

A Wind Suction Test Chamber

A Wind Suction Test Chamber is small scale structural testing system for structural performance assessments to modern building envelope. The testing system equipped with strong wind chamber with a load capacity of 15kPa with a loading rate at 2.5kPa per second. A real-time monitoring system is also integrated into this system for video recording throughout the test. This Wind Suction Test Chamber is suitable for both static and dynamic wind test to FM Global Standard 4471 and CSA.A123.21 respectively.



Wind Suction Test Chamber



Real time monitoring inside the chamber.



Typical metal roofing system.

Technical Specifications:

1. Pressure ranges: 0 to ± 15 kPa
2. Multiple wind load patterns: 4 sets of wind load patterns input or above
3. Loading period: $10s \pm 2s$
4. Shortest period for load increment: 2s
5. Deformation acquisition: 1 set data per second
6. Maximum Vertical deformation: 100mm
7. Testing area: 1 m^2
8. Video output format: CSV, AVI, etc.
9. Playback of video recording.
10. Max. dimensions: 1.3m x 1.3m x 1.5m