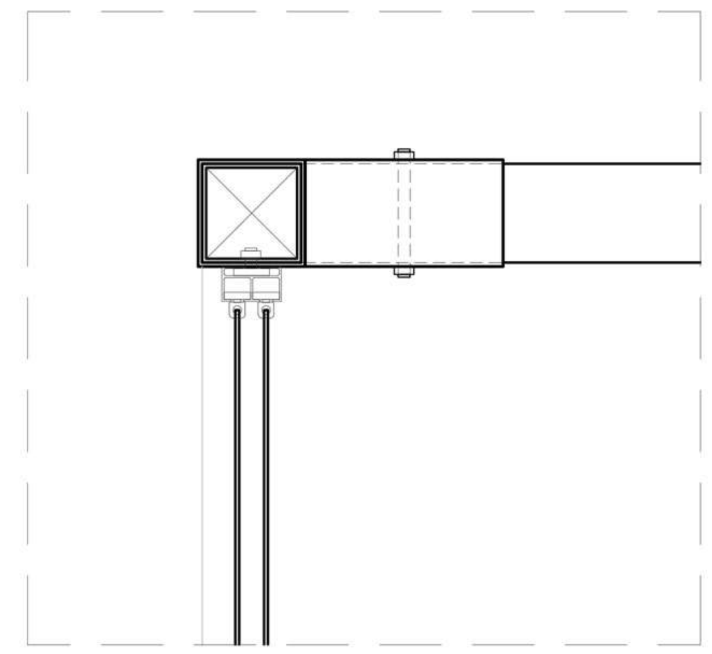
FLOOR LEVEL
SCALE 1:100



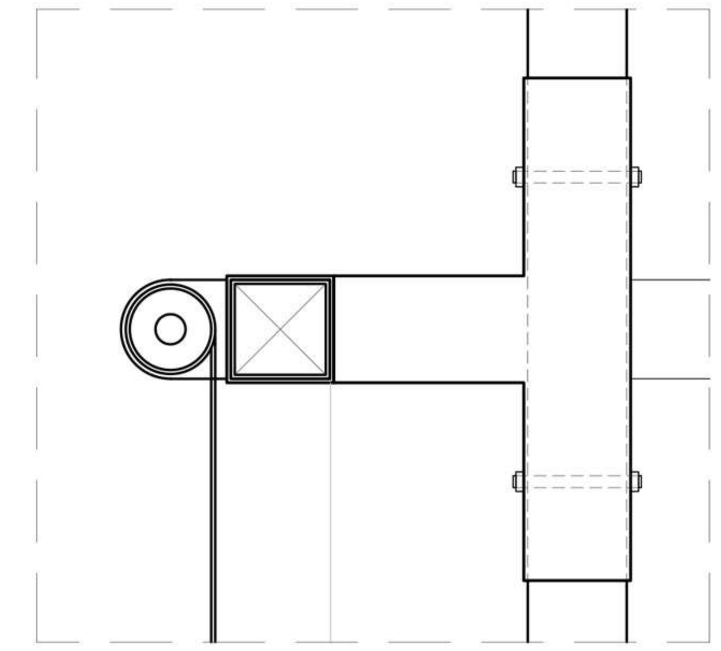
UPPER LEVEL
SCALE 1:100



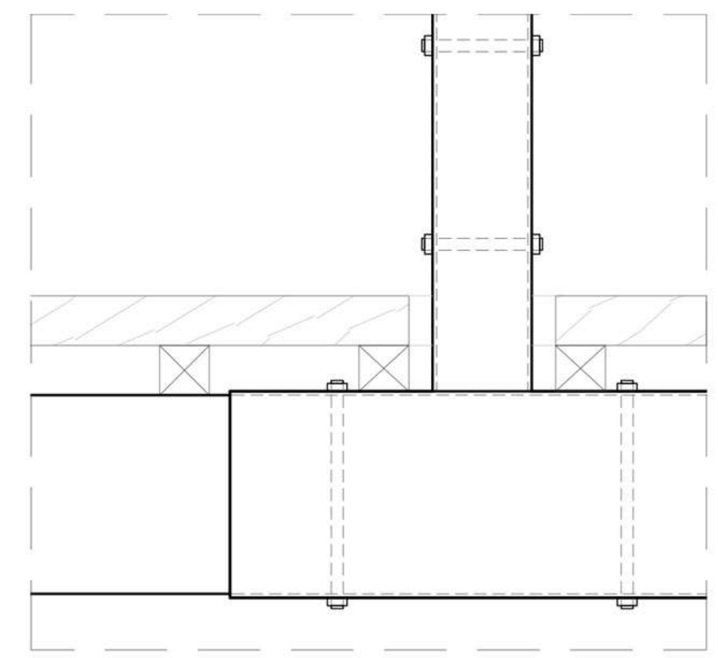
TOP LEVEL
SCALE 1:100



DETAIL 1
Curtain detail

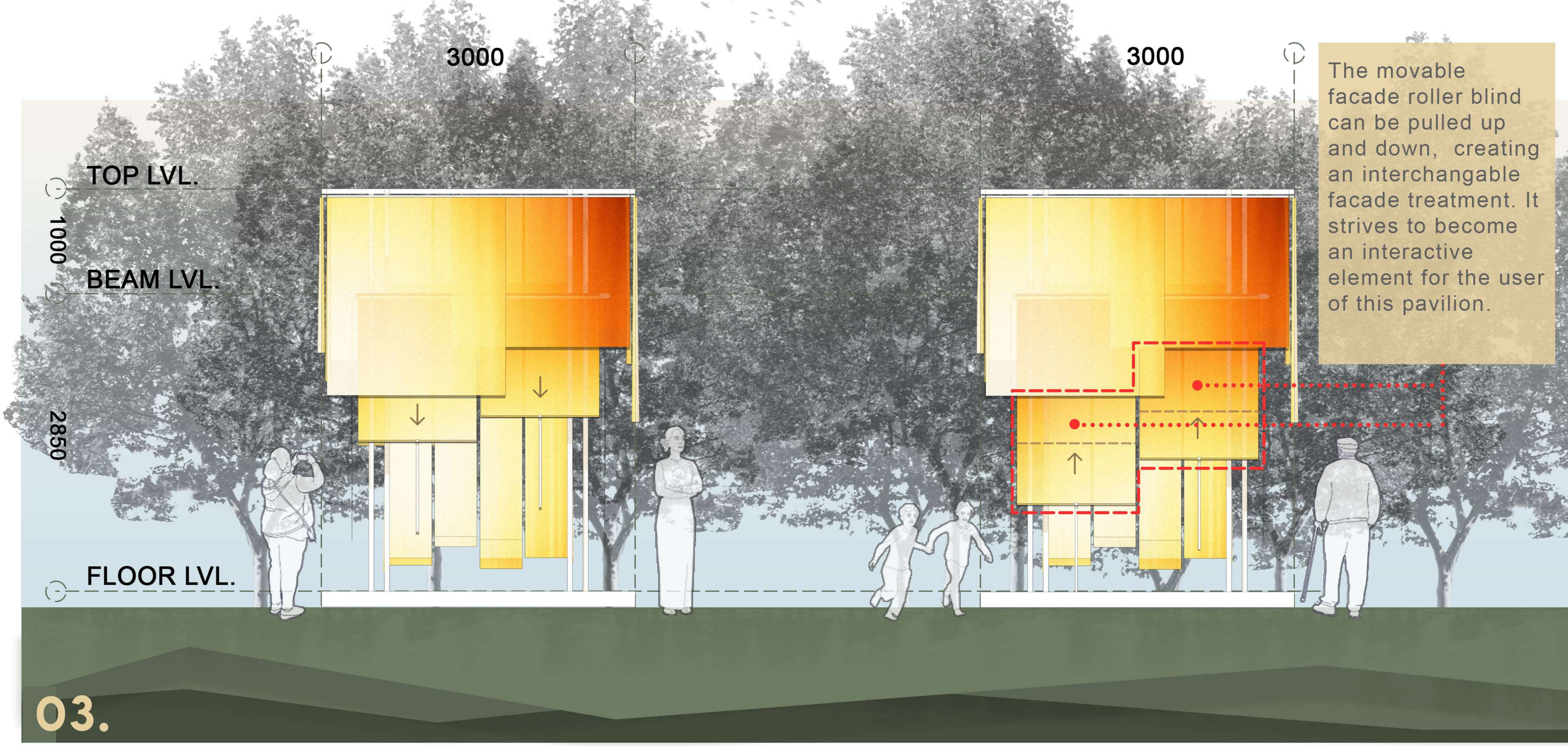


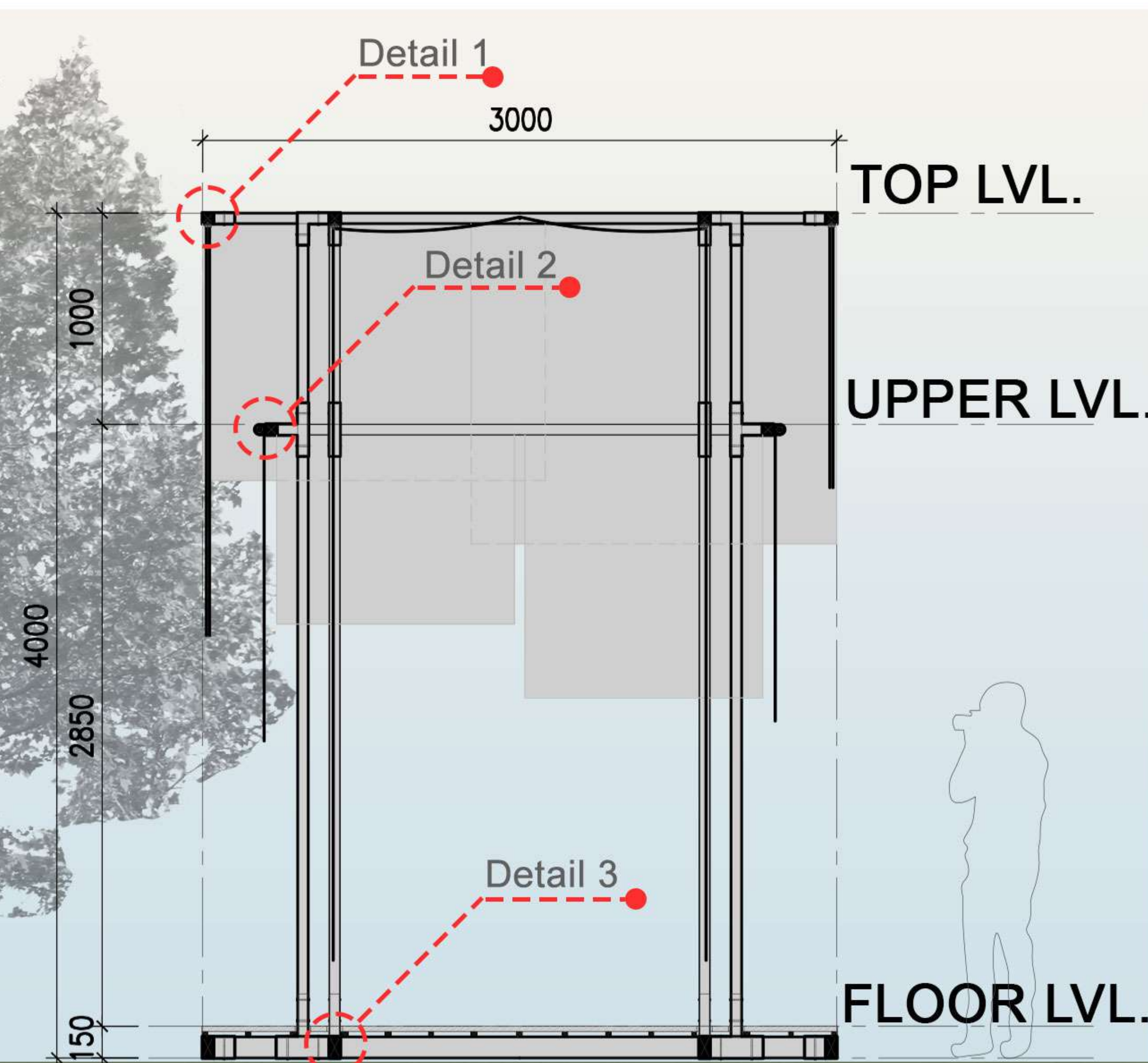
DETAIL 2
Roller blind detail



DETAIL 3
Base detail

TYPICAL ELEVATION





SECTION VIEW
SCALE 1:100

ISOMETRIC STRUCTURAL DRAWING

STRUCTURAL COMPOSITION AND TECTONICS

The pavilion's primary framework utilizes a Modular Mild Steel Hollow Section (SHS/RHS) system, engineered for both structural rigidity and aesthetic lightness. The primary load-bearing base is constructed from 100mm x 50mm RHS, providing a robust foundation that distributes the pavilion's self-weight evenly across the UAC DecoWood decking. The vertical and overhead framing transitions to a more slender 50mm x 50mm SHS, maintaining a clean, minimalist profile that complements the "curtain" facade.

SPECIFICATION

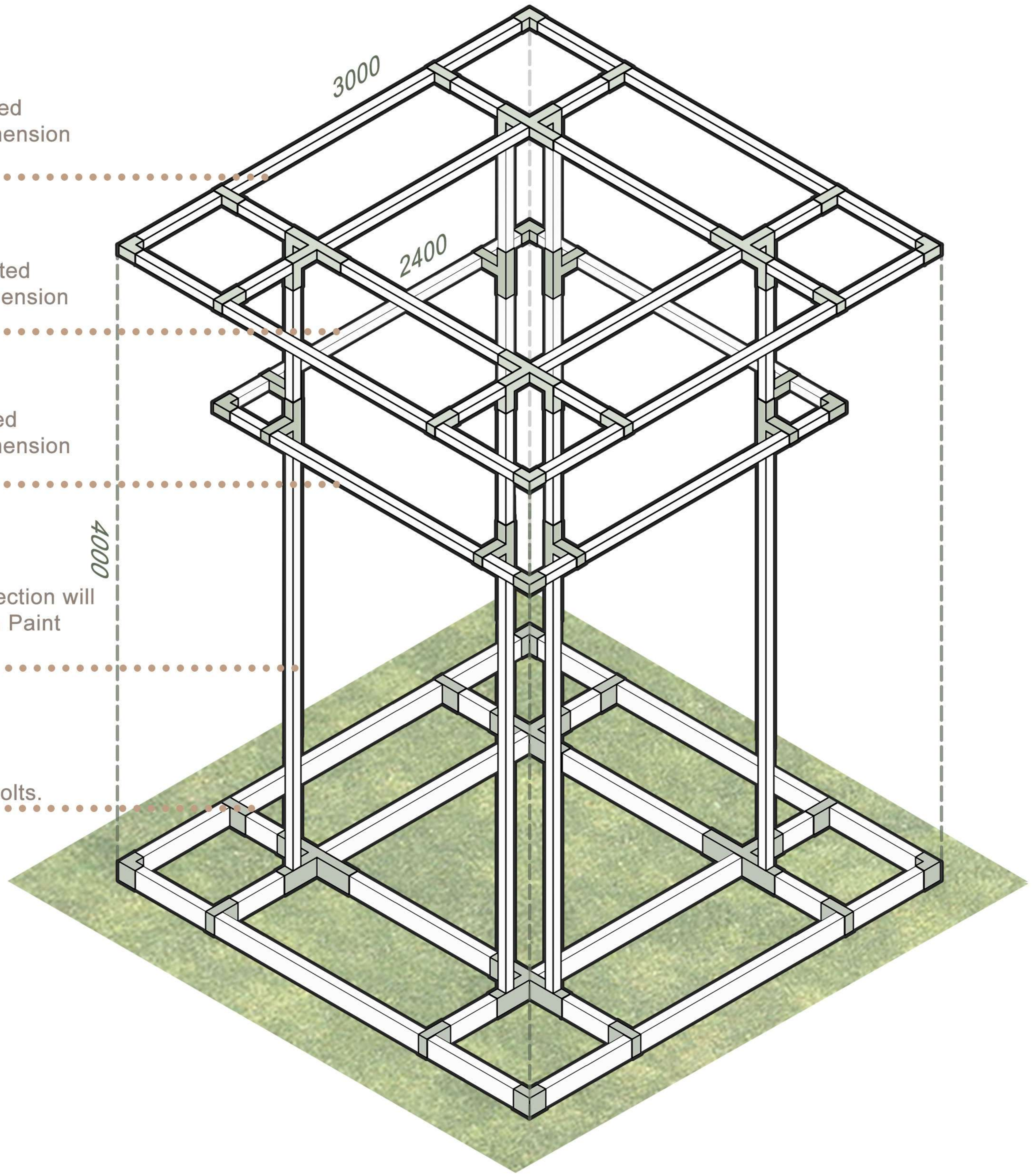
Outer frame that located curtain railing with dimension of 3000mm width.

Middle frame that located curtain railing with dimension of 2400mm width.

Inner frame that located curtain railing with dimension of 1800mm width.

All mild steel hollow section will be coated with Nippon Paint metallic finishes.

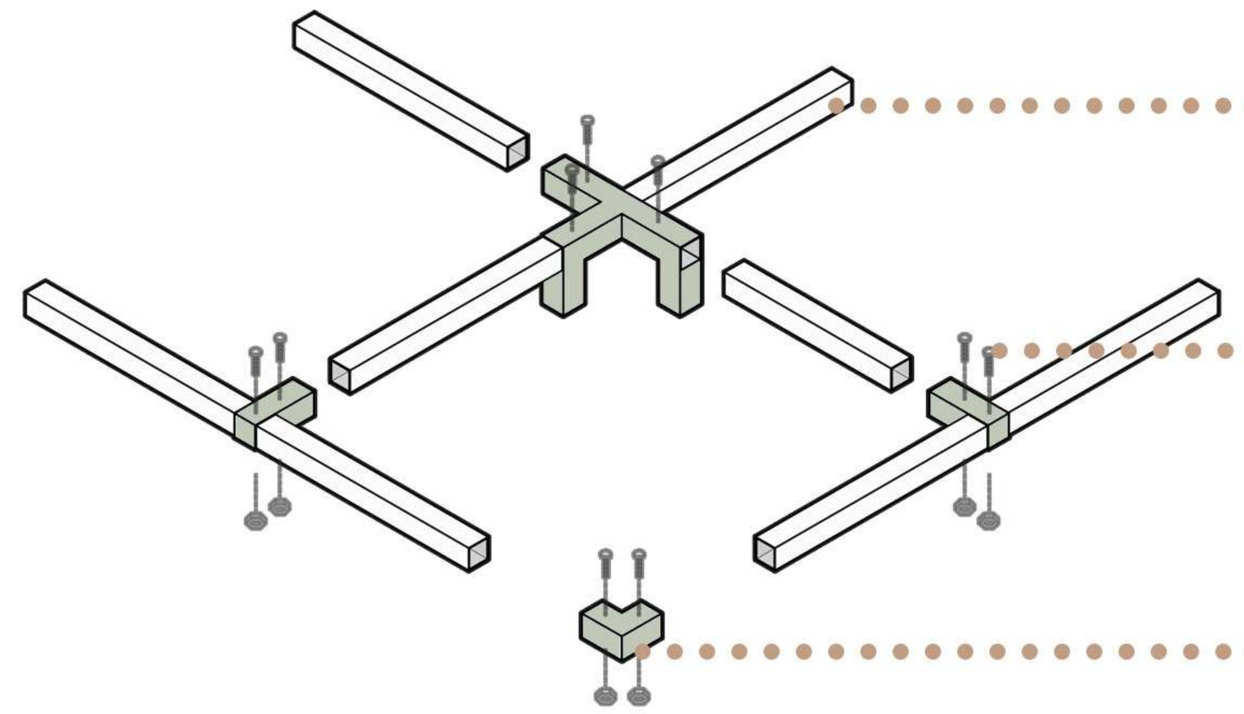
All steel joints will be secured by nuts and bolts.



STRUCTURAL JOINTS

The pavilion's skeleton is engineered as a modular "kit-of-parts" system, utilizing two distinct scales of mild steel hollow sections to differentiate between foundational support and the primary enclosure.

1. TOP FRAME INSTALLATION

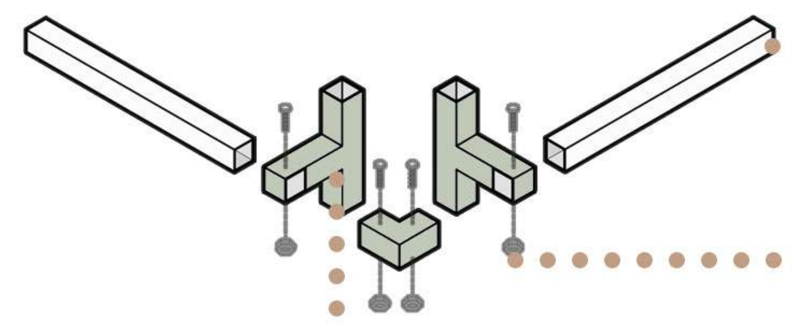


Mild steel hollow section with metallic finish

Zinc-plated High-Tensile Bolts & Nuts

90° joint with dimension of 55mm X 55mm

2. MIDDLE FRAME INSTALLATION

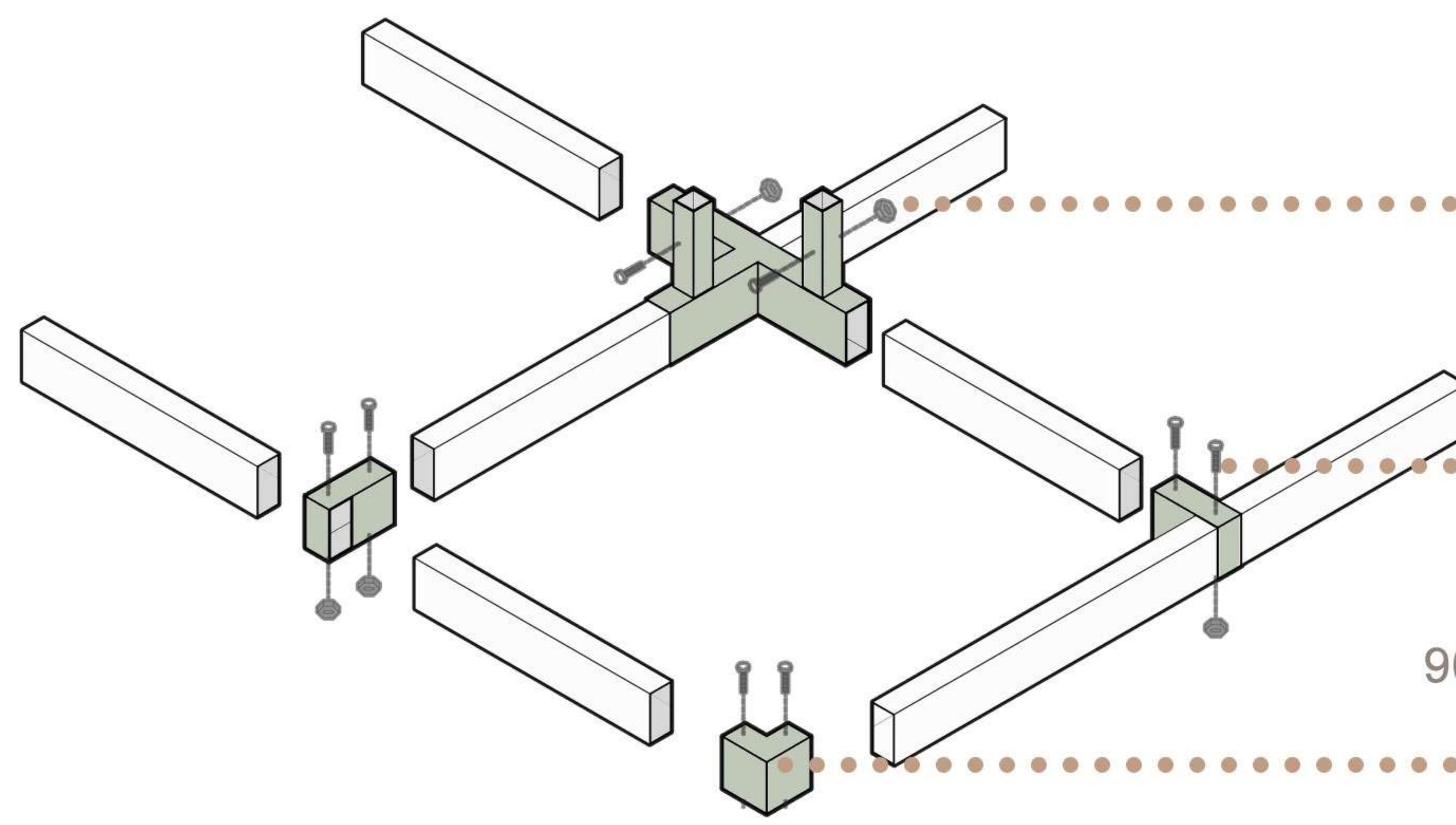


Mild steel hollow section with metallic finish

Zinc-plated High-Tensile Bolts & Nuts

3 ways joint with dimension of 55mm X 55mm

3. BASE FRAME INSTALLATION



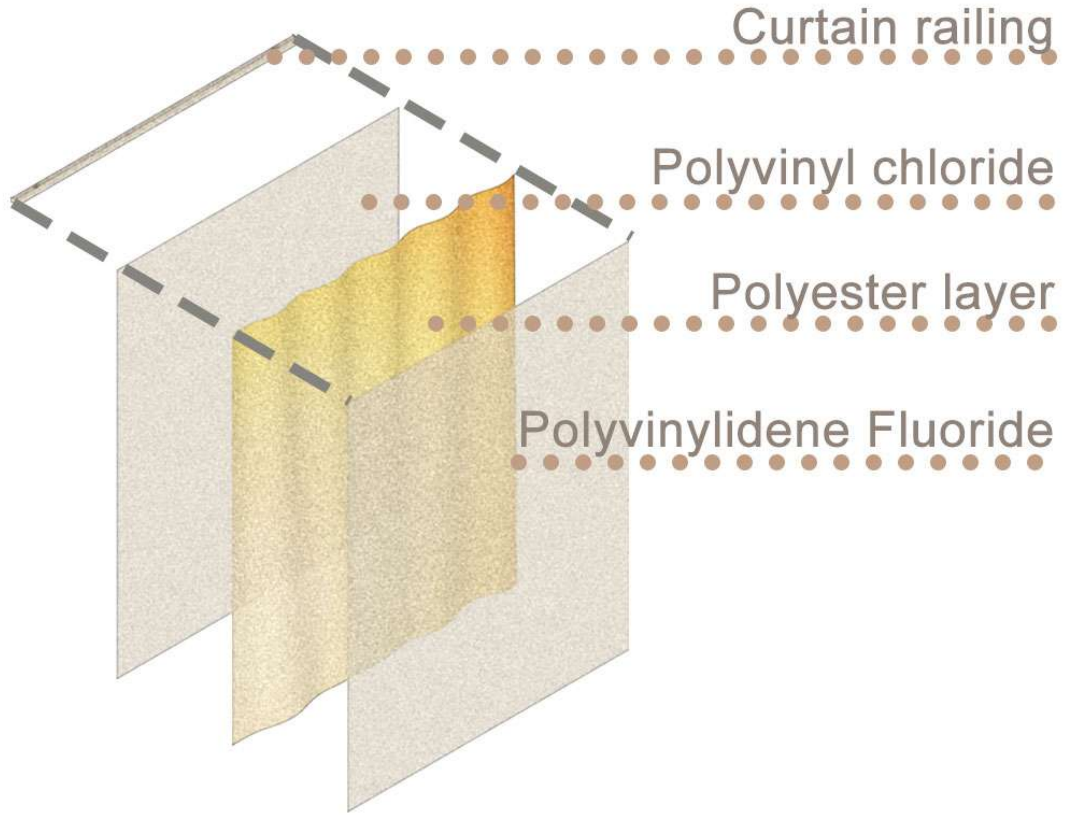
Mild steel hollow section with metallic finish

Zinc-plated High-Tensile Bolts & Nuts

90° joint with dimension of 105mm X 55mm

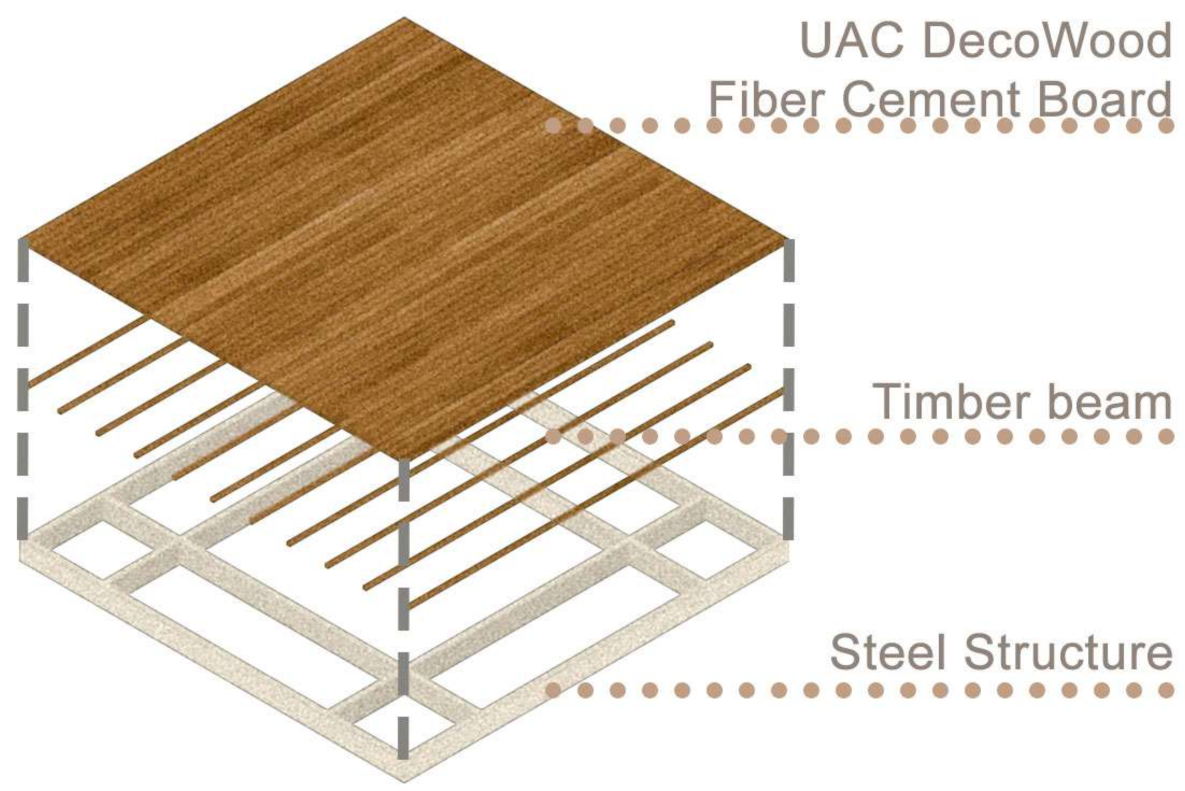
AXONOMETRIC EXPLODED DIAGRAM

FACADE MATERIALITY

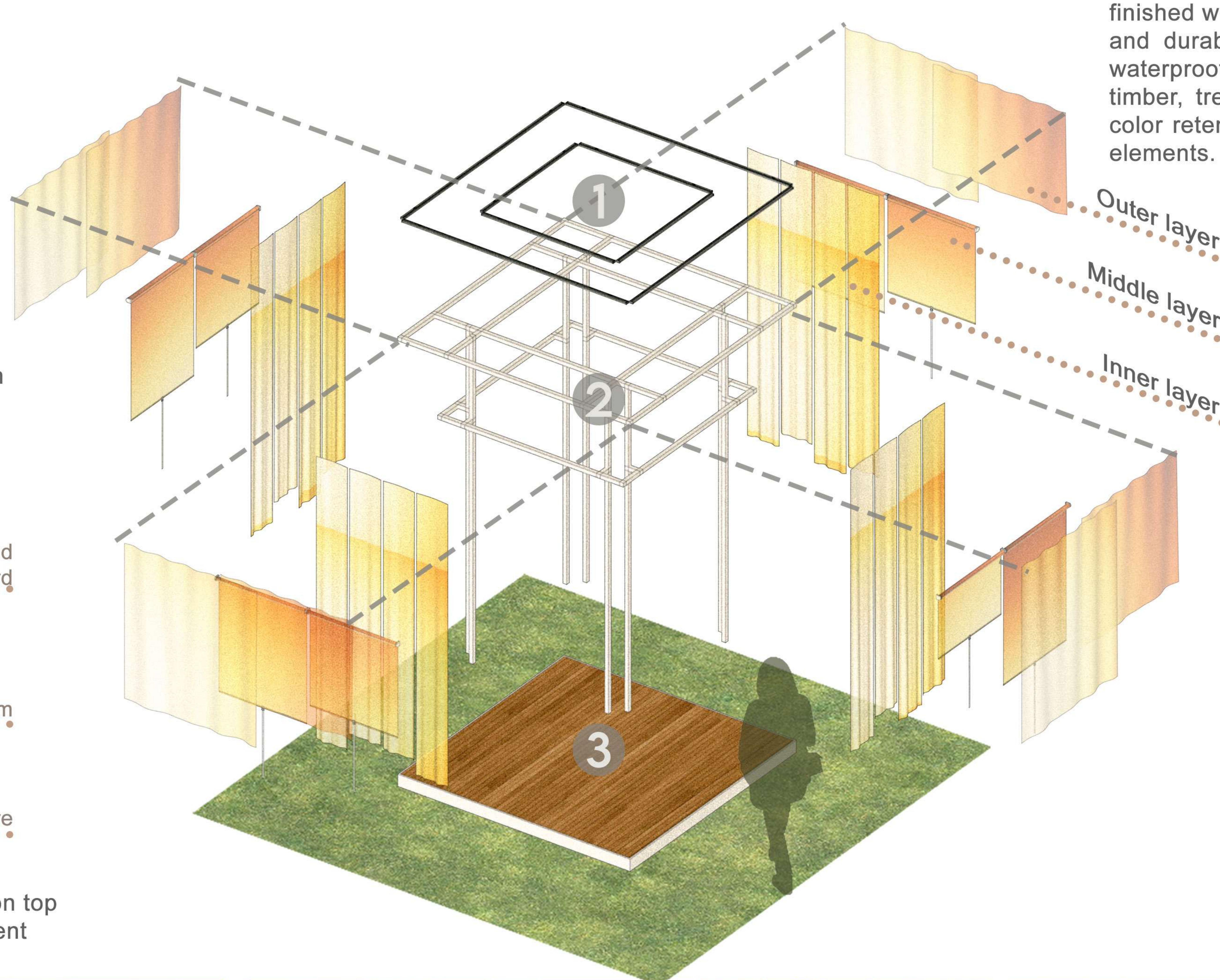


1. Railing for the curtain fabric with dimension of 3000mm x 3000mm for the outer layer and 1800mm x 1800mm for inner layer.

FLOORING MATERIALITY



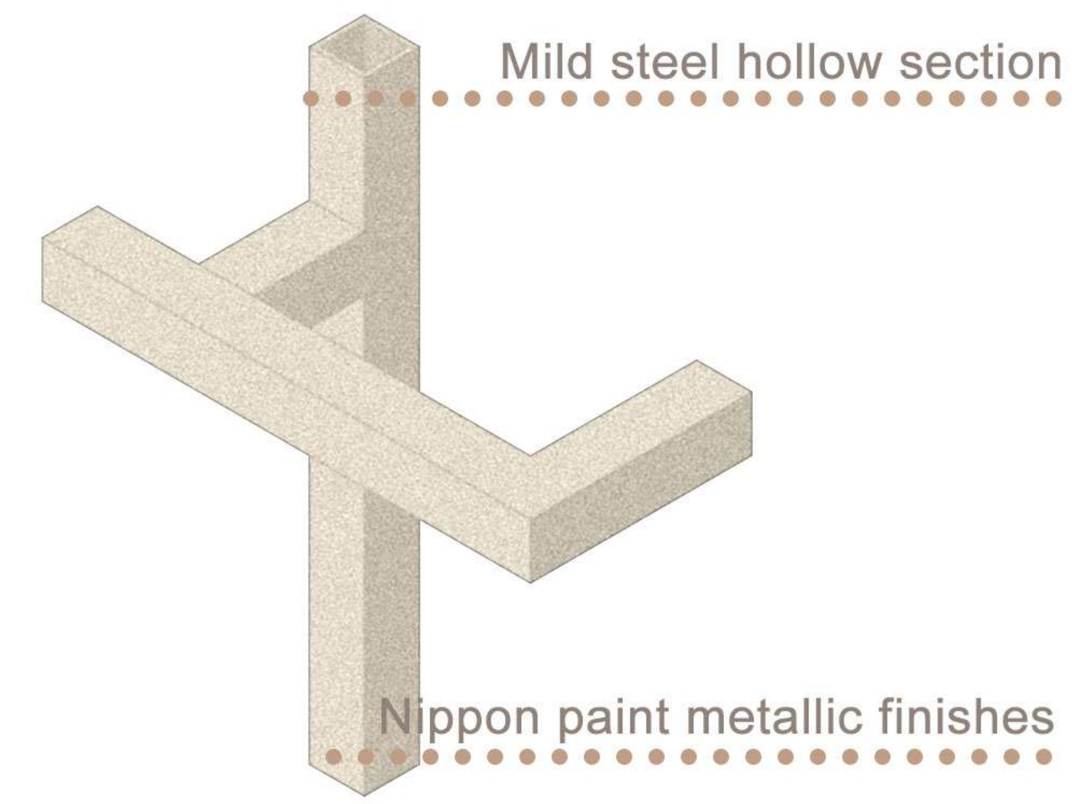
3. Steel structure as the base, timber beam on top of the steel and overlayed with Fiber Cement Board (2400mm x 150mm x 25mm).



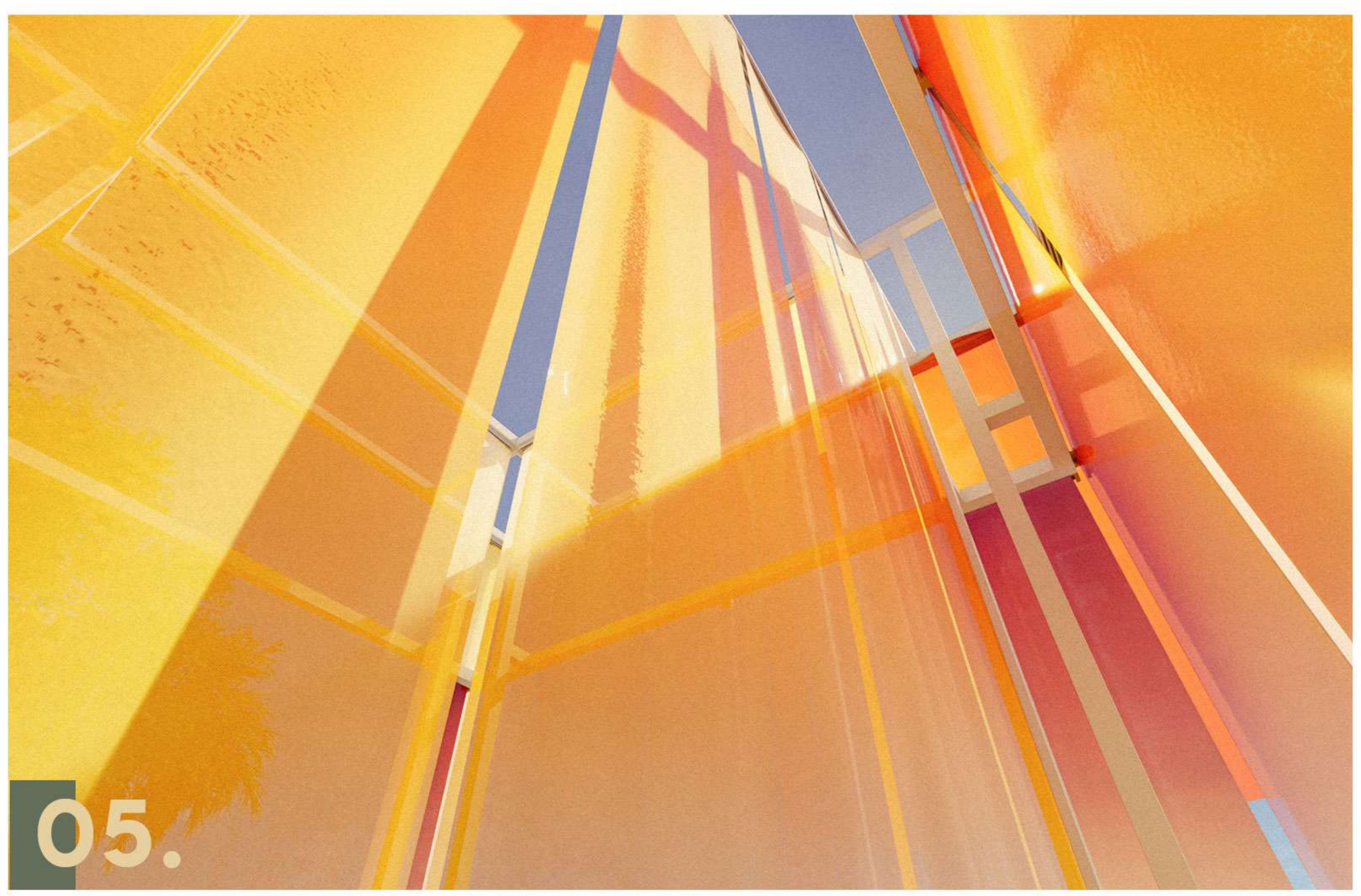
DESCRIPTION

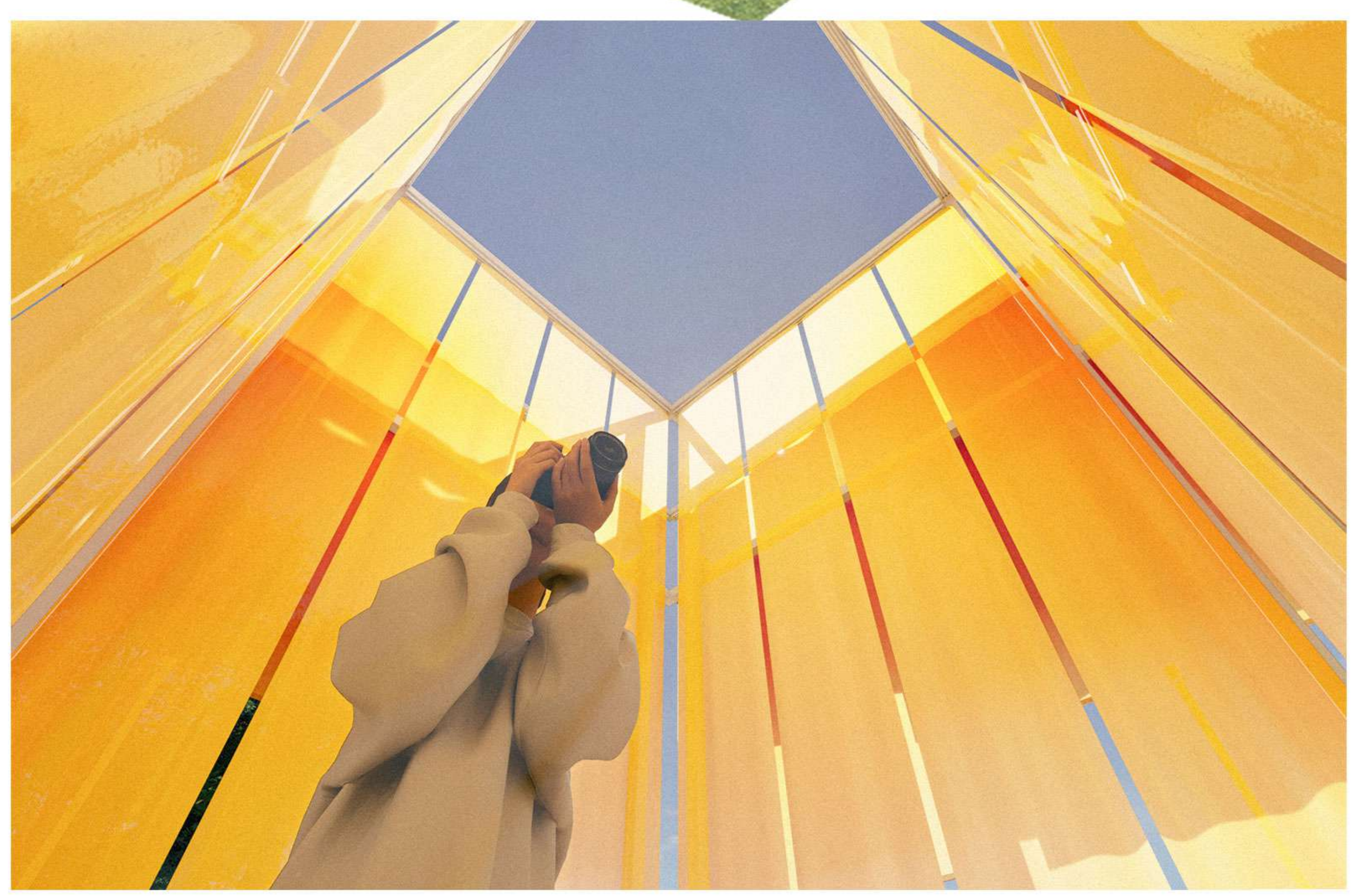
The material palette balances design intent, practicality, and cost-efficiency for the tropical climate. The primary structure utilizes versatile mild steel hollow sections finished with Nippon Metallic Paint for enhanced aesthetics and durability. The flooring consists of UAC DecoWood waterproof decking, a resilient fiber-cement alternative to timber, treated with Nippon Fibercote to ensure superior color retention and weather resistance against year-round elements.

STRUCTURAL MATERIALITY



2. 50mm x 50mm mild steel hollow section with Nippon Paint metallic finish.





Inspired by the traditional game of Batu Seremban, The Kinetic Grain is a pavilion that challenges the rigidity of urban architecture by reimagining communal play for the digital age.

Batu Seremban is a fast-paced game of precision, requiring intense hand-eye coordination across seven distinct stages. However, this design focuses entirely on the game's most poetic ritual: the "Moment of the Toss." It captures the split-second when the stones are suspended in mid-air, translating that fleeting, pre-coordinated motion into a tactile "architecture of stillness."

The pavilion deconstructs the game's controlled chaos into specific spatial zones:

The Mother Stone: A suspended, central canopy that provides shade and serves as the arena's focal point, mimicking the airborne stone.

The Grounded Stones: Four "scattered" geometric volumes on the ground level that create a fluid, non-linear pathway for visitors to explore.

Cultural Preservation: Reintroducing traditional Malay play logic into modern urban design.

Social Catalyst: Creating a "center of gravity" for spontaneous public interaction.

Adaptive Reuse: A modular design that can be disassembled, moved, and "re-scattered" in different city contexts.