



# Plywood & Sheet Materials

## Freeman Pattern Plywood

Freeman Pattern Plywoods are manufactured from 1" to 2" in thickness for use in making large core box bottom boards and sides, large cope & drag plates, or general heavy duty applications. Available in solid pine or maple-faced pine, these plywoods feature "almost void free" construction throughout.

### Freeman Maple-Faced Pattern Plywood

Smooth maple facing on both faces with a solid pine interior combines quality with economy in a thick plywood panel.

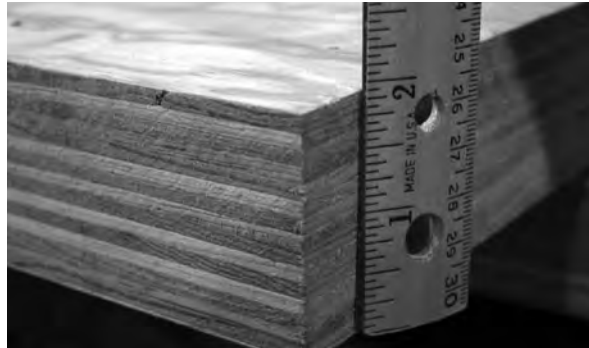
Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys
075373	1 1/8"	48"	96"	D3	11
075374	1 1/4"	48"	96"	D3	11
075375	1 1/2"	48"	96"	D3	13
075376	1 3/4"	48"	96"	D3	15



### Freeman Pine Pattern Plywood

Solid Pine construction combines a smooth surface with durability for a thick plywood panel.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys
075364	1 1/4"	48"	96"	AB	9
075365	1 1/2"	48"	96"	AB	11
075366	1 3/4"	48"	96"	AB	13
075367	2"	48"	96"	AB	13



**Please see plywood grading scale on page 85.**

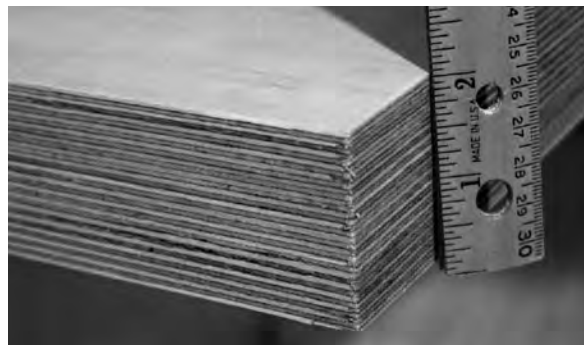
## Premium Plywood

### Eurobirch Plywood

Eurobirch is the highest quality plywood in our line. It is suitable for pattern plates, core box construction, or any heavy duty application. All sizes are equivalent to A-B grade and feature:

- Solid Birch construction
- Virtually void-free laminates
- Phenolic resin adhesive that is waterproof & boilproof
- Thin veneers for maximum strength & durability

Catalog Number	Nominal Thickness	Width	Length	No. Plys
075382	3/4"	48"	96"	14
075383	1"	48"	96"	18



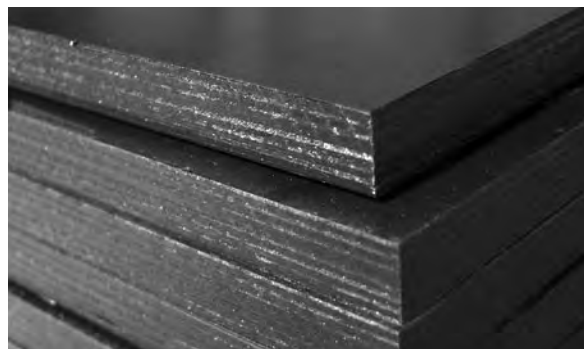
### Euroform Plywood

Euroform is made with the same high quality construction as Eurobirch with the addition of thermally fused phenolic facings for durability and moisture resistance. It is excellent for pattern plates or core box construction.

Euroform features:

- Solid Birch construction
- Virtually void free laminates
- Phenolic resin adhesive that is waterproof & boilproof
- Thicknesses from 1/4" to 1"
- Thin veneers for maximum strength & durability

Catalog Number	Nominal Thickness	Width	Length	No. Plys
075392	3/4"	48"	96"	14
075393	1"	48"	96"	18



### Russian Birch Plywood

Russian Birch plywood is constructed with thin veneers of solid Birch and is assembled using phenolic adhesive which provides a waterproof bond line. This material is an economical alternative to Eurobirch.

Catalog Number	Nominal Thickness	Width	Length	No. Plys
075391	24 mm	48"	96"	17





## Standard Plywood

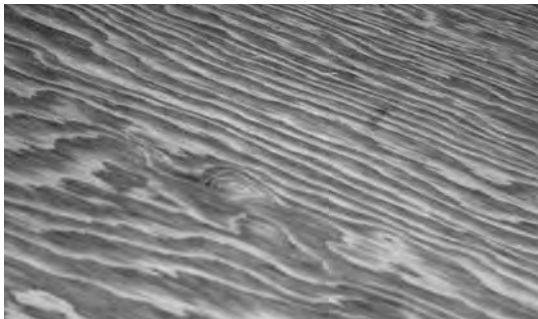


### Birch-Faced Plywood

An extensive selection of smooth surface birch faced plywoods for a variety of woodworking applications. Thicknesses are available from 1/2" to 1" and all contain a veneer core.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys	Pc/Unit*
075326	3/4"	48"	96"	A2	7	40
075324	1/2"	48"	96"	C3	5	60
075333	5/8"	48"	96"	C3	7	60
075321	3/4"	48"	96"	C3	7	40
075322	1"	48"	96"	C3	9	30
075325	3/4"	48"	96"	D3 (shop)	7	40
075372	1"	48"	96"	D3 (shop)	9	30

\*Pieces per unit listed for shipping reference purposes. Sheets are sold individually.



### Fir Plywood

Suitable for general construction requirements, this plywood is manufactured of solid fir laminations.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys	Pc/Unit*
075331	3/4"	48"	96"	AC	7	44
075332	1"	48"	96"	AC	9	33

\*Pieces per unit listed for shipping reference purposes. Sheets are sold individually.

### HDO (High Density Overlay) Fir Plywood

HDO Plywood is manufactured with a thermosetting resin-impregnated fiber surface bonded to both outer plys under heat and pressure.

It provides a smooth, uniform surface which is resistant to abrasion, moisture penetration and deterioration from many common chemicals and solvents.

HDO Plywood is bonded with 100% waterproof glue with face veneers grade B or better with a semi-opaque thermosetting resin-impregnated surface. The resin overlay resists abrasion, moisture penetration and deterioration from many common chemicals and solvents.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys	Pc/Unit*
075343	3/4"	48"	96"	AB	7	44
075344	1"	48"	96"	AB	9	30

\*Pieces per unit listed for shipping reference purposes. Sheets are sold individually.

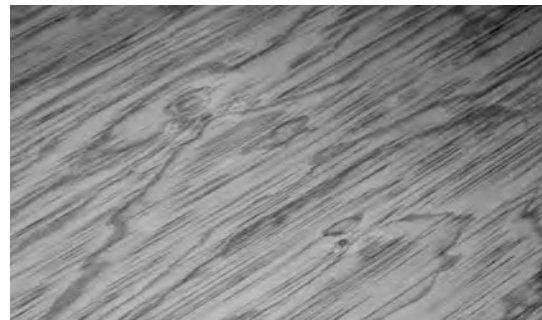
### MDO (Medium Density Overlay) Fir Plywood

MDO Plywood is produced with a resin-treated fiber overlay on both sides that is generally smooth and opaque. This allows for rapid, even paint and coating applications.

MDO Plywood is manufactured with 100% waterproof adhesives and has an inner ply construction of C grade veneers and B grade or better face and back veneers.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys	Pc/Unit*
075341	3/4"	48"	96"	AB	7	44
075342	1"	48"	96"	AB	9	30

\*Pieces per unit listed for shipping reference purposes. Sheets are sold individually.



### Pine Plywood

This general purpose construction grade plywood is constructed of pine laminations glued with exterior adhesive. This product will have larger internal voids and surface defects.

Catalog Number	Nominal Thickness	Width	Length	Grade	No. Plys	Pc/Unit*
075351	3/4"	48"	96"	CDX	5	48

\*Pieces per unit listed for shipping reference purposes. Sheets are sold individually.

## Other Sheet Materials

### Masonite Sheets

Fully tempered Masonite Sheets are hard, smooth, and most commonly used for pattern layout. They are available plain or painted with a white latex primer on one side.

Catalog Number	Description	Nominal Thickness	Width	Length
075310	Primed Tempered Masonite	1/8"	48"	96"
075311	Primed Tempered Masonite	1/4"	48"	96"
075309	Plain Tempered Masonite	1/8"	48"	96"
075319	Plain Tempered Masonite	1/4"	48"	96"

### Acetate Sheet

A clear economy cellulose acetate sheet which can be used for template and layout work. Packaged flat in 20" x 50" sheets.

Catalog Number	Description	Thickness	Width	Length
027520	Acetate Sheet	.020	20"	50"
027525	Acetate Sheet	.030	20"	50"
027530	Acetate Sheet	.040	20"	50"
027535	Acetate Sheet	.060	20"	50"

### Aluminum Sheet

Ideal for layouts, templates and build-ups. Sold by the sheet and shipped flat in 24" x 72" sheets.

Catalog Number	Description	Thickness	Width	Length
027540	Aluminum Sheet	0.032"	24"	72"
027545	Aluminum Sheet	0.050"	24"	72"
027550	Aluminum Sheet	0.063"	24"	72"
027555	Aluminum Sheet	0.090"	24"	72"
027560	Aluminum Sheet	0.125"	24"	72"
027565	Aluminum Sheet	0.190"	24"	72"
027570	Aluminum Sheet	0.250"	24"	72"

### Brass Sheet

Stocked in various thicknesses for accurate build-up dimensions. Sold in 12" x 48" sheet sizes.

Catalog Number	Description	Thickness	Width	Length
027580	Brass Sheet	0.016"	12"	48"
027585	Brass Sheet	0.032"	12"	48"
027590	Brass Sheet	0.050"	12"	48"
027595	Brass Sheet	0.063"	12"	48"
027605	Brass Sheet	0.093"	12"	48"
027610	Brass Sheet	0.125"	12"	48"
027620	Brass Sheet	0.188"	12"	48"
027625	Brass Sheet	0.250"	12"	48"

### Armorboard

Armorboard is an exterior plywood panel with 1/8" standard hardboard on both faces.

Catalog Number	Description	Nominal Thickness	Width	Length
075370	Armorboard	3/4"	48"	96"

### Particle Board

Ideally suited for mold-box and master pattern bottom board construction, this is a smooth-finish particle board.

Catalog Number	Description	Nominal Thickness	Width	Length
075304	Particle Board	1/2"	48"	96"
075101	Particle Board	3/4"	48"	96"

### Melaboard

Melaboard is a white particle board panel with 130 gram melamine film thermally fused to both faces.

Catalog Number	Description	Nominal Thickness	Width	Length
075350	Melaboard	3/4"	49"	97"

## Plywood Grading Scales

### Hardwood Plywood Grades

Hardwood plywood uses two alphanumeric characters to designate the grade of the panel. The face is normally graded using a letter, the back is normally graded using a number.

#### Face Grades

- The veneer is smooth and free of large knots. Small pin knots, burls, or slight mineral streaks are permitted. This is the best grade for a plywood face.
- This grade is similar to the "A" face, but some sound knots or repaired knots are permitted. Slightly rougher grain and mineral streaks are typical of this grade.
- This veneer will contain sound knots and repaired knots as well as unlimited pin knots and small burls. Mineral streaks are readily evident.
- This grade is similar to the "C" grade face but will permit more repaired knots, sound knots, and rough cut veneer.

#### Back Grades

- This veneer will have sound, tight knots up to 3/8" in diameter. Areas of rough grain and small splits may be permitted.
- This back face will have sound, tight knots up to 3/4" in diameter. Repaired knots, rough cut veneer, and mineral streaks are common with this grade.
- This grade permits 1/2" to 1 1/2" diameter knots on this face. Repaired knots, unlimited small defects, and streaks are also permitted.

### Soft Wood Plywood Grades

Soft wood plywood uses two letter characters to designate the grade of the panel. The face is normally graded using a letter and the back is also graded using a letter.

- This veneer is smooth and free of pitch pockets, knots, and open splits. Repaired splits or wood patches may be permitted.
- This grade is smooth and free from open defects, but sound knots up to 1" in diameter are evident. Wood repairs or repaired knots or splits are common in the veneer.
- Unlimited tight knots up to 1 1/2" in diameter are characteristic to the grade. Open knots, splits, wood patches, and repairs are permitted.
- This grade has no limit to the number of defects or repairs. Knotholes are permissible to 2 1/2" in diameter and open splits are common.