

Duramine® Thermally Fused Laminate Panel



DELIVERING VALUE AND DURABILITY IN A VARIETY OF COMMERCIAL AND RESIDENTIAL APPLICATIONS

A broad selection of woodgrains, contemporary abstracts, solid colors, and textured effects provide a wide range of design options and the versatility of decorative composite panels for furniture, cabinetry, casework, and fixtures.

SIX NEW DECORS HAVE A NATURAL LOOKING WOOD PORE STRUCTURE THAT TAKES TFL TO THE NEXT LEVEL. NEW TECHNOLOGY SIMULTANEOUSLY DELIVERS BOTH A MATTE AND GLOSS FINISH WITH AN OPTICALLY SYNCHRONIZED VISUAL EFFECT THAT IS IN REGISTER WITH THE PRINT IMAGE.



C33 Alabaster Ash



C36 Coastal Pine



C37 Desert Sand Hickory



C34 Fossil Ash



C35 Harbor Grey Ash



C38 Pacific Rustic Oak



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DURAMINE PROGRAM

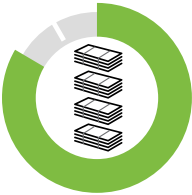
THREE PURCHASING PROGRAMS PROVIDE FLEXIBILITY AND SIMPLICITY.



Quick Ship - 38 designs that are available with a one unit minimum on normal sizes.



Made to Order - A wide range of designs and sizes that are available from our partners -- Arclin, Wilsonart, BMK, and Panolam -- with a 300 face minimum.

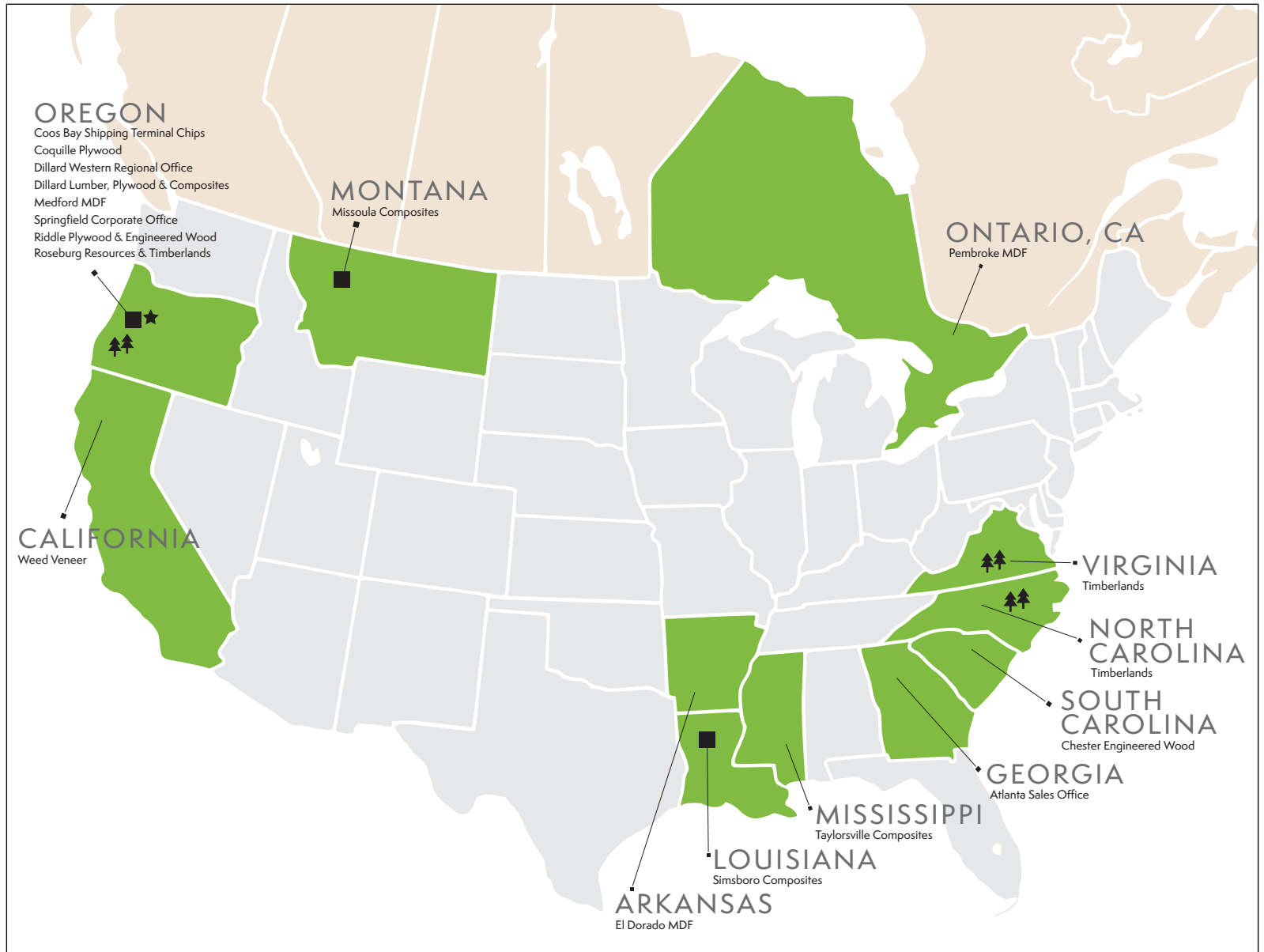


Custom - A specific design for your color program or needs. Custom designs require a signed letter of commitment (LOC) and a minimum print volume.





MANUFACTURING LOCATIONS



■ TFL/Duramine Locations



DURAMINE QUICK SHIP DESIGNS

WOODGRAINS



880 Alexandria Walnut



701 American Black Walnut



881 Angkor Root



352 Cabinet Maple



661 Caramel Apple

WOODGRAINS



871 Charcoal Chestnut



663 Chocolate Apple



706 Chocolate Cherry



391 Cordoba Pine



874 Frosty Chestnut

WOODGRAINS



055 Hard Rock Maple



882 Kinabalu Teak



004 Natural Maple



872 Ribbon Walnut



873 Rogue River Maple

WOODGRAINS



700 Rustic Alder



705 Tuscan Teak Grigio



665 Wild Apple



051 Wild Cherry

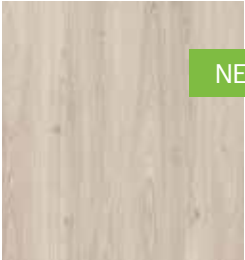


078 Windsor Mahogany



DURAMINE QUICK SHIP DESIGNS

ROSEBURG DURAMINE DECOLAY REAL BY SCHATTEDECOR



NEW

C33 Alabaster Ash



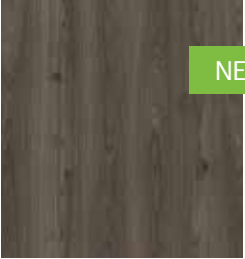
NEW

C36 Coastal Pine



NEW

C37 Desert Sand Hickory



NEW

C34 Fossil Ash



NEW

C35 Harbor Grey Ash



NEW

C38 Pacific Rustic Oak



514 Silver Frost

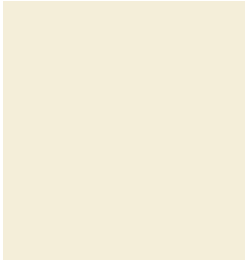


752 Tierra Linea



751 Twilight Linea

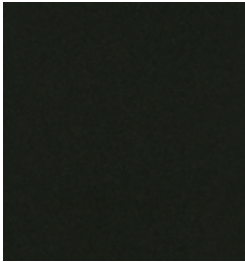
SOLIDS



016 Almond



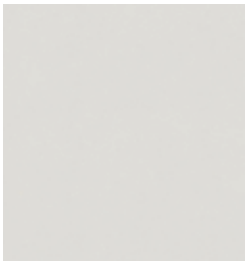
109 Antique White



006 Black



275 Charcoal



108 Folkstone

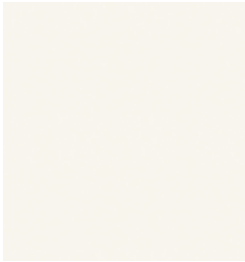
SOLIDS



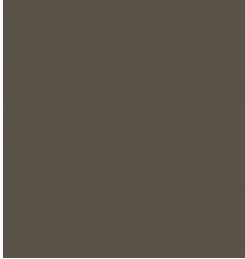
022 London Grey



225 Navy



291 White



226 Woodland Grey



FINISHED PRODUCTS

Duramine TFL is available in a variety of finished product options including:

REDIPLY

a finished panel with your choice of hardwood veneers on the front and Duramine TFL on the back. This panel is perfect for cabinetry applications where a real wood veneer is the desired material for the face of the cabinets and the durability of TFL is desired inside of the cabinets.



MELAGARD SHELVING

Laminated shelving with your choice of bullnose or square edge.





ROSEBURG DURAMINE® SURFACE PROPERTIES

Property	Test Description	Performance Standard Test Method	Roseburg Duramine
Lightfastness (Light Resistance)	Measures the ability of the laminate to retain its color when exposed to a light source approximating sunlight through window glass.	ISO 4586-2:2018 (sec 31) (NEMA LD3-2005 3.3)	No to Slight Effect
Resistance to Staining	Measures the ability of the laminate to retain its color when exposed to a light source approximating sunlight through window glass.	ISO 4586-2:2018 (sec 31) (NEMA LD3-2005 3.4)	1 - 10 No Effect 11 - 15 Slight-Moderate (iodine only)
Cleanability	Value represents number of cleaning steps implemented to remove stains made by common household substances (Max allowable for high pressure laminate is 20).	ISO 4586-2:2018 (sec 31) (NEMA LD3-2005 3.4)	5 - 13
Resistance to Wet Heat	Measures the ability of the surface of the laminate to maintain its color and surface finish when subjected to boiling water.	ISO 4586-2:2018 (sec 41) (NEMA LD3-2005 3.5)	No to Slight Effect
Resistance to Dry Heat	Measures the ability of the surface of the laminate to maintain its color and surface finish when subjected to high temperature.	ISO 4586-2:2018 (sec 18) (NEMA LD3-2005 3.6)	No Effect
Impact Resistance	Measures the ability of the laminate to resist fractures due to impact by a large diameter steel ball.	ISO 4586-2:2018 (sec 25)* (NEMA LD3-2005 3.8)	9" – 15"
Wear Resistance	Measures the ability of the surface of the laminate to resist abrasive wear-through of the decorative layer.	ISO 4586-2:2018 (sec 11) (NEMA LD3-2005 3.13)	550 – 700 cycles (solids) 100 cycles (wood grains)

*(steel ball size for impact test results deviates from ISO standard and lines up with NEMA LD3...(weighing 224 ± 3 g, measuring 38.1 mm (1-1/2 in.) in diameter)

Note – Performance results represent a range based on testing of Duramine produced at all Roseburg laminating facilities on substrates including Particleboard and Medium Density Fiberboard.



DURAMINE QUICK SHIP LINE - AVAILABLE DESIGNS

MISSOULA		SIMSBORO				DILLARD	
Duramine® Code	Color/Pattern Name - 4'x8' Only	Duramine® Code	Color/Pattern Name	4'x8'	5'x8'	Duramine® Code	Color/Pattern Name - 4'x8' Only
C33	Alabaster Ash	C33	Alabaster Ash	yes	no	880	Alexandria Walnut
880	Alexandria Walnut	880	Alexandria Walnut	yes	no	016	Almond
016	Almond	016	Almond	yes	yes	881	Angkor Root
701	American Black Walnut	881	Angkor Root	yes	no	109	Antique White
881	Angkor Root	109	Antique White	yes	yes	006	Black
109	Antique White	006	Black	yes	yes	275	Charcoal
006	Black	352	Cabinet Maple	yes	no	871	Charcoal Chestnut
352	Cabinet Maple	661	Caramel Apple	yes	yes	663	Chocolate Apple
661	Caramel Apple	275	Charcoal	yes	yes	108	Folkstone
275	Charcoal	871	Charcoal Chestnut	yes	yes	874	Frosty Chestnut
871	Charcoal Chestnut	663	Chocolate Apple	yes	yes	055	Hardrock Maple
663	Chocolate Apple	706	Chocolate Cherry	yes	yes	882	Kinabula Teak
706	Chocolate Cherry	C36	Coastal Pine	yes	no	022	London Grey
C36	Coastal Pine	391	Cordoba Pine	yes	no	872	Ribbon Walnut
C37	Desert Sand Hickory	C37	Desert Sand Hickory	yes	no	873	Rogue River Maple
108	Folkstone	108	Folkstone	yes	yes	514	Silver Frost
C34	Fossil Ash	C34	Fossil Ash	yes	no	752	Tierra Linea
874	Frosty Chestnut	874	Frosty Chestnut	yes	yes	705	Tuscan Teak Grigio
C35	Harbor Grey Ash	C35	Harbor Grey Ash	yes	no	751	Twilight Linea
055	Hardrock Maple	055	Hardrock Maple	yes	yes	291	White
882	Kinabula Teak	882	Kinabula Teak	yes	no	226	Woodland Grey
022	London Grey	022	London Grey	yes	yes		
004	Natural Maple	225	Navy	yes	yes		
225	Navy	C38	Pacific Rustic Oak	yes	no		
C38	Pacific Rustic Oak	872	Ribbon Walnut	yes	yes		
872	Ribbon Walnut	873	Rogue River Maple	yes	yes		
873	Rogue River Maple	514	Silver Frost	no	yes		
700	Rustic Alder	705	Tuscan Teak Grigio	yes	no		
514	Silver Frost	291	White	yes	yes		
705	Tuscan Teak Grigio	665	Wild Apple	yes	yes		
291	White	051	Wild Cherry	yes	yes		
665	Wild Apple	226	Woodland Grey	yes	yes		
051	Wild Cherry						
078	Windsor Mahogany						
226	Woodland Grey						

Missoula and Dillard may also offer 291 White in 3/4" 5'x8', 10', 12' and 4'x10, 12' in the Quick-Ship line. Missoula also offers 006 Black in 3/4" 5'x8'.



DURAMINE QUICK SHIP - AVAILABLE CORES

SUBSTRATE	DILLARD	MISSOULA	SIMSBORO
1/4 4x8 MDF	Available	Available	Available
3/4 4x8 MDF	Available	Available	Available
1/2 4x8 UltraBlend®	Available		Available
1/2 4x8 UltraBlend® Plus	Available	Available	
1/2 5x8 UltraBlend®			Available
5/8 4x8 UltraBlend®	Available		Available
5/8 4x8 UltraBlend® Plus	Available	Available	
5/8 4x8 UltraBlend® Lite			Available
5/8 5x8 UltraBlend®			Available
5/8 5x8 UltraBlend® Lite			Available
3/4 4x8 UltraBlend®	Available		Available
3/4 4x8 UltraBlend® Plus	Available	Available	
3/4 4x8 UltraBlend® Lite			Available
3/4 4x10 UltraBlend® Plus	Available 291 white 2S only	Available 291 white 2S only	
3/4 4x12 UltraBlend® Plus	Available 291 white 2S only	Available 291 white 2S only	
3/4 5x8 UltraBlend®			Available
3/4 5x8 UltraBlend® Lite			Available
3/4 5x8 UltraBlend® Plus	Available 291 white 2S only	Available 291 white 2S only	
3/4 5x9 UltraBlend®			Available 291 white only
3/4 5x9 UltraBlend® Light			Available 291 white only
3/4 5x10 UltraBlend® Plus	Available 291 white 2S only	Available 291 white 2S only	
3/4 5x12 UltraBlend® Plus	Available 291 white 2S only	Available 291 white 2S only	
1 4x8 UltraBlend®			Available
1 4x8 UltraBlend® Plus	Available	Available	
1 5x8 UltraBlend®			Available

Other Substrate Core Grades can be substituted based on mill availability. Check with your sales associate.

SUBSTRATE/ CORE OPTIONS

Duramine TFL panels are available on the most diverse line of composite wood substrates, utilizing the most frequently specified brands available on the market today. If your project requires moisture resistance, ultra-low emitting or no-added formaldehyde, flame retardant, recycled, FSC® certified, you can select from a number of options in our complex line of products.





TECHNICAL INFORMATION / WORKING WITH DURAMINE

PRODUCT DESCRIPTION

Roseburg Duramine Thermally Fused Laminate (TFL) panels consist of melamine resin-saturated decorative papers that are thermally fused under heat and pressure to a substrate of any number of composite wood panels. Each substrate panel offers its own unique set of features and benefits that are designed and engineered for specific applications. The lamination process permanently bonds the paper to the substrate, therefore there is no glue line to delaminate.

BENEFITS

- No delamination or "peel back"
- No glue or pressing equipment required
- No solvent emission from drying glue
- No disposal of hazardous chemicals
- No labor required to lay-up high pressure laminates
- Less expensive than HPL
- Less downgrade through fabrication
- Hundreds of design options to meet any design style

PANEL DESIGN OPTIONS

Choose from among the 38 Quick Ship design options, numerous Made To Order designs from Wilsonart, Arclin and BMK, or allow us to create a Custom design exclusively for you from a wide range of decor printers. Then, choose from a two-sided format with your selected design on both sides of the panel, or a one-sided format with a design on one side and white or balancing backer sheet on the back side. Additionally we can provide a paintable and glueable backer for panels that will subsequently be laminated with HPL or other surface materials.

FABRICATION STANDARDS

Cabinets constructed with Duramine panels will conform to the relevant sections of standards set by the Woodwork Institute (WI) and American Woodwork Institute (AWI) Standards for exposed and semi-exposed surfaces as well as the Kitchen Cabinet Manufacturers (KCMA) ANSI A161.1 Standard.



HANDLING

Each bundle (unit) of Duramine includes a cover sheet, bottom board, stickers, banding, and ticket information.

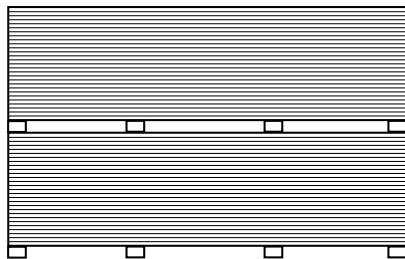
- Cover Sheet – A heavyweight cardboard cover sheet to provide protection during material handling and transportation.
- Dunnage – A protective bottom board to prevent damage from forklifts and to provide additional support for thin panels, to prevent sag between stickers.
- Stickers – Act as feet for each bundle to help with handling and stacking. Also keeps the material away from ground moisture and allows air to circulate around the product.
- Banding – Holds the unit together and keeps the stickers and cover sheet in place.
- Ticket/Tag– This identifies each unit with a discrete number, allowing the material to be tied to all manufacturing and control records. This provides complete traceability back to all raw materials used to produce the bundle. This is important for verifying regulatory compliance. Each ticket also clearly identifies the face and back paper codes, substrate type, panel dimensions and customer-requested information.

STORAGE

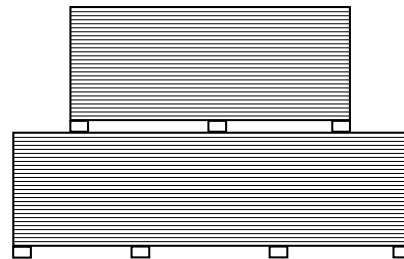
To achieve the best performance from your panels, always follow these material handling and storage practices:

- Never store Duramine panels outside or in close proximity to doors.
- Make sure Duramine panels are stored in a horizontal position, off the floor, and on a sufficient number of evenly spaced stringers/stickers of equal thickness. This gives a uniform distribution of weight, making handling easier and preventing warping. The figures below show examples of correct and incorrect stacking of Duramine bundles:

Correct



Incorrect



- Limit any stack to a height of five bundles. Never put bundles of different sizes in the same stack (i.e. 5' x 8' on top of 5' x 9'). Runners should always be in alignment.
- Protect unfinished edges from contact with water to prevent swelling of the substrate.
- Optimum temperatures for storage are between 60-90°F (16-32°C) with a relative humidity of 40-60%.
- Allow panels to acclimate in these conditions for 48 to 72 hours before fabrication.
- Contaminants can create problems for the finish of your panels. To help prevent the impact of contaminants, isolate storage areas from production lines.

CLEANING, CARE, AND MAINTENANCE

Duramine panels can be cleaned after fabrication with mineral spirits or contact adhesive solvent. However, the continued use of solvent cleaners is not recommended.

Never use acidic or alkaline cleaners, abrasive cleaners, or bleach. Duramine panels should be cleaned with mild soap and warm water or a mild household cleaner like Formula 409®.

DRILLING, MACHINING, AND CUTTING

Drilling: Duramine panels should be drilled with carbide-tipped bits. As with saw blades, there are specific bit designs for your application. Each bit is different in configuration and your needs can be determined by a tooling professional.

A special through-boring bit should be used for that particular application. A backing board should also be used for through-boring to limit chip out on the exit side of the panel.

Machining with a saw: Because the substrate is surfaced with decorative material before fabrication, the sawing process is critical to avoid chipping or burning. Fabricators can encounter a chipping problem, especially when converting their operation from the use of solid wood or high pressure laminate to thermally fused laminate panels. Therefore, diamond or carbide-tipped tools should be used and should always be kept sharp. Dull tools not only cause chipping but burning problems as well.

Heat build-up is a major cause of tool wear and poor quality cutting. Geometry, size, and turning speed of the saw blade, as well as the speed of feeding, and the removal of material with proper air handling systems are all important to minimize heat build-up.

Heat build-up is also minimized by:

- Good tool design
- Effective cooling during operation
- Scheduled tool changes and cleaning of the tool holder or collet
- An efficient dust-removal system

Duramine can be cut with many different types and configurations of saw blades. The correct setup for your equipment can be established by both the manufacturer of your equipment and your tooling supplier. Listed below are some of the basic blades that are used for cutting composite boards with thermally fused laminates. All modern panel cutting equipment with scoring units are engineered with specific cutting tool designs actually made for the application of sizing Duramine panels into a finished size.

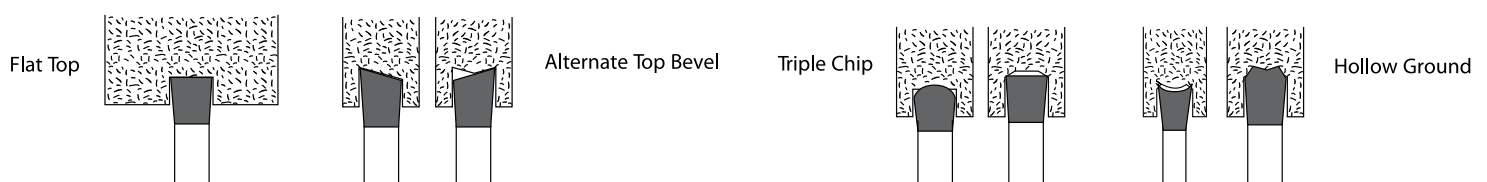
Carbide or Diamond: These two saw blade tips are the only recommended products for cutting Duramine. Diamond typically offers much longer tool life than carbide.

Scoring: There are two different types of scoring saws that are used to prevent chip out on the bottom panels: conical and split. Scoring saws, as with the main cutting blade, are designed for specific equipment types and your end-product requirements. The best source to determine which type is correct for you is your tooling and equipment professional.

Important suggestions for a clean cut:

1. Use carbide- or diamond-tipped tools.
2. Use a scoring blade.
3. Use clean, well-aligned, and correctly sharpened tools.
4. Make sure the main blade and scoring saw are perfectly aligned.
5. Make sure the collars are well-adjusted and clean.
6. Make sure the panel is held firmly in place – avoid vibrations.
7. Avoid a projection of the blade that is too high – a blade projection of about 12 mm or ½ inch is sufficient.
8. Handle cutting tools with the utmost care. Damaged tools will not give the best results and could be dangerous to use.
9. Replace cutting tools regularly to minimize chipping.
10. Consult with your supplier of cutting equipment and tools for answers to questions regarding the speed of cutting and feed, as well as cutting angle.
11. Ensure proper dust collections.
12. Ensure the blade and/or slide carriage is kept clean and travels smoothly.

Typical main blade configurations used with score are:



CNC ROUTING

For nested, through cuts, the use of solid carbide ½" two- or three-flute compression bit between 10,000-18,000 RPMs perform better than replaceable insert bits. The feed rate is determined by the chip loading. Your tool manufacturer is a good resource for helping to determine feed rate vs. chip loading. For best results with nested cuts, cut each piece out individually. This will minimize chip out associated with the up-cut portion of the compression bit as it enters the panel. Cut travel should be counter clockwise for right hand machines.

The use of a ramp in program will help prevent bits from over-heating. The ramp in program allows the bit to start cutting at a shallow depth increasing in depth until desired depth is reached. This helps minimize the heat build common with plunge routing.

For dado cuts, a two- or three-flute down spiral bit will produce clean edges. Depending on bit diameter, multiple passes may be needed to achieve the desired dado width. Using a narrower bit with multiple passes can save time in tool changes and allows for faster cuts due to smaller diameter bits. The same is true of compression bits.

For hole boring, use brad point bits.

With CNC routers, the work piece needs to be securely fastened to prevent movement or work piece vibration. Adequate vacuum should be applied to prevent piece movement or vibration.

Woodweb.com is a useful source of information for the CNC user.

FASTENING SYSTEMS / SCREWS

The screw fastening systems designed especially for particleboard are the strongest. These fasteners have straight shanks with a smaller root diameter and wider-spaced threads than wood screws. Some things to keep in mind:

- Always predrill a pilot hole before inserting screws.
- The diameter of the pilot hole should be 85-90 percent of the diameter of the screw root diameter.
- Avoid over-tightening
- The screw holding increases more with length than with the root diameter.

RTA FITTINGS

Some systems, using threaded steel or nylon inserts, are designed for repeated screwing and unscrewing to provide ready-to-assemble (RTA) capability for case goods, store fixtures, furniture, and cabinetry products.

EDGE TREATMENTS

Duramine panels can be edged with a wide variety of edge treatments including:

- PVC or ABS edgebanding
- Polyester or melamine for straight edge or soft-forming applications
- Solid wood
- High-pressure laminates (HPL)
- Veneer
- Plastic and metal T-moldings



TROUBLESHOOTING

Problem	Possible Cause	Possible Remedy
Edge chipping and burning	Saw blade type/design	A blade with a hollow, ground-tooth face burning with a negative rake or an alternate face and top bevel design will achieve best results on most standard saws (single blade) when cutting without a scoring blade.
	Machining of "hot" panels	Allow stacks to come to ambient temperature.
	Dull tooling	Check tooling setup, geometry of tooling, and machine feeding speed. Also check to make sure that tooling type is correct for material to be cut.
	Alignment of saw blades	Saw blade should be perfectly parallel to the direction of the cut. In most operations, it should be vertical to the panel surface.
	Trueness of blade rotation	Make sure blade is not warped or damaged in any way. Check for dirt or dust between blade and blade clamps.
	Cutting depth	Set the blade depth so that it comes through the panel by about 1/2 tooth to provide a low-approach angle and greater shearing action as the teeth enter the panel. Adjust to minimum chipping and maintain sawdust removal rate.
	Feed rate of saw	Check for appropriate blade diameter and design, number of teeth, and arbor RPM.
	Vibration of panel	Panel must be held solidly by clamping device or hold-down feed rolls. Blade dampers are recommended to reduce blade vibration. Throat plate must be tight to the blade.
Warpage full-size panels	Stack stringer/stickers are different thicknesses	Keep stringer thickness uniform.
	Panel stacks do not have stringer locations uniformly placed	Position stack stringers uniformly from panel bundle to panel bundle.
	Dissimilar humidity exposure between the faces of a panel in a stack	Using an appropriate technique, expose both panel surfaces to the same humidity.
	Bundles not stacked evenly on top of one another	Reposition bundles.
	Panels stored on edge	Store flat with 3-6 evenly-spaced stringers, depending on panel length.
Dimensional tolerance stability (camber banana cut, oil-canning)	Cutting hot board	Allow panels to condition to ambient temperature and humidity.
	Camber occurring	Replace tooling and reduce infeed speed. Cut narrower pieces from center of panels, wider pieces toward panel edges. Adjust the guide rail to be parallel with the saw blade.
	Saw blade pinches	Precondition panels. Adjust guide rail and push guide.
Fastening problems	Pilot hole too large	Drill pilot hole 90-100% of shank diameter.
	Incorrect fastener type	Avoid standard wood screws, increase flange to diameter ratio.
	Incorrect application of screw	Change fastener type.
Panel split	Screws too close to edge	Redesign 75 mm from corner if in edge; 25 mm from corner if in face. Do not use "factory edge" 1/2" trim all around.



HOW TO SPECIFY

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Acceptable Manufacturer: Roseburg, which is located at:
3660 Gateway St.; Springfield, OR 97477;
Toll Free Tel: 800-245-1115; Tel: 541-679-3311; Fax: 541-679-2543; www.roseburg.com

2.2 THERMALLY FUSED LAMINATE PANELS

A. Basis of Design: Duramine or Duramine FR, thermally fused laminate as manufactured and supplied by Roseburg Forest Products Company.

1. Standard core material laminated with Melamine saturated decorative paper layers thermally fused to both core face surfaces with heat and pressure.

- a. UltraBlend – Particleboard
- b. SkyBlend – Particleboard - ULEF
- c. Medite – Medium Density Fiberboard Grade 130
- d. Arreis – NAF Medium Density Fiberboard – Grade 130
- e. Medex – NAF Medium Density Fiberboard – Grade 155 – MR-50
- f. Medite FR - NAF Medium Density Fiberboard – Grade 130 – Class 1 Fire Rating

- g. Medite II - NAF Medium Density Fiberboard – Grade 155
- h. Arreis Ultra - NAF Medium Density Fiberboard - Grade 130 - Door Grade.
- i. Medite Ultra - Medium Density Fiberboard – Grade 155 – Door Grade
- j. SkyPly CFC Core – APA Grade plywood.

2. Textured Finishes & Colors:

- a. Texture for Face: Suede finish.
- b. Color and Pattern: _____.
- c. Color and Pattern: As indicated on drawings.
- d. Color and Pattern: As selected from Roseburg's full range of available selections.

3 PART SPECS ONLINE:



<https://www.arcata.com/downloads/search-43520-roseburg/spec/06410ros/174992>



<https://www.productmasterspec.com/Profile/Roseburg/64643>



<https://www.roseburg.com/ProductGroup/duramine/>

LEED® v4 CREDITS FOR COMPOSITE PRODUCTS

Recycled Wood	Materials & Resources Building Product Disclosure & Optimization – Sourcing of Raw Materials (one criteria option for responsible extraction)
Certified Wood	Materials & Resources Building Product Disclosure & Optimization – Sourcing of Raw Materials (one criteria option for responsible extraction)
Low Emitting Material	Indoor Environmental Quality Low-emitting materials - Composite Wood Evaluation
EPD's	Materials & Resources Building Product Disclosure & Optimization – Environmental Product Declarations EPD's

PROJECT RÉSUMÉ

Roseburg Duramine has been specified throughout North America in a wide variety of building projects.

RETAIL

- Walmart Neighborhood Markets and Supercenters – U.S.
- Sam's Club – U.S.
- Stone Hill Shopping Center – Pflugerville, TX

HOSPITALITY

- Wai Kai at Hoakalei - Ewa Beach, HI
- Muckleshoot Casino Resort – Auburn, WA

EDUCATION

- Sierra Grande School PK-12 – Blanca, CO
- New Belmont Middle School – Belmont, NC
- D'Iberville K-8 Elementary-Middle School – D'Iberville, MS
- Evergreen Public Schools – Vancouver, WA
- Germantown Elementary School – Germantown, TN
- Caprock High School - Worcester, MA
- North Park Elementary School – Minneapolis, MN
- St. Louis Park Middle School Remodel and Addition – Minneapolis, MN
- Hayesville Elementary – Salem, OR
- North Albany Middle School and Greater Albany Public Schools Modernizations – Albany, OR
- Manning Center Training Facilities at University of Mississippi
- Roseville High School Administration Modernization – Roseville, CA
- Hall High School – Spring Valley, IL
- Tradewind Elementary School – Worcester, MA
- Will Rogers Elementary School – Stillwater, OK

COMMERCIAL

- Legg Mason Tower at Harbor East – Baltimore, MD

CIVIC

- Kauai Community Correctional Center – Lihue, HI
- EMS and Fire Station – Brownsville, TN
- Rural Fire Protection District Fire Station Projects – Rickreall, OR
- Hawaii Community Correctional Center – Hilo, HI
- Lamoille Fire Station – Elko, NV

RESIDENTIAL/MULTI-FAMILY/ASSISTED LIVING

- Villas at Stoney Point – Cedar Rapids, IA
- Supportive Housing (60 units) – Portland, OR
- Multi-family Renovation (31 units) – Cambridge, MA

OTHER

- Greeley Country Club Renovation – Greeley, CO
- Summit Club Renovations – Tulsa, OK
- Natchez Trace State Forest Work Center – Lexington, TN
- Wilson County Animal Shelter – Wilson, NC
- Ames Water Treatment Plant – Ames, IA
- Harbor Square Athletic Club – Edmonds, W



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