INSTALLING ARBOR NATURAL WOOD VENEER WALLCOVERINGS

KOROSEAL
ARBOR® WOOD

STOP! PLEASE READ BEFORE USING

If you have any questions about the proper installation of this product, please call your Arbor distributor or contact your Koroseal Interior Products sales representative before proceeding.

The installation process is critical to the aesthetic appeal and acceptance of Arbor. Surface preparation, adhesive and primer selection, environmental condition and quality workmanship are the key elements for successful installation. Arbor comes from the factory pre-finished with urethane sealer and finish.

Before installation of the Arbor order, mock-up 3 full sheets, in a specified area. While using specified primers and adhesives, have a specifier/owner review the installation and approve it for both quality of product and craftsmanship.

DO NOT PROCEED with Arbor installation without completing this mock-up. For additional instructions, see Test Area Approval section on page 3.

INSPECTION OF PRODUCT:
Please inspect for damage before signing acceptance of product.

If damage is noted, please advise freight carrier immediately when signing for the product from the freight carrier.

Examine all sheets of Arbor Wood Wallcoverings upon receipt for quality and compliance with the approved specification before storing or starting installation. Any shortage of material must be reported within three (3) days after receipt of material.

The installing contractor must verify that the correct specified species of wallcovering is present on the job site. Furthermore, the installer must also review the hanging instructions that accompany each wallcovering. If there is failure to follow the specifier's supplied wall finish schedule and material design boards, we assume NO responsibility for any incorrect hanging locations, incorrect wallcovering species numbers and species grains that are hung in the wrong direction.

STORAGE:
Arbor Wood Wallcoverings should be kept in the manufacturer's packaging until 24 to 48 hours before installation. In addition, material should be stored in a clean, dry location with low humidity and a consistent temperature range of 45 to 85 degrees Fahrenheit.

ENVIRONMENTAL CONDITIONS:
Areas to receive Arbor should be environmentally controlled by the permanent HVAC system. Maintain a temperature range of

65 to 85 degrees Fahrenheit, with no less than 25-30% relative humidity (based on AWI Quality Standards Section 1700-T-19 for your region) and no more than 50% relative humidity, for a period of no less than four (4) days prior to installation and maintained thereafter.

PREPARATION OF ARBOR WOOD WALLCOVERINGS:
Remove Arbor sheets from the box and allow the sheets to relax and acclimate to the environment for approximately 24 to 48 hours. If the air is dry, or if the sheets must remain out of the box for an extended period of time, cover with a sheet of vinyl to prevent the veneer from drying out. It is best to lay the sheets face down during this period - do not lay sheets on the floor.

Sheets should remain laid flat on a table once removed from their original packaging.

After preliminary inspection, arrange Arbor sheets in numerical sequence as labeled on the back of each. Along with the sequence number, each sheet also has a flitch number and the word "bottom" printed on the back. All sheets should be installed in sequence order and in the same direction with all "bottoms" down or all "bottoms" up based on appearance preference. In most cases, the installation should start from left to right, on 9' or 10' walls, with sheet one (1) and ascend to the right. When the wall is taller than a 9' or 10' length, sheet one (1) should be installed at bottom left, sheet two (2) directly above sheet one (1), then sheet three (3) next to sheet one (1). Please review End Match and Stack Match Section of installation instructions for further information on correct installation/direction of sheet placement.

PRIMER:
Prime all surfaces (including oil-based paint, oil-based primers and latex or oil-based stain-kill coatings) with one of the specified primers on the next page. Prime all surfaces according to manufacturer's directions, keeping the area free and clean of construction dust. Refer to Primer Manufacturer for "open" time for installation as primers loose effectiveness if installed weeks prior to installation. Consult your Arbor Distributor before proceeding with any unusual conditions.

Moisture content in the wall substrate should not exceed 4%. Check with a moisture meter if necessary.

If a situation is encountered where the walls were previously painted or primed, the surface should be lightly sanded to break the seal prior to applying primer. One test strip of Arbor should be hung to assure a strong bond between the existing paint/primer and the primer before proceeding with the installation. Any failure caused by the existing painted/primed surface is the responsibility of the installing contractor and not of the Arbor Distributor.

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THE FOLLOWING PRIMERS ARE APPROVED FOR USE WITH ARBOR:

BASE PRIMER:

- Pro 935 (R35) Primer from Roman Decorating Products
- Pro 977 Primer from Roman Decorating Products(New Drywall or spot prime on Newly Patched Areas)
- A good quality Shellac Based Primer/Sealer (Wood Substrates, MDF, Plywood etc.)
- Pro 999 Primer from Roman Decorating Products (Existing /damaged drywall)

ADHESION PRIMER (MUST BE USED OVER TOP AS A SECOND COAT TO THE BASE PRIMER ON ALL SURFACES)

- PRO 935 Adhesion Promoting Primer from Roman Decorating Products
- Please follow the manufacturers curing time between base primer and adhesion primer coats.

THE FOLLOWING ADHESIVE IS APPROVED FOR USE WITH ARBOR:

- Heavy Duty or Extra Strength Clay Adhesive from Roman Decorating Products (DO NOT USE STRIPPABLE CLAY ADHESIVE)

Manufacturer does not recommend the use of clear or clear strippable type adhesives. The high moisture content of clear adhesives will cause excessive expansion and contraction causing seams and joints to open.

APPLICATION OF ADHESIVE:
Only use the approved listed adhesive. Prepare wall surface as specified before beginning and use ONLY specified adhesive(s). APPLY ADHESIVE AT FULL STRENGTH – whip or stir to thin to desired consistency. DO NOT DILUTE ADHESIVE WITH WATER! Apply a thin uniform layer of adhesive to the back of the Arbor sheets with a standard 1/2 inch nap paint roller, making sure there are no uncoated areas, soft book the sheets for up to 5 minutes before hanging. Allow the proper time for adhesive to tack after it has been applied to the back of the sheets.

This is important to prevent bubbling after installation. Depending on the condition of the primed substrate, the installer may choose to “size” the wall surface with a thin coating of the specified adhesive and allow this “size” coat to dry to touch prior to hanging. It is suggested that the installer test an area first to determine if an adhesive size is needed. This may be especially useful for ceiling installations.

INSTALLING ARBOR WOOD WALLCOVERINGS:
Apply the sheets to the wall in sequence, filling in over doors and windows from consecutive sheets. After applying each sheet on the wall, smooth with an acrylic smoothing tool, or with smoothing tools which will not mar the finish, but ensure that all air bubbles are eliminated and there is a good bond between the Arbor and the substrate. Smooth entire surface area of the sheet to ensure all air pockets are eliminated. Air bubbles must be removed, and installation errors corrected, before the adhesive dries. Remove excess adhesive from each sheet as you go along prior to installing the next sheet. Use a clean, moist, natural sponge or microfibre cloth to remove excess adhesive and dry surface with a lint free towel. It is very important to change water frequently in order to maintain cleanliness and not streak the appearance.

For best results it is recommended that the sheets are double cut with a fresh #9 Single Edge Razor Blade alongside a Wallpaper Straight Edge for each seam. We recommend running a strip of Painter’s tape (Blue Tape) designed for delicate surfaces on the edge of the sheet on the wall before installing the next strip. This will keep the adhesive off the face of the material while double cutting, remove cut edges and extra delicate surface tape before closing the seam. The same holds true for end matching or joined sheets for lengths longer than 10’. No seams should be cut less than 2 ½” from any inside or outside corner. Sheets may be butt joined with the factory edge but this is not the preferred method.

Leaving Arbor overlapped at the seams is not acceptable. The following holds true on all corners that are square.

Wrapping an outside corner with Arbor is done in the same manner as heavy-duty vinyl wallcovering with one exception. When bending around on an outside corner, make sure you’re wrapping the Arbor wallcovering with the grain. Wet the face of the pre-finished Arbor with clean tepid water and a clean lint-free rag. The moisture added will allow the wood to bend around the corner without shearing/breaking the veneer face. Follow these same steps for an inside corner as well. Arbor cannot wrap an outside corner against the grain.

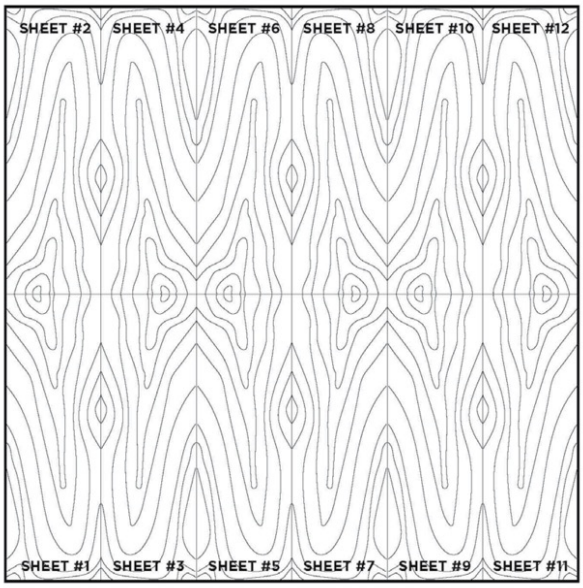
Note: If the corner is not straight and true, please contact your Arbor Distributor for additional instructions.

Air bubbles must be removed and installation errors must be corrected before adhesive dries. Sufficient lighting will greatly assist in seeing bubbles and other installation problems. After installing three (3) sheets of Arbor, inspect the material for proper installation. If problems occur, STOP and contact the local Arbor Distributor. Proceeding beyond this point will be done at the installer’s risk and will absolve the Arbor Distributor of all responsibility.

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END MATCH — is used to extend the apparent length of available veneer for high wall installations. If the floor to ceiling height/length is taller than the sheet specified/ available; installer will need to "end match" sheets during installation. (see illustration and contact your local sales representative for further clarification)



With end matching the sheet on top will be reversed 180 degrees. For example, the top of sheet (#1) will end match to the top of sheet (#2).

If veneer is slip match, Recons or QC RT then the installation will be "stack match" stacking one sheet on top of one another (do not reverse every other sheet).

*Note: For best visual of grain pattern, we suggest laying out the sheets prior to installation to determine what direction the sheets go as sometimes "bottoms to bottoms" appears more aesthetically pleasing than "tops to tops". Please confirm with specifier or end user for approval prior to installation.

If height requires more than 2 sheets (for example ceiling installations) being end matched continue installing the sheets on top of one another reversing every other sheet.

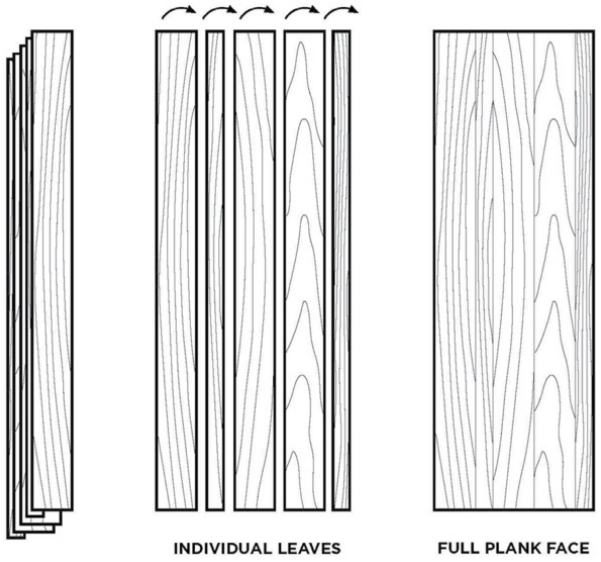


****Please note the bottom of the sheet is stamped "BOTTOM", it also has 6 digit flitch (dye lot number) as well as a sheet number 1, 2, 3, etc...**

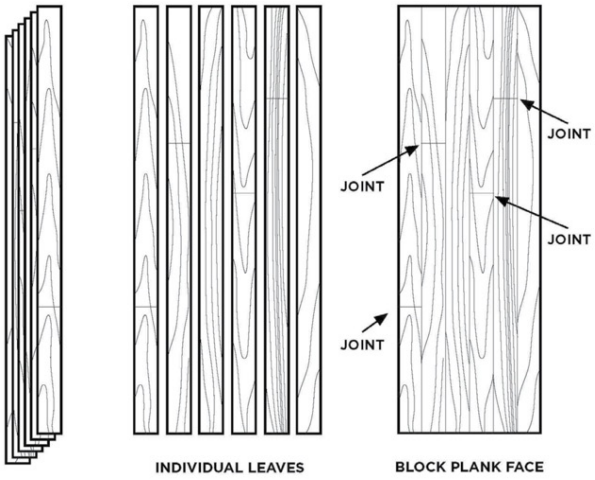
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RANDOM PLANK — design intent is that it appears to be sawn timber- so please consult specifier as how they envision the Arbor installation. Lay out Arbor sheets in several ways and obtain approval of layout prior to installation. The installation may be either stacked/aligned at seams, or a staggered "tile type" installation.



BLOCK PLANK — design intent is that it appears as a wood flooring aesthetic - please consult specifier as how they envision the Arbor installation. Lay out the Arbor sheets in several ways and obtain approval of layout prior to installation. The installation may be either stacked/aligned at seams, or a staggered "tile type" installation.



NOTE: For Random and Block plank orders, sheets will not be sequentially numbered as they are meant to be random matched. The intent is to have a hand sawn or wood flooring aesthetic.

STACK MATCH — Sheets are stacked on top of each other (not reversed as we would do with end matching). Stack matching typically occurs with slip match, Recons, and QC RT veneers.

Sheet two (2) is stacked on top of sheet one (I). So, the top of sheet one (I) is touching the bottom of sheet two (2) in the installation process. (see illustration and contact your local sales representative for further clarification)



*Note: For best visual of grain pattern, we suggest laying out the sheets prior to installation to determine what direction the sheets go as sometimes "bottoms up" appears more aesthetically pleasing than "tops up". Please confirm with specifier or end user for approval prior to installation.

TEST AREA APPROVAL:
At no additional cost to the owner, the Wallcovering Installation Contractor shall install not less than three (3) full-width sheets of each pattern specified, in an area designated by the Architect, Designer or Owner. The test installation area shall be reviewed for conformance to the manufacturer's standard installation instructions and recommended adhesives. Only the Architect, Designer or Owner shall approve the test installation. The Contractor shall replace any unsatisfactory sheets as directed by, and until the test area is accepted by, the Architect, Designer or Owner.

Use of an unspecified adhesive, primer or any additional finishes will VOID the manufacturer's warranty at time of installation. Future problems that may occur as a result of incorrect installation procedures are not the responsibility of the Arbor Distributor.

The approved test area shall remain as part of the finished installation work and as a standard of comparison for the installation throughout the project. The Contractor shall not install specified material beyond the test area prior to the approval of test area by the Architect, Designer or Owner.

Proceeding beyond this point will be done at the installer's risk and will absolve the Arbor Distributor of all responsibility.

PREPARING THE WALL SURFACE

ALL DRYWALL
All drywall finishing should comply with Association of Wall and Ceiling Industries – International (AWCI), Painting and Decorating Contractors of America (PDCA) specifications, Level 4 or Level 5 as a guide. By incorporating the appropriate Level of Finish of the recommended specification into the project documents, the architect, general contractor, and building owner can better anticipate the final appearance of the decorative wall or ceilings covered with Arbor. All joints and interior angles shall have tape embedded in joint compound and three separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. All surfaces shall be clean, smooth and dry prior to applying primer and the application of Arbor.

It is the wallcovering installers responsibility to review drywall as acceptable as a level 4 or 5 finish. If the drywall finish is unacceptable, it is the wallcovering installers responsibility to communicate this to the GC so that the substrate will be prepared accordingly.

NEW DRYWALL
Follow the instructions from above relating to acceptable drywall finish levels prior to installation. Prime new drywall with one of the recommended primers and proceed with 3 test sheets with Roman III Heavy Duty Clay Adhesive. Once test area is approved, proceed with installation.

PAINTED DRYWALL: ALKYD / OIL SURFACES
Assuming the painted drywall with alkyd/oil paint are a level 4 or 5 finish, apply a wall liner prior to prime and installation. Surfaces painted with alkyd / oil paint will not allow the moisture to be absorbed into the drywall. Therefore, a wall liner must be applied before proceeding with hanging Arbor. Allow sufficient time for the moisture in the adhesive used to install the wall liner to evaporate and cure. Contact your local Arbor Distributor for recommendations for wall liners.

ACRYLIC / LATEX SURFACE
Sand primed/painted surface to break the seal. All dust and residue MUST be removed. All primed/ painted surfaces then must be primed with Roman R35 Adhesive promoting Primer prior to installation to ensure a strong bond with Arbor.

DAMAGED DRYWALL:
Sand damaged drywall to remove all loose drywall paper, to the drywall paper substrate. Seal area with one of the recommended primers. Skim walls with drywall compound to meet level 4 of 5 finish. Apply a recommended Base Primer followed by a coat of Roman R35 Adhesion promoting Primer. Follow the manufacturer's curing time. Install Arbor with Roman III Heavy Duty Clay. Follow an Adhesion. Test to ensure a strong bond between drywall, drywall compound, and Arbor.

PLASTER WALLS:
Ideally, new plaster walls should age 60 to 90 days before painting or installing Arbor. If you cannot wait, then wash newly plastered walls with zinc sulfate solution to neutralize the lime (2-4 pounds of zinc sulfate crystals per gallon of water).

PAINTED PLASTER:
All efflorescence crystals should be removed before starting the installation. All undulations in the plaster must be smoothed to a flat finish. Installation over previously painted plaster surfaces must be installed with attention to the type of paint applied to the surface and the number of coats it has received over time. If the painted surface can not be broken by sanding then a wall liner must be installed before applying Arbor over painted plaster to allow the moisture to be wicked away.

CONCRETE, CERAMIC TILE, MARBLE, OR OTHER UNLEVEL AND IRREGULAR SURFACES:
Contact your Arbor Distributor for more information.

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MDF BOARD, PARTICLEBOARD, OTHER WOOD COMPOSITE PRODUCTS OR HARDWOOD PLYWOOD
All surfaces should be free of all excess dust, oils, or other foreign matter and be maintained as smooth as possible. All surface areas will be primed with a good quality shellac based primer followed by a coat of Roman R35 Adhesion Promoting Primer before starting the installation of Arbor. Follow the manufacturer's curing time.Utilize Roman III Extra Strength Clay Adhesive to ensure a strong bond between the substrate and Arbor. All wood substrates will expand and contract, therefore an exposed joint or reveal must be incorporated in the design when installing Arbor in these types of installations. Do not hang Arbor over MDF seams. MDF will expand more than the Arbor will and may cause cracking at the MDF joints. Please contact your Arbor Distributor for more information and refer to the "New Arbor Fabrication Revised" Guide for additional information regarding installation.

CONTACT ADHESIVE OVER NON-POROUS SURFACES:
Substrates that may require the use of contact adhesive are: painted metal, stainless steel, plastic laminate and other non- porous surfaces. Never use contact adhesive on drywall or plaster. Please contact your Arbor Distributor for more information and refer to the "New Arbor Fabrication Revised" Guide for additional information regarding installation.

PREPARATION:
Always be sure that both surfaces are clean and free from all dust. The Arbor material and substrate of choice should be stored in the same surroundings for 24 to 48 hours before starting the installation. This will allow both products to acclimatize together before bonding.

CONTACT ADHESIVE:
When using a contact adhesive, use a high quality adhesive such as Hi-Strength 90 spray adhesive from 3M. Always apply 100% coverage on both the back of the veneer sheet and the face of the substrate. Let the adhesive have the correct amount of dry open time. You don't want to trap gases that can later cause blisters. The time can vary depending on the airflow around your work area, ambient temperature and humidity at the time of installation. Follow all instructions on the label of the contact adhesive being used.

BONDING:
When contact adhesive is being used the best method of pressure is a lot of pressure all at one time. This pressure can be reached by using an acrylic smoothing tool covered with a felt cloth when using prefinished Arbor sheets. (Do not use a J-Roller for applying pressure.) Starting in the center of the surface to be bonded, pull the smoother toward you going with the grain. Apply pressure with both hands, pushing down as hard as possible. Keep doing this as you move over 3-4 inches at a time (your smoother should be 4-5 inches wide) until you have rubbed down the entire surface.

TIME:
Don't rush your work. In order for contact adhesive to work, a chemical reaction must take place. This reaction produces gas and you need to allow this gas to escape from the edges. Many jobs appear perfect and then blisters start to appear. Reasons for this may include: insufficient adhesive coverage; not enough pressure was applied to form an intimate bond; insufficient amount of open time.

CHANGING THE COLOR / FINISH:
Altering the finish on Arbor will void the warranty and Fire Rating. If you do wish to alter the finish, we recommend lightly sanding the surface with 380 grit sandpaper or medium/fine grade Scotchbrite. Care MUST be taken as the veneer is thin and can easily be worn down. After sanding and removing dust, you can apply a waterborne urethane such as Sherwin Williams Kem-Aqua Plus or Hydro Plus. These can also be tinted if you wish to adjust the color.

These guidelines are offered only as informational. We will make no claims for any material that has been altered.

FOR BEST RESULTS:

- DO NOT USE OIL-BASED PRIMERS OR INSTALL OVER OIL- BASED PAINTS
- DO NOT USE LATEX PRIMERS OR INSTALL OVER LATEX PRIMERS OR PAINT
- DO NOT INSTALL ARBOR OVER SOLID LUMBER SUBSTRATES
- DO NOT USE CONTACT ADHESIVE OVER DRYWALL
- DO NOT USE CLEAR OR STRIPPABLE WALLCOVERING ADHESIVES
- DO NOT CUT CLAY-BASE ADHESIVE WITH WATER
- DO NOT CUT THE SURFACE PAPER OF THE DRYWALL
- DO NOT SAND WOOD FACE OF ARBOR WITH HEAVY GRIT SANDPAPER IF REPAIRS OF SCRATCHES ARE REQUIRED

FOLLOW ALL INSTRUCTIONS CAREFULLY. DO NOT RUSH THE INSTALLATION. IF YOU HAVE ANY QUESTIONS REGARDING THESE PROCEDURES, CONTACTYOUR LOCAL ARBOR SERIES™ WOOD WALLCOVERINGS DISTRIBUTOR.