

Thermo-Lite Board® – Comparison to wood-Based Products

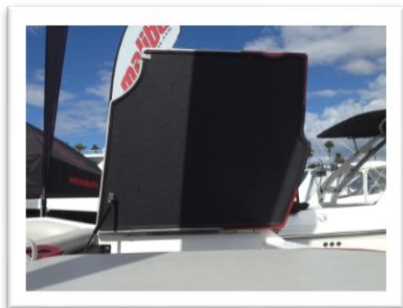
Thermo-Lite Board® is a unique lightweight composite product, manufactured with closed cell polymer foam and fiberglass that offers high specific strength and toughness.

The non-absorbent material is durable whilst providing an excellent bonding surface and high impact strength, sound and thermal insulation, and is resistant to contamination.



Thermo-Lite Board® is available in standard sheet sizing, custom sheet sizing (min order requirements), or pre-cut kits to save labour, tooling, and machine costs.

Thermo-Lite Board® is manufactured for lifetime performance, with endless applications offering significant advantages over standard wood based products, with common uses in Marine, Automotive & Transport industries.



ENDLESS APPLICATIONS

- BOAT
- BUS
- CARAVAN OR RV
- AMBULANCE
- LIMOUSINES
- TRAILERS
- HORSE FLOAT
- CAMPER TRAILER
- ICE BOX
- SANDWICH PANEL
- AVIATION
- CONSTRUCTION
- JETTIES & WALKWAYS
- SPECIALISED VEHICLES

The unique characteristics of Thermo-Lite Board® offer many significant advantages over wood based products.

Lifetime Performance

- Lifetime rot-free guaranteed
- Resistant to mold & fungus
- Self-Extinguishing (when heat source removed)
- Surface easily maintained
- Resistant to contamination
- Lifetime buoyancy

Structural Stability

- Closed cell structure
- Guaranteed no cracking or splintering
- Hardwearing
- Low expansion & contraction ratio
- High specific strength
- Will not corrode or deteriorate

Preparation & Handling

- Superior adhesive substrate with non-water based adhesives
- Accepts standard tooling and hardware
- Can be routed, or sawn
- No edge protecting required
- Can be painted coated or laminated

StyroMAX®

StyroFLOOR

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StyroMAX – StyroFLOOR Specs

Part #	Sheet Description Tough		Finish Description	Density Kg/M3	Weight Kg/Sqm
	Thickness	Sheet Size			
StyroFLOOR/LT	12.7mm	1220x2440	TGH ELPH/SAND	448	5.5
StyroFLOOR/HD	19mm	1220x2440	TGH ELPH/SAND	448	8.6

Product Technical Data

12.7mm

Thermo-Lite® Series			Versatile			Tough-Lite	Tough	Supreme
Nominal Density	kg/m3		Low(240)	Med(384)	High(480)	320	448	448
Tensile	Strength, Mpa	ASTM D 1037	8.4	13.4	14.8	21.2	37.3	46
	Modulus, Mpa		549.1	689	772	1654	1765	2310
Flexure	Strength, Mpa	ASTM C 393	10.2	23	26.6	24.7	32.9	47
	Modulus, Mpa		876.7	1613	1765	2621.1	3144	3806
Compression	Strength, Mpa @ 2.5% Strain	ASTM D 1621	1.65	4.46	6.27	2	3.33	3.61
	Modulus, Mpa		67.28	181	249	83.86	138	147

19mm

Thermo-Lite® Series			Versatile			Tough-Lite	Tough	Supreme
Nominal Density	kg/m3		Low(208)	Med(384)	High(480)	288	416	416
Tensile	Strength, Mpa	ASTM D 1037	7.6	14.5	15.9	14	30.6	37.5
	Modulus, Mpa		463.5	779	862	779	1537	1993
Flexure	Strength, Mpa	ASTM C 393	11.6	22.5	26.1	19	29.6	42.5
	Modulus, Mpa		1096.9	1538	1689	1931.7	2806	3475
Compression	Strength, Mpa @ 2.5% Strain	ASTM D 1621	1.49	4.46	6.27	2.09	3.33	3.71
	Modulus, Mpa		63.79	181	249	97.55	138	150

