

GETTING TREATED RIGHT

ADVANTAGE PLUS™

LOSP PRESSURE TREATED RADIATA PINE



Product Sales and
Technical Manual



30 Year
Transferable
Warranty



PRIMED SIDING | FASCIA | TRIM BOARDS | EXTERIOR MOULDING

Kelleher Advantage Plus™

Advantage Plus™ products are a fully treated, primed fingerjointed Pine product that is strong, versatile, easy to use. Made from a renewable resource, these products withstand a wide range of climates and come with a 30 year transferable warranty. The LOSP treatment process makes Advantage Plus safer to use and handle than other treated products. Advantage Plus carries a variety of Green building certifications. Advantage Plus products are paint ready with two factory applied primer coatings, durable, safe for interior and exterior use, termite resistant and defect free. Specially formulated End Sealer protects wood where cuts and notches are made. Finish with 2 coats of acrylic latex paint.

Advantage Plus™ sidings are available in a variety of popular profiles and sizes. Installation procedures are similar to other siding products except for cut end sealing procedures described later in this manual. Advantage Plus™ Trim boards are S3S (surfaced three sides) and E2E (eased two edges) for a superb look. Trim boards are available 1x, 5/4x and 2x sizes. Use for general trim, Fascia, and most above ground - non structural applications. Advantage Plus exterior grade mouldings are available in both decorative and utility profiles.



Advantage Plus Product Features



Insect and Rot Resistant

Pressure treated with EPA approved chemicals to prevent rot, decay and termite infestation.



Renewable Resource

All lumber used in Advantage Plus is from sustainable plantation forests.



Fingerjoint Strength

Kiln Dried lumber with knots and imperfections removed then fingerjointed for a smooth stable substrate.



EPA (USA) Approved

Chemicals used to treat Advantage Plus are EPA approved. Safe to use both indoors or out.



30 Year Warranty

30 year limited warranty against rot and termite infestation is fully transferrable to new owners.



Non Corrosive

Chemicals used to treat Advantage Plus are non-corrosive to nails and other type of fasteners.



Double Coat

2 coats of factory applied primer for a smooth paint ready surface. Apply 2 coats of acrylic latex for final appearance and protection.



Rating

UC3A - Treatment process is tested by third party industry experts for above ground exterior use.

About the Factory Applied Primer:

The factory applied primer is NOT WATER RESISTANT. It is a two coat alkyd based primer that is designed to breath, which works well with the pressure treatment process. The primer is intended only for a better adhesion final application of the 2 coat acrylic latex paint. This 2 coat "final" process is your SEALER against moisture absorption.

Advantage Plus is a softwood. It is like redwood or cedar in most characteristics but does not have natural resistance to decay. The pressure treatment process is what gives the decay resistance and is what separates this products from many other products that claim to be treated (see the LOSP Treatment Process below).

The moisture content for Advantage Plus averages 12%. Advantage Plus should be kept dry until it has been installed, then all end cuts "End Sealed" and nail holes need to be sealed then FILLED and sealed again, final coated, then the Adv+ installation is complete.

It is important to keep water from entering the wood because it can cause swelling and possible grain raise. The water will not cause preservatives to leech out. The factory warranty remains intact. If Advantage Plus gets wet, let the wood dry out and it will return to original size. You may need to lightly sand raised grain, then prime and paint to achieve the original factory finish/appearance.

The LOSP Treatment Process:

The natural wood substrate is 100% Radiata Pine sourced from sustainable plantation forests. The wood is kiln dried and then has all knots, pitch pockets and other defects removed. The defect free lumber is then fingerjointed and edge glued with high quality exterior grade adhesives.

The raw wood is then treated using an LOSP treatment process. Unlike some treatment processes, this system does not puncture the wood and leave unsightly incisor marks. LOSP stands for Light Organic Solvent Preservative. The process involves three preservatives that are carried into the wood using an organic solvent and vacuum pressure treating system. The preservatives are not soluble in water so they will not leech out of the wood due to moisture. The three preservatives are divided into two functions:

Permethrin is the component that prevents termite infestation. It is EPA approved and is a component of most household termite sprays. Propiconazole and Tebuconazole are the components that prevent fungal growth (AKA dry rot). These chemicals are EPA approved and are commonly used in agriculture to prevent fungal growth on food crops. The treatment process also carries paraffin wax and hydrocarbon resin into the wood to enhance water repellent characteristics.

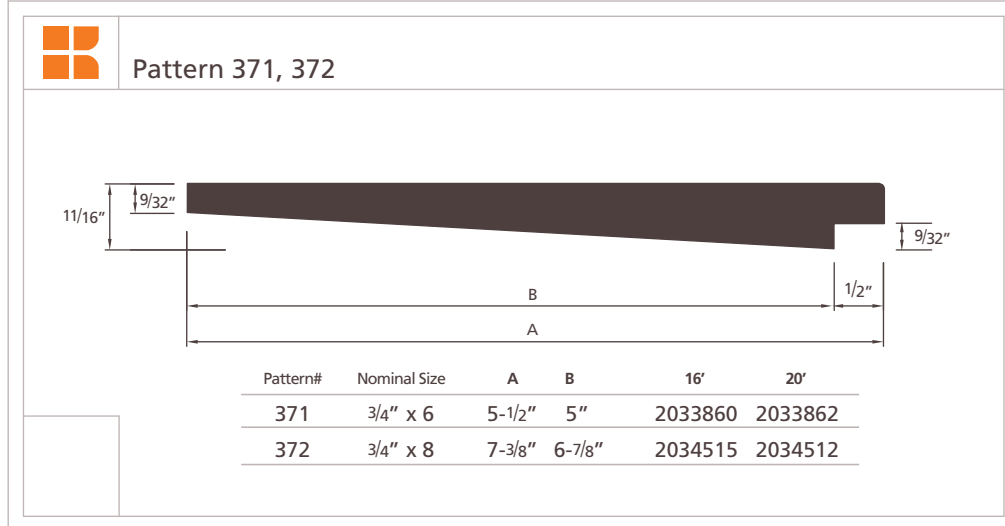
Advantage Plus meets requirements for H-3 (Chile and New Zealand) and UC-3A and UC-3B (USA) third party rating systems. The "H" refers to Hazard Level, and the UC refers to Use Category. The UC3-B rating is the AWPA (American Wood Preserving Association) category for above ground, exterior use. H-3 is an identical rating. The associations involved are considered the experts in the field of treated lumber. Their techniques offer the most reliable service and performance.

30-Year Transferable Warranty

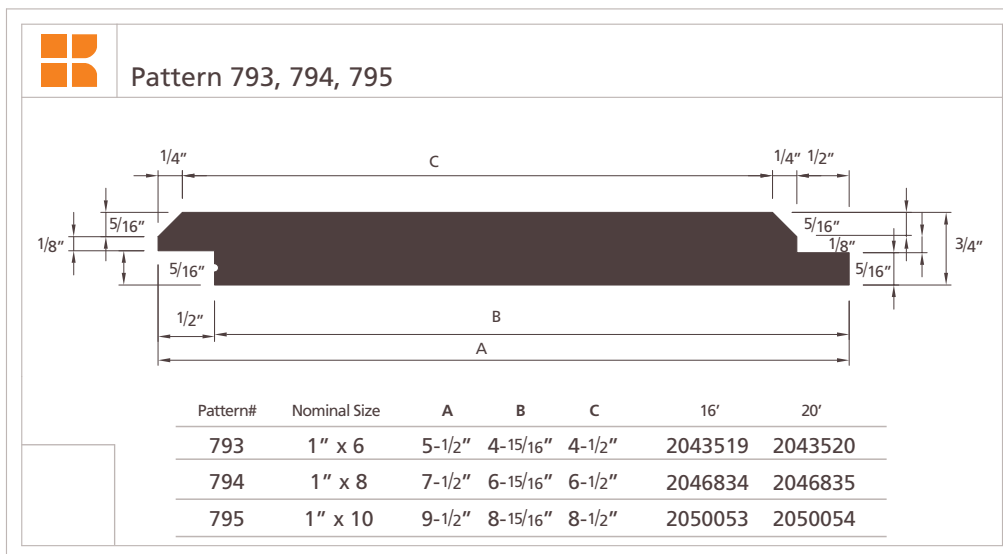
Advantage Plus is covered by a 30 year limited warranty against termites and fungal decay. This warranty guarantees replacement product will be provided if the original product becomes unserviceable due to fungal or termite attack during the warranty period. Replacement product will be supplied at the original store where purchased or the closest alternative if the original location is not available. This warranty is transferable to future owners. Keep copies of original invoices or receipts and some end tags from the lumber for confirmation against this warranty.

***Note:** This warranty is subject to following proper building standards and codes, and following the recommended installation and maintenance instructions for Advantage Plus treated wood. Deterioration due to the inherent physical properties of wood such as shrinking, swelling, warping, twisting or resin bleed are not covered. To file a claim contact the store where originally purchased, or if unavailable, the nearest Advantage Plus distributor. You will be asked to fill out a claim form, and provide your original receipt and photographs. A representative may want to review the product in question.*

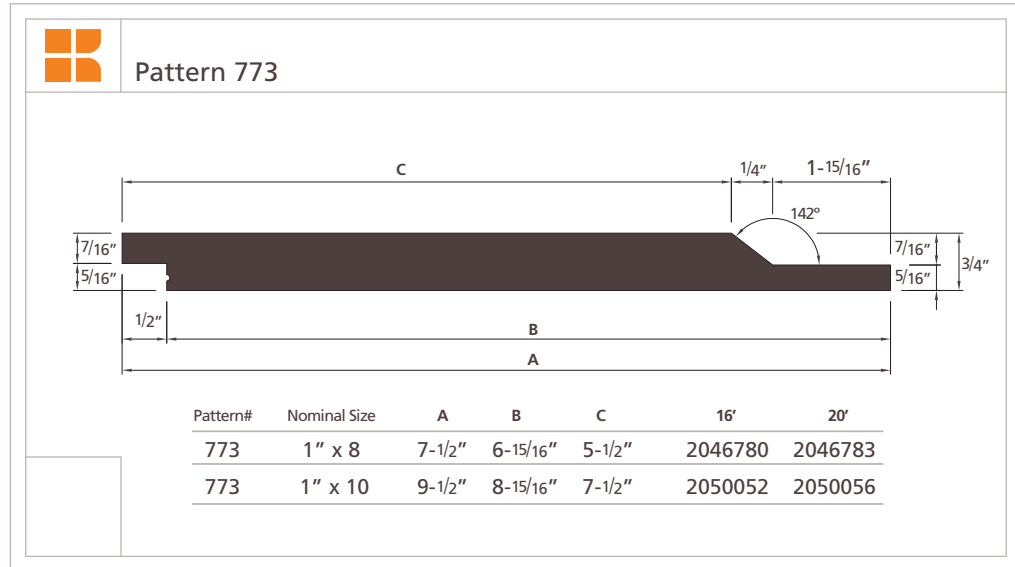
RAB Smooth Face/Resawn Back



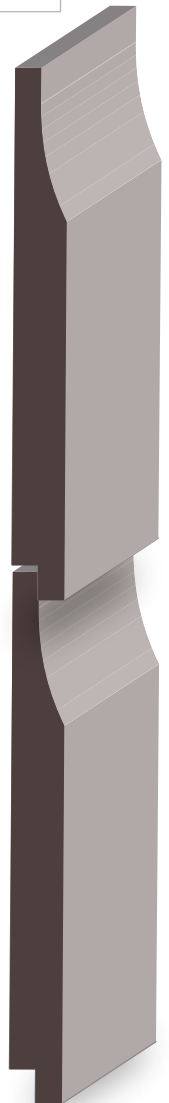
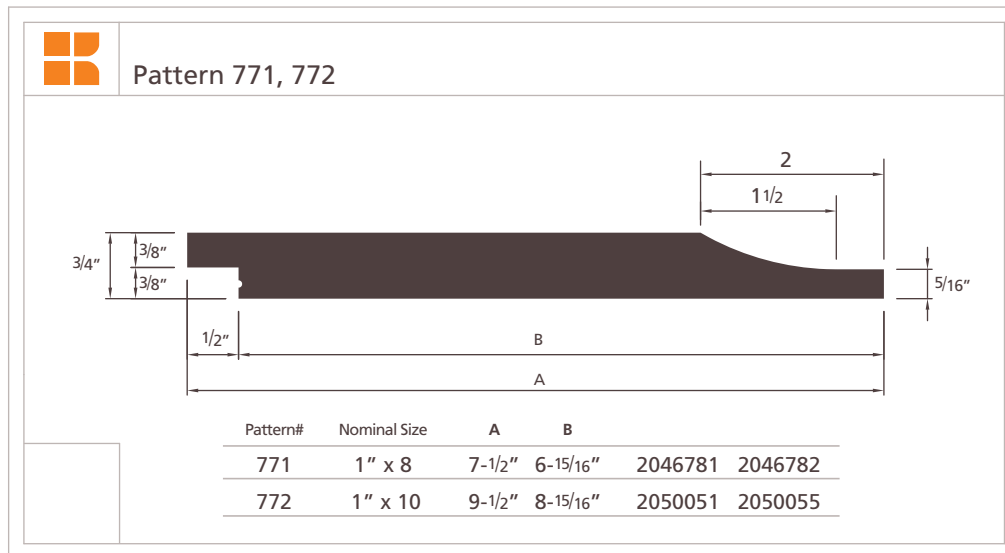
V-Rustic Siding



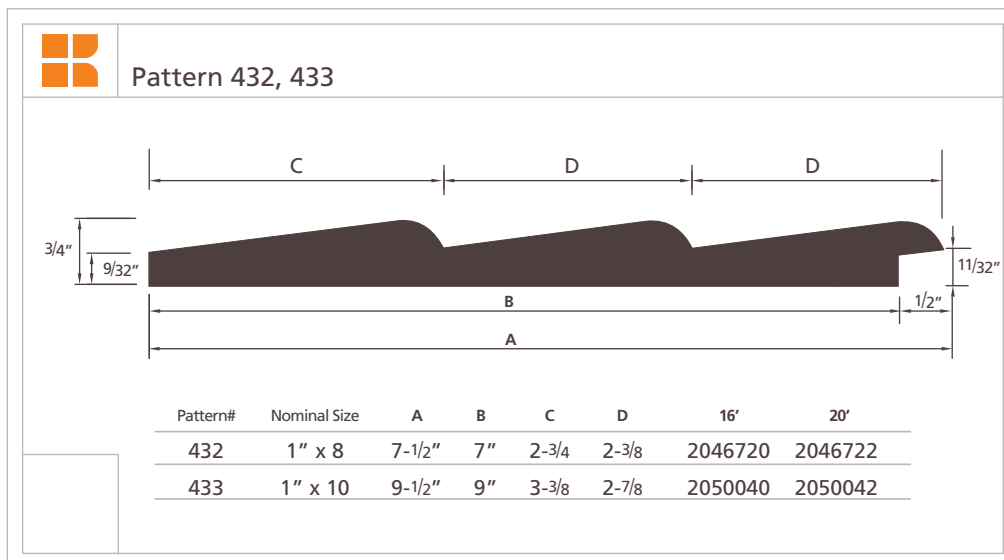
Bevel Channel



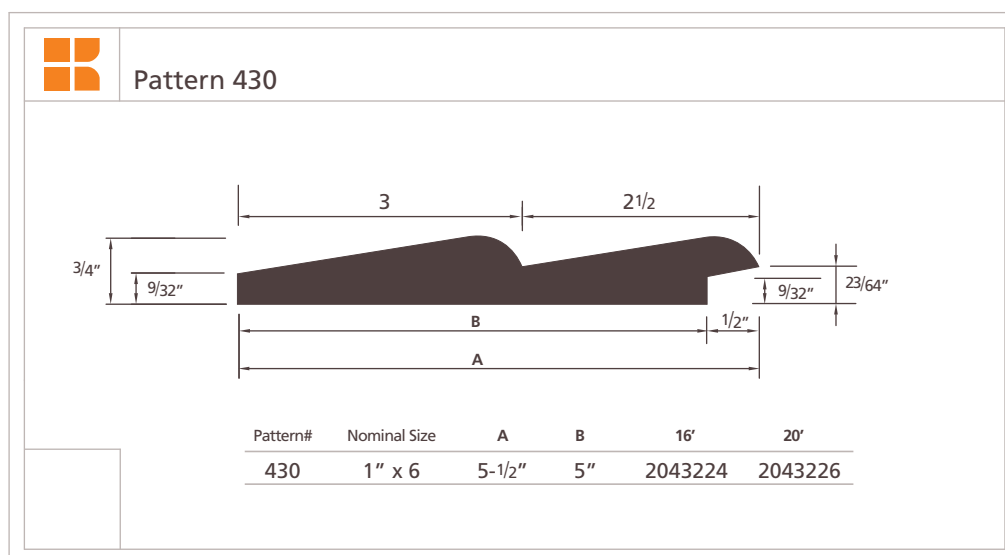
Cove Siding



3 Lap Siding



2 Lap Siding



Tongue & Groove Beaded Siding/Ceiling Mould



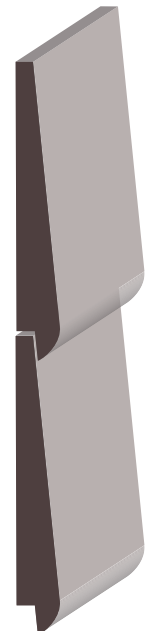
Tongue & Groove

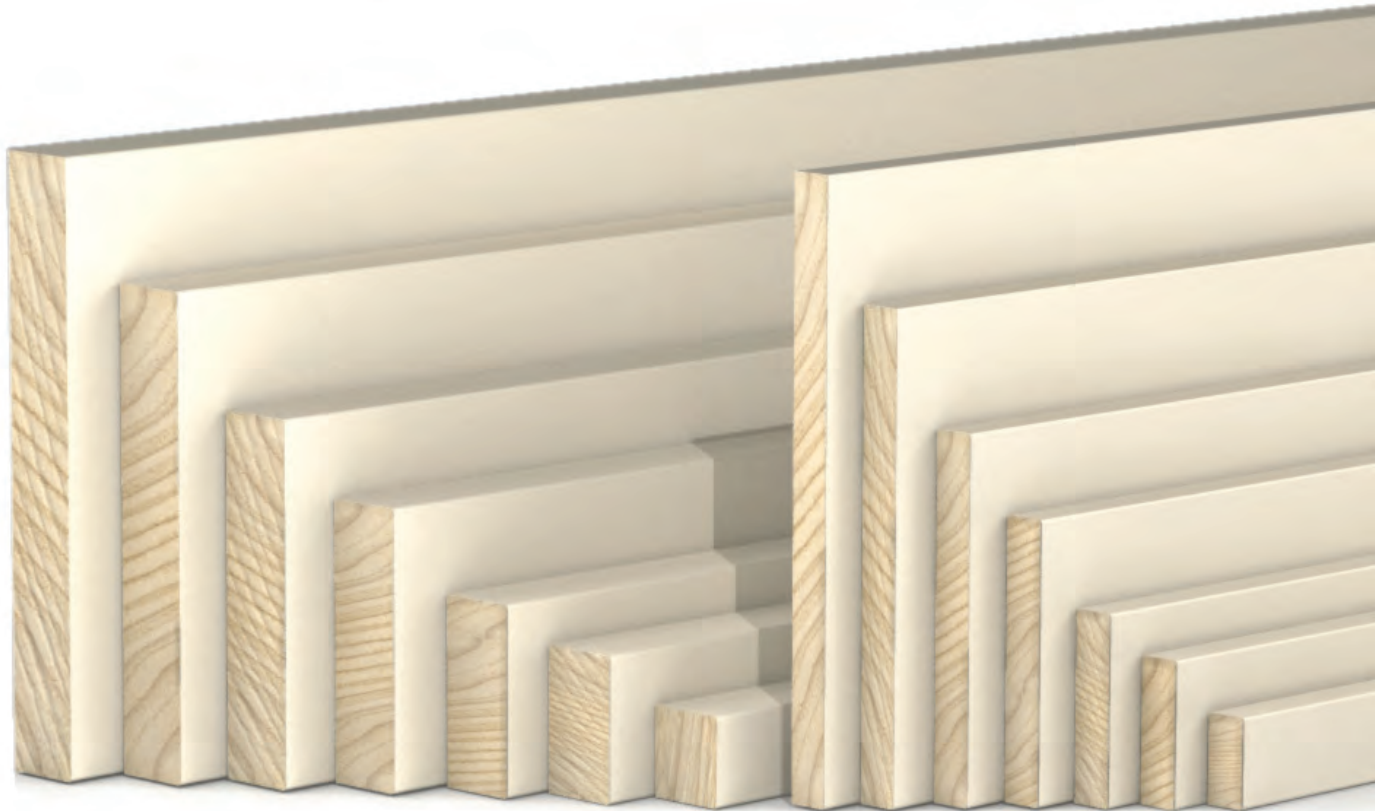
Nominal Size	A	B	C	D	16'	20'
5/8" x 4	3-5/16"	3-1/8"	9/16"	3/16"	2029053	N/A
1" x 6	5-13/32"	5-1/16"	11/16"	1/4"	2043220	N/A

Novelty Siding

Pattern 400

Pattern#	Nominal Size	A	B	16'	20'
400	1/2" x 4	3-1/2"	3"	2018131	2018132





Primed Boards

Primed boards are S3S (surfaced three sides) and E2E (eased two edges) for a superb look. Use for general trim, Fascia, and most above ground and non-structural applications. Finish with two coats of quality 100% acrylic paint.



Use 1x and 2x board sizes for durable door and window casings, and step risers.

Nominal Size	16'	20'
1 x 2	2037416	2037418
1 x 3	2039348	2039350
1 x 4	2040433	2040434
1 x 6	2043522	2043523
1 x 8	2046785	2046786
1 x 10	2050049	2050050
1 x 12	2053115	2053116
5/4 x 4	2067450	2067454
5/4 x 6	2067451	2067455
5/4 x 8	2067452	2067456
2 x 2	2073350	2073351
2 x 4	2073355	2073356
2 x 6	2076335	2076336
2 x 8	2079336	2079337
2 x 10	2082347	2082348
2 x 12	2085295	2085296
2 x 14	2087263	2087265

Usage Applications



Consider using 1x and 2x board sizes to add detail to fascias and window casing treatments.



Trim boards complement other architectural details on this Craftsman/bungalow style house design.



Blend siding with other exterior treatments to create a dynamic effect.



Exterior grade mouldings adorn and protect period homes.

Advantage Plus LOSP Treated Exterior Grade Moulding

Shown 50% Actual Size

Advantage Plus Exterior grade mouldings have the same features and benefits as Advantage Plus siding and trim boards. LOSP (Light organic solvent preservatives) are used to treat the wood making them safer to use and handle than other treated products. Finish with two coats of quality 100% acrylic paint.



30 Year
Warranty



Insect and Rot
Resistant



Fingerjoint
Strength



Double Coat



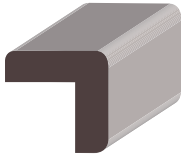
Non
Corrosive



Renewable
Resource



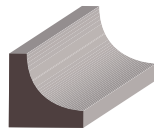
EPA (USA)
Approved



Corner Guard

1-1/2 x 1-1/2

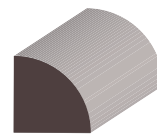
EX-604PR TREATED PRIMED PINE



Cove

3/4 x 3/4

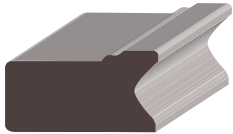
EX-606PR TREATED PRIMED PINE



Quarter Round

3/4 x 3/4

EX-614PR TREATED PRIMED PINE



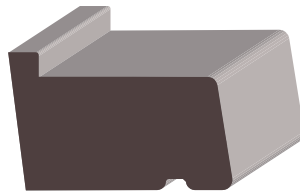
Stucco Mould

13/16 x 1-1/2

EX-618PR TREATED PRIMED PINE

1 x 2-1/2

EX-629PR TREATED PRIMED PINE



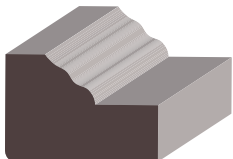
Watertable w/Lip

1-5/16 x 1-7/8

EX-630PR TREATED PRIMED PINE

1-7/16 x 3-1/4

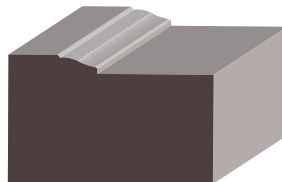
EX634PR TREATED PRIMED PINE



Brick Mould

1-1/16 x 1-3/8

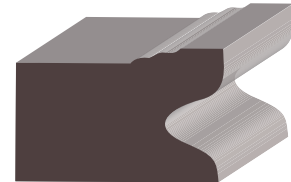
EX-619PR TREATED PRIMED PINE



Brick Mould

1-1/4 x 2

EX-381PR TREATED PRIMED PINE



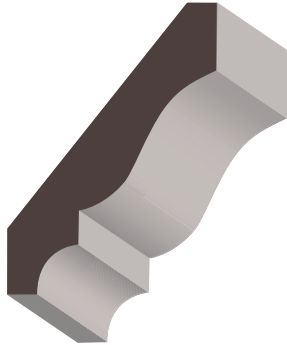
Brick Mould w/stucco key

1-1/4 x 2

EX-381PRKEY TREATED PRIMED PINE

ADVANTAGE PLUS™

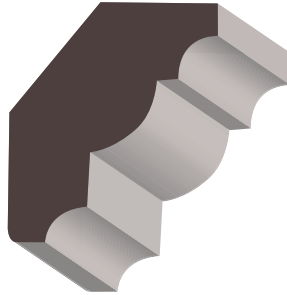
LOSP PRESSURE TREATED RADIATA PINE



Crown

5/8 x 3-5/8

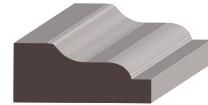
EX-286PR TREATED PRIMED PINE



Gutter Mould

1-3/8 x 3-5/16

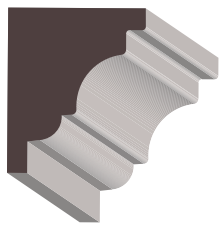
EX-638PR TREATED PRIMED PINE



Shingle Mould

11/16 x 1-5/8

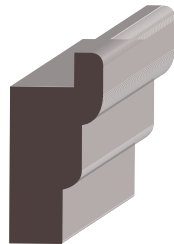
EX-616PR TREATED PRIMED PINE



Pediment Crown

1-1/4 x 1-1/2

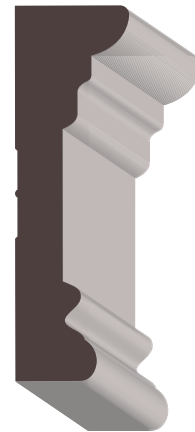
EX-607PR TREATED PRIMED PINE



3-Step Stucco

11/16 x 1-15/16

EX-627PR TREATED PRIMED PINE



Tahoe Architrave

1-3/16 x 4-1/4

EX-1400PR TREATED PRIMED PINE



Reversible Sill

2 x 8

EX-640PR TREATED PRIMED PINE

Installation and Finishing Information

Installation

Product should be kept off the ground and protected from the elements in a dry environment with a breathable waterproof cover that allows air to circulate. Material should be given time to acclimate to its surrounding ambient moisture level. To prevent product shrinkage on the home, it should not be installed with a moisture reading above 18%. Siding should be installed with a minimum of 8" off the ground and ends and cut edges sealed to prevent moisture uptake.



Sealing and Priming

When pre-primed material is cut during field application, the cut end must be field primed prior to installation. This frequently overlooked step is very important since moisture moves much more rapidly through the end-grain than the face of the wood. **Nail holes should also be filled and preserved immediately after installation to prevent the uptake of moisture.**

Factory pre-primed surfaces should be painted within 30 days of installation, or dirt, moisture and chalking may prevent bonding and shorten the life of the paint film. If the material is allowed to weather for an extended time, clean and prime all surfaces again prior to topcoat application.



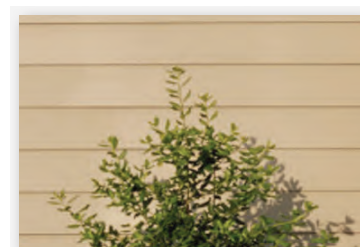
Painting Advantage Plus

Painting provides the best protection for kiln-dried Advantage Plus siding, trim boards and moulding. Two coats of high quality, 100% acrylic latex paint are recommended, thus stretching and shrinking with the wood and allowing some passage of water vapor. These characteristics prevent the cracking and blistering that sometimes occurs with an oil or alkyd resin based topcoat. Primer is not intended to be used as a finish coat. Finish coats must be applied within 30 days of installation. To avoid future separation between paint coats, the second topcoat should be applied within two weeks of the first coat. If longer than 30 days, re-prime with a high-quality exterior grade primer.

Finish coats should provide a minimum thickness of 4 dry mils (2 dry mils per coat). Finish coats or topcoats can be applied to broad surfaces by roller or spray, but brush application is the superior application method, especially for the first coat. Do not use low quality oil or alkyd paints, vinyl acetate (PVA), vinyl acrylic or vinyl acetate acrylic co-polymer paints. Do not paint in wet or cold conditions. We do not recommend finish coating below 50° F. Always follow the paint manufacturer's application guidelines when top coating. **All surface and End Cuts must be primed again and final coated in place if they are exposed to weather.**

When choosing the finish coat color, it is important to note the benefits of using a lighter color or shade of paint. Lighter colors reflect more heat than darker colors. Dark colors absorb heat, which is another enemy of wood. Heat dries out wood and can cause shrinkage and warping. Using a light color can extend the life of sidings and fascia and is highly recommended.

Consider the light and shading effects of different sidings.



Prevent Moisture Problems Before You Start

Most lumber and finish problems are caused by moisture. Woods shrink as they dry and swell when they absorb moisture. These dimensional changes can cause splitting, checking, buckling and nail popping. Extractive staining and finish performance problems are also caused by excessive moisture.

Most performance issues are preventable through proper handling and construction techniques. Proper wall construction includes a vapor barrier with a rating of 1 perm on the warm side of the wall. Water resistant building paper with a rating of at least 5 perms should be applied over exterior sheathing. Exterior sheathing should be plywood, waferboard or OSB. All siding should be 8" above ground level.

Storing Advantage Plus

Primed lumber should be stored off the ground in a covered building and out of the weather. For best results, let wood products reach an equilibrium with the local climate by storing them for at least fifteen days in a well-ventilated shelter.



STORAGE DOs

DO store wood in a garage or shed with adequate air circulation for best protection from the elements.

DO keep wood dry. If it can't be kept under a roof, protect it with a water proof cover. Make sure the cover is secure but loose enough to permit air circulation.

DO store wood off ground and protected from dirt, moisture, direct sunlight and extreme heat.

STORAGE DON'Ts

DON'T keep wood wrapped tightly in plastic covers. Loosen wrappers at job site to permit air circulation.

DON'T leave wood in the sun or covered in dark plastic. The dark cover will attract heat and cause excess drying.

DON'T let wood get wet or dirty. When storing lumber near the ground, place a plastic cover over soil to minimize moisture absorption causing shrinkage and swelling.

Do's and Dont's Install Tips

- **Do not expose ADV Plus to rain** until it has been painted with an acrylic latex top coat.
- **Seal all cuts** with a primer/sealer.
- **Countersink nails**, seal then fill over the top with a good exterior filler. **Do not use screws.**
- If installing sidings, **allow for a 1/8" expansion gap** to allow for seasonal expansion.
- **Choose a paint color with a light reflective value of 50 or higher.**

Additional Information

For additional information and frequently asked questions about installation, please visit our website at www.kelleher.com/FAQ

Scan QR Code to access detailed installation instructions for ADV+ boards and sidings

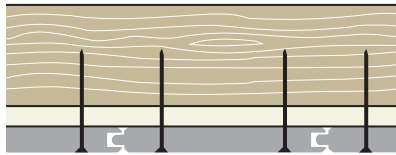


Note regarding stain blocking and finishing:

Wood is a natural product, so individual pieces vary in performance. Woods performance depends on many critical factors including: Storage and Handling, Craftsmen's skills, Exposure to weather, Structure design, and Use of other materials. While our custom 2-coat alkyd primer is formulated to control stains, some staining may occur due to the woods natural properties and site conditions. The best way to avoid extractive stains is to follow all handling and finishing instructions. Doing so will help to produce good performance under most conditions, however it will not guarantee flawless performance. No warranties, expressed or implied, are given. Due to conditions beyond our control, Advantage Plus products and merchants cannot be liable for the performance of top coats applied at the job site.

Recommended Nailing Methods

Soffit or Eaves (Overhead View)

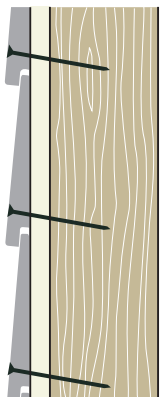


All nails should be countersunk & filled over

Horizontal Siding (SIDE VIEW)

Tongue and Groove Blind-nail 4" and 6" widths through tongue with finish nails. Use one nail per bearing. For wider patterns, face nail with two nails per bearing, as in V Shiplap method.

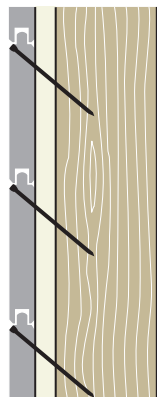
Horizontal Siding (Side View)



All nails should be countersunk & filled over

Rabbeted Bevel

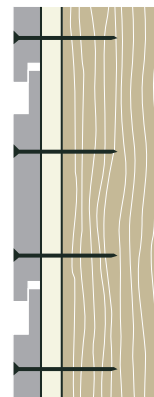
Face nail with one nail only per bearing. Place nail about 1" above lower edge of course. Position material to allow 1/8" expansion gap at rabbet joint.



All nails should be countersunk & filled over

Tongue and Groove

Blind-nail 4" and 6" widths through tongue with finish nails. Use one nail per bearing. For wider patterns, face nail with two nails per bearing, as in V Shiplap method.



Channel Shiplap

Use one nail, 1" from the lap, for 6" channel shiplap. Face nail with two nails per bearing for patterns 8" and wider. Space nails 1-1/2" from the edge of the overlap and 2" from the edge of the underlap. Position material to allow expansion clearance of 1/8". Boards should be nailed to horizontal blocking installed between studs at not more than 24" on center.

NAILING DOs

- DO** use non-corrosive nails to avoid nail stains; stainless steel or top quality, hot-dipped galvanized. **DO** use ring-shanked wood siding nails.
- DO** use properly sized nails. Shank should penetrate 1-1/2" into framing members or a combination of framing members and solid wood sheathing. If sheathing is not solid wood, longer nails are necessary.
- DO** pre-drill holes to prevent splitting when nailing mitered corners or near ends.
- DO** use water-resistant building paper with a rating of at least 5 perms.
- DO** use a wood-based sheathing.
- DO** use bevel cuts at half joints as this can minimize the appearance of gaps due to shrinkage.
- DO** spot prime trim ends prior to installation, and remember to spot prime nail locations, scuffed areas and other areas showing bare wood with a high-quality, oil-based, stain-blocking primer after installation. Paint over primed areas to seal.
- DO** remember that saw-textured surfaces perform better and hold finishes longer.

NAILING DON'Ts

- DON'T** use common iron, copper, cement-coated, electroplated or poor quality galvanized nails. These will cause stains.
- DON'T** use casing, finishing or other small-head nails, except for blind nailing Tongue & Groove. **DON'T** staple lumber. Staples do not have enough holding power.
- DON'T** use screws. They hold too tight and do not allow movement.
- DON'T** nail through tip of undercourse on lapped siding. This causes splitting.
- DON'T** nail to sheathing only. This will not hold lumber in place.

Usage and Applications

Advantage Plus™ products are well suited to a wide variety of design and usage application.



Sidings are versatile and may be used in traditional or more contemporary designs.



Sidings let you create a variety of classic home styles



Exterior trim boards and fascia are important elements in many home designs

START GETTING TREATED RIGHT TODAY BY CONTACTING US AT...

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