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LABORATORY LOCATION/ CENTRAL OFFICE:	Mechanical and Physical Testing Laboratory (MPTL), FRIM Forest Research Institute Malaysia (FRIM) 52109 Kepong, Selangor , 52109, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF TESTING:	MECHANICAL & PHYSICAL MECHANICAL AND PHYSICAL

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).

CENTRAL LOCATION:	Mechanical and Physical Testing Laboratory (MPTL), FRIM Forest Research Institute Malaysia (FRIM) 52109 Kepong, Selangor , 52109, Selangor
FIELD(S) OF TESTING :	MECHANICAL, MECHANICAL

SCOPE OF TESTING : MECHANICAL & PHYSICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
1. Plant & Herbal Finished Products	supplements	38:2015
2	Strength, Durability and Stability	BS EN 1730:2012
	Strength, Durability and Stability	BS EN 1730:2012
	Strength, Durability and Stability	BS EN 581-3:2017
	Strength and Durability Strength, Durability and Stability	BS EN 1728:2012 BS EN 1730:2012
	Current: 0.005A to 100A	None
	None	IEC 62053-23:2003
2. Herbal Medicinal Products	Disintegration test for tablets and	British Pharmacopoeia 2019:
3	Strength, Durability and Stability	BS EN 16122:2012
3. Lift Landing Door	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
3. Work Chairs	Safety requirements	BS EN 1335-2:2018 BS EN 1728:2012 BS EN 1022:2018
4. Beds	Safety requirements	BS EN 1725:1998
4. Ranked Seating	Safety, strength & durability	BS EN 12727:2016 BS EN 1728:2012
4. Screens	Mechanical safety requirements	BS EN 1023-2:2000 BS EN 1023-3:2000
5. Bunk Beds & High Beds	Safety, strength & durability requirements	BS EN 747-1:2012+A1:2015 BS EN 747-2:2012+A1:2015
B. Non-domestic	B. Non-Domestic	B. Non-Domestic
C. Office Furniture	C. Office Furniture	C. Office Furniture
Doorsets	Fire Resistance Test	MS 1073:Part 2:1996
	None	None
	Fire resistance test	BS 476-20:1987
	Fire resistance test	ISO 834-1: 1999
	Fire resistance test	BS 476-20:1987
	Fire resistance test	ISO 834-1: 1999
E. Educational Furniture	E. Educational Furniture	E. Educational Furniture
Furniture Materials	Surface resistance to scratching	BS EN 15186:2012, Clause 5
General -" Purpose	Safety, durability, structural	ANSI/BIFMA X5.1 -2017
Glued Laminated (glulam)	Bonding Quality -" Immersion	JAS Notification No. 1152 (2007) -"
High Pressure Decorative	Resistance to scratching	BS EN 438-2:2016 +A1: 2018,
Laminated Profiles For Wood	Bonding Quality -" Splitting Test	Institut fiir Fenstertechnik (ift)
Laminates (hpl)	None	Clause 25
Laminboard	bonding quality (shear strength	None
Non-load Bearing	Fire Resistance Test	BS 476:Part 20:1987
Office Chairs -" Tests	performance	None
On The Wood, Wood Based	None	Clauses 6 & 7)
Paints And Varnished Coating	Scratch test	BS EN ISO 1518-1:2019 (Excluding
Panels.	None	None
Paper	Tearing Resistance	MS ISO 1974:2018
	Cadmium	In-house method TPCD-AA/CIM-001
	G6PD Screening	reagent added followed by 15 minute incubation.
Paper And Board	Thickness	MS ISO 534:2018
	Determination of Grammage	JKM 02/3-5 ISO 536:2015 E
Plant And Herbal Products	Weight variation of dietary	U.S Pharmacopoeia
Plywood, Block-board &	Method for determination of	BS EN 314-1:2004
Sliding Doorsets	Test for Side-Hung Doors only	(Including amendment 1:2003)
	Density of Wood	ISO 13061-2:2014
	Wood Moisture Content of	MS 837:2006 (Oven Drying Test)
Steel Doorsets Glazed Doorsets	Cyclic Movement Endurance	MS 1073:Part 3:1996 -" (Appendix B)
System	None	BS 476:Part 22:1987
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	NHs (50 ppm)	3.2 ppm
Timber (wood)	delamination test	Appendix 3(1)
	Bonding Quality - Boiling water	JAS Notification No. 1152 (2007) -"
Timber Doorsets Composite Doorsets	None	MS 1073:Part 3:1996
Wall/partition	None	(Including Amendment 1:1990)
Windows	None	Guideline HO-10/1. Solid, Finger -"
	Air Infiltration	ASTM E283: 2019 (Clause 11)
	Air Tightness Test	MS 832:2011
	Dynamic Water Penetration Test	AAMA 501.1-17
Wood	Determination of moisture	BS EN 13183-1:2002
Wood/timber	Moisture Content	BS 373:1957 Clause 2
	Specific Gravity	BS 373:1957 Clause 5
	Static Bending (3 point bending)	BS 373:1957 Clause 6
	Compression Parallel and Perpendicular to Grain	BS 373:1957 Clause 8
	Hardness (Janka Indentation)	BS 373:1957 Clause 9
	Shear Parallel to Grain	BS 373:1957 Clause 10
	Tension Parallel and Perpendicular to Grain	BS 373:1957 Clause 12

SCOPE OF TESTING : MECHANICAL AND PHYSICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
1. Plant & Herbal Finished Products	supplements	38:2015
2	Strength, Durability and Stability	BS EN 1730:2012
	Strength, Durability and Stability	BS EN 1730:2012
	Strength, Durability and Stability	BS EN 581-3:2017
	Strength and Durability Strength, Durability and Stability	BS EN 1728:2012 BS EN 1730:2012
	Current: 0.005A to 100A	None
	None	IEC 62053-23:2003
2. Herbal Medicinal Products	Disintegration test for tablets and	British Pharmacopoeia 2019:
3	Strength, Durability and Stability	BS EN 16122:2012
3. Lift Landing Door	None	None
3. Work Chairs	Safety requirements	BS EN 1335-2:2018 BS EN 1728:2012 BS EN 1022:2018
4. Beds	Safety requirements	BS EN 1725:1998
4. Ranked Seating	Safety, strength & durability	BS EN 12727:2016 BS EN 1728:2012

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
4. Screens	Mechanical safety requirements	BS EN 1023-2:2000 BS EN 1023-3:2000
5. Bunk Beds & High Beds	Safety, strength & durability requirements	BS EN 747-1:2012+A1:2015 BS EN 747-2:2012+A1:2015
B. Non-domestic	B. Non-Domestic	B. Non-Domestic
C. Office Furniture	C. Office Furniture	C. Office Furniture
Doorsets	Fire Resistance Test	MS 1073:Part 2:1996
	None	None
	Fire resistance test	BS 476-20:1987
	Fire resistance test	ISO 834-1: 1999
	Fire resistance test	BS 476-20:1987
	Fire resistance test	ISO 834-1: 1999
E. Educational Furniture	E. Educational Furniture	E. Educational Furniture
Furniture Materials	Surface resistance to scratching	BS EN 15186:2012, Clause 5
General -" Purpose	Safety, durability, structural	ANSI/BIFMA X5.1 -2017
Glued Laminated (glulam)	Bonding Quality -" Immersion	JAS Notification No. 1152 (2007) -"
High Pressure Decorative Laminated Profiles For Wood	Resistance to scratching	BS EN 438-2:2016 +A1: 2018,
Laminates (hpl)	Bonding Quality -" Splitting Test	Institut für Fenstertechnik (ift)
Laminboard	None	Clause 25
Non-load Bearing	bonding quality (shear strength	None
Office Chairs -" Tests	Fire Resistance Test	BS 476:Part 20:1987
On The Wood, Wood Based	performance	None
Paints And Varnished Coating	None	Clauses 6 & 7)
	Scratch test	BS EN ISO 1518-1:2019 (Excluding
Panels.	None	None
Paper	Tearing Resistance	MS ISO 1974:2018
	Cadmium	In-house method TPCD-AA/CIM-001
	G6PD Screening	reagent added followed by 15 minute incubation.
Paper And Board	Thickness	MS ISO 534:2018
	Determination of Grammage	JKM 02/3-5 ISO 536:2015 E
Plant And Herbal Products	Weight variation of dietary	U.S Pharmacopoeia
Plywood, Block-board & Sliding Doorsets	Method for determination of	BS EN 314-1:2004
	Test for Side-Hung Doors only	(Including amendment 1:2003)
	Density of Wood	ISO 13061-2:2014
	Wood Moisture Content of	MS 837:2006 (Oven Drying Test)
Steel Doorsets Glazed Doorsets	Cyclic Movement Endurance	MS 1073:Part 3:1996 -" (Appendix B)
System	None	BS 476:Part 22:1987
	None	None
	NHs (50 ppm)	3.2 ppm
Timber (wood)	delamination test	Appendix 3(1)
	Bonding Quality - Boiling water	JAS Notification No. 1152 (2007) -"

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Timber Doorsets Composite Doorsets	None	MS 1073:Part 3:1996
Wall/partition	None	(Including Amendment 1:1990)
Windows	None	Guideline HO-10/1. Solid, Finger -"
	Air Infiltration	ASTM E283: 2019 (Clause 11)
	Air Tightness Test	MS 832:2011
	Dynamic Water Penetration Test	AAMA 501.1-17
Wood	Determination of moisture	BS EN 13183-1:2002
Wood/timber	Moisture Content	BS 373:1957 Clause 2
	Specific Gravity	BS 373:1957 Clause 5
	Static Bending (3 point bending)	BS 373:1957 Clause 6
	Compression Parallel and Perpendicular to Grain	BS 373:1957 Clause 8
	Hardness (Janka Indentation)	BS 373:1957 Clause 9
	Shear Parallel to Grain	BS 373:1957 Clause 10
	Tension Parallel and Perpendicular to Grain	BS 373:1957 Clause 12

SCOPE OF TESTING : MECHANICAL & PHYSICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
1	Strength and Durability	BS EN 1728:2012
	Stability (experimental method)	BS EN 1022:2018
	Safety	BS EN 1729-2:2012 + A1:2015 (Clause 4(a) to 4(i))
1 Drywall Partition	None	None
1 Timber Doorset	None	None
1. Office Table-•	Stability and Mechanical Strength	BS EN 1730:2012
	Dimensions	BS EN 527-1:2011
1. Seating (non-swivel And Without	Safety	BS EN 16139:2013 (Clause 4.1, 4.2)
	Stability	BS EN 1022:2005 (Exclude Clause 8)
	Strength and Durability	BS EN 1728:2012
1. Seating-™?	Safety	BS EN 581-1:2017
	Stability	BS EN 1022:2005 (Exclude Clause 8)
	Strength and Durability	BS EN 1728:2012
1. Wood/timber Products	Moisture determination	MS 837:2006 (Clause 4 & 5)
2. Composite Doorsets	None	None
2. Hand-held Wood Moisture Meters	Moisture meter correction factors	Work instruction AKA-S1.4.1 based on ASTM D 4444-13 R18
2. Office	Safety	BS EN 14073-2:2004 (Clause 3.4)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Strength and Stability (Structure)	BS EN 14073-3:2004
	Strength and Stability (Moving Parts)	BS EN 14074:2004
2. Wall	None	(Exclusion on the density and
3. Storage	Strength and Durability	ISO 7170:2005 BS EN 16122:2012
	Safety	BS EN 14749:2016
A. Domestic	A. Domestic	A. Domestic
D. Outdoor Furniture	D. Outdoor Furniture	D. Outdoor Furniture
Educational Seating	Safety, durability, structural	ANSI/BIFMA X6.1 -2018
Plywood	Determination of Shear Strength	Plywood Certification Standard
	Bonding Quality	BS EN 314-1: 2004 BS EN 314-2: 1993
	Determination of Formaldehyde	JAS 1751: 2008
	Determination of Formaldehyde	JAS for Plywood: 2018 MAFF
Public And Lounge Seating	Safety, durability, structural performance	ANSI/BIFMA X5.4 -2020
Wood Based Panels	Determination of Modulus of	BS EN 310:1993
	Determination of Formaldehyde	ISO 12460-5:2015

SCOPE OF TESTING : MECHANICAL AND PHYSICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
1	Strength and Durability	BS EN 1728:2012
	Stability (experimental method)	BS EN 1022:2018
	Safety	BS EN 1729-2:2012 + A1:2015 (Clause 4(a) to 4(i))
1 Drywall Partition	None	None
1 Timber Doorset	None	None
1. Office Table-•	Stability and Mechanical Strength	BS EN 1730:2012
	Dimensions	BS EN 527-1:2011
1. Seating (non-swivel And Without	Safety	BS EN 16139:2013 (Clause 4.1, 4.2)
	Stability	BS EN 1022:2005 (Exclude Clause 8)
	Strength and Durability	BS EN 1728:2012
1. Seating-™?	Safety	BS EN 581-1:2017
	Stability	BS EN 1022:2005 (Exclude Clause 8)
	Strength and Durability	BS EN 1728:2012
1. Wood/timber Products	Moisture determination	MS 837:2006 (Clause 4 & 5)
2. Composite Doorsets	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
2. Hand-held Wood Moisture Meters	Moisture meter correction factors	Work instruction AKA-S1.4.1 based on ASTM D 4444-13 R18
2. Office	Safety	BS EN 14073-2:2004 (Clause 3.4)
	Strength and Stability (Structure)	BS EN 14073-3:2004
	Strength and Stability (Moving Parts)	BS EN 14074:2004
2. Wall	None	(Exclusion on the density and
3. Storage	Strength and Durability	ISO 7170:2005 BS EN 16122:2012
	Safety	BS EN 14749:2016
A. Domestic	A. Domestic	A. Domestic
D. Outdoor Furniture	D. Outdoor Furniture	D. Outdoor Furniture
Educational Seating	Safety, durability, structural	ANSI/BIFMA X6.1 -2018
Plywood	Determination of Shear Strength	Plywood Certification Standard
	Bonding Quality	BS EN 314-1: 2004 BS EN 314-2: 1993
	Determination of Formaldehyde	JAS 1751: 2008
	Determination of Formaldehyde	JAS for Plywood: 2018 MAFF
Public And Lounge Seating	Safety, durability, structural performance	ANSI/BIFMA X5.4 -2020
Wood Based Panels	Determination of Modulus of	BS EN 310:1993
	Determination of Formaldehyde	ISO 12460-5:2015

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