



FREEMAN MODELING & TOOLING BOARDS

Freeman is proud to introduce a new line of modeling and tooling boards in all of the most popular sizes and densities! Our **Freeman** Modeling and Tooling Boards are available in 6 formulations that are in-stock and available for immediate shipment. With the addition of these boards to our already extensive lineup of RenShape products, the world's most complete line of modeling, fixture and foundry boards just got better!

Specifications

	Hardness (Shore D)	Density (g/cc)	Density (lb/ft ³)	Compressive Strength (psi)	Flexural Strength (psi)	Deflection Temp (°F)	Coefficient Thermal Expansion (in/in/°F)	Color	Thicknesses	Width x Length
Modeling Board										
Freeman M-37	59	0.59	37	2,538	3,263	180	31 x 10 ⁻⁶	Brown	0.98", 1.97", 2.96", 3.94", 5.91"	19.7" x 59.1"
Freeman M-40	62	0.64	40	3,989	3,989	180	31 x 10 ⁻⁶	Brown	0.98", 1.97", 2.96", 3.94", 5.91"	19.7" x 59.1"
Freeman M-45	69	0.72	44	4,714	3,989	180	26 x 10 ⁻⁶	Light Brown	0.98", 1.97", 2.96", 3.94", 5.91"	19.7" x 59.1"
Freeman M-46	71	0.72	45	5,076	4,360	185	27 x 10 ⁻⁶	Light Brown	2", 3", 4"	24" x 60"
Freeman M-47	68	0.74	46.5	3,762	5,150	172	46.8 x 10 ⁻⁶	Brown	1", 2", 3", 4", 5", 6"	24" x 60"
Fixture Board										
Freeman T-48	71-75	0.77	48	6,015	11,660	200	29 x 10 ⁻⁶	Gray	1", 2", 3", 4", 5", 6"	24" x 60"
Freeman T-51	71	0.81	51	4,714	4,714	198	30 x 10 ⁻⁶	Gray	0.98", 1.97", 2.96", 3.94"	19.7" x 59.1"
Foundry Board										
Freeman T-73	86	1.14	71	11,380	17,350	214	25-28 x 10 ⁻⁶	Red	1", 2", 3", 4", 6"	24" x 60"
Freeman T-74	83	1.19	74	14,142	14,887	172	45 x 10 ⁻⁶	Red	0.98", 1.97", 2.96", 3.94"	19.7" x 59.1"
Freeman T-75	84	1.20	75	11,966	12,691	180	34 x 10 ⁻⁶	Red	0.98", 1.97", 2.96", 3.94", 5.91"	19.7" x 59.1"



FREEMAN MANUFACTURING & SUPPLY CO.

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HOW TO ORDER

- Contact your local technical account representative
- Contact our customer service department at (800) 321-8511 opt. 3 or myorder@freemansupply.com

RELATED PRODUCTS

SEM Quick Set 180 Urethane Adhesive

SEM Quick Set 180 is a rapid-curing, 2-part polyurethane adhesive allowing you to machine same day with a solid, secure bond! Quick Set 180 offers an ideal combination of strength and speed, with a 3-minute gel time and can be machined in 1-2 hours.



RenWeld 103

This light yellow epoxy adhesive is formulated for bonding modeling, fixture, and tooling boards. It has a 2,100 cps viscosity for ease of application yet its flow control agents prevent excessive resin run-out.

RenLam 1700-1 Unfilled Laminating System & Adhesive (Translucent)

This unfilled, general-purpose laminating system features excellent moisture and chemical resistance. Also used for adhesive applications. Ren 956 hardener can also be used for an extended working time.

Freeman Fast Set 505 & 517 Epoxy Adhesives

Freeman Fast Set 505 & 517 Epoxy Adhesives both feature a one-to-one mix ratio. Fast Set 505 has a 5 minute gel time and a 1 hour handling strength. Fast Set 517 has a 17 minute gel time and 3-4 hour handling strength. Both are ideal for quick bonding of modeling, fixture, and tooling boards.



Fixture Wax

Once melted to a liquid form (approx. 200°F), the 1595A Fixture Wax is a castable compound used to encapsulate, stabilize and fixture small or delicate parts for precision machining or finishing. 1595A Fixture Wax can be used as an alternative method to secure modeling and tooling boards during the finishing process.

Abrasives

Precisely remove small amounts of material to achieve a specific dimension, smooth or polish a surface, or roughen materials for gluing applications. Garnet, aluminum oxide, and silicone carbide abrasives are available in sheets, rolls, or discs with either paper or cloth backing.



RenPatch 5169 Repair Material

RenPatch 5169 is a red polyurethane repair material that closely matches Freeman T-74 & T-75 for color, hardness, machinability, and thermal stability. Repaired areas blend very well with the surrounding tool surface and the paste bonds securely to the board.

TUF-Fil Polyester Repair Paste

Freeman TUF-Fil closely matches mahogany and other hardwoods in hardness. It is suitable for high wear applications, and when fully cured, TUF-Fil may be scraped, filed, tapped and sanded. While it is still rubbery, it can be carved using woodworking tools.



TUF-Carv Polyester Repair Paste

Freeman TUF-Carv is a less dense material than TUF-Fil, closely matching the hardness of pine and jelutong. It produces a durable, yet carvable finish. When cured, it can be carved, sawed, sanded, filed, tapped and machined easily with woodworking tools.

Freeman Wood & Plaster Sealer

This clear lacquer sanding sealer may be applied by brush or low pressure spray. Specially formulated to seal porous materials, it is ideal for sealing wood master models, as well as polyurethane modeling boards, to prepare the surface for plastic duplication.



Chemlease MPP 2180 Mold Prep & Primer

Chemlease MPP 2180 is a heavy duty primer used to prepare and seal mold surfaces for use in applications with elevated temperatures. Excellent for polyester, epoxy, phenolic, and metal. It can also be used with epoxy tooling boards, as well as select polyurethane modeling and tooling boards. Provides a smooth, non-porous surface for the application of semi-permanent sealers and release agents.



Bits & Cutting Tools

CNC routers, mill bits, and cutting tools manufactured by LMT-w for use with wood, metal, plastic, honeycomb, and composites.



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