



## FiberPad

UNDERLAYMENT

### Installation Guide

---

A natural fiber, non-toxic carpet underlayment with a luxurious feel that doesn't compromise health or sustainability. Made of 80% natural fibers and designed with thermal and acoustic properties in mind, FiberPad is the ideal choice for carpet underlayment when comfort is key.





**FiberPad** is a natural fiber carpet underlayment material for impact sound transmission reduction and increased thermal comfort. Engineered with a density and fiber composition that is designed to be long lasting, FiberPad makes traditional carpet underlayment obsolete. It's composed of 80% hemp fiber and 20% elastomeric bonding fiber, which gives it a supple rebound while maintaining durability.

At R3.7 per inch, FiberPad will contribute to thermal comfort in your floors, which feels not just better on your feet, but can minimize energy loss through floors. FiberPad is available in half inch thickness with an effective thermal resistance of R1.85.

Treated with biobased fire retardants that are Red List ingredient free, free of VOC's, and non-toxic, FiberPad is a safe to use material, tested in accordance with International Building Code Standards.



## Why FiberPad

Since conventional synthetic carpet rebond underlayment and similar products have been introduced to the market, they have been linked to over 44 harmful chemicals that cause reproductive harm, hyperactivity, and lung irritation.

**FiberPad isn't just a healthier choice for your home, it's a more sustainable choice.**

Hempitecture manufactures FiberPad with primarily US grown hemp fiber. Hemp fiber is a natural bast fiber from the industrial hemp crop that is durable, moisture wicking, and requires minimal to zero pesticides or fertilizers to produce. During its growth, the hemp plant captures carbon dioxide, storing it in the soil and in the plant mass itself. As a result, FiberPad has a low to negative carbon footprint, thanks to the carbon sequestering capabilities of industrial hemp. There is no THC or psychoactive compounds in industrial hemp fiber.



Alternatively, synthetic carpet underlayment materials are produced from an array of industrial petrochemical based synthetic polymers. These polymers, or plastics, include Polyethylene Terephthalate, High-Density Polyethylene, Polyvinyl Chloride, Polypropylene, and more. Generally, these materials have high carbon footprints, making them unsustainable feedstocks for carpet underlayment. While the use of plastics is widely accepted and they have their appropriate applications, often synthetic carpet padding is made up of low quality plastics that break down over time. When living in your home and walking over your carpets, synthetic rebond underlayment can release microscopic dust that becomes airborne, contributing to health concerns.

**This is why we have engineered FiberPad: to make homes healthier, more sustainable, and to have less impact both on our own indoor environment, as well as our planet.**

## PRIMARY USE

FiberPad is a carpet underlayment material that is installed over a subfloor or substrate before the installation of carpet. It should be used for above grade applications and can be installed similarly to conventional carpet padding. A utility knives can be used, but due to the strength of the underlayment, carpet trimmers or scissors can also be used.

## SIZE

FiberPad is 5/16" thick

Width = 4'

Length = 33.75'

Square feet = 135 SqFt



## TECHNICAL DATA

### ASTM C518

Thermal Resistance @ 75 F - R1.873

Apparent Thermal Conductivity (Btu.in/ft<sup>2</sup>.h.°F) = .03859

Thermal Resistivity Per Inch (ft<sup>2</sup>.h.°F/Btu.in) = 3.74

### ASTM C303

Specimen Mass (gsm) = 1320 / SqFt

Specimen Mass (lb/ft<sup>3</sup>) = 7

Average Thickness (in) = .501

### ASTM C1338

Fungi Resistance - Pass

### FF 1-70

Pill Test - Pass

*(The flammability was determined in accordance with Title 16 CFR Chapter II, Subchapter D, Part 1630)*



## Preparing for Installation

Installing FiberPad is easy, and follows the best practices of installing conventional carpet underlayment. Ensure that all of your carpet installation preparation is complete, such as the installation of carpet tack strips. Clean floor of any debris by sweeping or vacuuming.

## Tools Needed

Carpet Trimmers or scissors  
Broom or Vacuum  
Hammer Tacker  
Measuring tape  
PPE

### STEP 1

Unroll FiberPad across the length of your floor and make a cut using a sharp utility knife, ensuring that the length of FiberPad is slightly longer than the space you plan to install it. A wood scrap such as a 2x4 could be used as a backer to cut through FiberPad. Because hemp fiber is extremely strong, this wood backer may be useful to cut through FiberPad.



### STEP 2

Roll FiberPad back across the room, cutting the segments you need to install.

### STEP 3

Once you have rough-cut your pieces for the installation area, set the roll of FiberPad off to the side so you can begin affixing FiberPad to the floor

### STEP 4

Starting in a corner, align FiberPad with your carpet tack strips, leaving approximately  $\frac{1}{8}$ " to  $\frac{1}{4}$ " gap between your tack strip and FiberPad.



## STEP 5

Using a hammer tacker with minimum ½" staples, tack FiberPad to your substrate, ensuring alignment with the carpet tack strip. Use a pattern of every 6-8" for the staples.



---

## STEP 6

Go to the other side of FiberPad, opposite from where you started, and pull FiberPad tight. This is critical to avoid any wrinkles in FiberPad, and subsequently your finished Carpet.

---

## STEP 7

After ensuring that FiberPad is pulled taught, use your hammer tacker to install a line of staples in the center of FiberPad. Go back to where you started, and add more staples on a 6-8" pattern.

---

## STEP 8

Pull FiberPad taught to where you will make your finish cut, and cut FiberPad to align with your already installed carpet tack strip.



## STEP 9

Install a line of staples, keeping FiberPad taugt, to complete the first row.



---

## STEP 10

For subsequent rows of FiberPad, repeat the same process. When aligning seams of FiberPad, leave a 1/8" gap so that the installation of staples does not cause FiberPad to buckle, creating an overlap of two strips of underlayment.



---

## STEP 11

Complete process until your subfloor is covered, and you are ready to install carpet over your healthy, non-toxic floor.



hempitecture®

---

Hempitecture Inc. 421 E 500 S. #100  
Jerome, ID 83338

---

[hempitecture.com](http://hempitecture.com)  
208.218.8698  
[sales@hempitecture.com](mailto:sales@hempitecture.com)

---

TRULY  
SUSTAINABLE  
BUILDING  
MATERIALS  
FOR  
PEOPLE  
& PLANET