



matting / athletics / flooring

APOLLO™ INSTALLATION

This product has been certified by SCS to meet the rigorous indoor air quality requirements of the FloorScore® certification program.

The following pages are guidelines, if not followed, the **warranty will be voided**. Please read this manual thoroughly before installing Edgewood Recycled Rubber Surfacing products.

SECTION I

GENERAL INFORMATION

This installation method and tile format is a must for all areas in extreme temperature and humidity change, or where surface moisture may be present after installation, i.e. ice arenas, locker rooms and entry ways.

Product Information:

- Thickness tolerance of $\pm 2\text{mm}$ ($5/64''$)
 - Dimensions: $24'' \times 24'' = 4\text{ft}^2$ ($60.96\text{cm} \times 60.96\text{cm} = 0.37\text{m}^2$)
- Half Tiles: $12'' \times 24'' = 2\text{ft}^2$ ($30.48\text{cm} \times 60.96\text{cm} = 0.19\text{m}^2$)
- Thicknesses:
 - $1''$ (25mm)
 - $1\frac{1}{2}''$ (38mm)

SECTION II

MATERIAL STORAGE AND HANDLING

General Information:

- All Edgewood products are packaged on wooden pallets, covered with a plastic cozy, and secured by metal strapping.

Receipt of Merchandise:

- It is recommended you double-check your order is correct.

- Inspect for any damage that may have occurred during transportation.
- Identify any other possible shortcomings.
- For your own protection, ensure that defective product is identified prior to the start of the installation.

Notify your sales rep regarding any defective product immediately.

- Edgewood is not responsible for any installation costs that occur because of defective product being installed.
- If adhesives were exposed to freezing temperatures, place indoors and bring to room temperature between 14°C (57°F) and 23°C (72°F) before using.
- Read technical data sheet and SDS for adhesive.

Storage

- Store product in a dry and clean area.
- Before placing any Edgewood product in storage remove the pallet strapping.
- Leave plastic cozy on during storage.
- Adhesive must be stored above 18°C (65°F) in a dry heated space.

SECTION III

TOOLS AND ACCESSORIES

Tools and Safety Equipment

- Edgewood Installation Guidelines
- Safety glasses
- Solvent safe rubber gloves
- Knee pads
- Broom and dustpan
- Heavy duty utility knife
- Jigsaw, reciprocating saw, or bandsaw
 - Suggested blade is 12-14 teeth per inch or a rubber cutting blade.
- Mallet
- Measuring tape
- Transit level and straight edge

- Caulking Gun
- Chalk snap-line
- White Chalk sharpened to wedge for marking cuts
- 1/16" x 1/32" x 1/32" U- Notch Trowel – if adhesive is required
- Carpenter's square
- Putty knife
- Transition wedges and corners if required
- Carpenter's square
- Interlocking tubes and pins (additional cost)

Interlocking Tubes and Pins:

- The interlocking tubes and pins are made from black polyethylene.
- Each tile requires four (4) interlocking tubes or pins.
- Interlocking tubes should be installed in the same direction as the longest part of the installation area.
- Each tile thickness requires a different size tube or pin.
 - 1" Tile - Interlocking tube
 - 1 1/2" and 2 3/4" Tiles – Pin



Half Tiles:

- Designed so full tiles can be installed in a staggered layout.
- Full tiles may also be cut on site.

Wedges & Corner Pieces

- Wedges are used around the perimeter of an area to create a transition.
- They can be adhered to the edge of the rubber tile and/or glued to the sub-surface.
- Corner pieces compliment the wedges.
 - There are the inside and outside wedge corners designed for use on all 90° angles.

WEDGE 1" and 1 1/2"



Ramps:

- Ramps are required when installation areas must meet ADA Compliance for wheelchair accessibility.

Adhesive:

- Varying temperature ranges will affect curing times, viscosity and pot life of adhesive, possibly resulting in adhesion problems.

- Use safety glasses, rubber boots, and rubber gloves when applying adhesive. Do not allow adhesive to cure on your hands.
- Room must be well ventilated.
- For first aid and safety instructions see labels on can and the safety data sheet.
- If adhesives other than the products listed below are being used, this could void the warranty. Contact Dinoflex for verification.
- For detailed information and product use, refer to Technical Product Data Sheet, included and adhesive.

MF Bond It Adhesive (V.O.C. compliant)

- Single component adhesive
- 2 gallons: 27lbs (12.25kg)
- Approximate coverage: 300ft² (27.87m²)
- 1/16" x 1/32" x 1/32" U-notched trowel supplied.
- 12-month shelf life
- It is not uncommon for a moisture cure urethane product to develop a slight skin on the top surface in the can.
- The product is still good; simply remove the skin and mix adhesive well.
- Refer to batch number on adhesive and contact Edgewood to determine if it has expired.
- Edgewood is not responsible for adhesive used past its expiration date.

SECTION IV

SUB-SURFACE

Preparation of Sub-surface:

- Apollo Fitness Tiles should not be installed on top of carpet.
- The sub-surface must be flat/smooth, clean and dry, structurally sound and all debris including old adhesive must be removed.

Scraping may be required to remove debris. Debris left under tiles will cause height variations, telegraphing and undulations.

- Particleboard, chipboard, Masonite and Luan Plywood are not considered suitable underlayment.
- If the sub-surface has been previously sealed or finished the surface may need to be stripped and cleaned to ensure an adequate bond.
- Petroleum distillates (e.g. solvents) as well as liquid animal fats may cause the surface bonding to fail. Test results for other harmful chemicals and compounds may be available on request.
- Contact Edgewood for verification.

Concrete Sub-Surface

- New concrete sub-surfaces must be thoroughly cured and free from hydrostatic pressure before rubber tiles are installed (a minimum of 30 days after pour).
- Consult adhesive specifications for allowable moisture tolerance.
- Concrete substrates should not exceed 90% RH and/or 5lbs x 24-hours x 1000 sq. ft.
- It is essential that pH tests be taken on all concrete floors. This must range between 7 and 9. If it does not, the sub-floor must be neutralized prior to the beginning of the installation. **These tests must be documented.**
- Moisture vapor emissions test in accordance to ASTM F1869 and relative humidity in concrete test in accordance to ASTM F2170 must be completed.
- Sub-surface must be smooth and level to a tolerance not exceeding 1/8" in 10 lineal feet.
 - The Concrete Surface Profile (CSP) must achieve a requirement of CSP2.
- If existing concrete is too rough, or does not meet the above criteria, apply a Portland cement based leveling compound to smooth and level the surface. Follow all leveling compound manufacturer's instructions.
- Moisture is the single most significant factor that causes bonding failure to the sub-surface.
- Warranty is not applicable if specified moisture ranges are not adhered to.

Wood Sub-surface:

- Wood sub-surface must be a minimum of 1" thickness, and free from any flex movement. (5/8" on joists with a 3/8" overlay is acceptable).
- New plywood should be acclimatized for a 48-hour period prior to installation of the rubber flooring.
- CDX exterior smooth one side is suggested for new wood substrates.
- Secure all nails and screws to prevent future protrusion.
- Any cracks, holes, rough or uneven areas should be patched with a polymer-modified cement leveling compound and/or sanded to achieve a smooth surface.
- It is vital that a moisture test be completed prior to installation with records kept. No less than 20 spot checks per 1000 sq. ft. should be observed. Any readings higher than 13% are not acceptable and installation must wait until levels are at or under 13%.
- Moisture is the single most significant factor that causes bonding failure to the sub-surface.
- Warranty is not applicable if specified moisture ranges are not adhered to.

SECTION V

PRE-INSTALLATION

General Information

- Prior to installing Edgewood Recycled Rubber Flooring, ensure all other trades have completed their work schedules.
- The use of Masonite board, plywood or kraft paper should be used to protect the rubber flooring from damage and debris.
- Product, sub-floor and adhesive must be of the same temperature. This should be checked using an infrared digital thermometer.
- Edgewood is not responsible for any product failure if proper floor preparation and/or installation procedures are not followed.
- Check ambient temperature.
- All HVAC systems must be fully operational 24-hours prior to beginning the acclimation process.
- Rubber flooring may be installed between temperatures of 14°C (57°F) and 23°C (72°F).
- Room temperature must be consistent during the entire installation.
- Large fluctuations in temperature or humidity will cause expansion or contraction.
- In-floor radiant heat should be shut off for 24-hours prior to acclimation, be shut off throughout installation and remain off for 48-hours after installation is complete.

Acclimation and Dry Lay

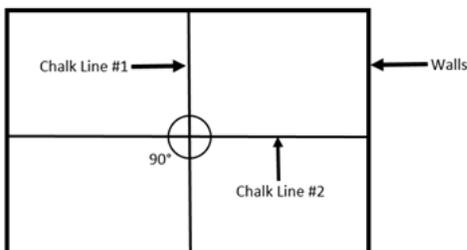
- **Acclimation/Dry Lay Checklist is required to be completed or warranty will be void.**
- A minimum of 48 – 72 hours before starting the installation.
 - Storage longer than 2 weeks will require a longer acclimation period.
 - Mats in the lower portion of the stack will compress to a greater degree than those in the upper portion.
 - A mat laid down in the morning hours at 0°C (32°F) would be a different size than a mat laid at 20°C (68°F) later in the day.
 - Acclimation should only begin once the sub-surface has reached a temperature between 14°C (57°F) and 23°C (72°F).
- Lay out all mats on the sub-surface in piles of 2 or less:
 - Be sure to mix mats from several different pallets to blend minor shade variations.

- Allow them to acclimate until they have reached a consistent size.
 - Some products under certain conditions have shown expansion and contraction in size of up to 1/8" (3.2mm).
- Inspect all mats for visible defects.
 - Ensure the defective product is identified prior to the start of the installation, notify Rep/Dealer immediately.
 - Labor will not be covered if any defective product is installed.
 - Scythe marks are inherent in the manufacturing of recycled rubber flooring products and are considered normal.
 - Certain lighting conditions can accentuate these marks and as such is not considered a product defect.

Chalk Lines

- Locate the midpoint of the room, chalk a start line down the center. Chalk another similar start line 90° to the first one. (Figure 1)

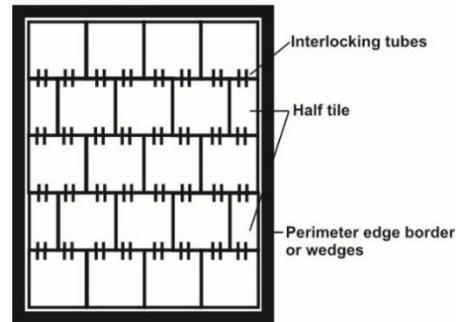
Figure 1



Tile Layout

- The installer should have all relevant information about the tile arrangement from the owner.
- Begin tile layout from the point where the two chalk lines intersect.
- Work outwards in both directions
- Start second row on either side of the center line towards the chalk line.
- Make sure that second row is installed by staggering tiles.

Figure A - Staggered Installation



Cutting

- Before cutting, ensure that each tile is measured carefully so that the tile will fit properly.
- Lay tiles on a flat surface, hold the metal straight edge on the cut line, and cut with sharp utility knife.
- Keep scoring the cut until separated.
- Change or snap off blades frequently to ensure clean cuts.
- For odd angles, circular patterns, etc. a cardboard template is suggested.
- Join factory edges together. Hand cut edges should be used against perimeter walls only.
- If a large amount of cutting is required, a jigsaw or reciprocating saw could be used.
- Depending on thickness and length of cut, inserting a wedge into start of cut will help minimize any binding on the blade.
- Inserting a small wedge into start of cut will help to minimize any binding on the blade.

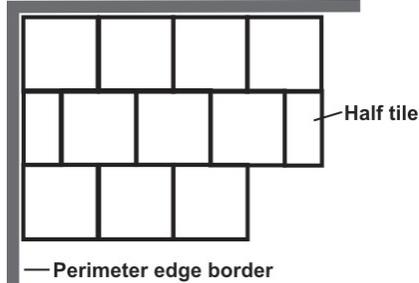
SECTION VI

INSTALLATION

General Information:

- **Do not install** the tiles if they are not square and the appropriate thickness has not been reached.
- If installing a new perimeter edge border, it is best if only two edges (L shape) are installed. This will reduce the movement of tiles when inserting the interlocking tubes.

Figure C - Installing within new border



- Once installation is complete, install the last two remaining perimeter borders, make sure they are as tight as possible against the tiles.

Interlocking Tiles (No Adhesive Required):

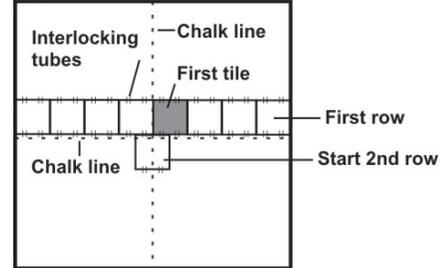
Installing along a straight edge:

- Place first tile at designated starting point, either against a wall or existing border. Align first row of tiles along a straight edge.
- Make sure that all interlocking holes are facing toward unfinished area. (Do not put any interlocking tubes in first row of tiles.)
- Interlocking tubes should be installed in the same direction as the longest part of the installation area.
- Start second row with a half tile, which is simply a full tile cut in half.
- As you are installing each tile, tilt slightly to ease pegs into existing tile.
- Tap with mallet ensure tight fit.
- Continue installation in staggered method. Repeat first and second row until installation is complete.

Installing Irregular Site Configurations:

- Use the chalk lines (Section V) as a reference as a guide for laying the first row of tiles.
- Place the first tile where the two chalk lines intersect.
- Work outwards in both directions.
- Start second row on either side of the center line towards the chalk line.
 - Be sure to stagger the second row.
- Refer to Section V for cutting irregular shapes.

Figure B



- Perimeter tiles and wedges must be adhered to the subsurface.

Glue Down Installation:

Installing Along Straight Edge:

- Glue the first row of tiles along straight edge.
- Start second row with a half tile, which is simply a full tile cut in half.
- Continue installation in a staggered method.
- Repeat first and second row installation until installation is complete.

Installing Irregular Site Configurations:

- Use the chalk lines (Section V) as a reference as a guide for laying the first row of tiles.
- Place the first tile where the two chalk lines intersect.
- Work outwards in both directions.
- Start second row on either side of the center line towards the chalk line.
 - Be sure to stagger the second row.
- Refer to Section V for cutting irregular shapes.

Clean-up Adhesive:

- Do not get adhesive on the top surface of the tiles as it is impossible to remove when cured.
 - Immediately use a clean damp cloth to remove any adhesive.
- Edgewood does not warranty product where the attempt to remove adhesive has been made. Any damage to the tile because of adhesive removal is solely that responsibility of the installer.
- Contact your Rep/Dealer immediately for suggested cleaning methods if this happens.
- Caution: the use of mineral spirits can cause the area to appear darker.
- Intense scrubbing of the seams will also darken the edges.

SECTION VIII

POST-INSTALLATION CLEANING

Tiles are coated with a water-based mold release residue, a natural result of the manufacturing process. This will initially cause slight discoloration and slipperiness.

- Remove all surface soil and debris by sweeping, mopping, or vacuuming.
- Apply a solution of neutral cleaner and agitate with a brush or mop, rinse with clean water.
 - Use as little water as possible.

Disclaimer:

The installation guidelines in this manual represent typical installation work procedures. Every site is different and Edgewood does not claim to have covered all possible circumstances.

Edgewood Recycled Rubber Innovators does not warrant installation work and specifically disclaims liability for any direct or indirect personal injury, property damage, and other costs or losses resulting from installations or applications by third parties. Please, see Edgewood's Limited Warranty for the particulars of warranty coverage relating to Edgewood products.