

Core Competencies

beTcs Asia-Pacific helps those project stakeholders responsible for delivering and accepting the facade package by applying technical knowledge and providing our own calibrated technical resources to verify performance testing, including:

- Advise on proposed test schedule and PML configuration
- t witnessing & supervision
- rutineering of overseas facility edentials & scope
- Review & confirm facility equipmen nstrumentation for operability, rang calibration and accuracy
- Ensure test procedures, paratmeters and PMU configuration are as agreed to by all
- Effective oversight for correct application of test procedures and parameters
- Independent analysis of results, verifying compliance with performance requirements
- Comprehensive documentation and issue o a NATA endorsed report

Accreditation

beTcs Asia-Pacific is an Inspection Body accredited by the National Association of Testing Authorities (NATA), Australia.





 Accredited to inspect the testing of cladding systems, curtain walling, door, window & skylight assemblies, facade assemblies, and sloped glazing systems under the relevant AS, AS/NZS, SIROWET, AAMA, ASTM, BS EN, CWCT, and NCC BCA standards and codes.



NATA is an Australian government-endorsed peak accreditor of inspection bodies, and a leader in accreditation internationally. NATA is a signatory to the international mutual recognition arrangements of the International Laboratory Accreditation Cooperation (ILAC) and the Asia Pacific Accreditation Cooperation (APAC) for inspection.

Supported Clients









BRICKWORKS

AMP Building, Circular Quay



MULTIPLEX















JOHN













Facade, window & sliding door test witnessing & supervision

Witness and supervise facade testing to the following standards for: curtain wall prototypes to - AS/NZS 4284 (SIROWET); ASTM E283, E330, E331 & E547; BS EN 12152, 12153, 12154, 12155, 12179, 12600, 13116 & 14019; AAMA 501.1, 501.4 & 501.5; CWCT TN75 & TN76; and, windows and sliding doors to - AS/NZS 4420.1 for AS 2047; and, BS EN 1026, 1027, 12207, 12210, 12211 and 13049.

Field inspection of installed facade and fenestration systems

AAMA 501.2 is the widely accepted method for quality assurance and water penetration check for installed curtain walls and sloped glazing systems.

AAMA 503 and BS EN 13051 are more exacting means for on-site assessment.

Building envelope compliance guidance

In 2015 the Building Code of Australia (BCA) introduced **Verification Methods FV1 (Vol. 1)** and V2.2.1 (Vol. 2) to evaluate the weatherproofing performance of direct-fix cladding, cavity and unique wall systems. The methods provide a means to verify compliance with the relevant NCC BCA **Performance Requirements of** FP1.4 and P2.2.2 for water penetration in an external wall.

Museum of Contemporary Art, Sydney Fiona Stanley Hospital, Perth Brisbane Airport Domestic Terminal Star

Casino, Sydney Westfield Tower, Sydney ALDI Head Office, Minchinbury City Square project, Perth Central Plaza 3 Tower, Brisbane National Portrait Gallery, Old Parliament House, Canberra – for 3M

Practised Standards & Codes

AS/NZS 4284 Testing of building facades
SIROWET Testing of building facades
AS 2047 Windows and external glazed doors in buildings
AS/NZS 4420.1 Windows, external glazed, timber and composite doors - Methods of
test Test sequence, sampling and test methods
BS EN 14019 Curtain Walling. Impact resistance. Performance requirements.
BS EN 13049 Windows. Soft and heavy body impact. Test method, safety requirements

BS EN 12600 Glass in building. Pendulum test. Impact test method and classifica-tion

for flat glass CWCT TN75 Impact performance of building envelopes: guidance on specification CWCT TN76 Impact performance of building envelopes: method for impact testing of

cladding panels BS EN 12152 Curtain walling. Air permeability. Performance requirements and

BS EN 12153 Curtain walling. Air permeability. Test method BS EN 12154 Curtain walling. Watertightness. Performance requirements and

BSEN 12153 Curtain walling. Watertightness. Performance requirements and classification
BSEN 12155 Curtain walling. Watertightness. Laboratory test under static pressure BSEN 12179 Curtain walling. Resistance to wind load. Test method
BSEN 13116 Curtain walling. Resistance to wind load. Performance requirements BSEN 12179 Curtain walling. Resistance to wind load. Performance requirements BSEN 12210 Windows and doors. Resistance to wind load. Classification
BSEN 12211 Windows and doors. Resistance to wind load. Test method
BSEN 13051 Curtain walling. Watertightness. Site test
BSEN 12207 Windows and doors. Air permeability. Classification
BSEN 1026 Windows and doors. Air permeability. Classification
BSEN 1026 Windows and doors. Watertightness. Classification
BSEN 1027 Windows and doors. Watertightness. Test method
BSEN 1027 Windows and doors. Watertightness. Test method
BSEN 1026 Windows and doors. Watertightness. Test method
BSEN 1027 Windows. Curtain Walls, and Sloped Glazing Systems
AAMA 501.2 Test Method for Thermal Cycling of Exterior Walls
AAMA 503.4 Recommended Static Test Method for Exterior Walls
AAMA 503.5 Test Method for Thermal Cycling of Exterior Walls
AAMA 503.5 Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems
ASTM E283 Standard Test Method for Structural Performance of Exterior Windows.
Curtain Walls and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E331 Standard Test Method for Structural Performance of Exterior Windows.
Skylights and Curtain Walls by Uniform Static Air

<u>Experience</u>

AMP Building, Circular Quay Newington College Eungai Creek Campus One Circular Quay, Hotel (Tower B), Sydney

One Circular Quay, Hotel (Tower B), Sydney
Atlassian Central
One Circular Quay, Residential (Tower A), Sydney
Wee Waa High School, Wee Waa
AURA, 168 Walker Street, North Sydney
Metro Martin Place South Tower, Sydney

PHIVE, Parramatta Square Parramatta Square Civic Redevelopment

University of Western Sydney, Bankstown City Campus Queen's Wharf Towers 2 & 3, Brisbane

Queen's Whart Towers 2 & 3, Brisbane
Metro Martin Place North Tower, Sydney
308 Exhibition Street, Melbourne
Queen's Wharf Tower 1, Brisbane
West Side Place 2 podium, Melbourne
Jewel, Gold Coast
Melbourne Square
Arthur Phillip High School (Tower), Parramatta
447 Collins Street, Melbourne
UTS Central, University of Technology Sydney
60 Martin Place, Sydney

80 Collins Street, Melbourne Crown Sydney Hotel & Reson

CSR Inclose – system Australian National University, New Hall of Residence, Canberra

CSR Inclose — system
Australian National University, New Hall of Residence, Canberra
Australian National University, New Hall of Residence, Canberra
International Convention Centre, Darling Harbour, Sydney
AFP Forensic Facility, Canberra
888 Collins Street, Melbourne
Crown Towers, Perth
727 Collins Street, Melbourne
CSR Cemintel - system
CSR Hebel - system
CSR Hebel - system
CSR Hebel - system
CSR Hebel - system
Abercrombie Precingt, University of Sydney
One William Street, Brisbane
Brookfield Place Tower 2, Perth
New Children's Hospital, Perth
720 Bourke Street, Melbourne
New Royal Adelaide Hospital
Barangaroo — Towers C4 & C5, Sydney
Chris O'Brien Lifehduse — Royal Prince Alfred Hospital, Sydney
Chris O'Brien Lifehduse — Royal Prince Alfred Hospital, Sydney
Chris O'Brien Lifehduse — Royal Prince Alfred Hospital, Sydney
Chris O'Brien Lifehduse — Royal Prince Alfred Hospital, Sydney
Chris Residences, Chatswood
Queensland Children's Hospital, Brisbane
The Residence Hyde Park, Sydney
Fusionopolos, Singapore



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NATA Accreditation No.: 20528 Compliant to ISO/IEC 17020 Type A Inspection Body