be The CS BUILDING ENVELOPE TEST CONSULTING SOLUTIONS

CAPABILITY STATEMENT

<u>Overview</u>

Building Envelope Test Consulting Solutions (beTcs) Asia-Pacific offers highly specialised, independent and accredited inspection services for the witnessing and supervision of performance testing on curtain wall and facade systems by overseas facilities, delivering assurance verification of a project's facade specification.

This expertise assures confidence in the acceptance process for project stakeholders, relieving them of unrealised risks in the unfamiliar field of performance testing.



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 PMU configuration
- Test witnessing & supervision
- Scrutineering of overseas facility's credentials & scope
- Review & confirm facility equipment and instrumentation for operability, range, calibration and accuracy
- Ensure test procedures, paratmeters and PMU configuration are as agreed to by all parties
- Effective oversight for correct application of test procedures and parameters
- Independent analysis of results, verifying compliance with performance requirements

Comprehensive documentation and issue of a NATA endorsed report

Metro Martin Place South Tower, Sydr

Supported Clients

Accreditation



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

ACCREDITED INSPECTION BODY
NATIONAL ASSOCIATION OF TESTING AUTHORITIES, AUSTRALIA has accredited:
beTcs Asia-Pacific Pty Ltd
beTcs Asia-Pacific Pty Ltd
Following demonstration of its technical competence to operate in accordance with:
ISO/IEC 17020 as a Type A Inspection Body
This facility is accredited for the inspection activities shown on the Scope of Accreditation issued by NATA
Junit Hous Jacobie Park
Chief Executive Officer, NATA
Date of issue: 24 October 2023 Date of Accreditation: 29 May 2019 Accreditation number: 20528 Ste number: 24590
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 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.



Services

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.

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One Circular Quay, Hotel (Tower B), Sydney

Wee Waa High School, Wee Waa AURA, 168 Walker Street, North Sydney Metro Martin Place South Tower, Sydney PHIVE, Parramatta Square

Queen's Wharf Tower 1, Brisbane West Side Place 2 podium, Melbourne

60 Martin Place, Sydney 80 Collins Street, Melbourne Crown Sydney Hotel & Resort

West Side Place 2 portuni, Menbourne Jewel, Gold Coast Melbourne Square Arthur Phillip High School (Tower), Parramatta 447 Collins Street, Melbourne UTS Central, University of Technology Sydney 50 Martin Blace Sydney

Atlassian Central One Circular Quay, Residential (Tower A), Sydney

Parramatta Square Parramatta Square Civic Redevelopment University of Western Sydney, Bankstown City Campus Queen's Wharf Towers 2 & 3, Brisbane Metro Martin Place North Tower, Sydney 308 Exhibition Street, Melbourne

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

Experience

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.

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 and classification
- 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 sificatior
- BS EN 12153 Curtain walling. Air permeability. Test method BS EN 12154 Curtain walling. Watertightness. Performance requirements and
- BS EN 12153 Curtain walling. Air permeability. Test method BS EN 12154 Curtain walling. Watertightness. Performance requirements and classification BS EN 12155 Curtain walling. Resistance to wind load. Test method BS EN 13116 Curtain walling. Resistance to wind load. Test method BS EN 13116 Curtain walling. Resistance to wind load. Classification BS EN 12210 Windows and doors. Resistance to wind load. Classification BS EN 12210 Windows and doors. Resistance to wind load. Classification BS EN 12210 Windows and doors. Resistance to wind load. Classification BS EN 12207 Windows and doors. Resistance to wind load. Classification BS EN 12207 Windows and doors. Air permeability. Classification BS EN 1026 Windows and doors. Watertightness. Classification BS EN 1026 Windows and doors. Watertightness. Test method AAMA 501.1 Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure AAMA 501.2 Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Clazing Systems AAMA 501.4 Recommended Static Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Inter-storey Drift AAMA 501.5 Test Method for Theirmal Cycling of Exterior Walls. AAMA 501.5 Test Method for Theirmal Cycling of Exterior Walls. AAMA 501.5 Test Method for Theirmal Cycling of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems ASTM E233 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference ASTM E331 Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference ASTM E330 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curta

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

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Brisbane Airport Domestic Terminal 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

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