

**PRODUCT NAME**

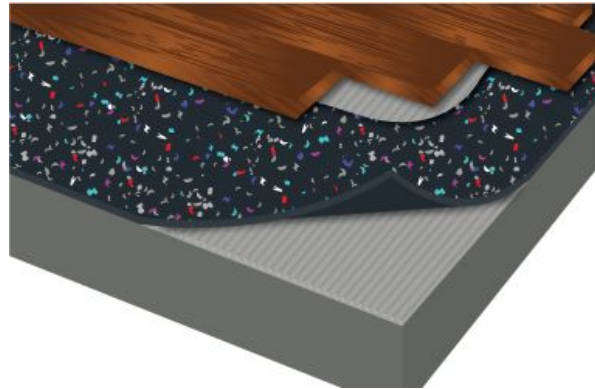
RCU RL5

**2. MANUFACTURER**

PROFLEX® Products, Inc.  
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Haines City, FL 33844  
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**3. PRODUCT DESCRIPTION**

PROFLEX® RCU RL5 is a recycled rubber, cork and high-density foam underlayment with excellent sound control properties. RCU RL5 has superior adhesion versus 100% rubber products and is >20% lighter with identical or higher performance. RCU RL5 is a pre-cut 2' x 3' sheet that is easy to install and lightweight making it easier to handle on jobsites. RCU RL5 contributes to LEED® project points due to its renewable content.

**Packaging**

RCU RL5 - 2' (24") x 3' (36") x 5mm sheets

**4. TECHNICAL DATA**

In addition to the sound benefits, the product has been engineered and produced in a manner that meets several criteria supporting green / environmental building requirements. Using RCU products will assist a builder in qualifying for LEED®

- 80% + Recycled Content by Weight (LEED MR-4)
- 20% + Cork Granules by Weight - (Rapidly Renewing Content (LEED MR-6))

**Membrane Composition**      *A material blend consisting primarily of recycled rubber with naturally renewable granulated cork particles.*

**Membrane Thickness**      *5mm (0.20 inches) thick*

**ACOUSTICAL LABORATORY TESTING**

Assembly	Testing Application (ASTM E90 & ASTM E492)	STC	IIC	Δ Delta IIC
8" Concrete Slab, No Ceiling	Ceramic Tile on 5mm PROFLEX RCU RL5 Underlayment	55	51	n/a
6" Concrete Slab, No Ceiling	Engineered Wood on 5mm PROFLEX RCU RL5 Underlayment	51	51	22

ASTM E90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*

ASTM E413-16, *Classification for Rating Sound Insulation*

ASTM E492-09(2016)e1, *Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machines*

ASTM E989-06 (2012), *Classification for Determination of Impact Insulation Class (IIC)*

ASTM E2235-04 (2012), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

**5. INSTALLATION**

The following installation instructions are a recommendation but are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures as published by the National Oak Flooring Manufacturers Association (NOFMA) and the National Wood Flooring Association (NWFA).

**SUBFLOOR**

1. All subfloor work should be in accordance with the recommended procedures as published by NOFMA and the NWFA.
2. Concrete subfloor should be level, properly sloped and structurally sound.
3. Inspect concrete subfloor for any open cracks and fill with a high-grade epoxy filler.

4. Remove any excess concrete lumps or residue that may interfere with the installation of the RCU RL5 underlayment from lying flat or tenting. Any low spot, divot areas or uneven surfaces should be filled or patched with Proflex PSP or Proflex FeatherFlex before adhering RCU RL5.

## TESTING FOR MOISTURE

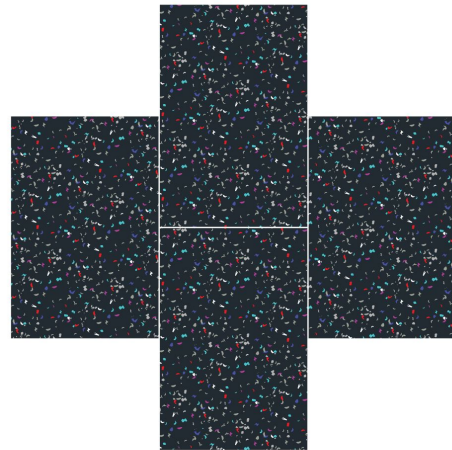
1. Test the subfloor for excessive moisture prior to the installation of the RCU RL5.
2. If excessive moisture is present (normally >7 lbs. per 1000 s/f in 24hrs with a Calcium Chloride test) in the subfloor, corrective action must be taken. Consult the project architect, flooring manufacturer and/or the most recent NOFMA & NWFA Installation Manuals for methods and materials for dealing with excessive subfloor moisture.

## Perimeter Isolation Barrier

1. Install the 1/4" thick PROFLEX® Perimeter Isolation Barrier (PIB) vertically around the perimeter of the entire floor including any openings or protrusions such as electrical boxes, heating ducts, cold air returns, columns or pipes in the subfloor installation. The Perimeter Isolation Barriers **should be installed prior** to RCU RL5 underlayment being installed.
2. Adhere the Perimeter Isolation Barrier flat against the wall, flush to the floor with PROFLEX® CBA (Cove Base Adhesive).
3. After positioning, press the isolation barrier firmly into place at all wall and vertical partitions surrounding the perimeter using the PROFLEX® underlayment material.
4. Never mechanically fasten the isolation barrier, as this will severely diminish the acoustical performance of the entire sound rated floor system.
5. After the finished floor is installed the isolation barrier should be flush or slightly below the surface of the finished floor.

## RCU RL5 UNDERLAYMENT for GLUED DOWN HARDWOOD FLOORS

1. Starting in one corner of the room, snap a chalk line 24" from the edge of the Perimeter Isolation Barrier installed at the floor/wall junction.
2. Using a properly sized U-notched trowel (minimum 1/8" x 1/8" U-Notch trowel with 100% bond coverage). Apply an approved wood flooring adhesive in the area between the chalk line and the wall down the entire length of the area to be covered.
3. Lay the RCU RL5 sheets into the bed of adhesive applied, butting the sheets tightly against the Perimeter Isolation Barrier already installed. Trim the last sheet to length to fit the space available.
4. Snap another chalk line 24" from the edge of the previously laid sheets and repeat the process of applying the adhesive and installing the sheets, starting with a **1/2 sheet on alternating rows to stagger the seams at approximately 40 - 50%. See picture to the right.**
5. Proceed to cover the entire room, making sure the sheets are tightly butted together, without gaps. Roll the floor in both directions using a 100# roller. **Never mechanically fasten the sheets to the subfloor, as this will severely diminish the acoustical value of the product.**
6. After completion, the RCU RL5 sheets should cover the entire floor area without gaps and be securely bonded with the joints tightly butted.



## GLUED DOWN WOOD FLOORING

**\*\*\*The same urethane or MS-Type adhesive MUST BE USED TOP AND BOTTOM OF MEMBRANE to create equal grab on the membrane\*\*\***

1. Follow the manufacturer's recommended instructions for installing the finished floor, using the adhesive and trowel size specified.
2. If a baseboard or shoe molding detail is required, leave a minimum 1/8" gap between the finished floor and the bottom of the shoe or baseboard. This gap must be filled with a non-hardening, color matching, paintable or clear Acoustical Grade Sealant.

## RCU RL5 UNDERLAYMENT for DIRECT BONDED CERAMIC TILE FLOORS

1. Starting in one corner of the room, snap a chalk line 24" from the edge of the Perimeter Isolation Barrier installed at the floor/wall junction.
2. Using a properly sized U-notched trowel (minimum 1/8" x 1/8" U-Notch trowel with 100% bond coverage). Apply Proflex RCA adhesive in the area between the chalk line and the wall down the entire length of the area to be covered on the subfloor.

3. Lay the RCU RL5 sheets into the bed of adhesive applied, butting the sheets tightly against the Perimeter Isolation Barrier already installed. Trim the last sheet to length to fit the space available.
4. Snap another chalk line 24" from the edge of the previously laid sheets and repeat the process of applying the adhesive and installing the sheets, starting with a ½ sheet on alternating rows to **stagger the seams at approximately 40 - 50%.** **See picture on page 2.** Repeat the process for the balance of the room.
5. Proceed to cover the entire room, making sure the sheets are tightly butted together, without gaps. Roll the floor area in both directions using a 100# roller, to endure the sheets are firmly embedded in the adhesive. **Never mechanically fasten the sheets to the subfloor, as this will severely diminish the acoustical value of the product.**
6. After completion, the RCU RL5 underlayment should cover the entire floor area without gaps and be securely bonded with the joints tightly butted.

## CERAMIC TILE INSTALLATION

1. Follow the tile and setting material manufacturers recommended instructions for the installation of the finished floor tile conforming to ANSI A108.1 A, B, C and A108.5, depending on the method of installation. Direct bonded applications of tile should be installed with a Latex Modified Thin-Set Mortar compliant to ANSI A118.4 or higher A118.11, A118.15.
2. After the tile floor is installed and grouted, visually inspect and remove, where necessary and excess mortar or grout that is in contact with any walls or protrusions in the floor. Failure to do so may greatly diminish the acoustical performance of the system. The finished tilework and grout **should not** tightly abut to a rigid surface (i.e. walls, columns, door frames, sliding window frames, etc.) for both proper movement joints and acoustical performance.
3. Trim the Perimeter Isolation Barrier, previously installed, flush with the surface of the finished floor.
4. Prior to the installation of any base or trim, a bead of non hardening acoustical grade sealant should be installed on the top edge of the trimmed Isolation Barrier.
5. If a tile wall or cove base is to be installed, **the space between the floor tile and the tile base should not be grouted.** A non-hardening flexible color matching sealant should be used to fill this joint.
6. If baseboard or shoe molding detail is required, leave a minimum 1/8" gap between the finished floor and the bottom of the shoe or baseboard. This gap can be filled with a non-hardening, color matching, paintable or clear Acoustical Grade Sealant.

## 6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate Proflex products in your area, please contact:

Phone: 877-577-6353

Website: [www.proflex.us](http://www.proflex.us)

## 7. WARRANTY

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting [www.proflex.us](http://www.proflex.us)

## 8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature: To acquire technical and safety literature, please visit our website [www.proflex.us](http://www.proflex.us)

## 10. FILING SYSTEM

Division 9