

Schedule

Issue date: 22 November 2023
Valid until: 29 October 2024



NO: SAMM 899

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of SAMM 899 dated 3 May 2022)

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LABORATORY LOCATION: (PERMANENT LABORATORY)



WINWALL FACADE TESTING SDN. BHD.
LOT 6, JALAN CJ 1/7, CHERAS JAYA
43200 BALAKONG, SELANGOR
MALAYSIA

FIELD OF TESTING: MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Curtain Walls, Building Façade	Air Infiltration	AS/NZS 4284: 2008 (Clause 8.4) ASTM E283: 2019 (Clause 11) CNS 13971: 2006 (Clause 9.1) SS 381: 1996 (2007) (Clause 5.3)
	Static Water Penetration Test	AS/NZS 4284: 2008 (Clause 8.5) ASTM E331: 2016 (Clause 10) CNS 13974: 2006 (Clause 9.1) SS 381: 1996 (2007) (Clause 5.4)
	Cyclic Water Penetration Test	AS/NZS 4284: 2008 (Clause 8.6) ASTM E547: 2016 (Clause 11.0)
	Dynamic Water Penetration Test	AAMA 501.1-2017 (Clause 6.0) CNS 13973: 2018 (Clause 5.0)
	Structural Performance Test	AS/NZS 4284: 2008 (Clause 8.3) ASTM E330/E330M-14 (Clause 5.0) CNS 13972: 2006 (Clause 4.2) SS 381: 1996 (2007) (Clause 5.5)
	Proof Load Test	AS/NZS 4284: 2008 (Clause 8.8) ASTM E330/E330M-14 (Clause 5.3) CNS 13972: 2006 (Clause 4.3) SS 381: 1996 (2007) (Clause 5.7)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Curtain Walls, Building Façade (continued)	BMU Restraint Test	AS/NZS 4284: 2008 (Clause 8.7)
	Seal Degradation Test	AS/NZS 4284: 2008 (Clause 8.10)
	Seismic and Wind Induced Inter Storey Drift Test	AAMA 501.4-2018 (Clause 7.0) CNS 14281: 2006 (Clause 7.0) AS/NZS 4284: 2008 (Clause 8.9)
Windows	Air Infiltration	ASTM E283: 2019 (Clause 11) AS/NZS 4420.1:2016 (Clause 5) BS EN 1026: 2016 CNS 13971: 2006 (Clause 9.1) MS 832: 2022 (Clause 10.2.1.1) SS 212: 2007 (Clause 10.2.1.1)
	Water Tightness Test	ASTM E331: 2016 (Clause 10) AS/NZS 4420.1:2016 (Clause 6) BS EN 1027: 2016 CNS 13974: 2006 (Clause 9.1) MS 832: 2022 (Clause 10.2.1.2) SS 212: 2007 (Clause 10.2.1.2)
	Structural Performance Test (Wind Resistance Test)	ASTM E330/E330M-14 (Clause 5) AS/NZS 4420.1:2016 (Clause 3) BS EN 12211: 2016 CNS 13972: 2006 (Clause 4.2) MS 832: 2022 (Clause 10.2.1.3) SS 212: 2007 (Clause 10.2.1.3) ISO 6612-1980
	Proof Load Test	ASTM E330/E330M-14 (Clause 5.3) AS/NZS 4420.1:2016 (Clause 7) CNS 13972: 2006 (Clause 4.3) ISO 6612:1980 MS 832: 2022 (Clause 10.2.1.4) SS 212: 2007 (Clause 10.2.1.6)
	Operating Force Test	AS/NZS 4420.1:2016 (Clause 4) MS 832: 2022 (Clause 10.2.2)
	Dynamic Water Penetration Test	AAMA 501.1-2017 (Clause 6.0) CNS 13973: 2006 (Clause 5.0)
	Cyclic Water Penetration Test	AS/NZS 4284-6: 2008 (Clause 8.10) ASTM E547: 2016 (Clause 11.0)
	Seal Degradation Test	AS/NZS 4284: 2008 (Clause 8.10)
	*Operations & Strength Test	MS 832: 2022 Clause 10.2.2 (Annex F)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Doors	Air Infiltration	ASTM E283: 2019 (Clause 11) AS/NZS 4420.1:2016 (Clause 5) BS EN 1026: 2016 CNS 13971: 2006 (Clause 9.1) MS 1017: 2022 (Clause 10.2.1.1) SS 268: 2014 (Clause 10.2.1.2)
	Water Tightness Test	ASTM E331: 2016 (Clause 10) AS/NZS 4420.1:2016 (Clause 6) BS EN 1027: 2016 CNS 13974: 2006 (Clause 9.1) MS 1017: 2022 (Clause 10.2.1.2) SS 268: 2014 (Clause 10.2.1.3)
	Structural Performance Test (Wind Resistance Test)	ASTM E330/E330M-14 (Clause 5) AS/NZS 4420.1:2016 (Clause 3) CNS 13972: 2006 (Clause 4.2) ISO 6612-1980 MS 1017: 2022 (Clause 10.2.1.3) SS 268: 2014 (Clause 10.2.1.1) BS EN 12211:2016
	Proof Load Test (Wind Resistance Test)	ASTM E330/E330M-14 (Clause 5.3) AS/NZS 4420.1:2016 (Clause 7) CNS 13972: 2006 (Clause 4.3) ISO 6612-1980 MS 1017: 2022 (Clause 10.2.1.4) SS 268: 2014 (Clause 10.2.1.4)
	Operating Force Test	AS/NZS 4420.1:2016 (Clause 4) MS 1017: 2022 (Clause 10.2.2)
	Dynamic Water Penetration Test	AAMA 501.1:2017 (Clause 6.0) CNS 13973: 2006 (Clause 5.0)
	Cyclic Water Penetration Test	AS/NZS 4284: 2008 (Clause 8.6) ASTM E547: 2016 (Clause 11.0)
	Seal Degradation Test	AS/NZS 4284: 2008 (Clause 8.10)
	*Operations & Strength Test	MS 1017: 2022 Clause 10.2.2 (Annex F)

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Signatories:

1. Chin Yun Fen (Non-Resident Signatory) except for *
2. Goh Aik Wee (Non-Resident Signatory)
3. Ir. Lim Yong Chung

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Aluminium Alloy Windows – Hung and Pivoted Types	Operations and Strength Test Test 1: Operation of location device Test 2: Movement of casement Test 4: Strength of restricted opening devices, location device and maximum opening stops. Test 5: Resistance to accidental loading.	MS 832: 2022 (Clause 10.2.2) Annex F.2. Annex F.3. Annex F.5. Annex F.6.
Aluminium Framed Sliding Glass Door	Operations & Strength Test Test 1: Ease of sliding Test 2: Resistance to excessive operation force Test 3: Resistance to accidental loading	MS 1017: 2022 (Clause 10.2.2) Annex F.2. Annex F.3. Annex F.4.

Signatories:

1. **Goh Aik Wee (Non-Resident Signatory)**
2. **Ir. Lim Yong Chung**