

Schedule

Issue date: 1 February 2019
Valid until: 12 January 2022



MS ISO/IEC 17025

NO: SAMM 755

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LABORATORY LOCATION:
(PERMANENT LABORATORY)



TUV SUD (M) SDN. BHD.
NO. 18, JALAN ASTAKA U8/82,
BUKIT JELUTONG,
40150 SHAH ALAM,
SELANGOR, MALAYSIA

FIELD OF TESTING: MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

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
Electrical and Electronic Equipment and Automotive Parts/Materials/component	Low Temperature Tests (down to -60°C)	IEC 60068-2-1: Ed 6.0 (2007) : Test A ISO 16750-4: 2010 Clause 5.1.1
	High Temperature Tests (up to +200°C)	IEC 60068-2-2: Ed 5.0 (2007) : Test B ISO 16750-4: 2010 Clause 5.1.2
	Rapid Change of Temperature with prescribe time (-60°C to 200°C)	IEC 60068-2-14: Ed 6.0 (2009) Test Na ISO 16750-4: 2010 Clause 5.3.2
	Change of Temperature with specific rate (-60°C to 150°C)	IEC 60068-2-14: Ed 6.0 (2009) Test Nb ISO 16750-4: 2010 Clause 5.3.1
	Damp Heat, Cyclic Test (25 to 55 °C) (95% RH)	IEC 60068-2-30: Ed 3.0 (2005) Test Db ISO 16750-4: 2010 Clause 5.6
	Damp Heat, Steady State Test (30 to 40°C) (95% RH)	IEC 60068-2-78: Ed 2.0 (2012) Test Cab ISO 16750-4: 2010 Clause 5.7
	Vibration (Sinusoidal) (5Hz To 2000Hz)	IEC 60068-2-6: Ed 7.0 (2007) Test Fc ISO 16750-3: 2007

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Electrical and Electronic Equipment and Automotive Parts/Materials/component (continued)	Accelerated Exposure of automotive exterior parts	SAE J 1960: 2004 SAE J 2527: 2017
	Accelerated Exposure of automotive interior parts	SAE J 1885: 1992 SAE J 2412: 2015 GMW 3414: 2014
	Salt Spray Test	ASTM B117: 2016

Signatories:

1. Ahmad Yusri Abd Wahab
2. Choy Kin Man (Non-Resident)
3. Ahmad Aizat Baharudin

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Partition	Stiffness	BS 5234: Part 2: 1992 Annex A SS 492: 2001 Annex A
	Small hard body impact Surface damage Perforation	BS 5234: Part 2: 1992 Annex B and D SS 492: 2001 Annex B and D
	Large soft body impact Damage Structural damage	BS 5234: Part 2: 1992 Annex C and E SS 492: 2001 Annex C and E
	Door slam	BS 5234: Part 2: 1992 Annex F SS 492: 2001 Annex F
	Crowd pressure	BS 5234: Part 2: 1992 Annex G SS 492: 2001 Annex G
	Lightweight anchorage Pull out Pull-down	BS 5234: Part 2: 1992 Annex H and J SS 492: 2001 Annex H and J
	Heavy anchorage Wash basin Wall cupboard	BS 5234: Part 2: 1992 Annex K and L SS 492: 2001 Annex K and L

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Glass	Pendulum impact test	MS 1498: 2017 Clause 6.5
	Pendulum impact test	BS EN 12600: 2002
	Fragmentation Test	MS 1498: 2017 Clause 6.10
	Surface Compression Test	MS 1498: 2017 Clause 6.12
	Boil Test	MS 1498: 2017 Clause 6.6
	Drop Ball test	MS 1498: 2017 Clause 6.11
Plastics piping ^{*9, 10}	Thermal cycling	ISO 19893: 2011
	Thermal cycling	BS EN 12293: 2000 BS 2782-11: Method 1123T: 2000
Plastics piping ^{*1, 2, 3, 4, 5, 6, 7, 8}	Internal Pressure Test (hydrostatic pressure test)	ISO 1167-1: 2006 BS EN ISO 1167-1: 2006 EN ISO 1167-1: 2006
		ISO 1167-2: 2006 BS EN ISO 1167-2: 2006 EN ISO 1167-2: 2006
		ISO 1167-3: 2006 BS EN ISO 1167-3: 2006 EN ISO 1167-3: 2006
		EN 921: 1994 BS EN 921: 1995
	Longitudinal Reversion	ISO 2505: 2005 BS EN ISO 2505 EN ISO 2505-3:2005
Door Closer	Mechanical performance and durability	BS EN 1154: 1997 Clause 7.3
Door Hinge	Static load test	BS EN 1935: 2002 Clause 7.3
	Durability test	BS EN 1935: 2002 Clause 7.5
Building materials and structures	Non-combustibility	BS 476: Part 4: 1970 BS 476: Part 11: 1982 BS EN ISO 1182: 2010
Ventilation Fan	Fire Resistance	BS EN 12101-3: 2015 Annex C Clause C4.2, 4.3 and 4.4
Installed storefronts, curtain walls and slope glazing systems	Water leakage field test	AAMA 501.2-09

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Thermal insulation product ^{*11}	Thermal conductivity	MS ISO 8302: 2003 ISO 8302: 1991
	Length and width	MS 2325: 2010 EN 822: 1994
	Thickness	MS 2339: 2010 EN 823: 1994 Annex B1 and B3
	Flatness	MS 2340: 2010 EN 825: 1994
	Squareness	MS 2342: 2010 EN 824: 1994
Radiant barrier and reflective insulation ^{*12}	Resistance to dry delamination	AS/NZS 4201.1: 1994
	Resistance to wet delamination	AS/NZS 4201.2: 1994
	Shrinkage	AS/NZS 4201.3: 1994
	Folding endurance	AS/NZS 1301.423: 1997
Aluminium alloy windows	Weathertightness <ul style="list-style-type: none"> - Structural performance - Air leakage - Watertightness - Proof load 	MS 832: 2011 clause 10.2.1 <ul style="list-style-type: none"> - Annex B - Annex C - Annex D - Annex E
	Operation and strength	Clause 10.2.2 Annex F
Aluminium framed sliding glass doors	Weathertightness <ul style="list-style-type: none"> - Structural performance - Air leakage - Watertightness - Proof load 	MS 1017: 2012 clause 10.2.1 <ul style="list-style-type: none"> - Annex B - Annex C - Annex D - Annex E
	Operation and strength	Clause 10.2.2 Annex F
Plastics	Melt mass flow rate (MFR)	ISO 1133-1: 2011
	Temperature of deflection under load	ISO 75-1: 2013 ISO 75-2: 2013 ISO 75-3: 2004 ASTM D648-18
Plastics Pipes	Pendulum impact strength	ISO 9854-1: 1994 ISO 9854-2: 1994

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SCOPE OF TESTING: MECHANICAL**SITE: CATEGORY I**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Installed storefronts, curtain walls and slope glazing systems	Water leakage field test	AAMA 501.2-09

Signatories:**1. Terry Lee Wen Siang**

1. *1 – Based on ISO 15874-2:2013: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 2: Pipes
2. *2 – Based on ISO 15874-3:2013: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 3: Fittings
3. *3 – Based on MS 2286-2:2012: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 2: Pipes
4. *4 – Based on MS 2286-3:2012: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 3 : Fittings
5. *5 – Based on MS 628-2:2014: Plastics piping systems for water supply and for buried and above ground drainage and sewerage under pressure - Unplasticized poly(vinyl chloride) - (PVC-U) Part 2: Pipes
6. *6 - Based on MS 628-3: 2014: Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 3: Fittings
7. *7 - Based on MS 1058-2:2005: Polyethylene (PE) piping systems for water supply - Part 2: Pipes
8. *8 – Based on MS 1058-3:2006: Polyethylene (PE) piping systems for water supply - Part 2: Fittings
9. *9 – Based on ISO 15874-5:2013: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 5: Fitness for purpose of the system
10. *10 – Based on MS 2286-5:2012: Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 5: Fitness for purpose of the system
11. *11 – Based on MS 1020: 2010: Thermal insulation products for buildings - factory made mineral wool (mw) products - specification
12. *12 – Based on MS 2095: 2014: Radiant barrier and reflective insulation building materials - Specification