///// WIND-DRIVEN RAIN (WDR) MODELLING



ABOUT WEB EARTH.

Web Earth are leading consultants in environmentally sustainable design, providing holistic solutions to create resilient and cost-saving buildings and infrastructures.

Established in 2011, Web Earth's environmental design team grew within acclaimed engineering firm Web Structures and we enjoy direct access to our parent company's world-class expertise. Our international diversity—in our team members' qualifications and the countries where we work—provides fertile ground for innovative solutions.

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Wind driven rain penetration study

AIR IN WATER OUT?

Many new developments are designed with increased porosity to promote natural ventilation. Although this is generally positive for energy savings, it can also increase the risk of wind-driven rain (WDR) penetration, affecting the usability of spaces during and immediately after rainstorm events.

Using our cutting-edge computational fluid dynamics (CFD) tools, Web Earth studies WDR patterns in order to reduce the severity of rain penetration into a development's functional spaces.

SIMULATING & PROTECTING.

Through our advanced simulation techniques, we are able to identify the wet areas during rain events of different severity, adjusted for local weather conditions.

Each mitigation strategy is tailor-made to individual projects to ensure that critical spaces remain dry based on user requirements.



Wind driven rain penetration study



Wind driven rain particles tracking



For more information, please contact Ms Jessie Tan, Director-Projects: jessietan@webstruc.net

Credit: Web Earth Mitigating measures for WDR

