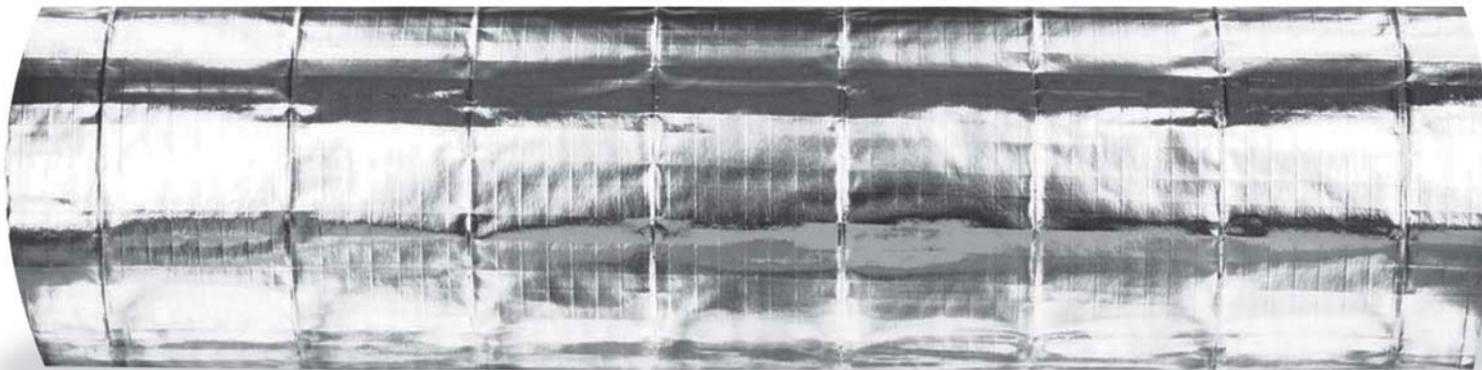




WARMLY YOURS
RADIANT HEATING

Installation Manual for your Environ II™ Cut & Turn Roll System

For laminate/floating wood &
engineered wood floor coverings



Please read through these instructions carefully before you begin installing & check that you are aware of all the components required.

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PRODUCT SPECIFICATIONS AND DETAILS

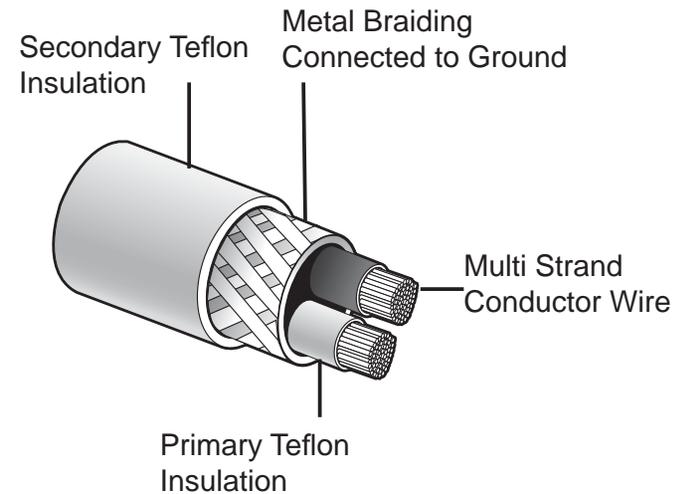
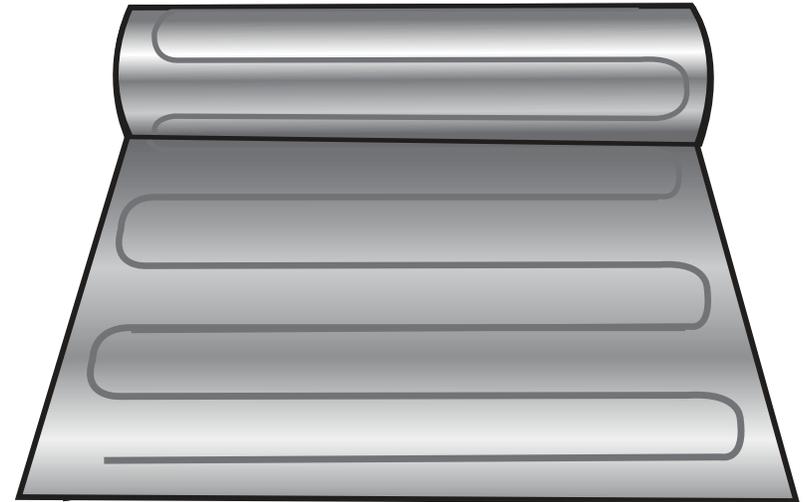
Environ II™ Cut & Turn Roll System

Environ II™ Cut & Turn is an ultra thin electric radiant floor heating roll, primarily used under laminate and engineered wood.

The advantage of Environ II™ Cut & Turn is the ease of installation and the even heating of your flooring. The roll is produced with materials that avoid restricted heating known as, “hot spots.”

Construction

The Environ II™ Cut & Turn system is manufactured with fluoropolymer insulated heating cables with reinforced metal braiding over two heating cores. The fluoropolymer insulated heating cables are designed to be in between two layers of reinforced and durable aluminum. The uniform spacing of the heating elements, strengthened by the foil, ensures even heat distribution. The heating element is connected to a power-supply cable, which is located in one corner of the roll. The power lead is a flat thin two-core flexible cord, consisting of two insulated conductors with a metal sheath and an outer sheath. Environ II™ Cut & Turn is supplied within the nominal heat output range of 140 W/m² (13 W/ sq. ft.) @ 120 V & 240 V. The power lead is 15 feet long.



Introduction

Thank you for purchasing the Environ II™ Cut & Turn Roll System. This manual contains **IMPORTANT** information regarding the safe use and installation of your Environ II™ Cut & Turn Roll System. Please read through the entire manual carefully before you install or operate your floor heating system.

Important Information

- Environ II™ Cut & Turn Rolls are designed for installation directly under laminate/ floating wood and engineered wood, installed on top of an underlayment.
- Environ II™ Cut & Turn Rolls are NOT designed for installation under ceramic tile, natural stone or other similar hard floor coverings; and MAY NOT be installed under nailed hardwood flooring. WarmlyYours sells products to heat these flooring surfaces – Contact us at: info@warmlyyours.com, or (800) 875-5285 for more information on other floor heating system options available.
- Environ II™ Cut & Turn Rolls should be separated from other heat sources such as luminaries and chimneys.
- The minimum distance between adjacent runs should be at a minimum of 1.5" (40 mm).
- Do not install the Environ II™ Cut & Turn Rolls at an ambient temperature below 5°F (-15°C).
- Environ II™ Cut & Turn Rolls should not extend beyond the room or area in which it originates, as per the custom installation SmartPlan™.
- The Environ II™ Cut & Turn Rolls must be spaced from the walls a minimum distance of 3" (76 mm).
- Certain underlayment types and thicknesses with laminates/floating wood are NOT compatible with Environ II™ Cut & Turn Rolls (see page 5). DO NOT PLACE EXCESSIVELY HEAVY FURNITURE on your heated floor.
- Environ II™ Cut & Turn Rolls must not be installed under cabinets or furniture that will be permanently installed and attached to the floor. Built-in cabinets and other furniture with solid bases must not be placed over the rolls.
- Environ II™ Cut & Turn Rolls is not for installation in walls.
- Environ II™ Cut & Turn Rolls should NOT be installed on top of other in-floor radiant heating systems (for example hydronic or in-slab systems) UNLESS the other system is permanently disconnected in such a way that it cannot be inadvertently switched on while the Environ II™ Cut & Turn Rolls are also in use.
- The Environ II™ Cut & Turn Rolls may NOT be installed on floors where radiant ceiling heating rolls are in use in the room directly below where the Environ II™ Cut & Turn Rolls are installed.
- Environ II™ Cut & Turn Rolls must not be installed in thinset cement, or in direct contact with a cement or concrete subfloor or slab. There must be an underlayment under Environ II™ Cut & Turn Rolls.
- Indicate which branch circuits supply the power to the Environ II™ Cut & Turn Rolls and retain the UL labels for each heating roll in a convenient location, i.e. taped to the circuit breaker box, for reference by the electrical inspector or home owner. Leave one UL label attached to the Environ II™ Cut & Turn Rolls. Attach warning label in a convenient location to show the room location where Environ II™ Cut & Turn is installed.
- Use only listed conduit, fittings, and/or other listed components.
- In Canada, the installation should be done according to the provisions of the Canadian Electrical Code, Part 1, Section 62.
- When used in wet locations, the installation should be in accordance with the National Electric Code, NFPA-70 and CAN/CSA-C22.1, Canadian Electrical Code, Part I (CEC) and that final acceptance is to be made in the field by the Authority Having Jurisdiction (AHJ).
- Environ II™ Cut & Turn Rolls should be connected to a CLASS-A Ground Fault Circuit Interrupter (GFCI). Some local electrical codes may require that a qualified electrician connect the system.

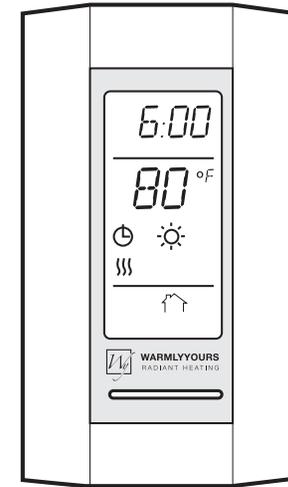
We want your installation to be trouble-free. If you are confronted with a problem you cannot solve, please do not hesitate to contact us at: info@warmlyyours.com, or call us any time, any day at (800) 875-5285.

Controlling Your System

WarmlyYours recommends a Class-A GFCI, UL/CSA/ETL or similar NRTL listed thermostat to control the Environ II™ Cut & Turn Rolls. A programmable thermostat will allow you to set your floor warm-up time and will provide you increased energy efficiency, by programming your wake up, away, bedtime, and vacation settings.

Most wood laminate manufacturers specify that their floors should not be subjected to temperatures in excess of 85°F (29°C). The only reliable way to achieve this is to install a temperature sensor directly under the Environ II™ Cut & Turn Rolls. Check with your laminate manufacturer to see their recommendations for installing electric radiant heat under their floors.

The WarmlyYours SmartStat™ programmable thermostat can be programmed to the temperature recommended by the laminate manufacturer.



Professional Electric Installation

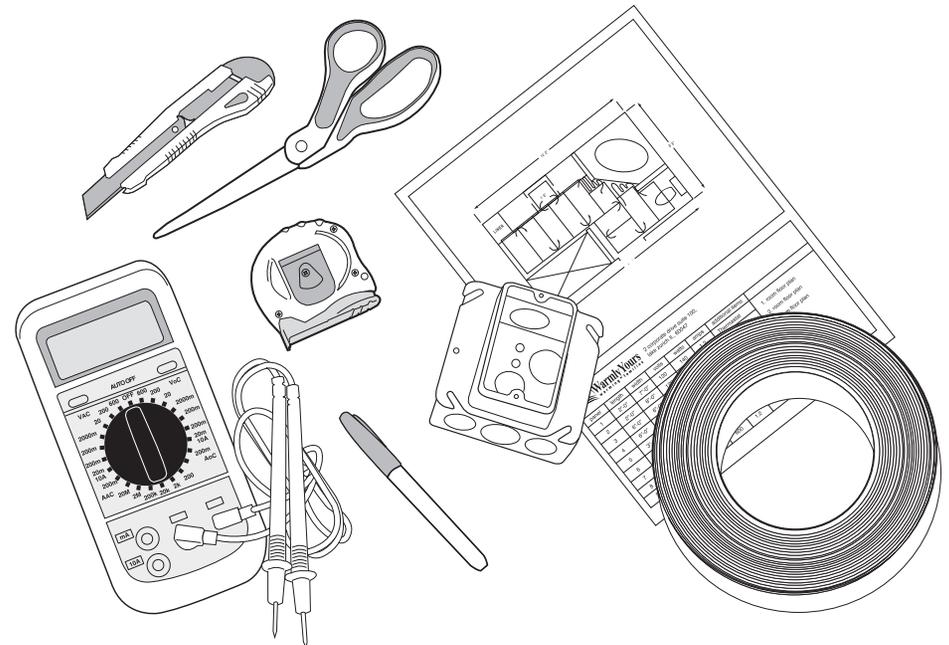
Attention: Some local codes require that a licensed electrician complete the final connection of the floor heating system.

The installation of electrical systems presents a risk of fire and electrical shock, which may result in personal injury. Caution should always be taken to guard against these risks. A qualified electrician should connect Environ II™ Cut & Turn Rolls to the thermostat and/or to the electrical supply circuit. All such connections **MUST** be in accordance with the National Electric Code, Canadian Electric Code, and all local codes.

WarmlyYours strongly suggests a dedicated circuit for each system. A non-dedicated circuit can cause nuisance tripping of the GFCI built into the thermostat.

Items Required For System Installation

- The customized installation SmartPlan™ (floor plan layout)
- Ground Fault Circuit Interrupter (GFCI)
- Digital Ohm Meter (multi-meter)
- 4" x 4" extra-deep box with a single gang plaster ring
- Junction box for systems requiring more than 3 rolls
- Wire and appropriate-sized, non-GFCI breaker for supplying voltage
- Electrical conduit
- Adhesive tape
- Aluminum tape strips



Testing

Each Environ II™ Cut & Turn Roll is carefully tested before it is shipped from the factory, and is packed to avoid damage during transit. However, damage does sometimes occur in storage or transit, and sometimes during installation. We strongly recommend you test the rolls:

- After unpacking the rolls but before you install them.
- After you have installed them but before you install the floor covering (i.e. while the rolls are still exposed)
- After installation of the floor covering but before the thermostats are connected.

A simple test is a visual inspection to make sure there is no visible damage to the heating element, and in particular to the cable component in the heater. We recommend conducting an electrical test with an ohm meter to ensure that the ohms resistance is what it should be. Ohms resistance can vary significantly depending on the ambient temperature and an allowance of -5% to +10% from the nominal value at 68°F (20°C) is acceptable.

Pre-Installation Instructions

Ensure the subfloor is structurally sound, and is clean and dry.

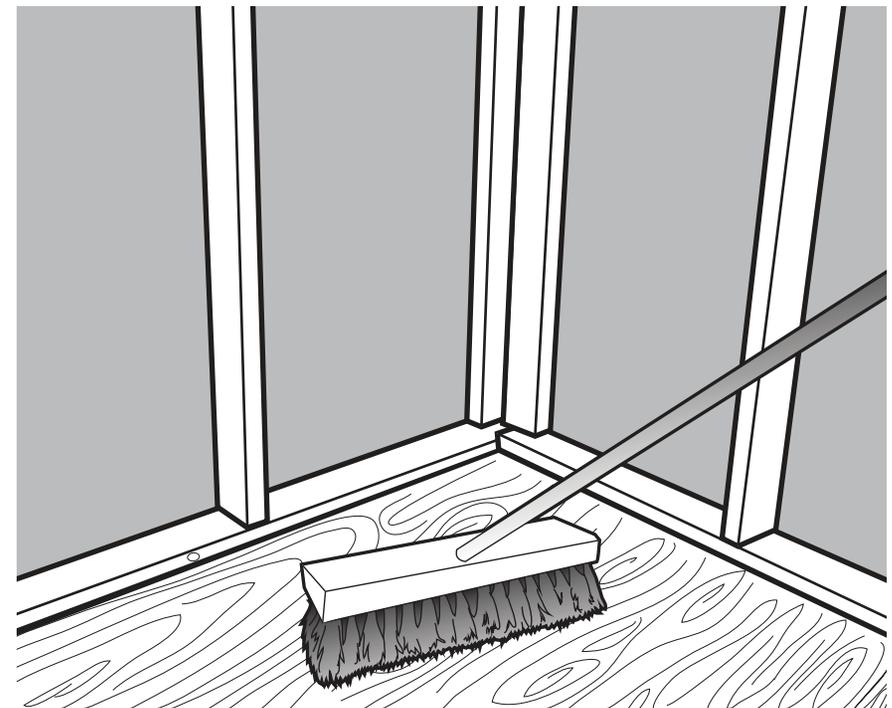
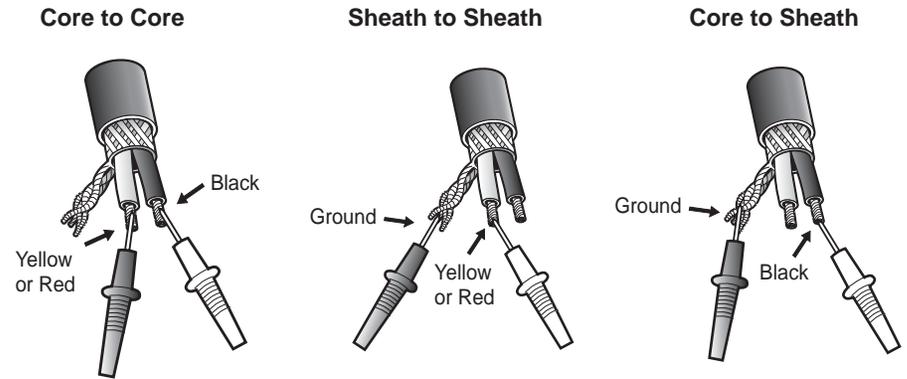
It shall be noted that most wooden subfloor manufacturers (and also the wood floor manufacturers) restrict the level of moisture content as well as Relative Humidity for installing and maintaining sturdy subfloors. Strictly follow the wooden floor/subfloor manufacturer guidelines for proper installation and maintenance of wooden subfloors in order to avoid any horizontal or vertical movement of the subfloor and consequential damage to your Environ II™ Cut & Turn floor heating system.

To prevent damage to the rolls, special attention should be given to ensure that no nails, screws, staple, or tacks are protruding from the sub floor before the underlayment is installed. Take extra caution, if you use an automatic staple gun to secure the cushion/underlayment to the subfloor, a badly installed staple could protrude from the floor and pierce and damage the Environ II™ Cut & Turn Rolls.

Nails, screws, or staples should not be installed close to the rolls and power supply cables. Permanent fixtures, including built-in furniture, must NEVER be installed on top of the rolls.

It is important to keep an accurate record of where the rolls are installed, to assist you (and a future owner) to easily locate them; we suggest that you capture a few photographs during the installation process, and ALWAYS save your custom installation SmartPlan™.

OHM Testing



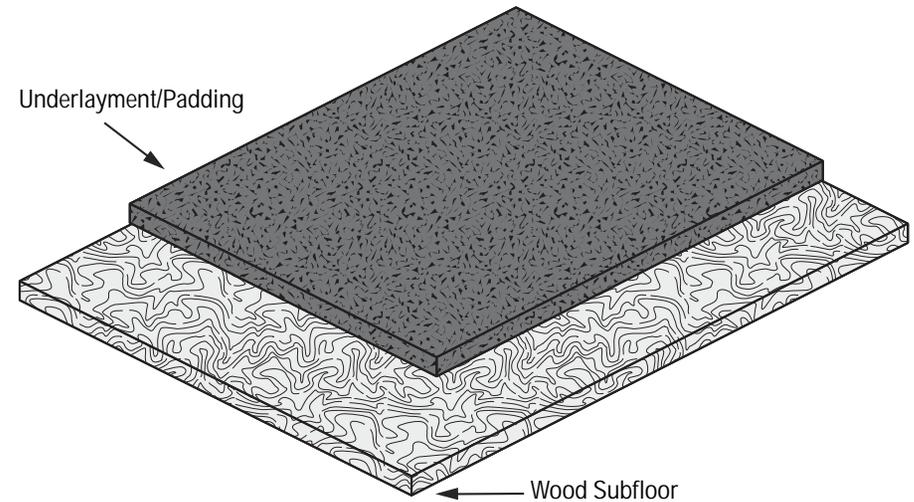
Compatible Underlayments

Any type of underlayment/padding may be used as long as it has a density of 6-8 pounds per cubic foot.

Certain underlayment, such as ¼" (6mm) thick cork, or 5mm CeraZorb are recommended for Environ II™ Cut & Turn Rolls. It is also acceptable to place a vapor barrier, such as a plastic sheet, under the underlayment. Underlayment papers are not compatible with Environ II™ Cut & Turn Rolls.

Underlayment is necessary to prevent Environ II™ Cut & Turn Rolls from damage from the weight of the floor, furniture, and people. Unavoidable wooden floor movements will not harm Environ II™ Cut & Turn Rolls. Wooden floors expand and contract with temperature and moisture change. The wooden floor "moves" on top of Environ II™ Cut & Turn Rolls. This movement will not damage Environ II™ Cut & Turn Rolls when the installation is done correctly and the underside of the final floor covering is installed evenly.

Some underlayment materials also have a noise reducing and insulating effect. When installing over concrete, a ¼" underlayment is mandatory. Any underlayment available in ¼" size is acceptable in most cases. CeraZorb, cork, or ¼" to 3/8" of expanded polystyrene (EPS) with a density of 2 pounds per cubic foot or more, are recommended for installation under Environ II™ Cut & Turn Rolls. When installing over a concrete slab, choose the underlayment with the highest R-Value.



Compatible Wood Laminates

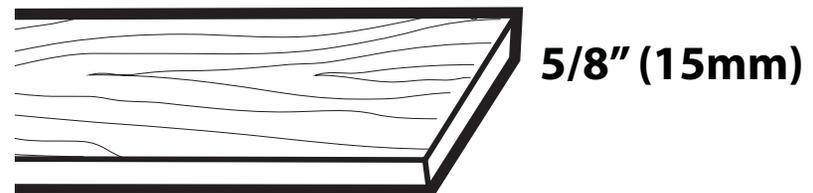
Verify that your laminate is warranted for use with radiant heat. Most modern wood laminate floors are compatible with Environ II™ Cut & Turn Rolls, but the maximum thickness of the timber / laminate / wooden flooring should not exceed 5/8" (15mm). Flooring that has metallic strips as part of its locking system is NOT compatible, as these metallic strips may damage the Environ II™ Cut & Turn Rolls. Also laminates that have their pad already attached to the laminate are not compatible with the Environ II™ Cut & Turn Rolls.

R-Value of Floor Covering:

The type and thickness of the floor covering materials used with this product must not exceed a thermal insulation "R" value of 1.

Example R-values: LAMINATE FLOORING = R 0.675

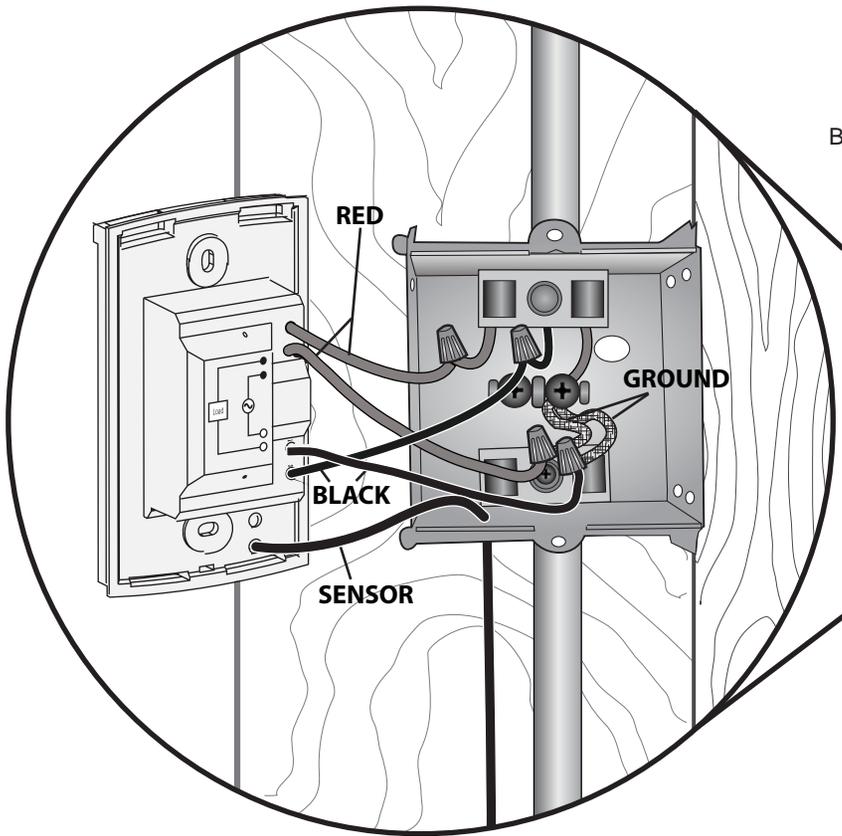
WOOD FLOORING = R 0.80 maximum



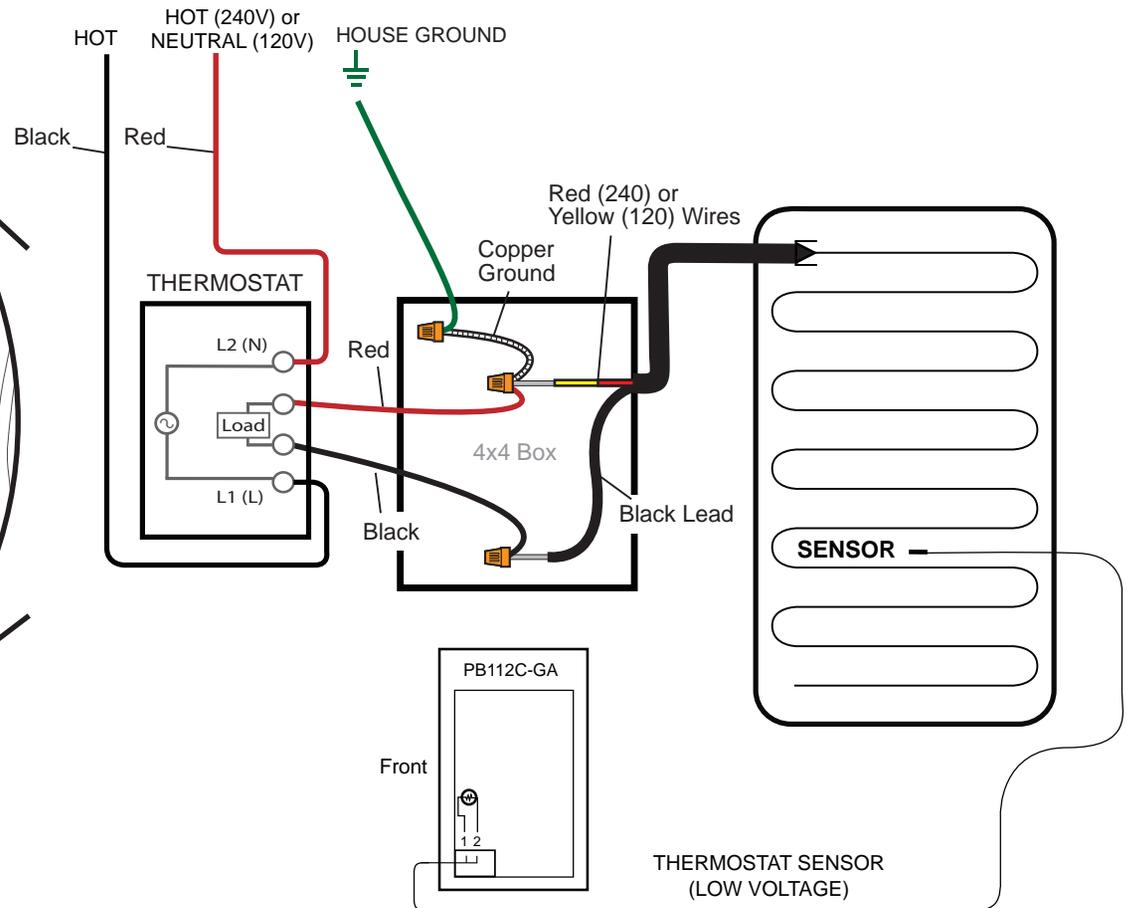
Installing The Thermostat

If you are using a thermostat with a floor sensor, place the sensor under the Environ II™ Cut & Turn Rolls, centered between two heat wires, at least 6" (150 mm) into the heated area.

Make a small divot in the underlayment in this spot and secure the sensor head in the divot with tape. Run the sensor cable in a channel cut into the underlayment from the heater and back to the thermostat. The "heater wires" within the roll are identified as raised parallel lines. The sensor wire should not cross over the foil heater wires, and is better placed in a channel cut into the underlayment, under the roll.



FROM POWER SOURCE 120V & 240V



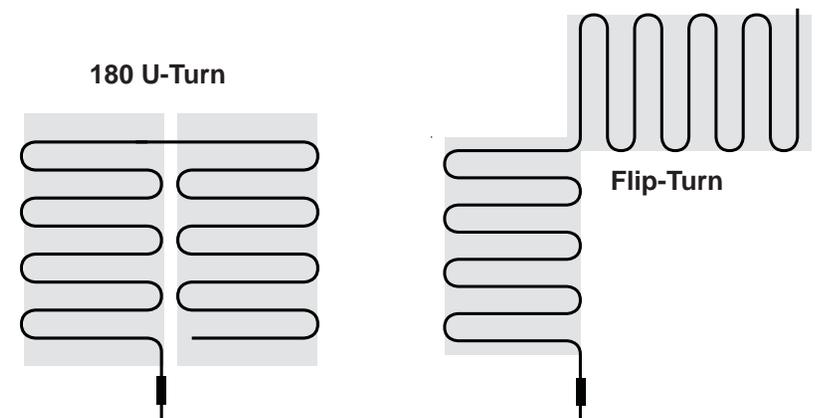
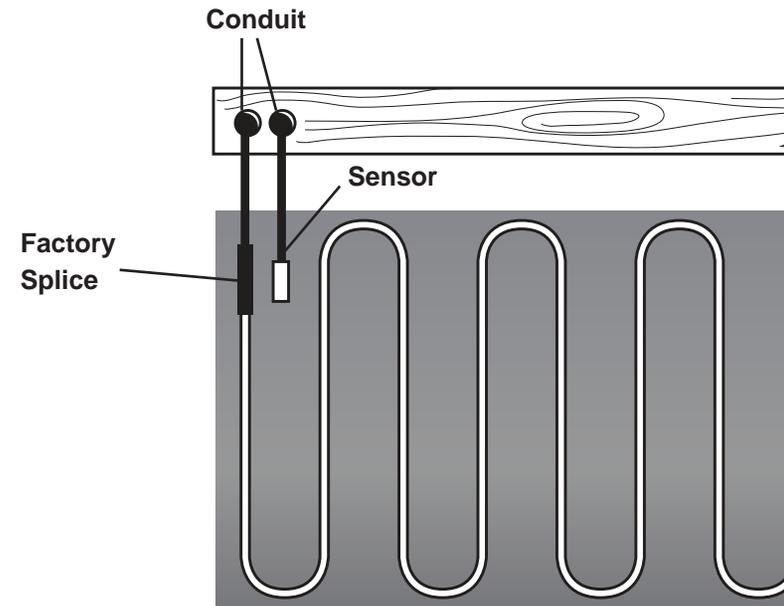
Environ II™ Cut & Turn Rolls should be connected to a CLASS – A Ground Fault Circuit Interrupter (GFCI) / Residual Current Device (RCD). Consult a qualified electrician.

Installation of Environ II™ Cut & Turn Roll System

- Once the underlayment has been installed in the correct manner, remove your Environ II™ Cut & Turn Rolls from the box, unroll it completely and place it in the required position on top of the underlayment.
- Make sure that Environ II™ Cut & Turn Rolls are installed with the correct orientation. Ensure that the side marked “THIS SIDE UP” is facing upwards.

When positioning the roll on the underlayment, be aware of the following:

- Ensure the power supply cables can reach the thermostat to which it will be connected.
- Wherever possible, run the power supply cables parallel or at right angles to the walls, and avoid high-traffic areas.
- Wherever possible, keep the corner where the power supply cable enters the roll away from high traffic areas.
- NEVER run the power supply cables under or over the rolls.
- The power supply cables (non-heating leads) must be installed in accordance with applicable National Electric Codes, Canadian Electric Codes, and local codes.
- The power supply cables (non-heating leads) are to be installed in listed conduit as the cables exit the floor if required by local code.
- Environ II™ Cut & Turn Rolls can be cut and turned at 90° or 180° (as shown in the bottom picture) to cover the total area (cable should not be cut)



Environ II™ Cut & Turn Rolls MUST NEVER BE CUT OR TRIMMED TO FIT INTO A SPACE THAT IS TOO SMALL FOR THE ROLL SIZE

Smooth out the roll and adhere the roll to the underlayment with adhesive tape or aluminum tape strips. After deciding the route that your power supply cables will take from the roll to the point of supply, cut a ¼" (6 mm) wide channel in the underlayment along this route and drop the power supply cables into this channel (See Figure 1). Similarly you have to cut a small section / channel in underlayment or laminate depending on the position of thermostat floor sensor. You may also need to remove a small section of underlayment from under the roll at the point where the power supply cord enters the roll, to prevent excessive wear on that part of the roll.

When installing two or more Environ II™ Cut & Turn Rolls next to each other, make sure that the heating wires in adjacent rolls do not overlap. We recommend the use of adhesive tape to assure that they will not overlap over a period of time.

Environ II™ Cut & Turn Rolls must be fit directly on top of the underlayment, and directly under the flooring.

To avoid damage to your rolls during installation, care must be taken so that tools with sharp edges or points are not dropped or used carelessly on top of the rolls. Do not walk on the rolls more than is absolutely necessary during installation, and do not drop or place heavy materials on the rolls.

Environ II™ Cut & Turn Rolls must not be folded, and care should be taken in order to not fold or crease the rolls at any time during installation. For this reason Environ II™ Cut & Turn Rolls are not suitable for use on stairs. Should you wish to move your roll(s) at some later stage, please remember to roll it rather than folding it.

Note: These installation instructions are NOT intended to replace or supersede the installation instructions provided by the manufacturer of the wood laminate, but to supplement them.

You should comply with BOTH sets (floor covering and floor heating) of installation instructions.

In the event of any apparent contradiction between the Environ II™ Cut & Turn instructions and the floor covering manufacturer's instructions, kindly contact WarmlyYours for clarity on how to proceed, (800) 875-5285.

NOTE: A qualified, licensed electrician in accordance with local building and electrical codes, and the National Electric Codes, Canadian Electric Codes, and local codes, especially Article 424, Part IX of the NEC, ANSI/NFPA 70 and Section 62 of CEC Part I, must do all electrical work.

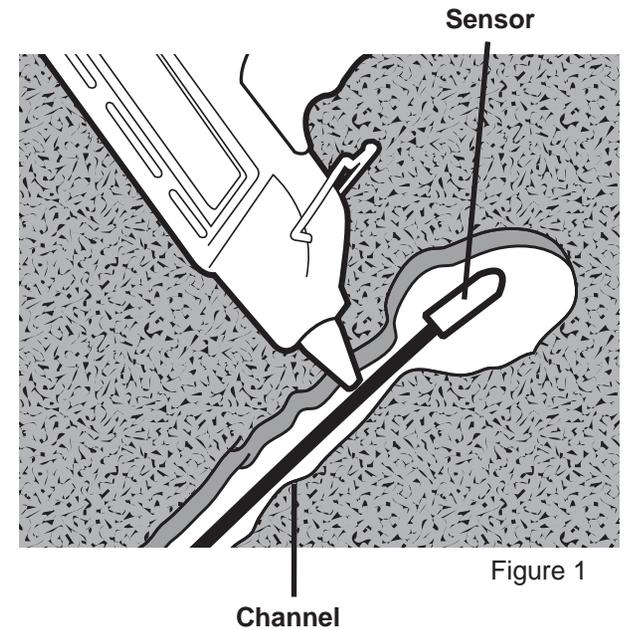


Figure 1

Warranty Information

Please complete and return the Warranty Card (online or you may send/fax this form)

Thank you for purchasing your new WarmlyYours Environ II™ floor warming system. To register your system, go online to www.WarmlyYours.com/warranty, or simply complete, detach and mail the Warranty Card within 30 days of date of purchase to: WarmlyYours, 590 Telser Road., Suite B, Lake Zurich, IL 60047. For your convenience, you may also fax this card to (800) 408-1100.

1. HOMEOWNER INFORMATION			
Name		Phone	
Address		Email	
City	State	Postal/Zip	
Fax			

2. FLOOR INSTALLER INFORMATION			Check here if homeowner installed <input type="checkbox"/>
Company Name		Phone	
Address		Email	
City	State	Postal/Zip	
Fax			

3. ELECTRICIAN INFORMATION			
Company Name		Phone	
Address		Email	
City	State	Postal/Zip	
Fax			

4. HEATING SYSTEM INFORMATION		
Install Date		
Installed Under: <input type="checkbox"/> Laminate <input type="checkbox"/> Floating Wood <input type="checkbox"/> Other		
(Please specify other) _____		
Sub Floor Material		
Set In		
Total Rolls Installed		
	Roll Size	Final Ohm Reading
Roll 1		
Roll 2		
Roll 3		
Roll 4		
Roll 5		
Roll 6		
Roll 7		

WarmlyYours No Nonsense™ Warranty is the most comprehensive warranty in the industry. We guarantee your Environ II™ warming roll to be free from defects in material and workmanship for a FULL ten years* from the date of purchase. Because we don't prorate your coverage, you have the same coverage over the entire life of the warranty. Unlike other companies, WarmlyYours will cover the cost of the warming roll AND the floor covering material AND labor, in the event of a defect. There is no other warranty like it.

Full Warranty Information

WarmlyYours.com Inc. warrants the Environ II™ electric floor heating system ("the Product") to be free from defects in materials and workmanship for five or ten years* from the date of purchase.

Be free from defects in materials and workmanship for five or ten years* from the date of purchase, provided that the Product is installed in accordance with the accompanying Installation and Homeowner's Manual, and any special written design or installation guidelines provided by WarmlyYours.com Inc. for this project, the National Electric Code (NEC), and all applicable local building and electrical codes.

WarmlyYours.com Inc. assumes no responsibility under this warranty for any damage to the product caused by any trades people, or visitor on the job site, or damage caused as a result of post installation work.

Call our toll free number 1-800.875.5285 if you have any questions about installation. Under this Limited Warranty, WarmlyYours.com Inc. will provide the following remedy:

If the Product is determined to be defective in materials and workmanship, and has not been damaged as a result of misuse or misapplication, WarmlyYours.com Inc. will reimburse the costs for location of the fault, repair of Product, as well as labor and materials required to perform the repair.

If the repair of the product is not feasible, WarmlyYours.com will replace the Product or refund the original cost of the Product.

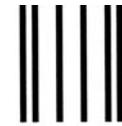
The Limited Warranty is null and void if the project owner or his representative attempts to repair the Product without receiving authorization. Upon notification of a real or possible problem, WarmlyYours.com will issue an Authorization to Proceed under the terms of the Limited Warranty.

WARMLYYOURS.COM INC. DISCLAIMS ANY WARRANTY NOT PROVIDED HEREIN, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. WARMLYYOURS.COM INC. FURTHER DISCLAIMS ANY RESPONSIBILITY FOR SPECIAL, INDIRECT, SECONDARY, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THIS PRODUCT, INCLUDING INCONVENIENCE OR LOSS OF USE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE FACE OF THIS DOCUMENT. NO AGENT OR REPRESENTATIVE OF WARMLYYOURS.COM HAS ANY AUTHORITY TO EXTEND OR MODIFY THIS WARRANTY UNLESS A CORPORATE OFFICER MAKES SUCH EXTENSION OR MODIFICATION IN WRITING.

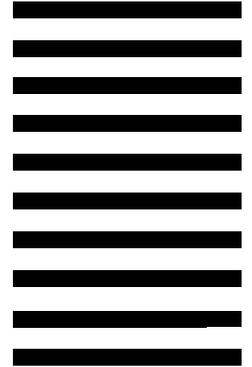
* Our No Nonsense™ Warranty for Environ II covers 10 years for under laminate or floating wood floors.



WARMLYYOURS
RADIANT HEATING



NO POSTAGE
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IN THE
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BUSINESS REPLY MAIL
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590 Telser Road, Suite B,
Lake Zurich, IL 60047

