

Laboratory Winwall Technology India Private Limited, 567-A, S.R. Kandigai Road, Gummidipoondi, Dist. Thiruvallur, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7687 (in lieu of T-4125)

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Validity 22.09.2018 to 21.09.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

AT LABORATORY				
I.	BUILDING MATERIAL			
1.	Building Facades Curtain walls and Windows	Air infiltration test	AS/NZS 4284 Clause 8.4 ASTM E283, BSEN 1026 BSEN 12207 (Test Chamber size up to 15 m X 15 m)	Air volume flow rate 0.1 m ³ /hr to 400 m ³ /hr
		Static water penetration test	AS/NZS 4284 Clause 8.5 ASTM E331, BSEN 1027, BSEN 12208 (Test Chamber size up to 15 m X 15 m Test pressure range: 10 Pa to 5000 Pa)	Qualitative (Visual)
		Dynamic water penetration test	AAMA 501.1 (Test Chamber size up to 15 m X 15 m Test pressure range: 10 Pa to 1000 Pa)	Qualitative (Visual)
		Water penetration test by cyclic pressure	AS/NZS 4284 Clause 8.6 ASTM E547 (Test Chamber size up to 15 m X 15 m Test pressure range: 10 Pa to 5000 Pa)	Qualitative (Visual)

Ramprasath R
Convenor

Jitendra B. Vispute
Program Manager

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Structural performance test	AS/NZS 4284 Clause 8.3 ASTM E330 BSEN 12211 BSEN 12210 (Test Chamber size upto 15 m X 15 m Test pressure range: ± 0.1 kPa to ±10 kPa)	Deflection range: 0.1 mm to 100 mm
		Seismic racking test	AS/NZS 4284 Clause 8.9 AAMA 501.4 (Test Chamber size up to 15 m X 15 m)	Qualitative (Visual)
		Structural proof load test	AS/NZS 4284 Clause 8.8 ASTM E330 BSEN 12211 (Test Chamber size upto 15 m X 15 m Test pressure range: ± 0.5 kPa to ±10 kPa)	Qualitative (Visual)
		Seal degradation test	AS/NZS 4284 Clause 8.10 (Test Chamber size up to 15 m X 15 m Test pressure range: 10 Pa to 5000 Pa)	Qualitative (Visual)
		BMU restraint test	AS/NZS 4284 Clause 8.7 (10N to 5000N)	Qualitative (Visual)
		Thermal cyclic test	AAMA 501.5 (Test Chamber size up to 15 m X 15 m Temperature range: -18 °C to 82 °C)	Qualitative (Visual)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Metal/ Glass Railing System	Static infill load test	ASTM E935 Clause 10.4 ASTM E985 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm
		Uniform load test	ASTM E935 ASTM E985 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm
		Concentrated load test	ASTM E935 ASTM E985 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm
		Shot bag traction test	ASTM E2353 ASTM E2358 (203 J to 542 J)	Qualitative (Visual)
		Pendulum impact test	ASTM E2353 ASTM E2358 (10 J to 100 J)	Qualitative (Visual)

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MECHANICAL TESTING

AT SITE				
I.	BUILDING MATERIAL			
1.	Building Facades Curtain walls Windows	Air infiltration test	ASTM E783 (Test Chamber size up to 5 m X 5 m)	Air volume flow rate: 0.1 m ³ /hr to 400 m ³ /hr
		Static water penetration test	ASTM E1105 AAMA 501.2 (Test Chamber size up to 5 m X 5 m) Test pressure range: 10 Pa to 5000 Pa (205 KPa [30Psi] to 240 KPa [35Psi])	Qualitative (Visual)
2.	Metal/Glass Railing System	Static infill load test	ASTM E935 Clause 10.4 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm
		Uniform load test	ASTM E935 Clause 10.5 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm
		Concentrated load test	ASTM E935 Clause 10.6 ASTM E2358 (10 N to 5000 N)	Deflection range: 0.1 mm to 100 mm