



Add value.  
Inspire trust.

## Curtain wall and skylight testing

Establish the design requirements and thermal efficiency of a building's curtain walls

### What is curtain wall and skylight testing?

A curtain wall is a building façade in which the outer walls are non-structural. Typically designed with extruded aluminium members and infilled with glass, they are widely used for its aesthetically architectural appeal and they allow natural light into the building. As a protection against weathering, there is a need to consider its design requirements such as: thermal expansion and contraction; building sway and movement; water diversion; and thermal efficiency for cost effective heating, cooling and lighting in the building.

### Our facilities

- Sunshade load test
- Operate window sashes
- Acoustic performance test
- 80 displacement transducers
- Dynamic water penetration test
- Seismic and vertical movement test
- Positive test chamber for AS/NZS4284

- Seal degradation / BMU restraint load test
- Fully computerised data acquisition equipment
- Curtain wall chamber – size 14m (L) x 10m (D) x 16m (H)
- Fully automatic test procedure for static and cyclic water penetration test
- Structural proof load test up to 10kPa positive and negative wind pressure maximum
- Fully automatic test procedure program for air infiltration positive and negative test
- Fully automatic test procedure for lateral movement test

### Our services

- Seismic test
- Thermal cyclic
- Acoustic performance test
- Perform air infiltration test
- Structural performance test
- Dynamic water penetration test
- Static & cyclic water penetration test

- Performance testing for Curtain Wall, Glass Walls, Cladding system, Windows and Doors, and Skylights

These tests are conducted to ensure that the systems are in compliance with international standards and methods like SIROWET, AS / NZS Australia and New Zealand Standard, AAMA American Standard, ASTM American Standard, British Standard, JIS Japanese Standard, SS Singapore Standard or any other standards or methods required by the authority.

## Test methods and specifications

### Curtain Wall

- AAMA 501.2
- ASTM E283, E330, E331, E547
- AS 4284
- BS 5368, 6375
- JIS A1515, A1516, A1517
- SS 381

### Window / Door

- SS 212 / 268
- ASTM E283, E330, E331, E547

## Portfolio of projects

### India

- New Delhi International Airport

### Indonesia

- AJB Bumi Putra Bandung
- Asia Tower
- Bank BNI Bandung
- Bapindo & Citraland Centre
- BDNI Semarang
- Capital Residence Building
- Empire Tower
- Menara Asiatic Project
- Menara Bank Mega
- Nerpatei Nusantara HQ
- PLN Pusat
- Segitiga Senen
- Setiabudi Residence
- Victoria & World Trade Centre

### Singapore

- Changi Airport Terminal 2
- Jewel Changi Airport
- Mount Alvernia Hospital
- Singapore Land Tower Regeneration
- BIOPOLIS 6
- Integrated Business Park Development (At Punggol Digital District)
- DSTA
- Singapore Institute of Technology (SIT Plot 2)

### Taiwan

- Far East Manhattan HQ
- International Harbour Enterprise
- Kaohsiung MRT
- Long Tian Building
- National Tai-Chung Institute of Technology

### Thailand

- Asoke, Bangua & King Power Complex
- Empire and Emporia Place
- Permata & Rachada Plaza
- Q-House
- RASA Tower 1 & 2
- Sinsathorn Tower
- Suvarnabhumi Airport

### Vietnam

- Saigon Apartment (HCMC)
- SCB Tower (HCMC)

## Your business benefits

- **Faster export** – Gain access to export markets and shorten your time-to-market by meeting regulatory requirements and international standards.
- **Minimise risks** – Conducting independent testing minimises violating regulatory risks and potential legal liabilities.
- **Improve product quality and safety** – Third party independent verification increases product quality and safety, thereby boosting customer confidence in your products.
- **Maintain brand image** – Protect your company from being embroiled in costly and image damaging product recalls.



### Why choose TÜV SÜD?

TÜV SÜD has more than 150 years of experience in testing and product certification services. TÜV SÜD's laboratories are accredited and our reports / certificates are widely accepted around the world.

### Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification and auditing services. Through 25,000 employees across 1,000 locations, the company adds tangible value to customers and partners by enabling market access and managing risks. By anticipating technological developments and facilitating change, TÜV SÜD inspires trust in the physical and digital world to create a safer and more sustainable future.

### Our ASEAN offices

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