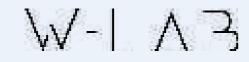
Client:

Jon Manoel Bonderer

Bondos Ltd International







Joma Home

Overview



Client:

Jon Manoel Bonderer Bondos Ltd International

Architects



www.wds-lab.com

Pantone 2021

Green Moss

Mikonos Blue

Ultimate Gray ◀

Root Beer



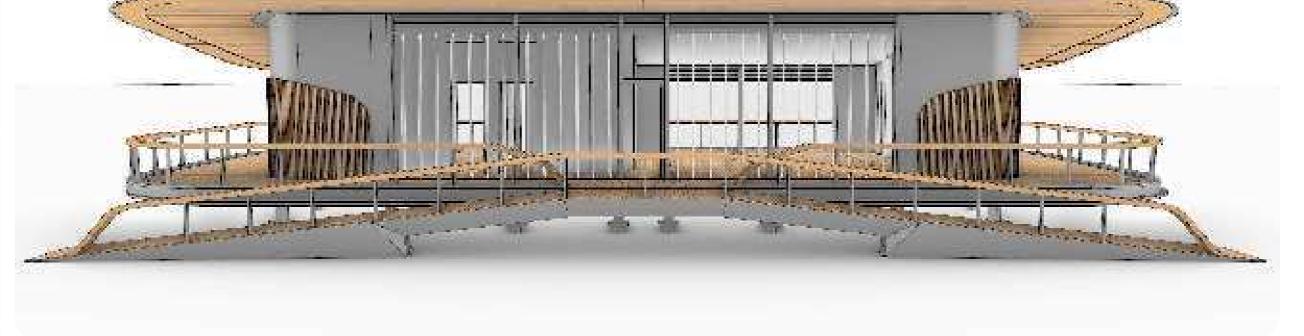
Client:

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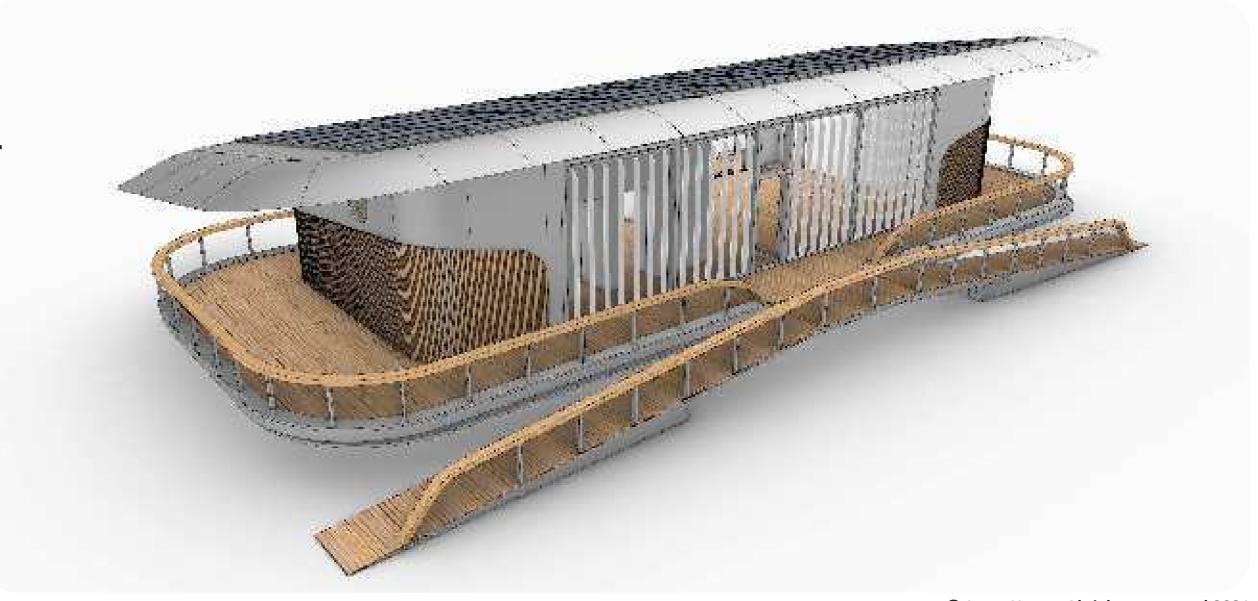
Pantone 2021

Green Moss

Mikonos Blue

Ultimate Gray ◀

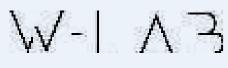
Root Beer



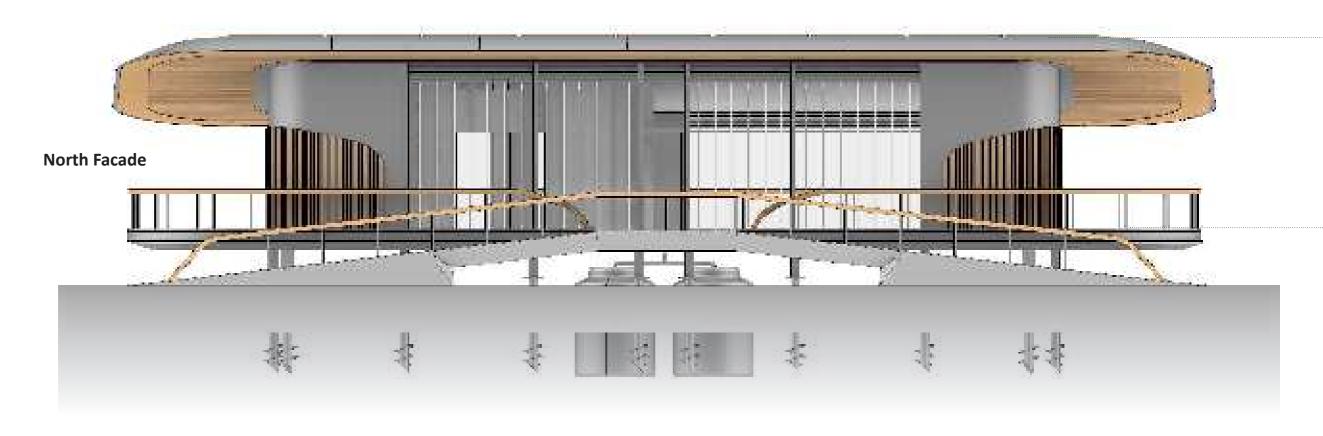
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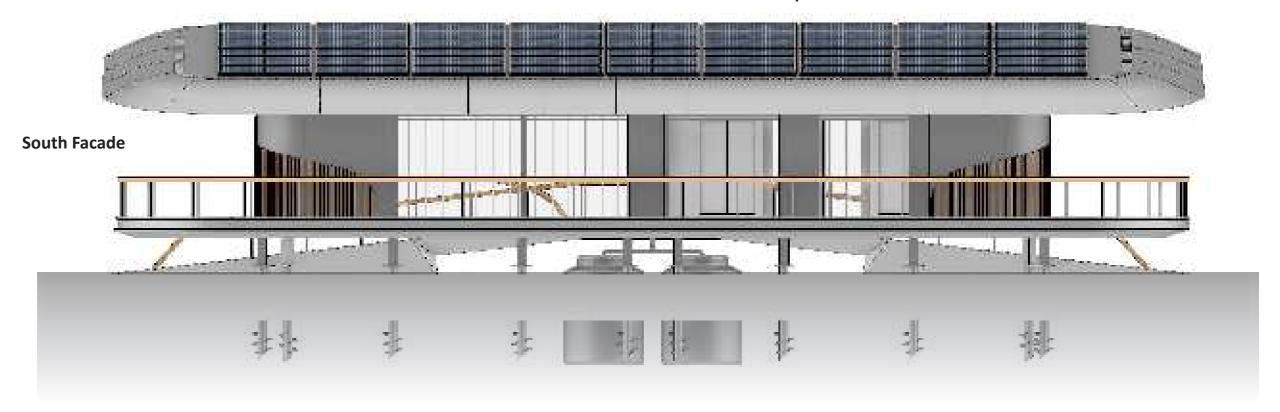
Architects

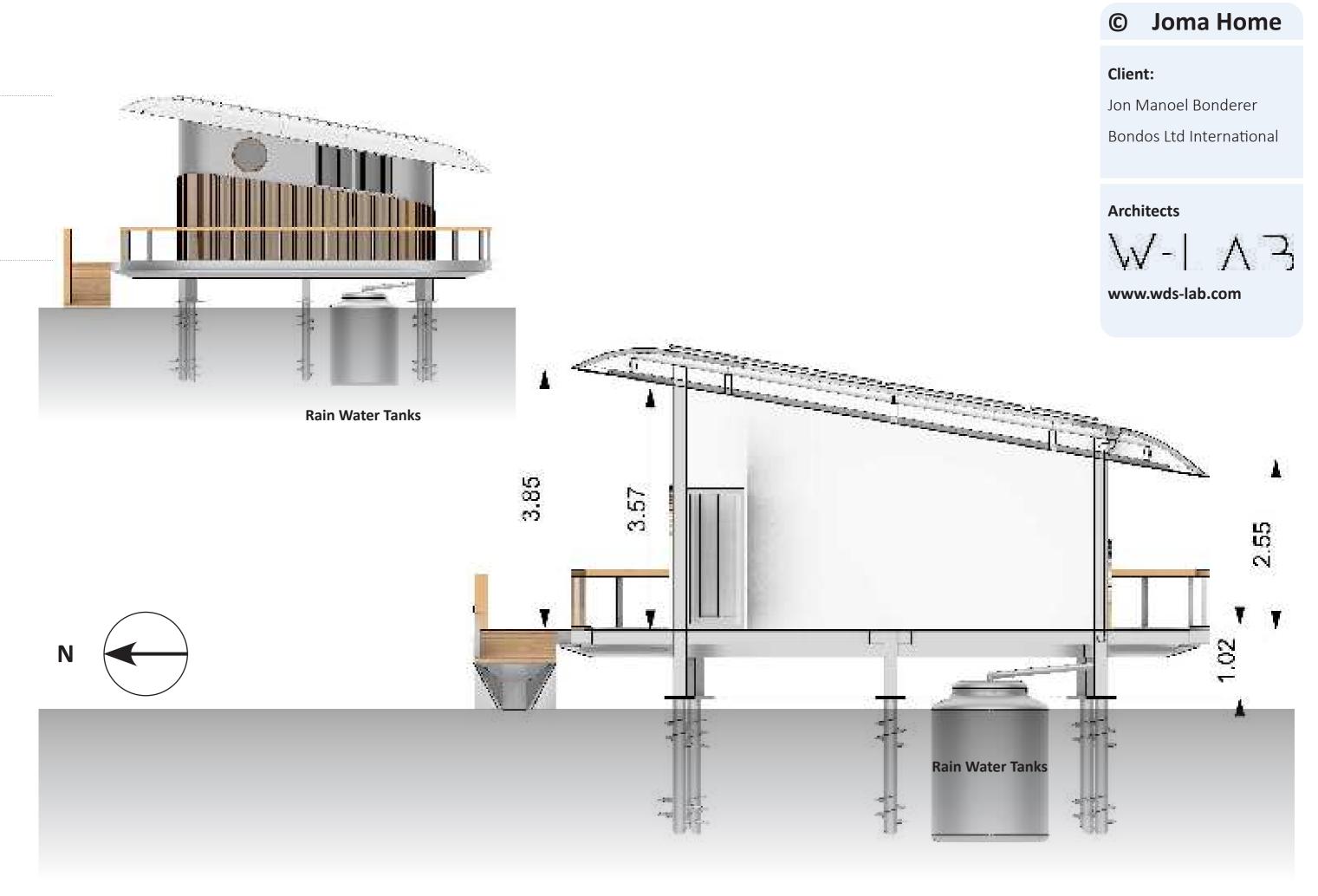


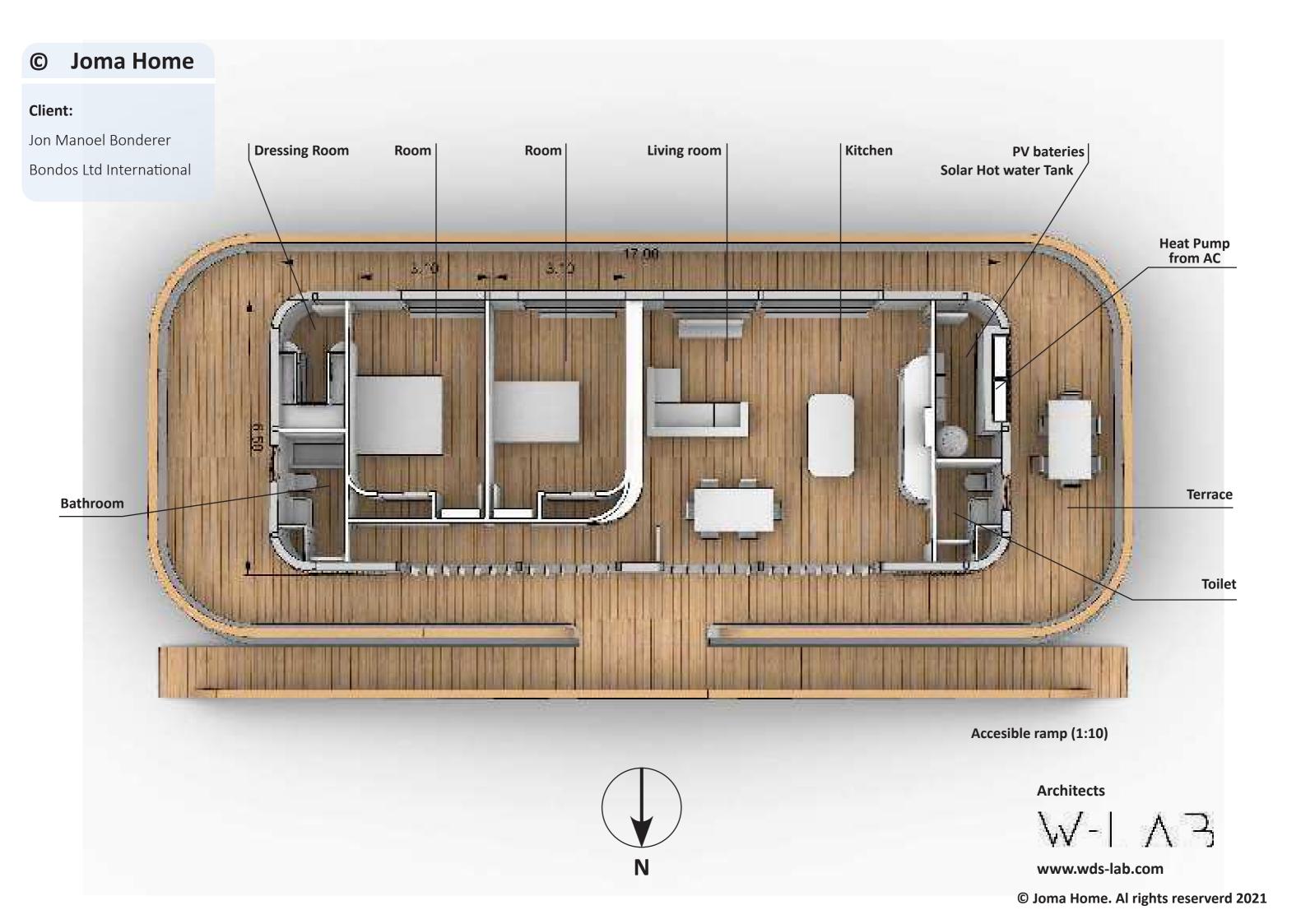
www.wds-lab.com

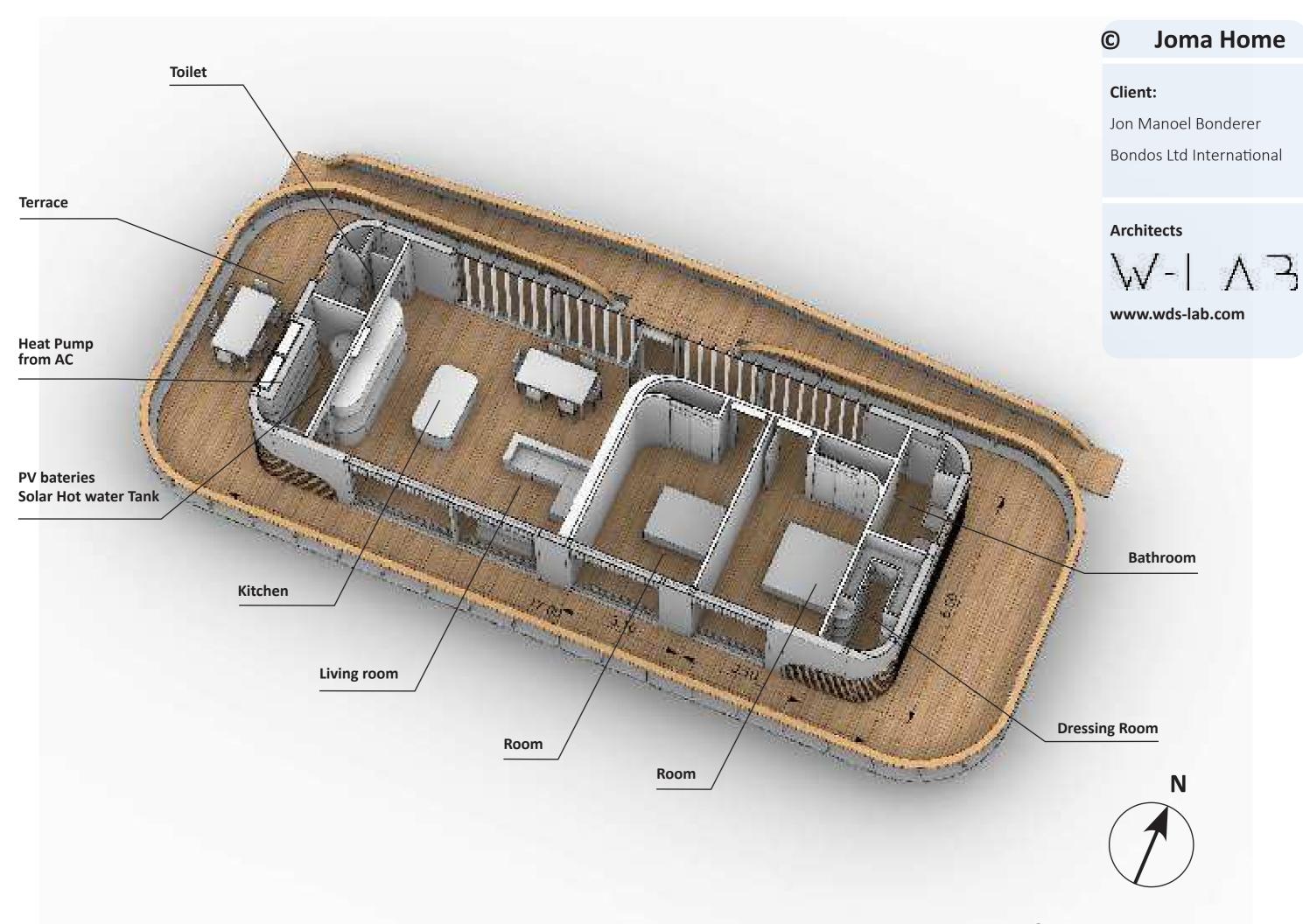


PV pannels







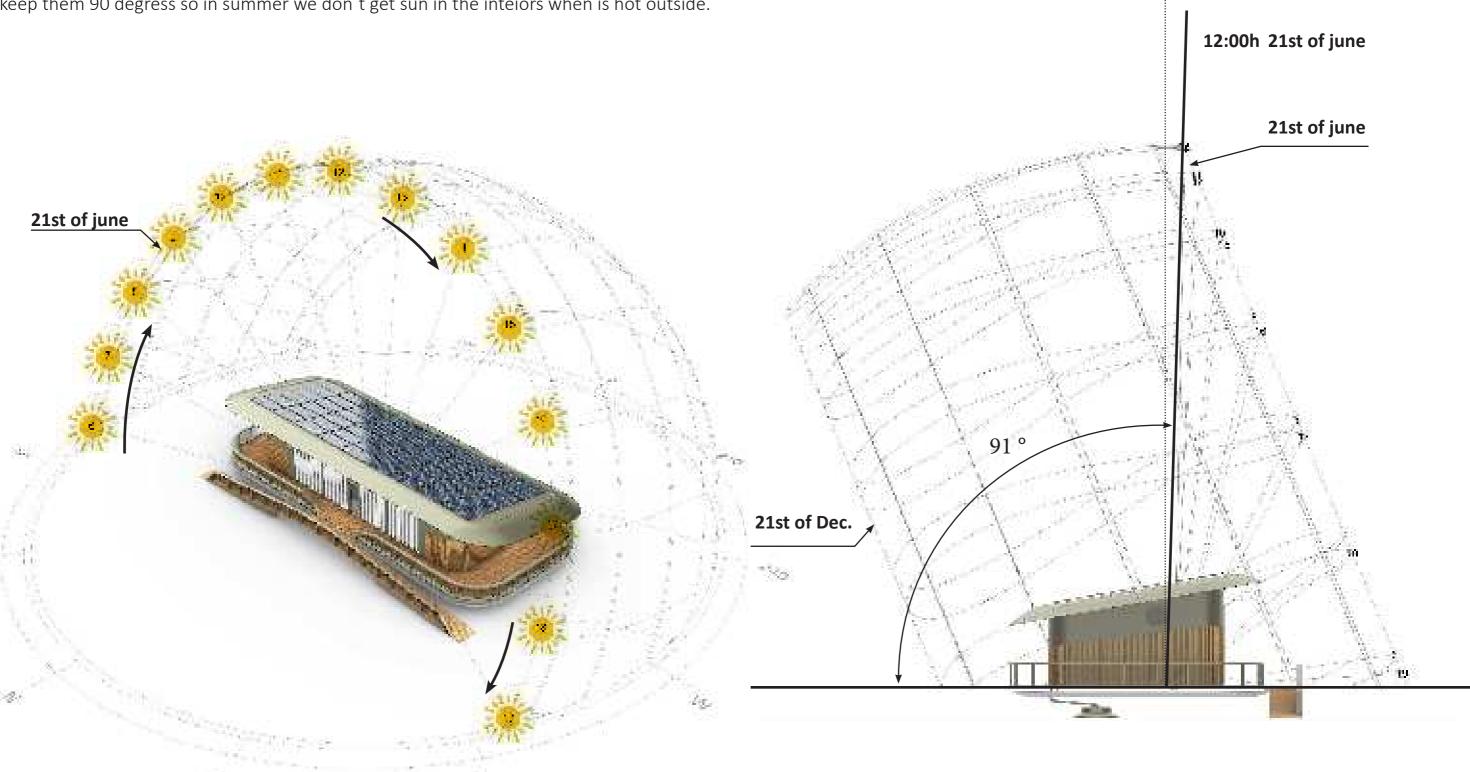


Joma Home

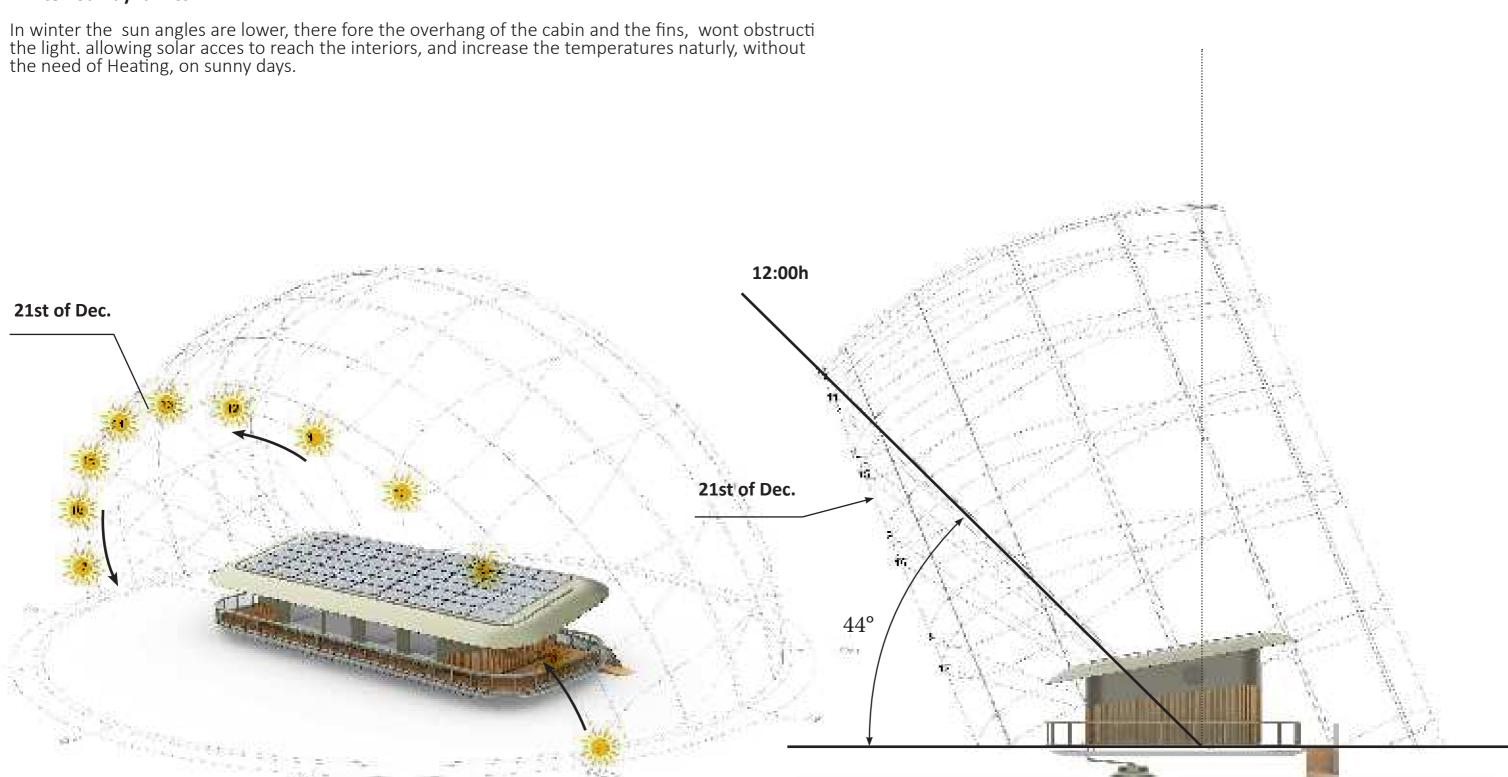
Solar Studies

Summer Sun dynamics

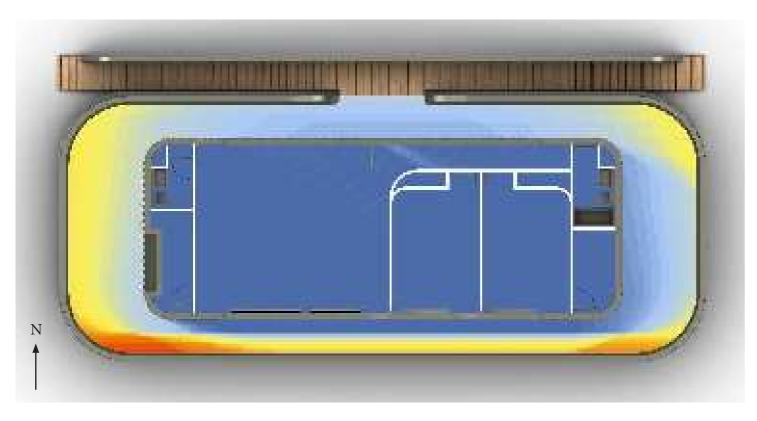
In summer sun Angles are higher, there fore the overhang of the cabin and the fins, protects the interior from overheating. The fins can be oriented and changed at User's will bu our recommendation is to keep them 90 degress so in summer we don't get sun in the inteiors when is hot outside.



Winter Sun dynamics

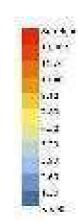


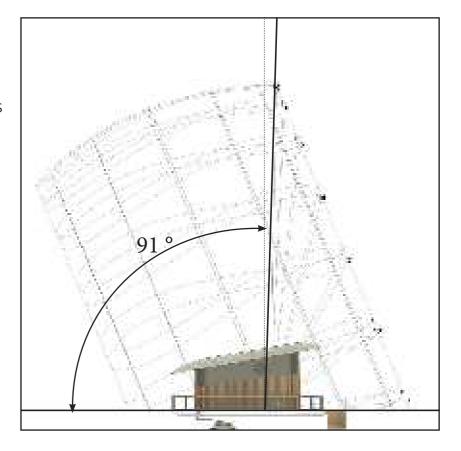
Summer indoor exposure



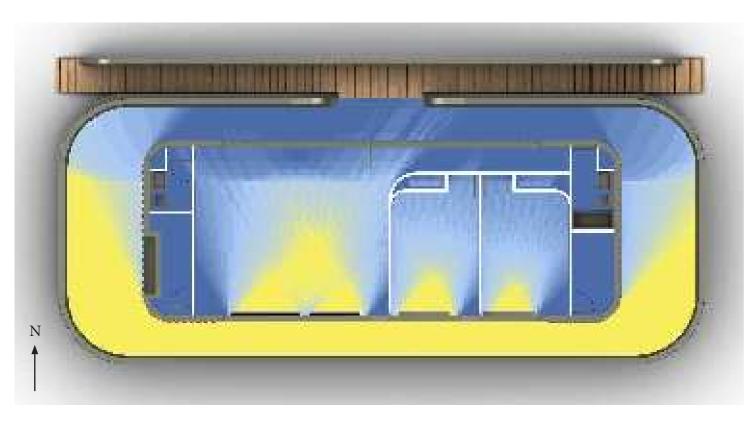
21st of June **Summer protection**

In summer sun Angles are higher, there fore the overhang of the cabin and the fins, protects the interior from overheating. The analysis shows that the interior is completely shaded over the Summer solstice, what is desired.





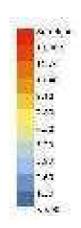
Winter indoor exposure

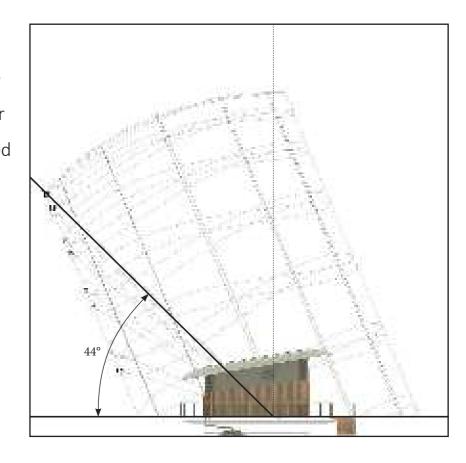


21st of December

Winter Exposure

In winter the sun angles are lower, therefore the overhang of the cabin don't obstruct the sun, allowing its access. The analysis shows that the interior is exposed several hours a day on winter solstice. What is good for passive heating.





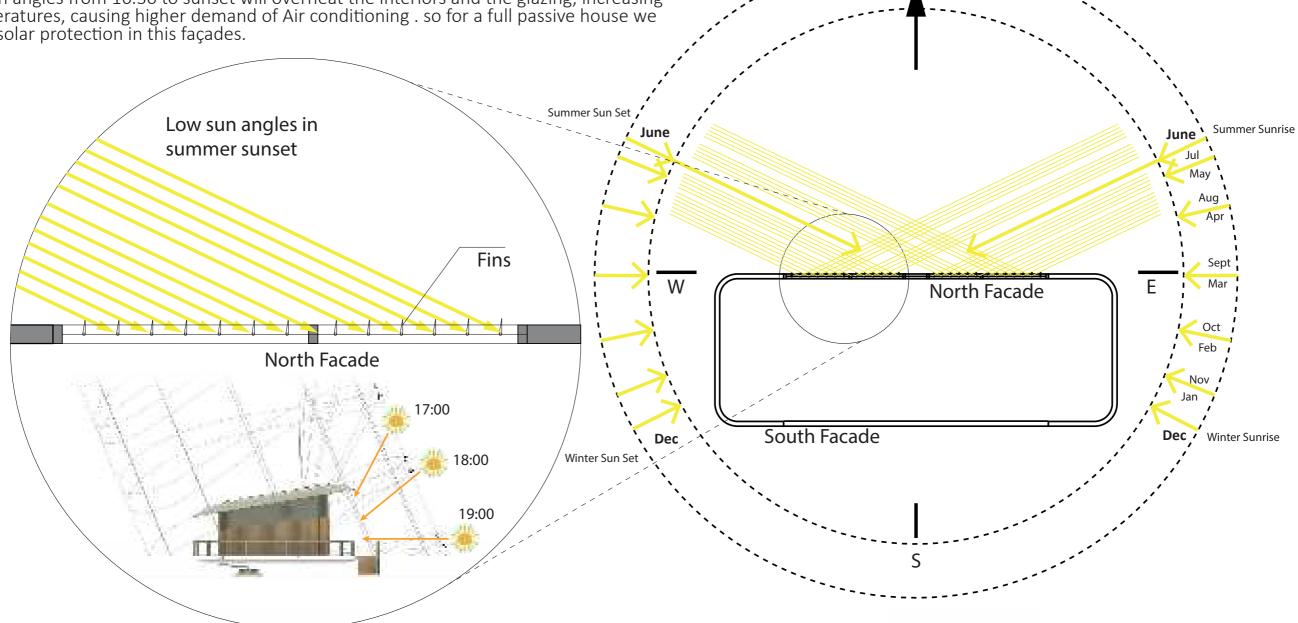
15,000 PLA

V-12 200 -42

1.63

The importance of vertical fins in north façades

Full glazed façades oriented to north Still receive direct sun in summer months. If we don't protect them, low sun angles from 16.30 to sunset will overheat the interiors and the glazing, increasing indoor temperatures, causing higher demand of Air conditioning . so for a full passive house we recommend solar protection in this façades.

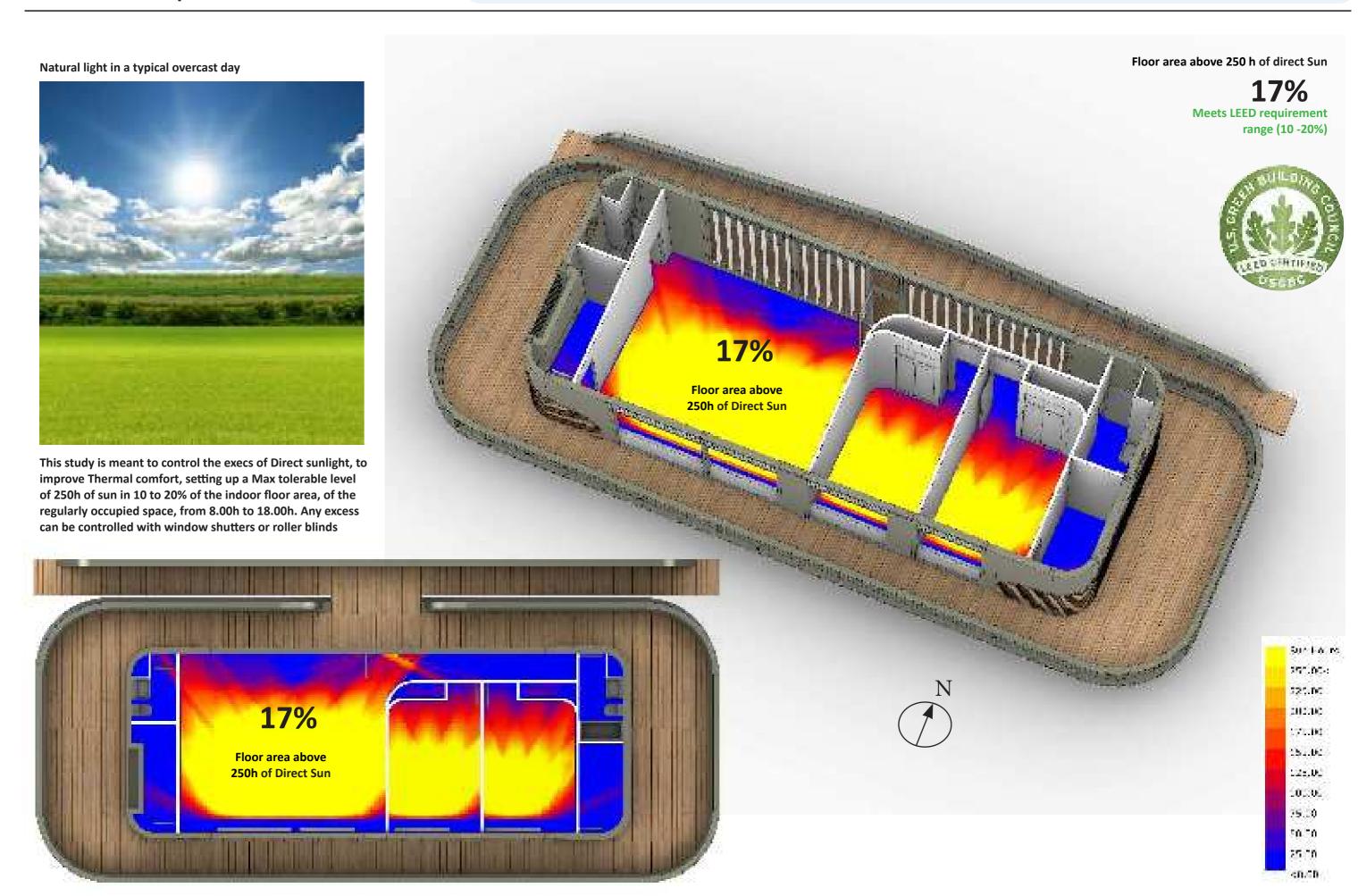


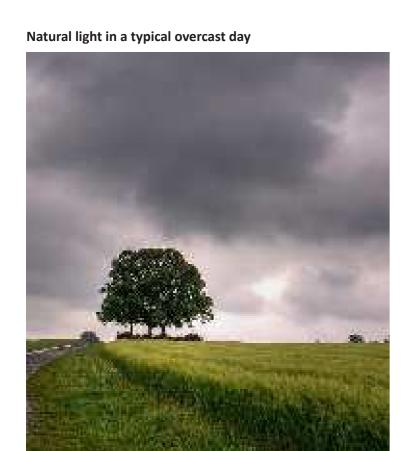
North Facade withouth vertical fins



North Facade with vertical fins





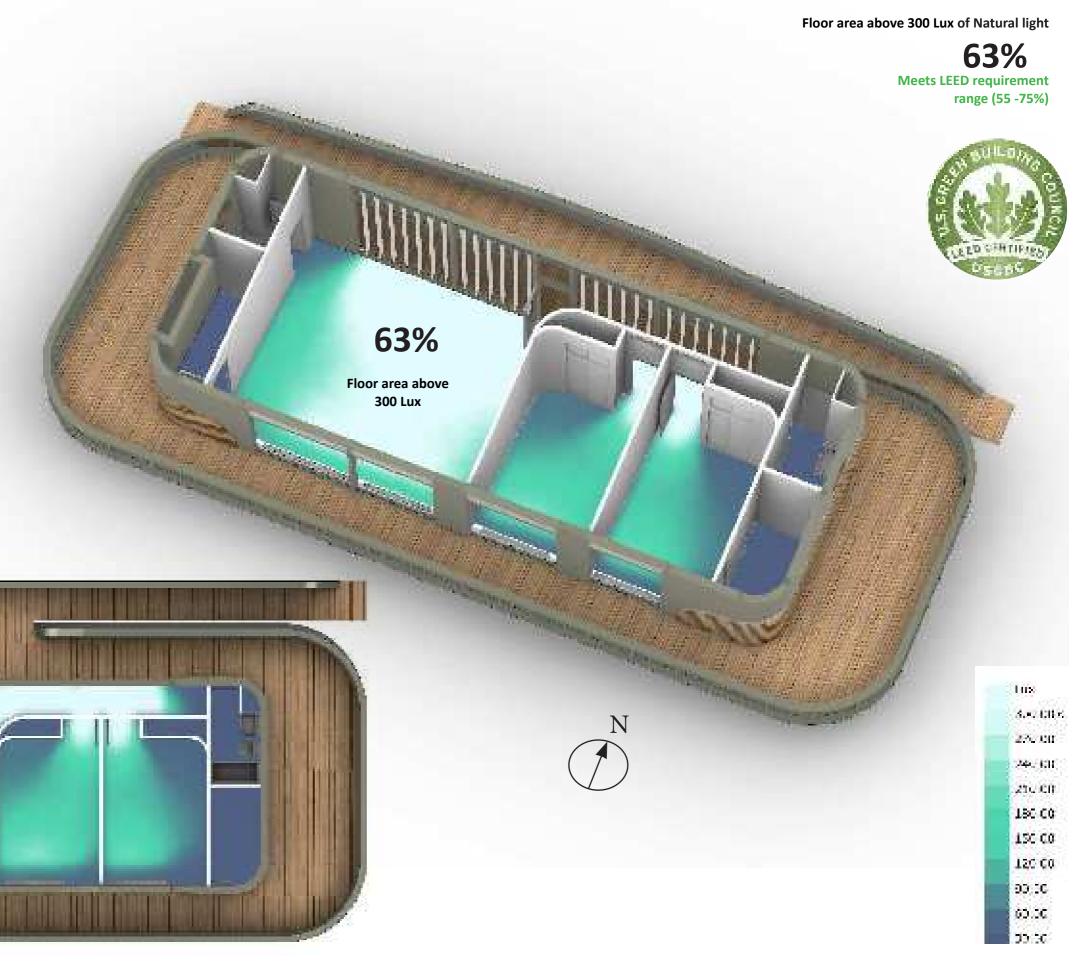


This study is meant to ensure enough daylight on a typical day with cloudy skies. Average Illuminance value of a totally coverd sky in Viena is 25900 Lux. LEED certifcate requires in beweetn 55% to 75% of the regularly occupied space, to receive 300 Lux, from 8.00h to 18.00h

63%

Floor area above

300 Lux



Joma Home

Colour Studies

Client:

Jon Manoel Bonderer

Bondos Ltd International

Architects



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Green Moss and timber

Mikonos Blue and timber





Root Beer and timber Fire Whirl and timber

Client:

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Architects



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Pantone 2021

Green Moss

Mikonos Blue

Ultimate Gray

Root Beer



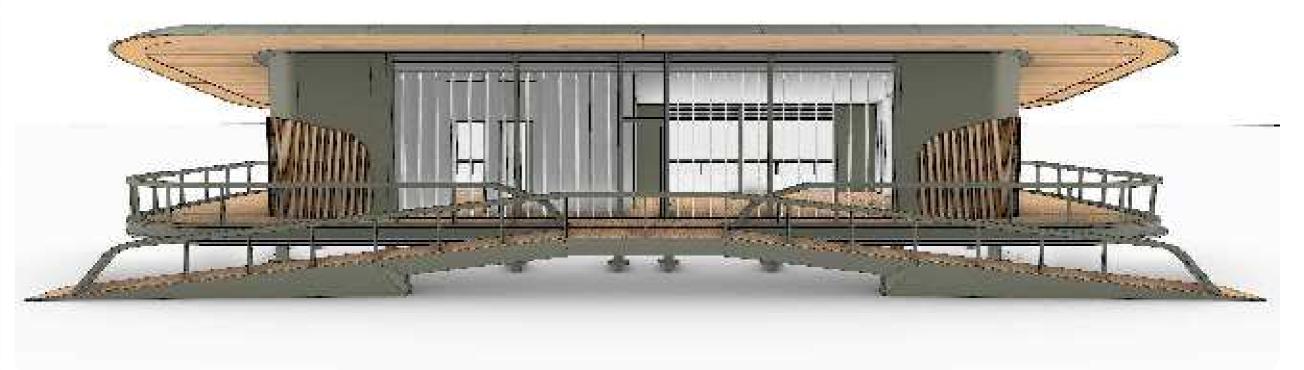
Client:

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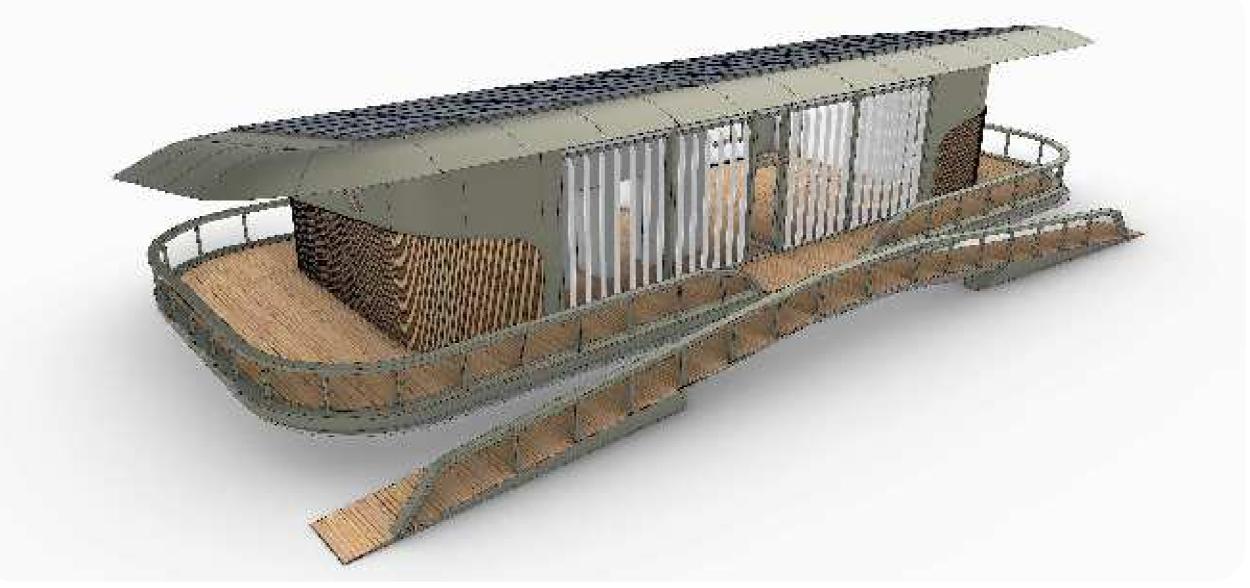
Pantone 2021

Green Moss

Mikonos Blue

Ultimate Gray

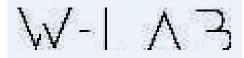
Root Beer



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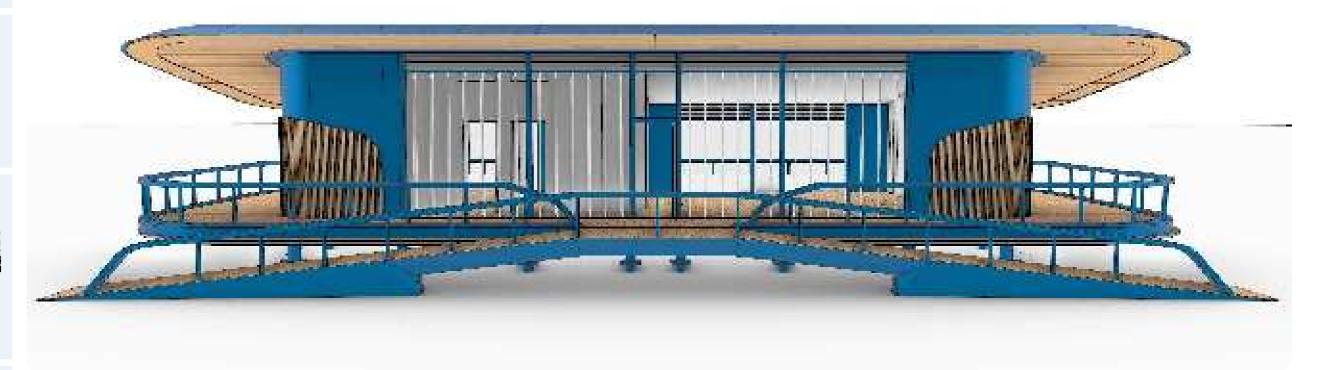
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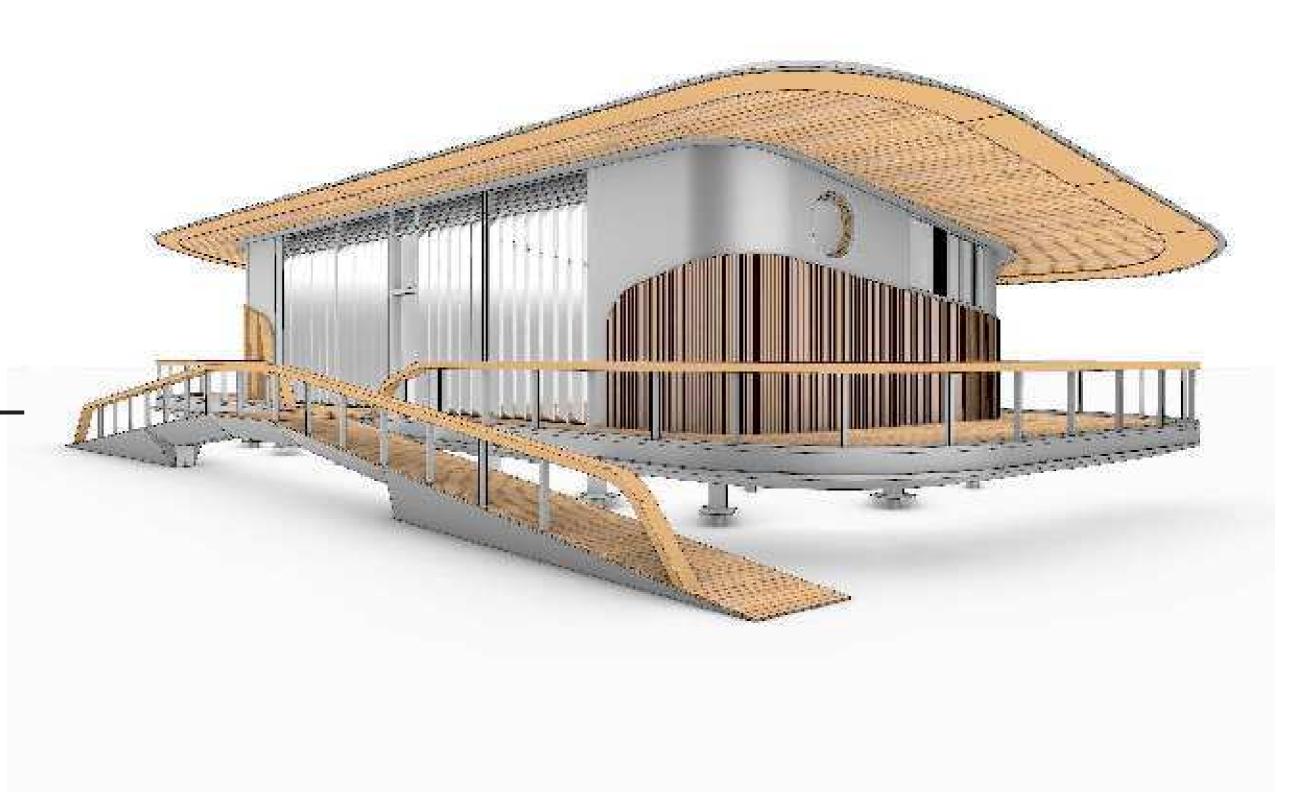
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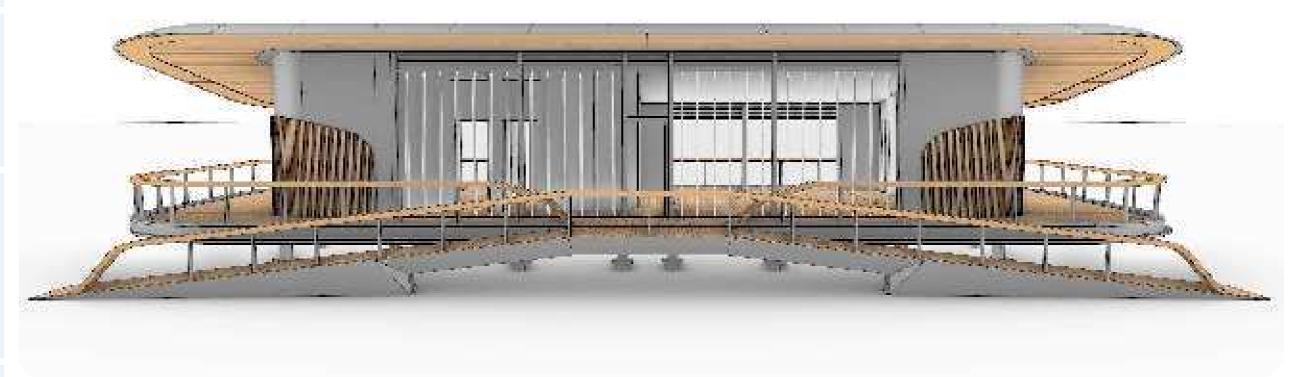
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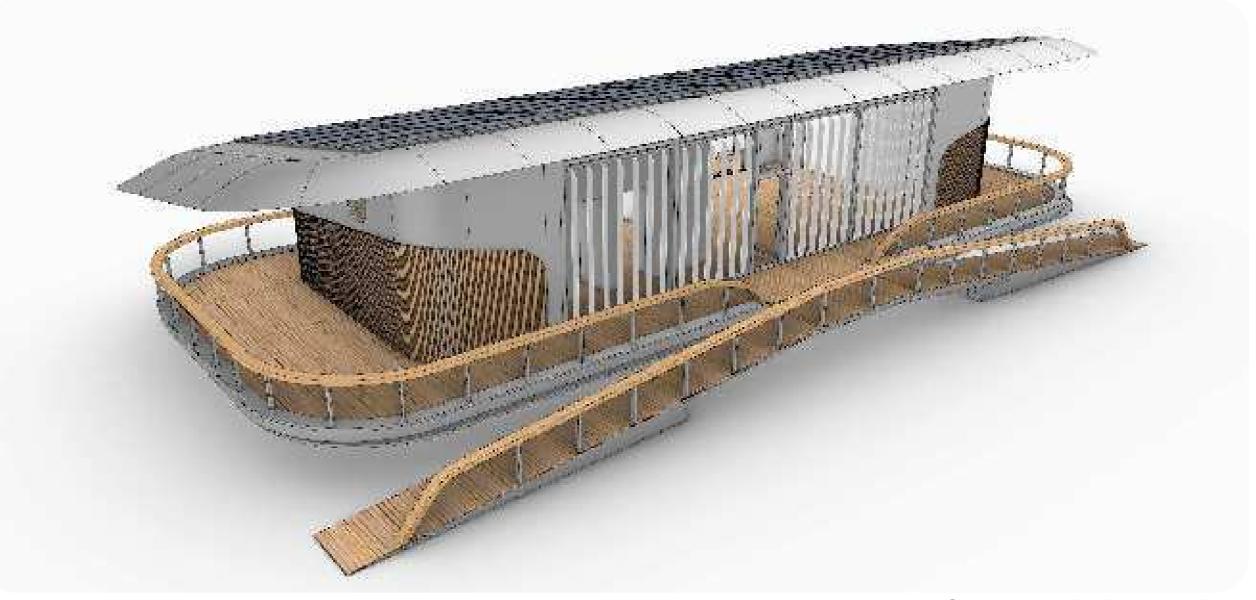


Green Moss

Mikonos Blue

Root Beer





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Pantone 2021

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Root Beer



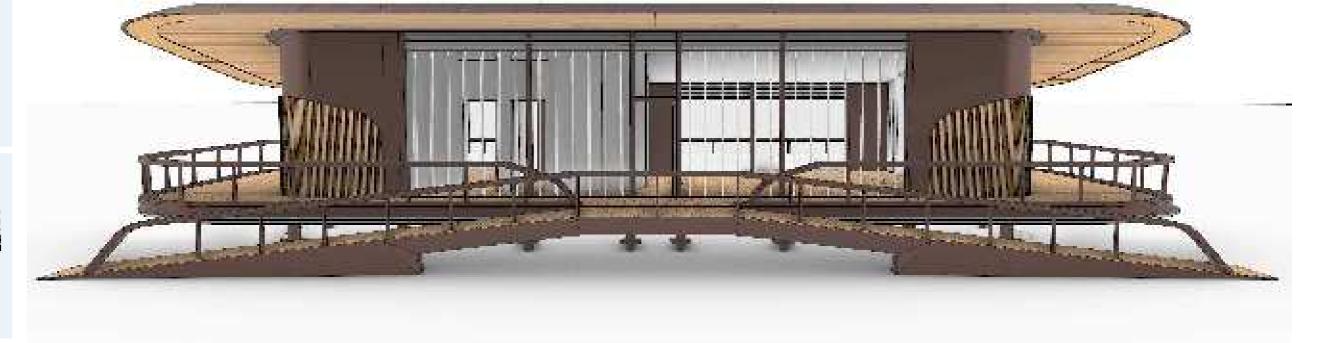
Client:

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Pantone 2021

Green Moss

Mikonos Blue

Ultimate Gray

Root Beer



Client:

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Pantone 2021

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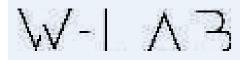
Root Beer



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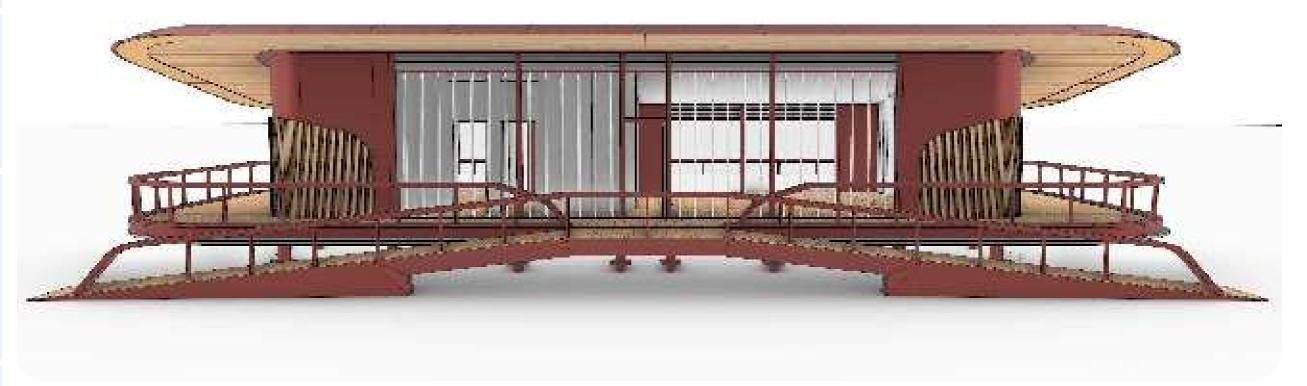
Pantone 2021

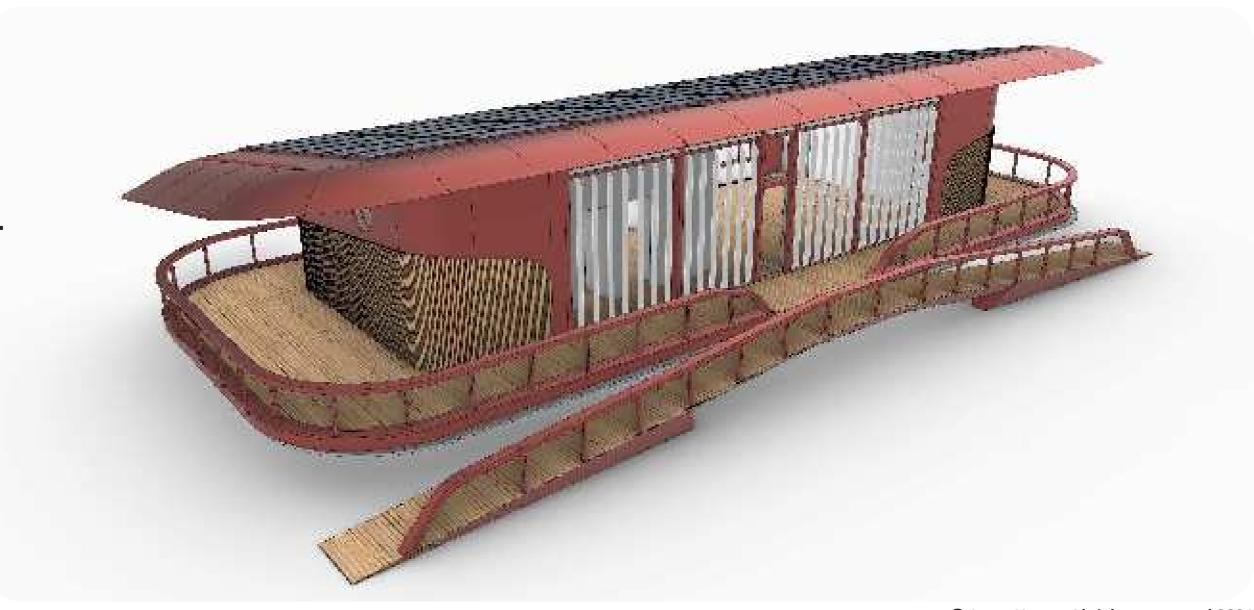
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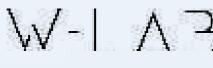
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Structure

Client:

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Bondos Ltd International

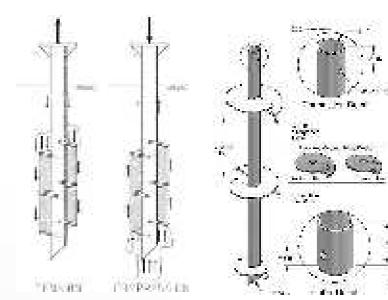
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Screw Piles

The main advantage is that they don't requie concrete foundations. and can be removed after the building life cycle is over, withouth a major impact on the site.





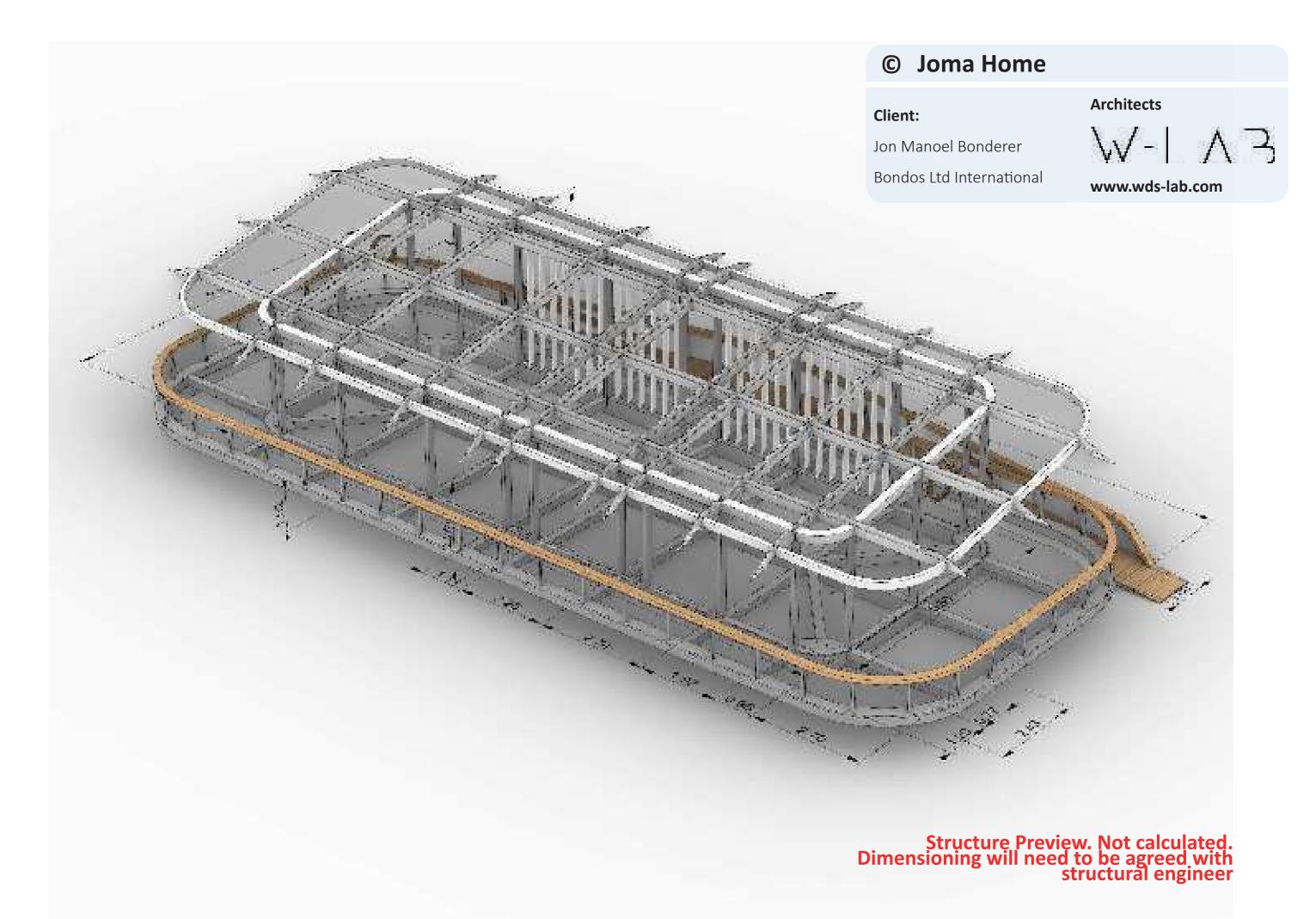
Concrete free Suport

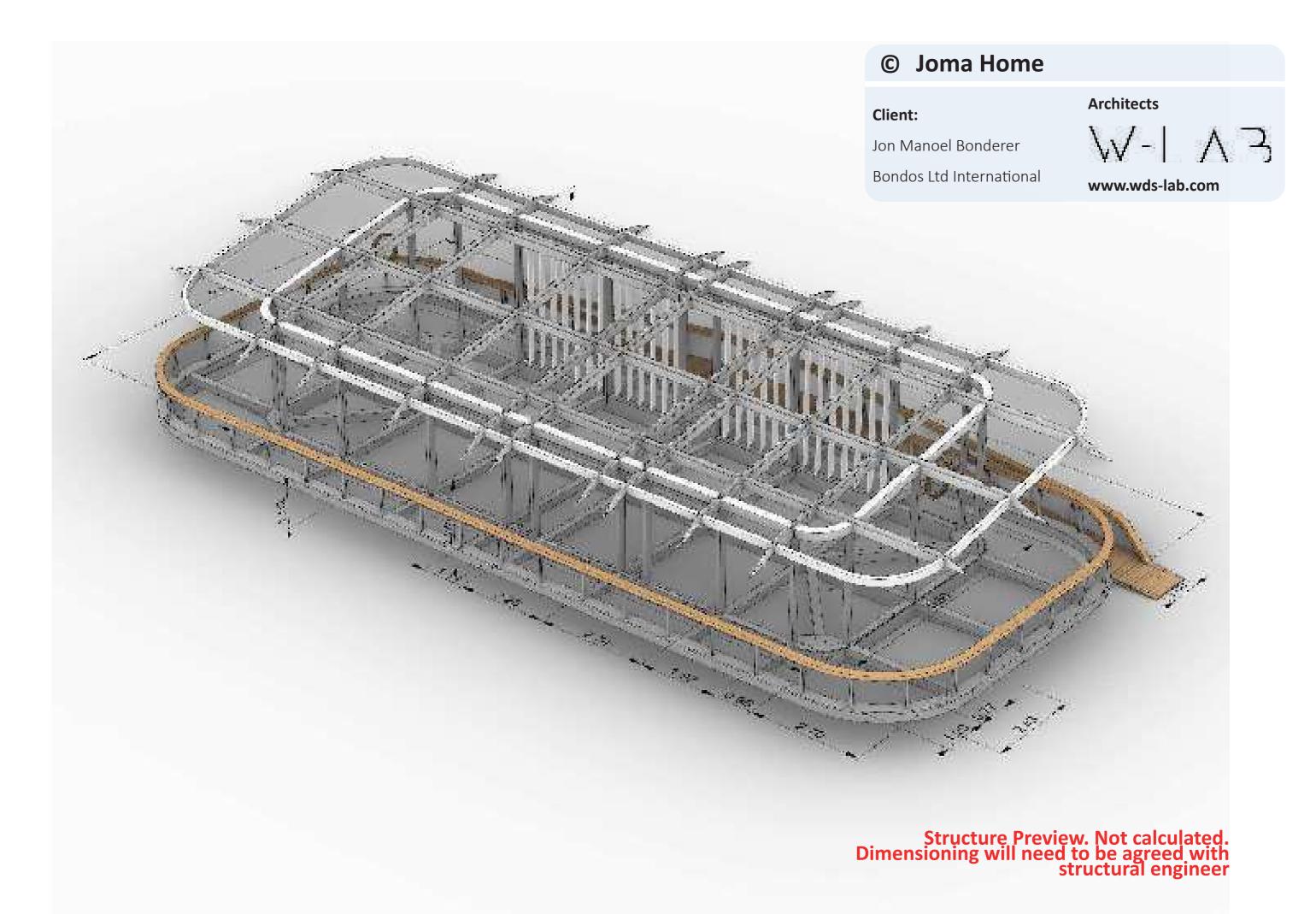
Screw Piles

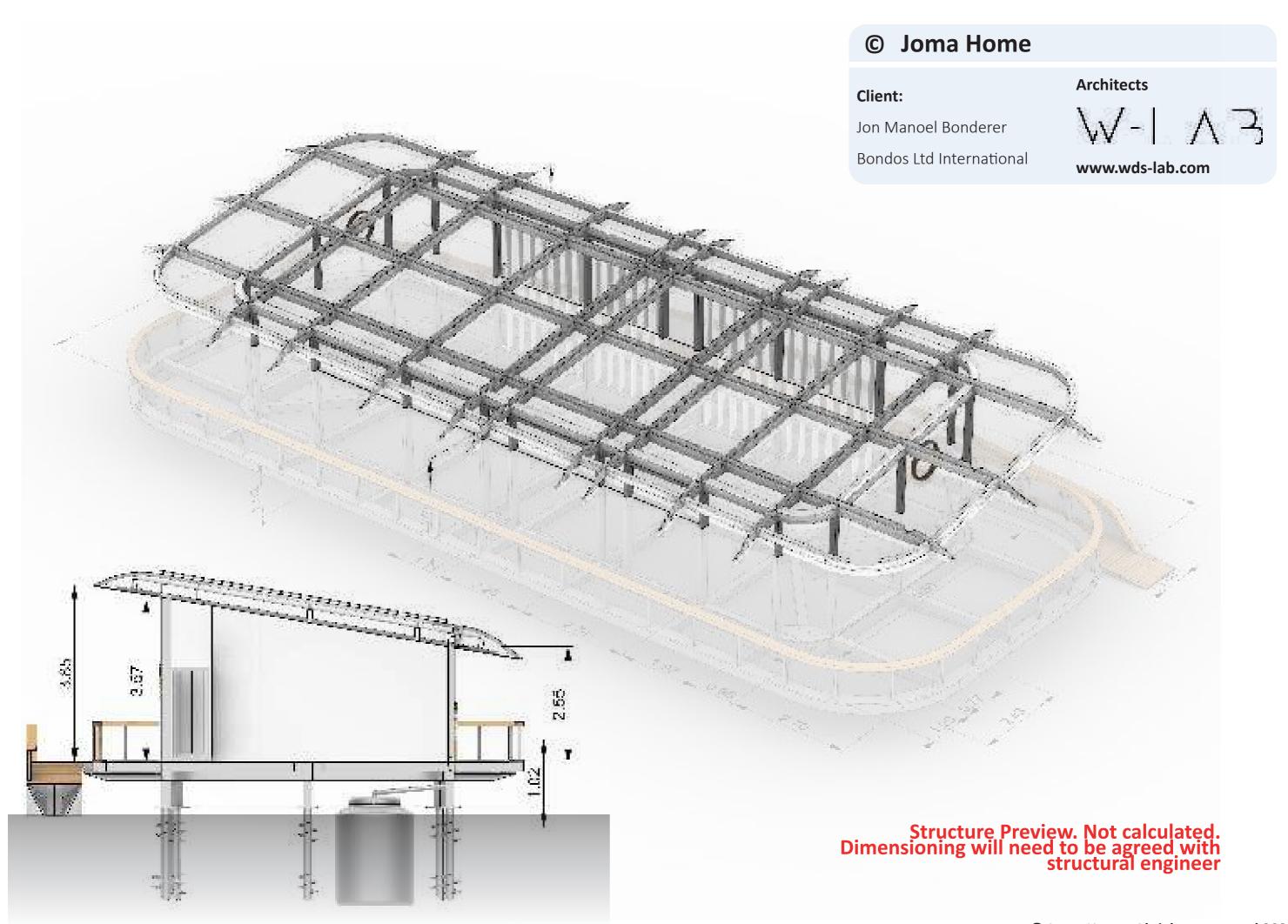


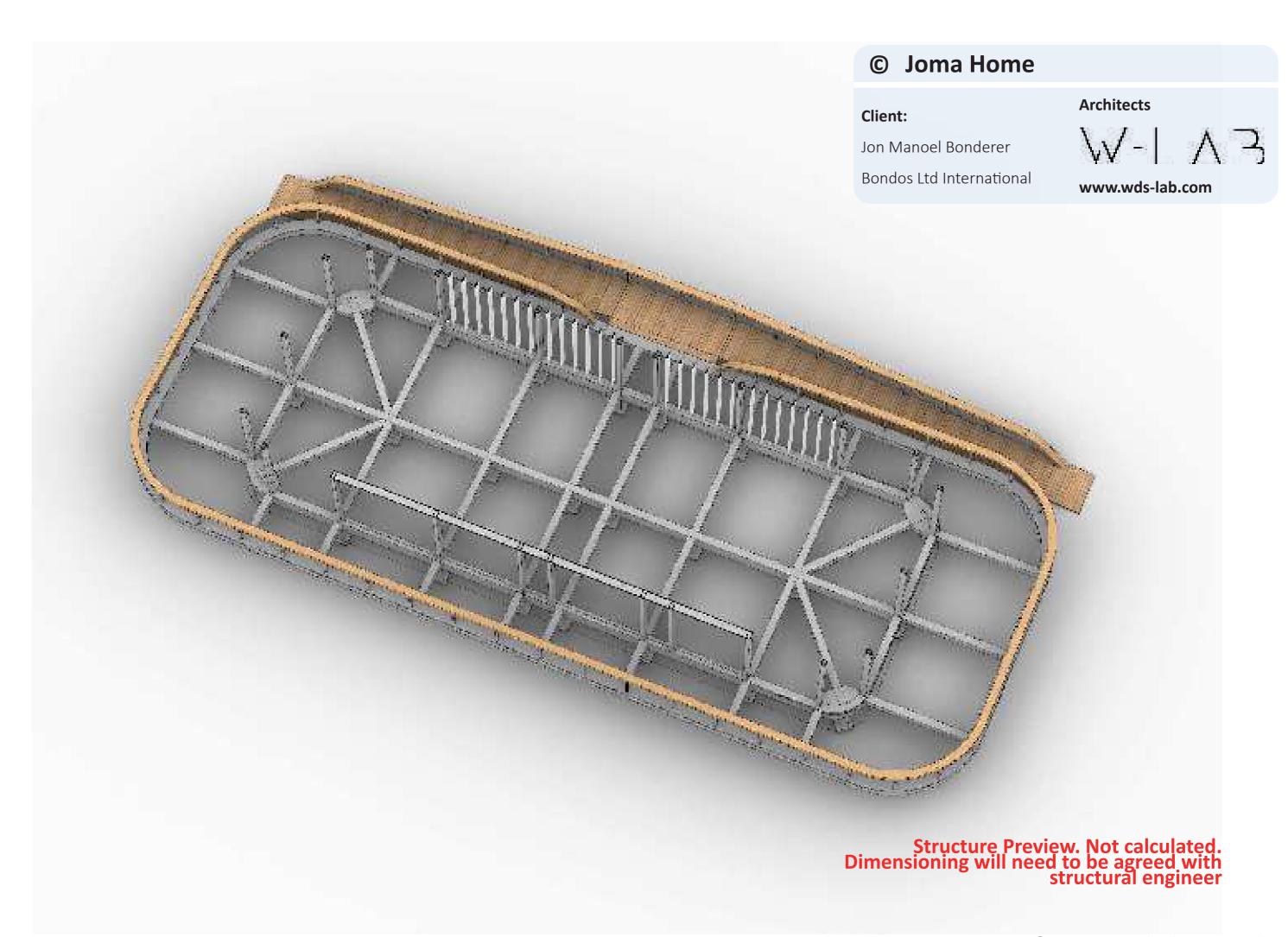


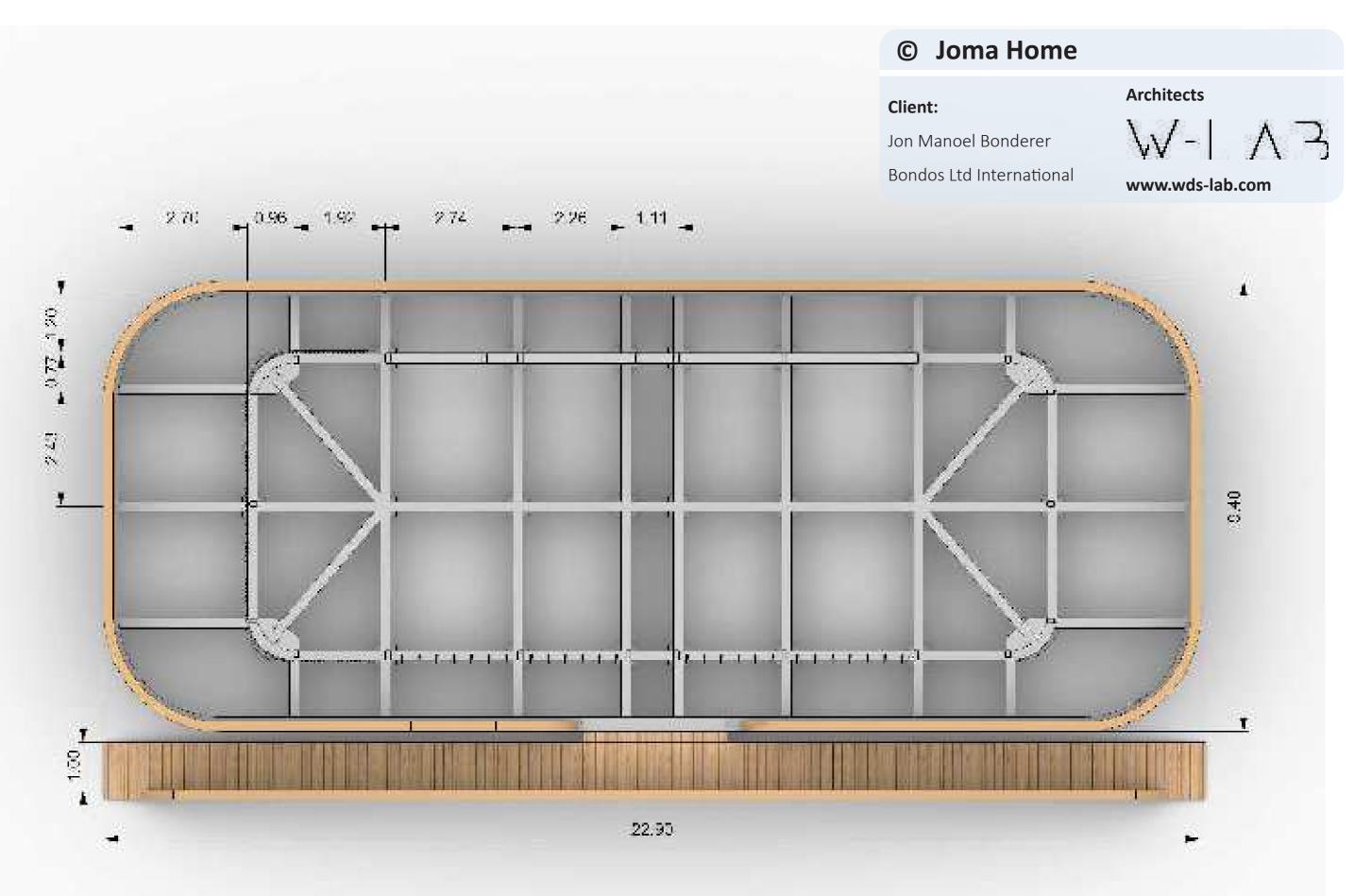
Structure Preview. Not calculated. Dimensioning will need to be agreed with structural engineer











Structure Preview. Not calculated. Dimensioning will need to be agreed with structural engineer