



PACIFIC GREEN
SAVE THE FORESTS USE PALMWOOD

MASDAR CITY ABU DHABI, FOSTER & PARTNERS 2010
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Pivoting wind screens, Masdar University, Abu Dhabi for Foster + Partners 2010



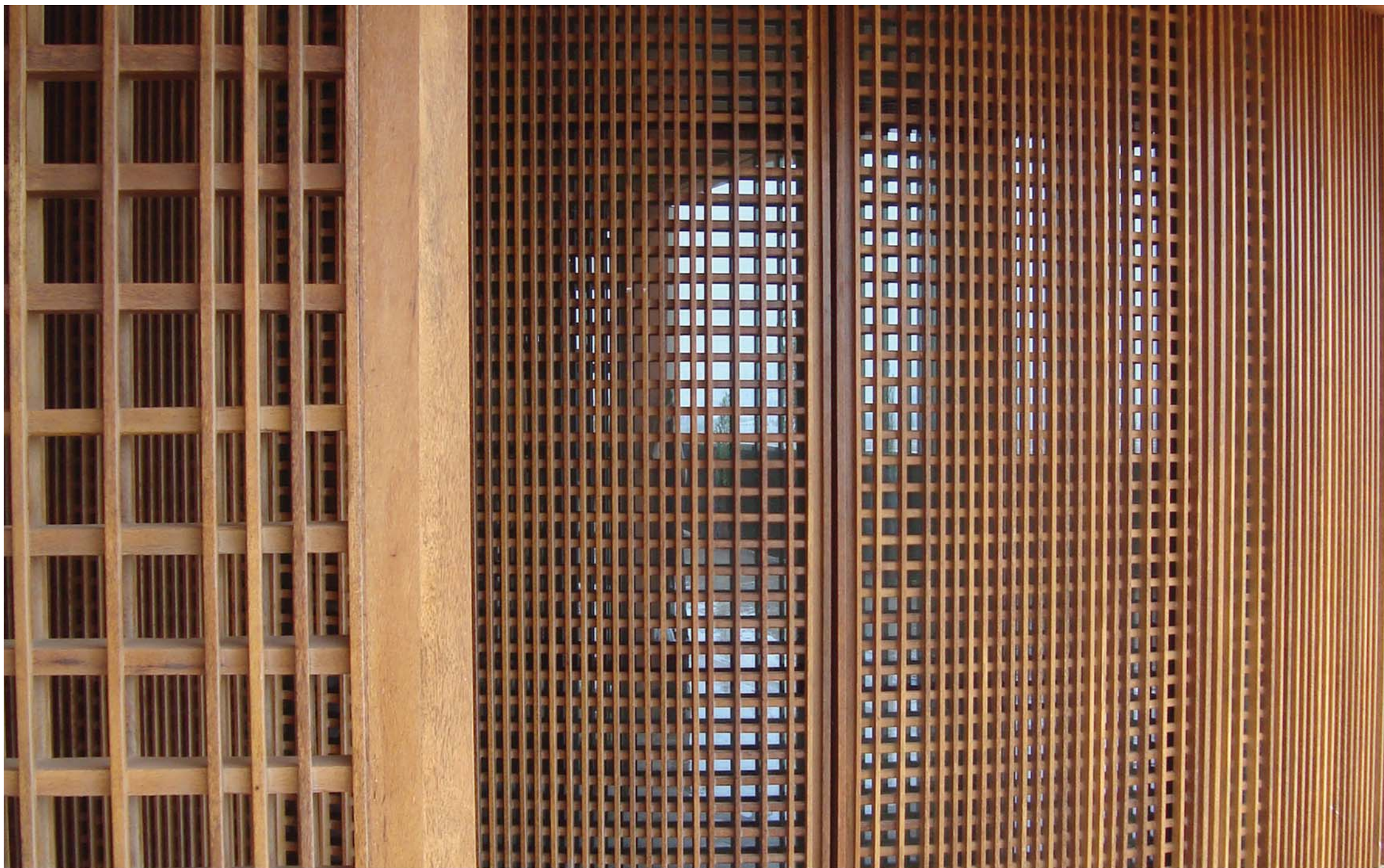
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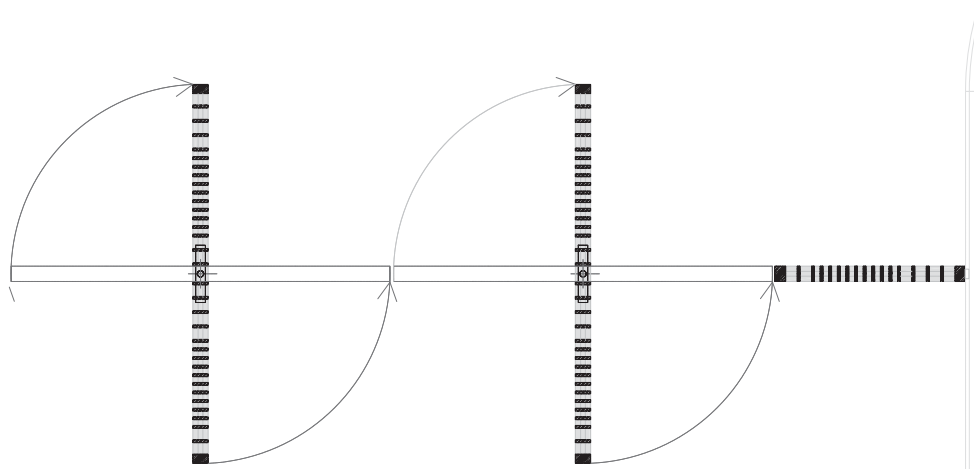
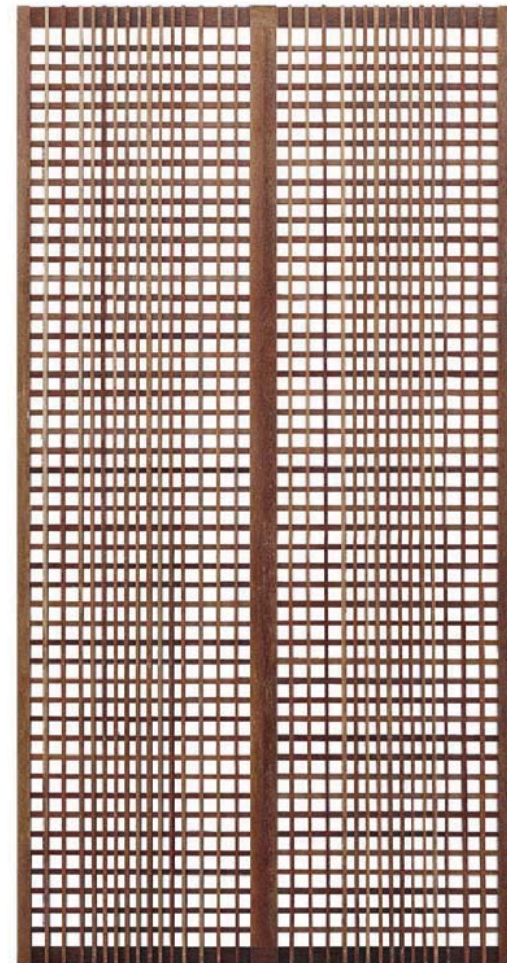
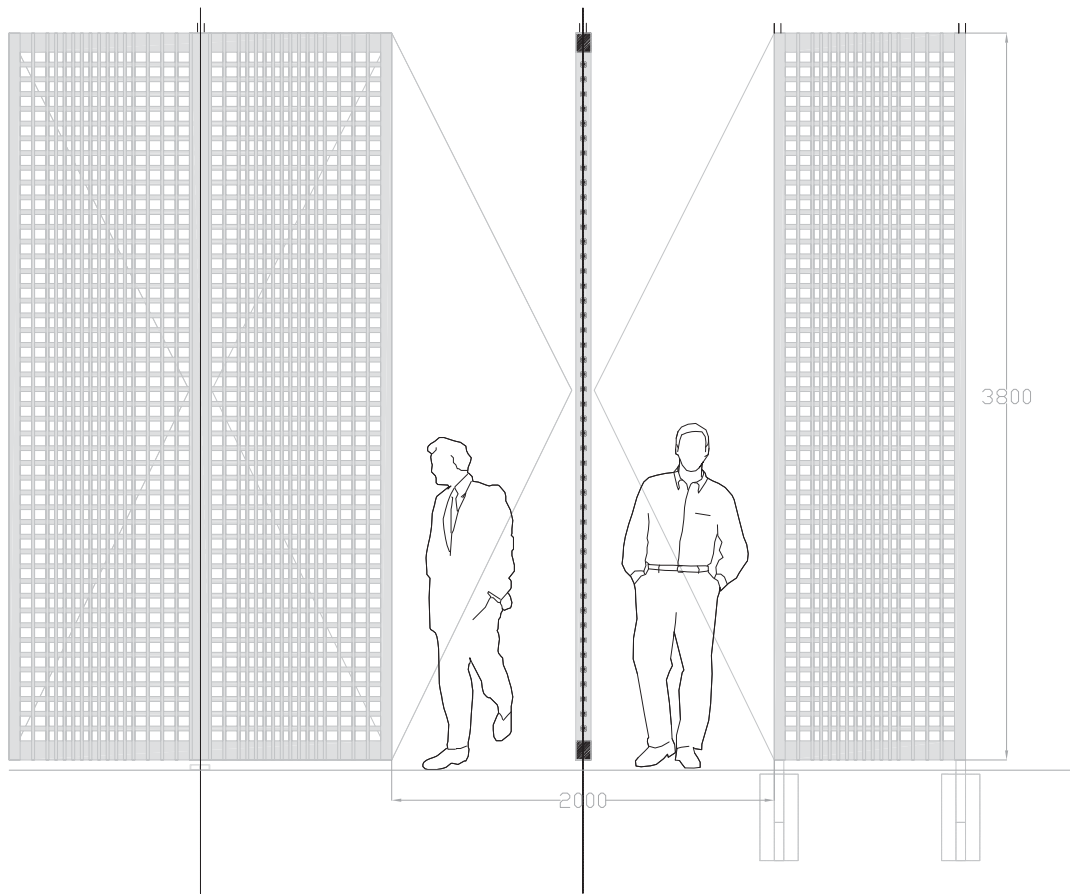
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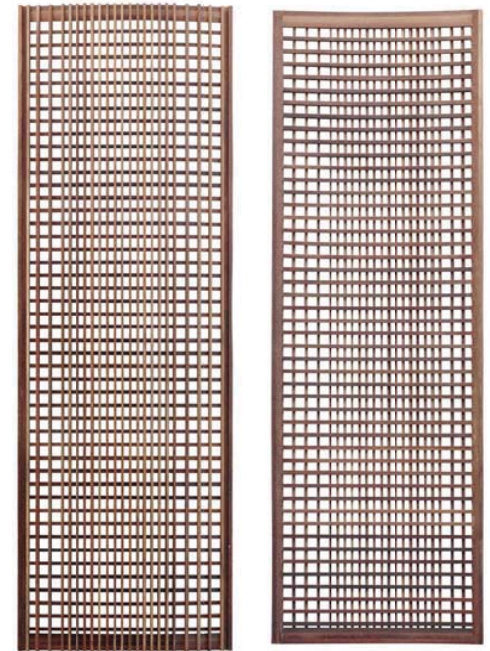
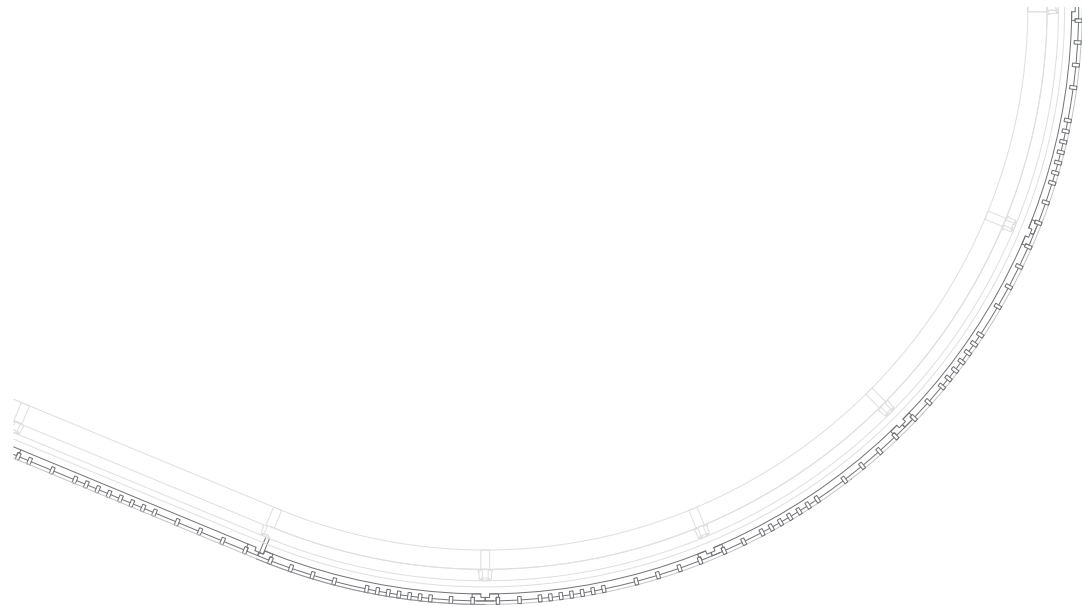
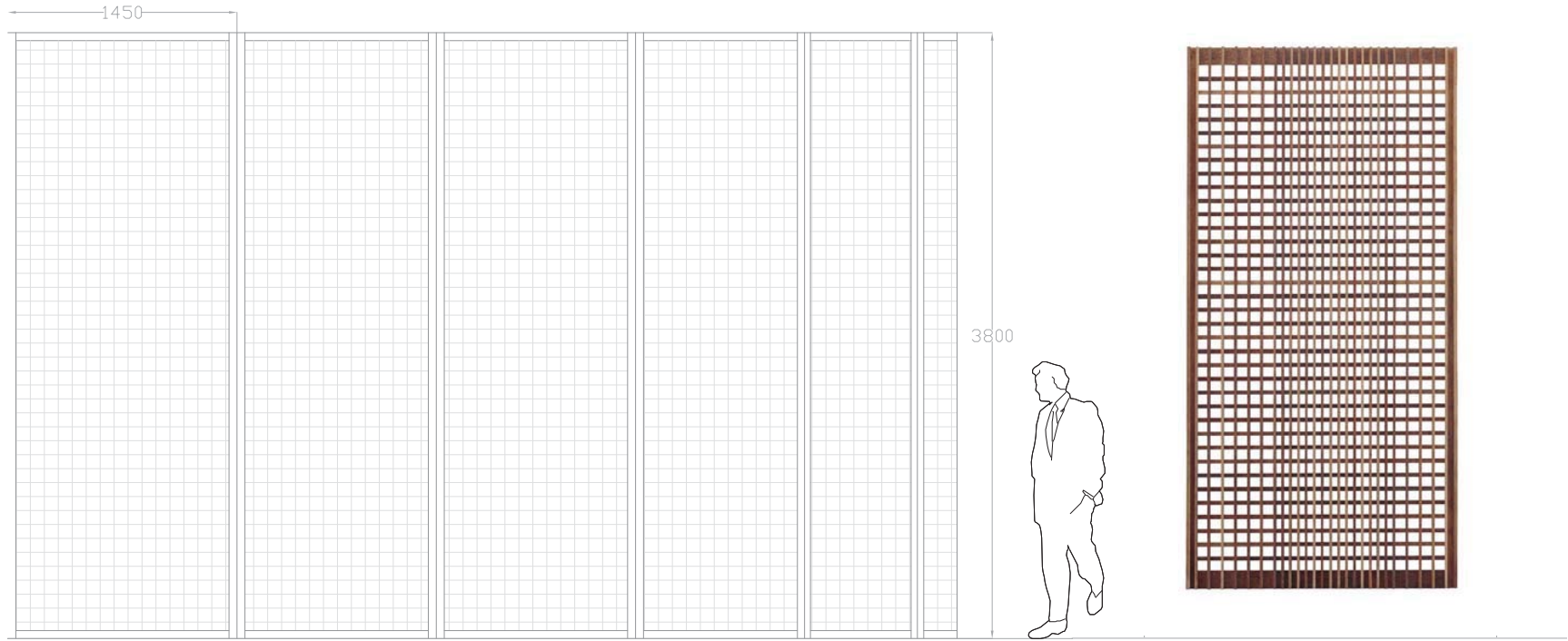
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10.0 Case studies

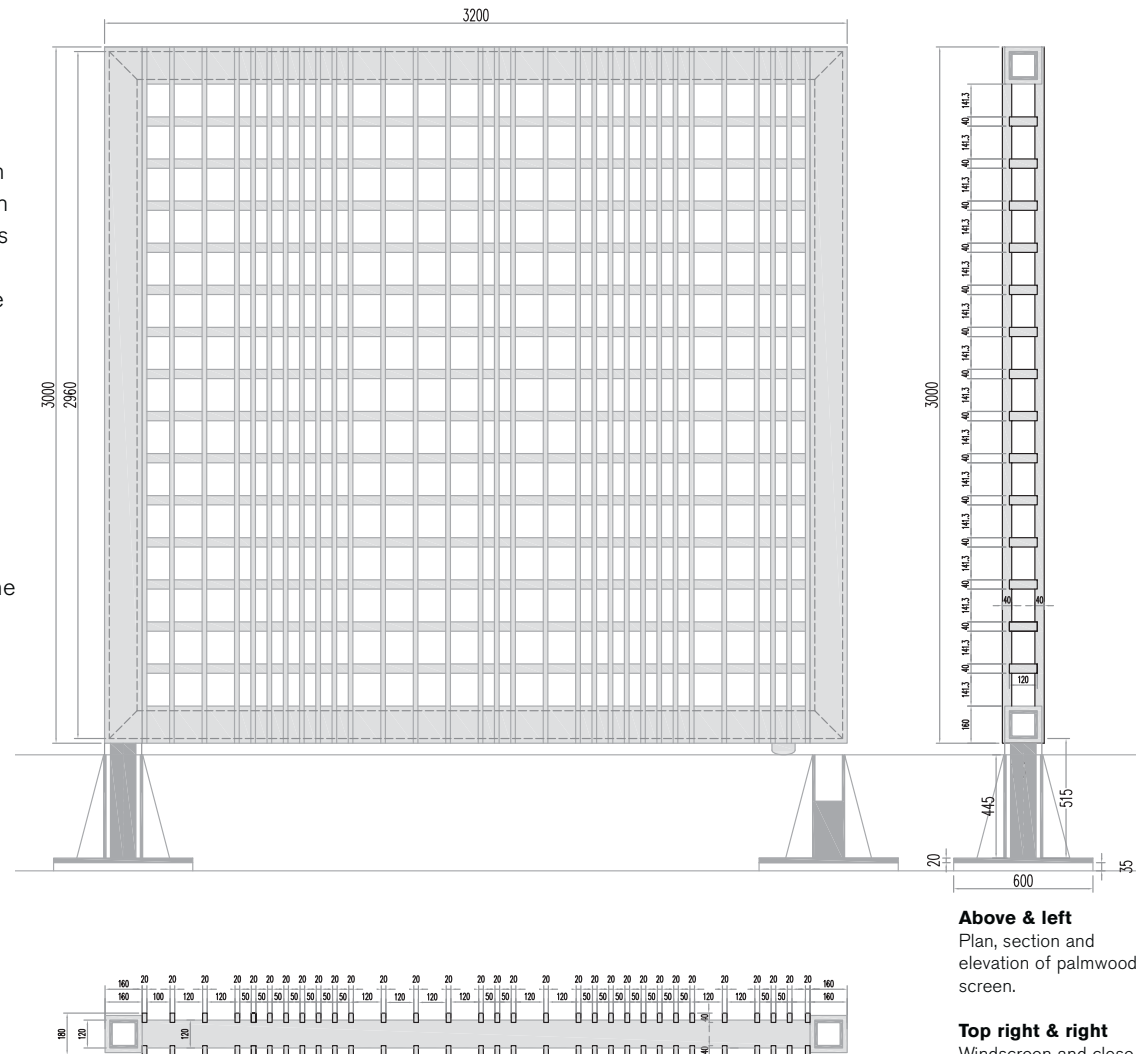
10.8 Pivoting wind screens, MIST, Masdar, Abu Dhabi

The pedestrian deck level of the Mist development has 3 x 3.2m, 50% open wind screens to temper the hot desert winds. These screens have a 120 x 120 x 10mm perimeter RHS frame, clad with 20mm Palmwood strips and filled in with a screen of 20 x 40mm palmwood strips with 50-120mm gaps. Palmwood is a durable modified timber with an average density of 820 kg/m³, using palm logs instead of hardwood.

The screens are pivoted from a metal support with a 600 x 20mm steel baseplate bolted to the slab and stabilised by 8 triangular 10mm steel fins. The leading edge of the screen is supported by a nylon wheel which rolls on a quarter circle metal strip set into the paving.

The screens can be secured in the open and closed positions by a simple tubular drop bolt which is set into the frame, and drops into a metal socket in the deck paving.

The contractor was [Pacific Green](#) from Fiji.



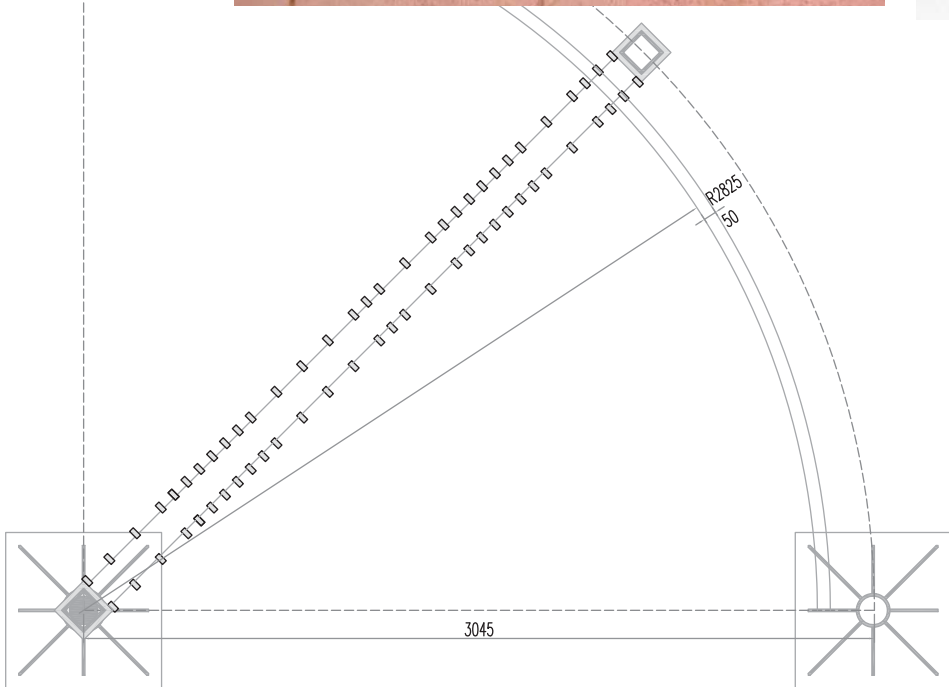
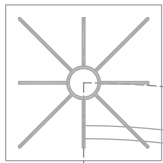
Above & left

Plan, section and elevation of palmwood screen.

Top right & right

Windscreen and close up of clad frame and slatted screen.

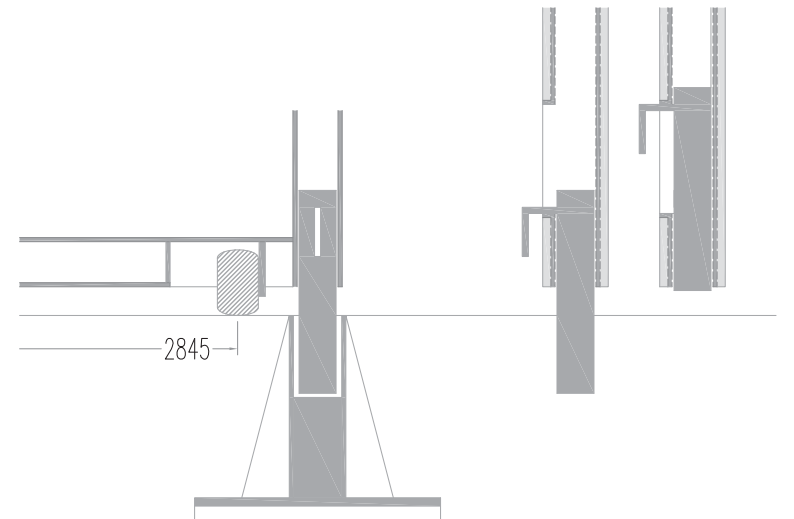




Left
Plan of opening screen with pivot support bottom left and bolt down position top and bottom right.

Above left & middle
Pivot support with baseplate and stabilising fins.

Right & top right
Details of drop bolt and support wheel.





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