

MACHINABLE MEDIA



Pages 6-15

Scan for website

FOAM, MODELING, & TOOLING BOARDS

Specifications

● Ideal ● Acceptable ○ Not recommended

	Hardness (Shore D)	Density (g/cc)	Density (lb./ft. ³)	Tensile Strength (psi)	Compressive Strength (psi)	Flexural Strength (psi)	CTE (in./in./°F)	Color	CNC Proofing	Models	Low-density Substructure	Tooling Aids & Fixtures	Foundry Patterns	Vacuum-form Molds	Intermediate-temp Master & Lay-up Tools	High-temp Master & Lay-up Tools	Metallforming tools
Foam Boards																	
Prop Foam	-	0.032	2	-	22	-	-	Lt. Yellow	●	●	●	○	○	○	○	○	○
HPT-35	-	0.035	2.2	68.2	39.2	41	-	Gray	●	●	●	○	○	○	○	○	○
HPT-40	-	0.04	2.5	84.1	50.8	-	-	Lt. Green	●	●	●	○	○	○	○	○	○
U40	-	0.064	4	105	95	116	33.0 x 10 ⁻⁶	Caramel	●	●	●	○	○	○	○	○	○
U60	-	0.09	6	160	148	190	33.0 x 10 ⁻⁶	Blue-Green	●	●	●	○	○	○	○	○	○
U80	-	0.13	8	290	230	348	33.0 x 10 ⁻⁶	Lt. Yellow	●	●	●	○	○	○	○	○	○
U100	27	0.16	10	333	290	406	28.0 x 10 ⁻⁶	Lt. Gray	●	●	●	○	○	○	○	○	○
U150	25	0.24	15	623	638	928	33.0 x 10 ⁻⁶	Lt. Green	●	●	●	○	○	○	○	○	○
U200	35	0.32	20	928	1,044	1,450	33.0 x 10 ⁻⁶	Peach	●	●	●	○	○	○	○	○	○
U280	48	0.45	28	1,523	2,234	2,988	28.0 x 10 ⁻⁶	Peach	●	●	●	○	○	○	○	○	○
U310	52	0.48	31	1,653	2,379	3,263	28.0 x 10 ⁻⁶	Brown	●	●	●	○	○	○	○	○	○
Modeling Boards																	
M-3000	55	0.48	30	-	1,740	2,174	18 x 10 ⁻⁶	Apricot	●	●	●	○	○	○	○	○	○
M-3400	63	0.55	34	-	2,900	2,900	17 x 10 ⁻⁶	Brown	●	●	○	○	○	○	○	○	○
M-3700	59	0.59	37	-	2,538	3,263	31 x 10 ⁻⁶	Brown	○	●	○	○	○	○	○	○	○
M-3900	68	0.62	38.7	-	3,480	3,916	18 x 10 ⁻⁶	Lt. Brown	○	●	○	○	○	○	○	○	○
M-4000	62	0.64	40	-	3,989	3,989	31 x 10 ⁻⁶	Brown	○	●	○	○	○	○	○	○	○
M-4300	70	0.70	43.7	-	3,770	4,351	17 x 10 ⁻⁶	Brown	○	●	○	○	○	○	○	○	○
M-4400	69	0.70	43.7	-	4,714	3,989	26 x 10 ⁻⁶	Lt. Brown	○	●	○	○	○	○	○	○	○
M-4500	71	0.72	45	-	5,076	4,360	27 x 10 ⁻⁶	Lt. Brown	○	●	○	○	○	○	○	○	○
M-4650	71	0.75	46.8	-	5,000	5,438	31 x 10 ⁻⁶	Turquoise	○	●	○	○	○	○	○	○	○
Tooling & High Temperature Boards																	
T-4900	72	0.77	48	-	4,206	4,786	23.3 x 10 ⁻⁶	Gray	○	○	○	○	○	○	○	○	○
T-5100	71	0.81	51	-	4,714	4,714	30.0 x 10 ⁻⁶	Gray	○	○	○	○	○	○	○	○	○
T-6250	80	1	62.4	-	7,541	8,267	21.1 x 10 ⁻⁶	Violet	○	○	○	○	○	○	○	○	○
T-6900	80	1.1	68.6	-	12,618	13,343	23.0 x 10 ⁻⁶	Red	○	○	○	○	○	○	○	○	○
T-7500	84	1.2	75	-	11,986	12,691	34.0 x 10 ⁻⁶	Red	○	○	○	○	○	○	○	○	○
T-7600	80	1.2	76	-	11,603	13,053	36.1 x 10 ⁻⁶	Orange	○	○	○	○	○	○	○	○	○
T-9900	88-90	1.6	100	-	15,954	11,603	26.0 x 10 ⁻⁶	Light Tan	○	○	○	○	○	○	○	○	○
Corintho 800	50	-	49.9	-	2,176	1,015	20.0 x 10 ⁻⁶	Black	○	○	○	○	○	○	○	○	○
T-5060	75	0.72	45	-	9,790	5,366	19.5 x 10 ⁻⁶	Light Blue	○	○	○	○	○	○	○	○	○
ASTM	D-2240	D-792	D-792	D-638	D-695	D-790	D-3386	-	-	-	-	-	-	-	-	-	-

CORAFOAM Boards have a service temperature up to 176°F. Results may vary depending on your specific project

SPECIFICATIONS CONTINUED

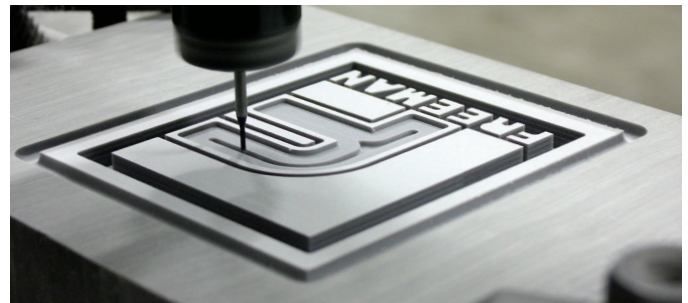
Matched Adhesives & Repair Materials

	Repro Ultra Light	Repro Light	Dunapol	Fast Set 505	Fast Set 517	Fre-Weld 8103	Freeman 5075	Freeman 4105	Fre-Weld 5060	SEM Quick Set 180	Freeman 5075	TUF-Carv	TUF-Fil	TUF-Fil White	Hi-Temp TUF-Fil
Foam Boards															
CORAFOAM® Prop Foam	X		X									X			
CORAFOAM® HPT-35	X		X									X			
CORAFOAM® HPT-40	X		X									X			
CORAFOAM® U40	X		X									X			
CORAFOAM® U60	X		X									X			
CORAFOAM® U80	X		X									X			
CORAFOAM® U100	X		X									X			
CORAFOAM® U150	X		X									X			
CORAFOAM® U200		X	X									X			
CORAFOAM® U280		X	X									X			
CORAFOAM® U310		X	X									X			
Modeling Boards															
Freeman M-3000		X		X	X	X						X			X*
Freeman M-3400		X		X	X	X						X			X*
Freeman M-3700				X	X	X						X			X*
Freeman M-3900				X	X	X						X			X*
Freeman M-4000				X	X	X						X			X*
Freeman M-4300				X	X	X						X			X*
Freeman M-4400				X	X	X						X			X*
Freeman M-4500				X	X	X						X			X*
Freeman M-4650				X	X	X						X			X*
Tooling & High Temperature Boards															
Freeman T-4900				X	X	X		X		X			X	X	X
Freeman T-5100				X	X	X		X		X			X	X	X
Freeman T-6250				X	X	X		X		X			X	X	X
Freeman T-6900				X	X	X	X	X		X	X		X	X	X
Freeman T-7500				X	X	X	X	X		X	X		X	X	X
Freeman T-7600								X	X				X		
Freeman T-9900				X	X	X		X		X			X	X	X
Freeman T-5060								X	X						X
Corintho 800	Use Dunapox Black AD 135 Epoxy Adhesive with Corintho 800 Hi-Temp Tooling Board. See details online.														

*for Thermoforming

Machining Specifications & Parameters

	Roughing Speed (RPM)	Roughing Feed (IPM)	Finishing Speed (RPM)	Finishing Feed (IPM)
CORAFOAM® Prop Foam, HPT-35, HPT-40, U40, U60, U80, U100, U150, U200	2,500	200	15,000	200
U280, U310	2,500	200	15,000	100
M-3000, M-3700, M-3900, M-4000, M-4300, M-4400, M-4500	2,000	100	15,000	200
Freeman M-4650	1,600	40	10,000	100
Freeman T-4900	2,000	100	15,000	200
Freeman T-5060	1,600	40	10,000	100
Freeman T-5100	1,600	40	10,000	100
Freeman T-6250	1,600	40	10,000	100
Freeman T-6900	1,600	40	10,000	100
Freeman T-7500	1,600	40	10,000	100
Freeman T-9900	1,600	40	10,000	100
Corintho 800	1,600	40	10,000	100



These machining parameters are starting points. Cutter type, material, spindle speed, feed rate, machine power, and rigidity all affect machining results. User must determine best parameters for specific applications.

Cutters

Roughing: 1" Ball End mill, 4-Flute, Carbide

Finishing: 5/8" Ball End mill, 2-Flute, Carbide

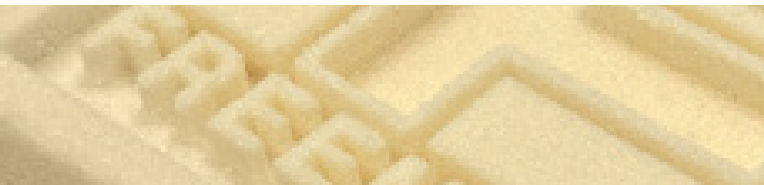
Depth

Roughing: Varied from 1/4" to 2 1/2" deep with 40% stepover

Finishing: 1/8" deep leaving 0.002" scallop height

POLYURETHANE FOAM BOARDS

Low Density Foam Boards offer excellent workability with a broad range of densities to be used in a variety of applications, such as modeling, aerospace, composite, architectural and design industries, signage and low density substrates.



CORAFOAM® Prop Foam

- ▶ 2 lb./ft.³ density
- ▶ Yellow color

CORAFOAM Prop Foam was developed specifically for the carving, scenic, theming, and film industries. It is suitable for

applications requiring strength and a higher level of detail not achievable with styrene. It is easily carvable by machine or hand.

Availability: 6" thickness, 48" width, 96" length.



CORAFOAM® HPT-35 Foam Board

- ▶ 2.2 lb./ft.³ density
- ▶ Gray color

CORAFOAM HPT-35 is our lightest weight and most economical foam styling board, excellent for machining lightweight styling and appearance models, plugs, and molds.

Availability: 2-29" thickness, 48" width, 102.4" length.



CORAFOAM® HPT-40 Foam Board

- ▶ 2.5 lb./ft.³ density
- ▶ Light green color

This cost-effective board offers excellent machinability, ideal for producing lightweight styling models and molds. It also exhibits low thermal conductivity and superb insulating capabilities, making it well suited to industrial insulation applications.

Availability: 4" thickness, 48" width, 96" length.



CORAFOAM® U40 Foam Board

- ▶ 4 lb./ft.³ density
- ▶ Caramel color

CORAFOAM U40 is a very low density styling board, making it ideal for lightweight styling and appearance models.

Availability: 2-8" thickness, 24" or 48" widths, 96" length.



CORAFOAM® U60 Foam Board

- ▶ 6 lb./ft.³ density
- ▶ Blue-green color

CORAFOAM U60 is a cost-effective board with a very low density, making it ideal for lightweight styling and appearance models.

Availability: 2-24" thickness, 48" width, 96" length.



CORAFOAM® U80 Foam Board

- ▶ 8 lb./ft.³ density
- ▶ Light yellow color

CORAFOAM U80 is a rigid, low density, closed-cell urethane foam. This product has an 8 lb./ft.³ density for making economical, lightweight styling and appearance models.

Availability: Up to 6" thickness, 24-48" widths, 96" length.



CORAFOAM® U200 Foam Board

- ▶ 20 lb./ft.³ density
- ▶ Peach color

CORAFOAM U200 is budget-friendly while offering an even better surface finish than U150 with excellent edge definition. It is non-abrasive and can be worked by hand or machine.

Availability: Up to 8" thickness, 24-48" widths, 96" length.



CORAFOAM® U100 Foam Board

- ▶ 10 lb./ft.³ density
- ▶ Light gray color

Although this board provides a better surface finish than CORAFOAM U80, it is used in many of the same applications. The light gray color makes U100 a great choice for architectural models.

Availability: Up to 12" thickness, 24-48" widths, 96" length.



CORAFOAM® U280 Foam Board

- ▶ 28 lb./ft.³ density
- ▶ Peach color

CORAFOAM U280 is ideal for master models, prototypes, and CAD design verification. It can be hand-carved or CNC-machined, is non-abrasive, and offers a good surface finish and edge definition.

Availability: Up to 8" thickness, 24-48" widths, 96" length.



CORAFOAM® U150 Foam Board

- ▶ 15 lb./ft.³ density
- ▶ Light green color

Improving on CORAFOAM U100's surface finish, CORAFOAM U150 is used in many large and lightweight styling applications.

Availability: Up to 12" thickness, 24-60" widths, 96-120" lengths (partial boards available for smaller projects).



CORAFOAM® U310 Foam Board

- ▶ 31 lb./ft.³ density
- ▶ Brown color

CORAFOAM U310 has the highest density of our foam board offering and provides the best surface finish and most superior edge definition of all CORAFOAM foam boards.

Availability: Up to 6" thickness, 24-48" widths, 48-96" lengths.

FREEMAN MODELING BOARDS

► These boards are designed and formulated to meet the wide scope of proofing, modeling, styling, prototyping and fabricating applications found throughout the industry today.

With these boards included in our comprehensive lineup, the world's most complete line of modeling, fixture and foundry boards is now even better!



Freeman M-3000 Modeling Board

- ▶ 30 lb./ft.³ Density
- ▶ Apricot Color
- ▶ Exceptional surface and workability

Freeman M-3000 is a lower-density modeling board that offers a fine surface and exceptional workability. It is an ideal material for master and styling models as well as general model building.

Availability: 2-5.9" thicknesses, 24" width, 78.7" length.



Freeman M-3400 Modeling Board

- ▶ 34 lb./ft.³ Density
- ▶ Brown Color
- ▶ Outstanding machinability

Freeman M-3400 is especially well-suited to a variety of applications. Due to its outstanding machinability, it can be used for master and copy models, styling and design models, or architectural models.

Availability: 1-6" thicknesses, 24" width, 60" length.



Freeman M-3700 Modeling Board

- ▶ 37 lb./ft.³ Density
- ▶ Brown Color
- ▶ Good machinability

Freeman M-3700 is similar to M-3400, but offers a little higher density and physical properties. It machines well and is

ideal for prototyping, as well as styling, design and architectural models.

Availability: 25-150mm (0.98-5.91") thicknesses, 500mm (19.7") width, 1,500mm (59.1") length.



Freeman M-3900 Modeling Board

- ▶ 38.7 lb./ft.³ Density
- ▶ Light Brown Color
- ▶ Smooth surface and excellent machinability

Freeman M-3900 offers a notable balance of density and finish, resulting in a smooth surface that both machines and paints well. This material is suitable to master and copy model applications.

Availability: 1-6" thicknesses, 19.7" and 24" widths, 59.1-60" length.



Freeman M-4000 Modeling Board

- ▶ 40 lb./ft.³ Density
- ▶ Brown Color
- ▶ Good surface detail

Freeman M-4000 is ideal for models and prototypes, master patterns and tooling aids. This material will produce very stable,

dimensionally accurate tools with well-defined edges and surface detail.

Availability: 25-150mm (0.98-5.91") thicknesses, 500mm (19.7") width, 1,500mm (59.1") length.



Freeman M-4300 Modeling Board

- ▶ 43.7 lb./ft.³ Density
- ▶ Brown Color
- ▶ Excellent machine surface and good dimensional stability

Freeman M-4300 offers excellent machine surface finish, good flexural and compressive strength, along with low CTE and good dimensional stability. This board is an

ideal material for a range of modeling applications.

Availability: 1-6" thicknesses, 24" width, 60" length.



Freeman M-4400 Modeling Board

- ▶ 44 lb./ft.³ Density
- ▶ Light Brown Color
- ▶ Dimensionally stable

Freeman M-4400 offers a 44 lb. density and designed for prototypes, master models, tooling aids, and automotive die models, as

well as prototype thermoforming.

Availability: 25-150mm thicknesses, 19.7" width, 59.1" length.



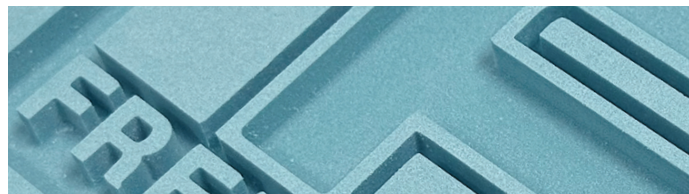
Freeman M-4500 Modeling Board

- ▶ 45 lb./ft.³
- ▶ Light Brown Color
- ▶ Tg 230°

Freeman M-4500 machines very well, offering good surface finish. This board is ideally suited for prototype vacuum-forming tools with a Tg 230°F, but also can be

used for prototypes, master models and tooling aids.

Availability: 2-5.91" thicknesses, 24" width, 59.1" length.



Freeman M-4650 Modeling Board

- ▶ 46.8 lb./ft.³ Density
- ▶ Turquoise Color
- ▶ Good machine surface

Freeman M-4650 can be used to create master models, patterns, fixtures, but an excellent options for prototype thermoforming

with a Tg of 230°F.

Availability: 50-150mm thicknesses, 19.7" width, 59.1" length.



TOOLING & HIGH-TEMPERATURE BOARDS

These boards are ideal for duplicating aids, foundry patterns and hammer-form dies, metal-form and vacuum-form molds, nickel electroforming mandrels, and intermediate temperature-resistant tooling.

The epoxy formulations are syntactic, pre-preg compatible and generally offer higher temperature resistance as well as chemical resistance when compared to polyurethane tooling boards.

Freeman T-4900 Tooling Board



- ▶ 48 lb./ft.³ Density
- ▶ Gray Color
- ▶ Fine surface finish

Freeman T-4900 offers excellent surface finish and optimal machining capabilities. This board is well-suited to the creation of styling and master models as well as some laminate applications.

Availability: 1-6" thicknesses, 24" width, 60" length.

Freeman T-5100 Fixture Board



- ▶ 51 lb./ft.³ Density
- ▶ Gray Color
- ▶ Dimensionally stable

Freeman T-5100 is ideal for tooling and check fixtures, model bases, patterns, and thermoform tools where requirements are less demanding.

Availability: 25-150mm thicknesses, 19.7" width, 59.1" length.

Freeman T-6250 Fixture Board



- ▶ 62.4 lb./ft.³ Density
- ▶ Violet Color
- ▶ High temperature resistance & excellent machine surface

This durable fixture board is ideal for intermediate-temperature applications, such as laminate tooling, RIM molding, and vacuum forming. It can withstand temperatures up to 266°F.

Availability: 2-4" thicknesses, 24" width, 40" length.

Freeman T-6900 Foundry Board



- ▶ 68.6 lb./ft.³ Density
- ▶ Red Color
- ▶ Excellent strength and low CTE

This board's exceptional strength profile makes it ideal for more demanding applications. Its high abrasion resistance and compressive strength make it ideal for

foundry tooling, some metal forming applications, tapping models, and master and design models.

Availability: 1-4" thicknesses, 24" width, 40-59.5" lengths.

Freeman T-7500 Foundry Board



- ▶ 75 lb./ft.³ Density
- ▶ Red Color
- ▶ High abrasive resistance

Freeman T-7500 offers excellent machinability, impact resistance, and high abrasive resistance, making it ideal for foundry pattern and core boxes. It is also ideal for use in prototype thermoforming

when vacuuming clear plastic.

Availability: 25-100mm thicknesses, 19.7" width, 59.1" length.

Freeman T-7600 Foundry Board



- ▶ 76 lb./ft.³ Density
- ▶ Orange Color
- ▶ Superior impact abrasive resistance

Freeman T-7600 offers excellent strength characteristics and machinability. Offering superior impact and abrasion resistance, T-7600 is well-suited to the creation of durable foundry patterns and core boxes. Additionally, its fine surface finish and exceptional machinability make it an ideal material for dimensionally accurate tooling.

Availability: 1.18-3.94" thicknesses, 19.7" width, 58.27" length.

TOOLING & HIGH-TEMPERATURE BOARDS CONTINUED

Corintho® 800 High-Temp Tooling Board



- ▶ 49 lb./ft.³ Density
- ▶ Black Color
- ▶ 400° heat resistance

Black Corintho® 800 is a polyurethane board with a low CTE and high temperature resistance of 400°F. It is ideal for wet lay-up and high or

low-temperature curing prepreg. See website for recommended sealers and adhesives.

Availability: 45.7-100mm thicknesses, 19.7" width, 59" length.

Freeman T-9900 Metal Forming Board



- ▶ 100 lb./ft.³ Density
- ▶ Light Tan Color
- ▶ Extremely tough and dense

This polyurethane board is for CNC machining of production fixtures and prototype metal forming dies, capable of withstanding extended use and handling. It is very

dimensionally stable, features excellent wear resistance, and is well-suited for vacuum forming.

Availability: 50mm thickness, 19.7" width, 59.1" length.

Freeman T-5060 High-Temp Epoxy Board



- ▶ 45 lb./ft.³ Density
- ▶ Light Blue Color
- ▶ 284° heat resistance

This high-performance epoxy board features a very fine surface structure, excellent machinability, dimensional stability, and heat resistance up to 284°F (140°C).

It is well-suited for high temperature curing prepreps, draping tools for prepreg, and master models.

Availability: 25-150mm thicknesses, 24" width, 60" length.

Product Testing

Our Tech Team works at our Avon facility to test product properties including Freeman Foam, Modeling, and Tooling boards and related adhesives. These robust testing processes not only allow our sales teams to fully understand the scope of our product capabilities, but also make recommendations for your specific needs.

IN-HOUSE CNC

Boards are tested on our in-house CNC machine for machine surface quality, edge definition, and dust vs. chipping.

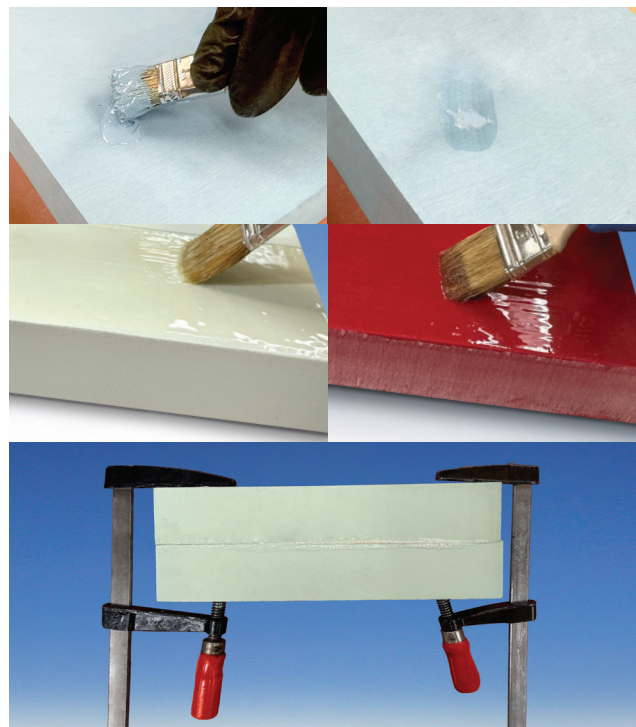


IMPACT TESTING

We verify hardnesses on Freeman boards, and impact strength on the higher density tooling boards.

ADHESIVE TESTING

We do extensive testing on several adhesives to provide recommended adhesives for each board. In addition to gel time and light handling, we also test for durability and bond strength.



PERFECT PLANK LUMBER

➤ For over 60 years, skilled craftsmen made Perfect Plank their primary choice because it maximizes the skills and efficiency of the pattern maker, mold maker, and model maker.

Perfect Plank is a dry, thick, stress-free pattern plank that is uniform in texture, low in moisture and virtually defect-free.

Each board is immediately ready for use in a wide variety of sizes, freeing the user from the time-consuming tasks of planing, jointing, sizing, and gluing to assemble larger blocks for pattern construction.

Ordering Information

This material is ordered by the full board. When ordering, please indicate how many boards are needed. Additional sizes may be available by special order in thicknesses from 1" to 6", widths 18" to 48", and lengths up to 8'. Actual thicknesses and widths may vary. Other sizes may be available by special order. Please see our website, www.FreemanSupply.com, for details.



Features

Virtually defect-free	The pine species is equivalent to select grades of pattern lumber while the mahogany species is equivalent to FAS grades.
Grain	Tight, straight, vertical grain as opposed to the wide, diagonal and/or straight grain commonly found in other products.
Moisture content	Kiln-dried to a low and uniform moisture content throughout. (Controlled to 8-10%)
Surfacing	Each board is surfaced on four sides.
End gluing	Individual wood strips joined by precision finger-jointing with non-abrasive adhesives.
Edge gluing	Strips are edge-glued with uniformly thin glue lines of water-resistant adhesive.
Immediately usable	Simply select the thickness needed, cut off the required length, and begin to build your pattern. With Perfect Plank, every cubic inch is usable.

Perfect Plank Pine

This popular laminated plank is an excellent alternative to the select Sugar Pine grades which are becoming increasingly difficult to source.

Availability: 1" to 6" thicknesses, 18" width, 8' length.

Perfect Plank Jelutong

Due to its extremely fine texture and consistent grain structure, Jelutong Perfect Plank is the best for hand carving or CNC machining.

Availability: 1.5" to 6" thicknesses, 18" width, 8' length.

Perfect Plank Mahogany

This genuine Mahogany plank is the best choice for high-tolerance patterns, models, and fixtures.

Availability: 7/8" to 5 7/8" thicknesses, 18" width, 8' length.

Perfect Plank Poplar

Constructed from domestically grown poplar, this hardwood plank offers a lower cost alternative to Mahogany Perfect Plank.

Availability: 2 1/4" to 4 1/4" thicknesses, 18" width, 8' length.

Perfect Plank Alder

Red Alder is a domestically grown species found primarily on the Pacific coast. Slightly lighter in weight, color, and more economically priced than Mahogany.

Availability: 2 1/4" to 4 1/4" thicknesses, 18" width, 8' length.

ROUGH SAWN PATTERN LUMBER



Freeman's rough sawn soft woods and hardwoods are graded specifically for pattern and model construction. Additional features include:

- Adheres to accepted grading rules
- Stored inside climate-controlled warehouses to maintain specified moisture content
- Carefully kiln-dried to under 12% moisture content to minimize splitting and checking
- Many grades available surfaced two sides (S2S) for a small additional charge



Sugar Pine Pattern Lumber

Selected to meet the exacting specifications and requirements of pattern and model makers.

No. 2 Common

- Popular standard grade for the patternmaker
- Wide range of applications where tight, sound knots do not affect performance and cost is a major factor
- Tight knots generally limited to 3¾", but most are significantly smaller and well-spaced
- Spike knots permitted, but is purchased with objective of minimizing this defect

Mahogany Pattern Lumber

Extremely stable, withstands abrasion, and wears well. It has straight and close grain and carves easily.

FAS Pattern Mahogany

- Highest grade available (virtually defect-free)
- Straight grain for high-quality patterns and models
- Also available in 6' to 7', a lower cost option for jobs not requiring longer length

Freeman Pattern Mahogany

- Lower cost than FAS grade
- Straight grain with small number of pin worm holes and other minor defects
- Widths somewhat narrower than FAS grade but stock is typically 6" and wider



Ordering Information

Rough Sawn Pattern Lumber is ordered by the board foot. Due to random dimensions, orders will be filled as close as possible to board feet requested, therefore exact board feet and pricing cannot be guaranteed. Please make us aware if you have specific requirements for boards with random lengths.

Calculating Board Feet

$$\frac{\text{Length} \times \text{Width} \times \text{Thickness (inches)}}{144}$$

RICHLITE FIBER-LAMINATE SHEETS

This remarkably strong material offers excellent machinability and dimensional stability, resists warping and maintains a uniform flatness and thickness. It is abrasion, moisture and chemical resistant.

Availability: ¼" to 3" thicknesses, 16-48" widths, and 48"-120" lengths. Some sizes are special order and are subject to extended lead times.



Online Resources



Scan the QR code for more on our website:

User Guide for working with Richlite, including sawing, machining, drilling, sanding and bonding.

Physical Properties

Specific Gravity	1.213
Water Absorption (% @ 1"/25 hr.)	1.55
Impact Strength (ft. lb./in.)	2.48
Tensile Strength (lb./sq. in.)	13,100
Flexural Strength (lb./sq. in.)	22,000
Compressive Strength (lb./sq. in.)	18,400
Abrasion-Resistance (Taber CS-17-% loss/1,000 revolutions)	0.0107
Hardness (Shore D)	88
Density (lb./cu. ft.)	75.84
Color	Oak

MEDIUM DENSITY FIBERBOARD (MDF)

This low-cost machinable media is for producing master patterns, models, and prototypes. This product features a uniform density for smooth machining and low tool wear. MDF will accept a wide range of sealers, primers, and coatings to produce a hard, durable tool surface.

Availability: 2-4" thicknesses, 24" or 49" widths, and 97-120" lengths. Some sizes are special order and are subject to extended lead times.

Physical Properties

Density	38 lb./ft. ³ +/-2 lb.
Internal Bond	90 lb./in. ²
Moisture Content	5-8%
Hardness (Shore D)	45-55
Color	Beige