

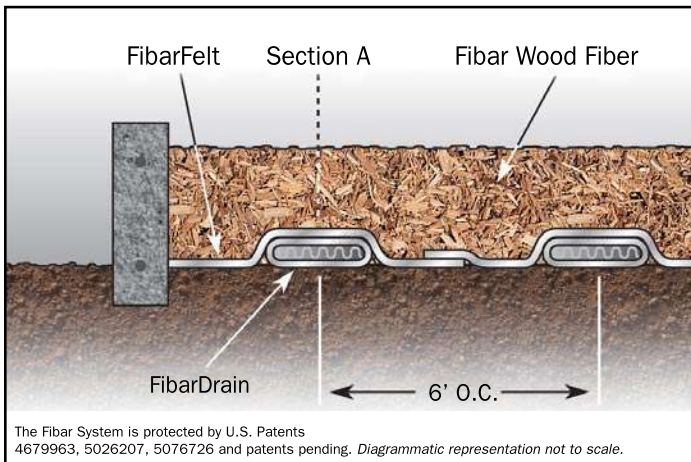
Fibar® System 300

Specifications, Installation and Maintenance Instructions

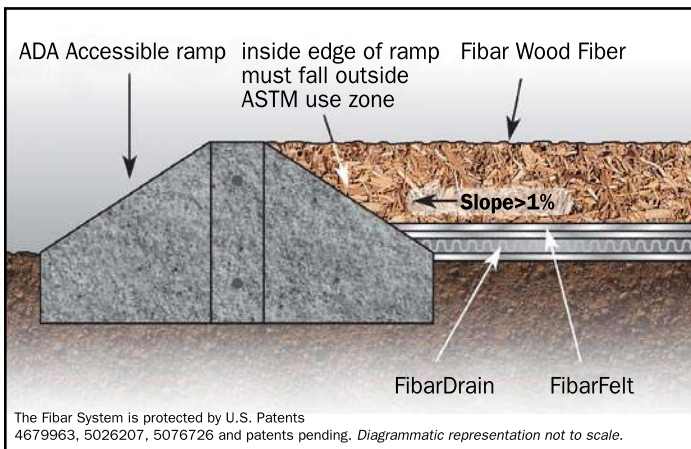
Fibar Systems are unique playground surface products, covered by one or more patents owned by The Fibar Group, LLC. Award contractors *must obtain a license* from The Fibar Group, LLC, prior to construction.

Fibar System 300 comes with a **25-year Warranty**.

1. Fibar System 300: Above ground



2. Fibar System 300: Above ground, Section A

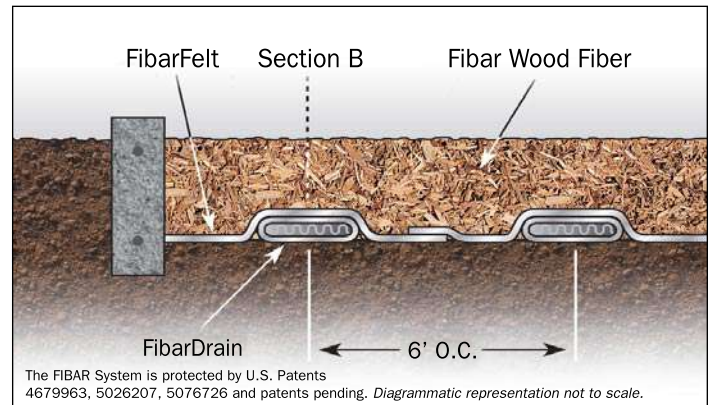


3. FibarMat Wear Mats

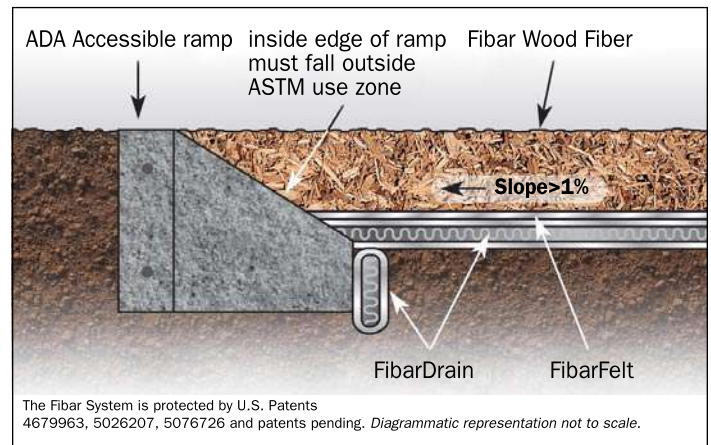


To prevent displacement of the Fibar in high-use areas, to preserve your warranty, and reduce maintenance, FibarMat wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas including sliding poles. This will help to ensure compliance with federal accessibility standards.

4. Fibar System 300: In-ground



5. Fibar System 300: In-ground, Section B



IPEMA CERTIFIED

In the interest of public playground safety, IPEMA provides a Third-Party Certification Service whereby an independent laboratory validates a surfacing manufacturer's conformance to ASTM F1292, **Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment** and for an Engineered Wood Fiber manufacturer, its certification of conformance, also, to ASTM F2075, **Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment**, Section 4.6, for testing the presence of tramp metal and hazardous metals. The use of the corresponding logo(s) in Fibar® materials signifies that Fibar has received written validation from the independent laboratory that the product(s) associated with the use of the logo(s) conforms to the requirements of the indicated standard. Check the IPEMA website (www.ipema.org) to confirm product certification, its thickness, and critical height.

Furniture Leisure
 Commercial Site Furnishings

FurnitureLeisure.com PoolFurnitureSupply.com
 PicnicFurniture.com PicnicTableSupplier.com
 ParkTables.com UBrace.com

1-800-213-2401 | sales@furnitureleisure.com

Fibar® System 300

Specifications

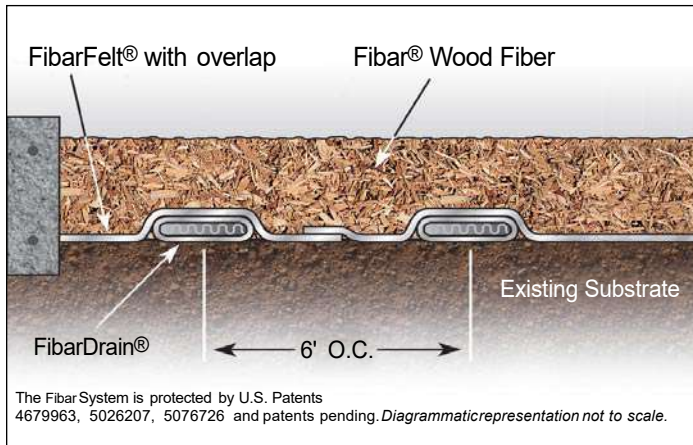
SYSTEM	DESCRIPTION	SPECIFIED FALL HGT.	USE
312	12" Fibar EWF, FibarFelt Geotextile, Drain Strip	Up to 12'	Playground
310	10" Fibar EWF, FibarFelt Geotextile, Drain Strip	Up to 10'	Playground
308	8" Fibar EWF, FibarFelt Geotextile, Drain Strip	Up to 8'	Playground
306	6" Fibar EWF, FibarFelt Geotextile, Drain Strip	Up to 6'	Jogging track
ALL	FibarMat Wear Mat Minimum 36" x 36" x 1.5" with beveled edges for accessibility	Not Applicable	Playground

Note: Depth measurements are approximate after compaction.

PART 1: GENERAL

A license to construct a Fibar System according to these specifications must first be obtained from The Fibar Group, LLC, as licensor of the patent rights reflected in U. S. Patent numbers 4,679,963; 5,026,207; 5,076,726; and other patents pending.

To prevent displacement of the Fibar in high-use areas, to preserve your warranty, and reduce maintenance, FibarMat wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas including sliding poles. This will help to ensure compliance with federal accessibility standards.



- 1.1 Provide Fibar System Playground Safety Surface in areas indicated on plans.
- 1.2 Provide Safety Surface immediately after installing playground equipment.
- 1.3 Fibar Systems and FibarMats are available from your local Representative or directly from The Fibar Group, LLC, 80 Business Park Drive, Suite 300, Armonk, NY 10504-1705. You can call ☎ 800-342-2721 ☎ 914-273-8770 or email info@fibar.com.

Part 2: Materials

- 2.1 Provide Fibar® Engineered Wood Fiber to a compacted depth, as specified by the system height, over FibarFelt (100% polyester non-woven geotextile) and FibarDrain drain strip (minimum flow rate of 10 gpm/ft.)
- 2.2 The amount of Fibar Engineered Wood Fiber necessary to provide the approximate depth, after compaction, is as follows:

DEPTH	QUANTITY (for 1,000 sq. ft. playground)
8"	38 cubic yards
10"	43 cubic yards
11"	46 cubic yards
12"	50 cubic yards

- 2.3 Provide FibarDrain strip 6' apart over entire play area and overlay with FibarFelt geotextile.
- 2.4 Provide one (1) FibarMat wear mat (minimum size: 36" x 36" x 1.5" with 2" beveled edges on all 4 sides) under each swing seat, tire swing, slide exit, and sliding pole. Double and triple slides may require multiple FibarMats.

PART 3: QUALITY CONTROL

- 3.1 Surfacing shall be **IPEMA-CERTIFIED** Engineered Wood Fiber. Standard wood chips or bark mulch will not be acceptable.
- 3.2 Supplier must provide test results for Engineered Wood Fiber and FibarMats for impact attenuation in accordance with **ASTM F 1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment**.
- 3.3 Testing of Engineered Wood Fiber in accordance with **ASTM F 1292** must show G-Max value of less than 200G for a 12" system with a 12' drop height and HIC values of less than 1,000.
- 3.4 Supplier must provide test results for Engineered Wood Fiber in accordance with **ASTM F 2075 Standard Specification for Engineered Wood Fiber For Use as a Playground Safety Surface Under and Around Playground Equipment**.
- 3.5 Testing of FibarMats in accordance with **ASTM F 1292** must show G-max values of less than 200G and HIC values of less than 1,000 for a 3' drop height.
- 3.6 Supplier must provide test results in accordance with **ASTM F 1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment**.
- 3.7 Supplier must certify that the surface meets the intent of the *Americans with Disabilities Act (ADA)*.
- 3.8 Supplier must provide written manufacturer's **25-year Warranty** against loss of resiliency, lifetime warranty on FibarFelt and FibarDrain materials.
- 3.9 Supplier must provide **\$10 Million** product liability insurance certificate with project owner named as certificate holder, prior to delivery.
- 3.10 In Canada, supplier must meet CSA guidelines.

PART 4: INSTALLATION

- 4.1 Install the FibarDrain System, Fibar Engineered Wood Fiber, and FibarMats in accordance with manufacturer's instructions.

PART 5: MAINTENANCE

- 5.1 Maintain the Fibar Engineered Wood Fiber in accordance with manufacturer's instructions.

Fibar System 300 Specifications, Installation & Maintenance Instructions.
© 2013 The Fibar Group, LLC

U.S. Patent Numbers 4,679,963; 5,026,207 & 5,076,726.

The Fibar Group, LLC, 80 Business Park Dr., Ste. 300, Armonk, NY 10504-1705.

☎ 800-342-2721 ☎ 914-273-8770 Fax 914-273-8659

Email: info@fibar.com Website: www.fibar.com

Fibar® System 300

Installation

PLEASE NOTE:

In accordance with standard design and construction practices, The Fibar Group, LLC and its Representatives recommend using the services of a certified engineer, architect, or landscape architect who is familiar with local soil and climate conditions to evaluate and interpret any information provided by The Fibar Group, LLC and its Representatives.

The Fibar Group, LLC assumes no responsibility for determining the size of the playground or the Use Zone between the equipment and the border. Installer must thoroughly examine the site and specifications, carefully checking the dimensions before starting work.

All instructions are subject to equipment manufacturers' installation specifications.

Read Fibar System 300 Specifications, Installation and Maintenance Instructions, all available from The Fibar Group, LLC ☎ 800-342-2721 or ☎ 914-273-8770 or email info@fibar.com or contact your local Representative.

A. IN-GROUND INSTALLATIONS

1. Excavate area to proper depth, based on Critical Fall Height, with a minimum 1% downward grade to ensure proper drainage to FibarDrain strip. It is not recommended that a Fibar System be installed on a grade greater than 10%. All roots, stones, and vegetation must be removed.
2. The area should be well-compacted and accurately graded, especially in areas where additional fill has been brought in.
3. Cut a trench 2" wide by 6" deep all along the inside edge perpendicular to the grade and install FibarDrain strip. Connect low end of FibarDrain strip to storm drain or similar device to take water collected from the playground away from the site. (See Figure 5).

B. IN-GROUND (Cont.) & ABOVE-GROUND INSTALLATIONS

4. Install playground equipment.
5. Install retaining border, if required.
6. ADA Wheelchair Access Ramp must be installed to ensure compliance with federal accessibility standards.
7. Cut FibarDrain strips and lay them on 6' centers in direction of grade.
8. Cover sub-grade with FibarFelt geotextile. Overlap all seams 3". Make sure to cover the trench and FibarDrain in step #3 (if applicable). It will be necessary to slit the FibarFelt to fit around the footings of the equipment. Where possible, overlap all slits with next piece of FibarFelt.
9. **IMPORTANT:** With an indelible marker, **mark off all the legs** of the equipment with the compacted System design depth.
10. Spread Fibar Engineered Wood Fiber, using a Bobcat or a small front-end loader. Operator should be careful not to travel on the FibarFelt Geotextile or turn sharply on the wood fiber. It will also be necessary to use hand labor to spread. To allow for natural compaction, we supply additional material. **Important: Install all the wood fiber delivered.** The fiber will be several inches above grade or border until it compacts. Feather the edges to make a smooth transition to existing grade or border.
11. Hand-rake for a smooth & level finished surface. Natural compaction will occur over time and is dependent

on the amount of playground use and environmental conditions. To accelerate the compaction process, Fibar Engineered Wood Fiber can be mechanically compacted at an additional cost. The Fibar can be compacted in the accessible route to the equipment or the entire surface area. To mechanically compact the Fibar, install in 5" lifts using a plate compactor or other mechanical device. Change direction 90 degrees between each layer. Optional: Wet the surface before compacting. Repeat these steps until the desired level finished thickness is achieved. This accelerated compaction method, without wetting the surface, was used in the laboratory for the ASTM F1951 test procedure

12. Install FibarMat wear mats on top of the Engineered Wood Fiber. To preserve your warranty, reduce maintenance, and to help ensure compliance with ADA accessibility standards, FibarMat wear mats must be installed at all heavy-use areas including swings, tire swings, slide exits, and sliding poles. FibarMat wear mats are available through your local Fibar Representative.
13. After two weeks of active use, surface should be raked again.
14. *For complete information on Use Zones, contact the Consumer Product Safety Commission (CPSC) and ASTM.*
15. See Fibar System 300 Maintenance Instructions for requirements with respect to inspections, raking, top-off, and other maintenance advice.



Compliance with Federal Law.

To prevent displacement of the Fibar in high-use areas, FibarMat wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas, including sliding poles. This will help to ensure compliance with federal accessibility standards.



WARNING

Incorrect installation or maintenance, failure to install all the materials delivered, failure to maintain original design depth, failure to use FibarMat wear mats at slide exits, under all swings and tire swings (except enclosed or tot swings), other wear areas (a wear area is any area in the playground where the surface depth falls below the System design depth for the playground surface), use of the Fibar System and/or materials with others not provided by The Fibar Group, LLC, abnormal use, lack of proper maintenance, or vandalism can result in serious injury or death. Be aware that no playground surface can prevent all accidents or injuries.



WARNING

Winter Conditions. Should there be moisture retention in the Fibar System, it will freeze when the temperature drops below the freezing mark. Please check your surface frequently in winter weather. When the surface is frozen, the impact attenuation properties of Fibar are lost and for this reason, the play area should not be used.



Reread the Installation and Maintenance Instructions periodically.

If at any time you are concerned about the surface and its performance, please contact us at ☎ 800-342-2721 or ☎ 914-273-8770 or email info@fibar.com.

Fibar® System 300

Maintenance Instructions

- 1. Visual Inspection.** Look for debris-especially stones, broken glass or other foreign objects and remove them. Check to make sure that the level or depth of the Fibar® Engineered Wood Fiber surface doesn't fall below the original design depth. The legs of the equipment should have been marked with a bold horizontal mark showing the design depth when originally installed. If they are not, take the time to mark the legs with an indelible marker at the original design depth, measuring from the bottom of the Fibar surface. This will allow you to readily see when Fibar needs to be redistributed or topped off to maintain proper original design depth. If the equipment was not marked, or you choose not to mark it, the surface must be checked at a number of points using a long-handled screwdriver marked in inches to determine the actual depth. If the actual depth is below the original design depth, redistribution and/or top-off is needed. See **Raking**, below, and top off if the depth of the Fibar is below the original design depth. Inspect the surface daily.
- 2. FibarMat Wear Mats.** To prevent displacement of the Fibar Engineered Wood Fiber in high-use areas, FibarMat wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas, including sliding poles. This will help to ensure compliance with federal accessibility standards. FibarMat wear mats reduce maintenance. If FibarMats were not ordered when you ordered the Fibar System, please call your local representative or contact The Fibar Group, LLC ☎ 800-342-2741 or 914-273-8770 or ✉ info@fibar.com.
- 3. Top-Off.** Experience has shown us that installations typically require top-offs after three (3) years of use (in heavily used playgrounds, maybe sooner). The legs of the equipment should have been marked according to the specified depth when originally installed. The marks make it easy to determine when your Fibar surface falls below this level and requires topping off with fresh material. If the equipment was not marked, the surface should be checked at several points by using a longhandled screwdriver marked in inches to determine the actual depth. Top-offs can sometimes be scheduled with other deliveries to minimize the freight cost.
- 4. Raking.** Areas of constant wear and impact should be raked level. Pay particular attention to areas under swings, sliding poles, and at slide exits. When a Fibar System installation is close to a sand pit, the sand may get tracked into the Engineered Wood Fiber surface. This can change the impact attenuation of the Fibar System surface. The surface should be raked clean of debris.
- 5. Accessibility.** Depending on weather and usage, a Fibar surface will compact to provide access for wheelchairs, crutches, walkers, and wheeled vehicles.

At accessible entrances onto the playground surface, ensure that the Fibar material, accessible route or the

top of the access ramp is within ¼ inch of the top of the play area border. An ADA-compliant access ramp into the play area will help reduce maintenance in this area.

- 6. Drainage.** Check the performance of the drain system by ensuring that water is flowing from a drain system outflow pipe immediately after rain. Also, make sure there is no standing water on the playground surface. It is important to have a functioning drainage system to improve Fibar's life expectancy and the resilience of the surfacing.
- 7. Weeds.** On playgrounds that only receive light usage, conditions could occur that might cause sporadic weed growth. In such instances, the situation can easily be remedied by the use of a safe weed killer (call your local Cooperative Extension office) or remove weeds by hand.



Compliance with Federal Law.

To prevent displacement of the Fibar in high-use areas, FibarMat wear mats must be installed under all swings, tire swings, slide exits, and all other wear areas, including sliding poles. This will help to ensure compliance with federal accessibility standards.



WARNING

Incorrect installation or maintenance, failure to install all the materials delivered, failure to maintain original design depth, failure to use FibarMat wear mats at slide exits, under all swings and tire swings (except enclosed or tot swings), other wear areas (a wear area is any area in the playground where the surface depth falls below the System design depth for the playground surface), use of the Fibar System and/or materials with others not provided by The Fibar Group, LLC, abnormal use, lack of proper maintenance, or vandalism can result in serious injury or death. Be aware that no playground surface can prevent all accidents or injuries.



WARNING

Winter Conditions. Should there be moisture retention in the Fibar Engineered Wood Fiber, it will freeze when the temperature drops below the freezing mark. Please check your surface frequently in winter weather. When the surface is frozen, the impact attenuation properties of Fibar are lost and for this reason, the play area should not be used.



Reread the Installation and Maintenance Instructions periodically.

If at any time you are concerned about the surface and its performance, please contact us at ☎ 800-342-2721 or ☎ 914-273-8770 or email info@fibar.com.

Fibar System 300 Specifications, Installation & Maintenance Instructions.
© 2013 The Fibar Group, LLC
The Fibar Group, LLC, 80 Business Park Dr., Ste. 300, Armonk, NY 10504-1705.
☎ 800-342-2721 ☎ 914-273-8770 Fax 914-273-8659
Email: info@fibar.com Website: www.fibar.com