

**Kempfer Sawmill, Inc.**  
**K-Turf Installation & Maintenance**

**INSTALLATION:**

1. Please visit the IPEMA website ([www.ipema.org](http://www.ipema.org)) to print a certificate showing the Certified Playground Material (CPM) is IPEMA certified for ASTM F1292 for impact attenuation within the use zone of the playground equipment, and ASTM F2075 - sieve analysis, tramp metals and hazardous metals.
  
2. Prepare the site in accordance with the project engineer's directions and project specifications.
  
3. Drainage installation is recommended to increase the life of K-Turf, reduce mold and fungus issues and help retain resiliency during cold temperatures. Different drainage systems are available.
  
4. Installing one or more compliant ADA ramps into the play area is recommended to allow an accessible entrance to and from the play area.
  
5. *Kempfer Sawmill, Inc. K-Turf has been tested and certified at a 12 inch compacted installation depth and offers fall protection up to 12 feet.*  
Once drainage is installed, proceed to install the K-Turf at the recommended thickness per the *equipment manufacturer's recommendations.*  
Be sure the surface is level & compacted.

\*\*\*Kempfer Sawmill, Inc. 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.

Kempfer Sawmill, Inc. recommends that all K-Turf provided by Kempfer Sawmill, Inc., including product data, specifications, installation instructions and maintenance procedures, instructions and specifications, be reviewed by a certified engineer, architect or landscape architect familiar with local soil and climatic conditions.

Further, purchaser should determine and specify fall heights and equipment use zones as required by the Consumer Product Safety Commission's Handbook for Playground Public Safety, applicable ASTM standards, and state and local codes and regulations.

## **MAINTENANCE:**

**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 Kempfer Sawmill, Inc. K-Turf surface doesn't fall below the original design depth. Periodical adjustments of Kempfer Sawmill, Inc. K-Turf are required under slides, swings and other concentrated use zones. 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 Kempfer Sawmill, Inc. K-Turf surface. This will allow you to readily see when Kempfer Sawmill, Inc. K-Turf 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. Inspect the surface daily.

**3. Top-Off.** Experience has shown that installations typically require top-offs after three (3) years of use (on some playgrounds, maybe sooner). See Paragraph 1, Visual Inspection, for guidelines on how to know when your playground needs a surface top-off.

**4. Raking.** Wear areas should be raked level and maintained at the original design depth. Top-off, if more Kempfer Sawmill, Inc. K-Turf is needed to maintain the original depth. See Paragraph 1, Visual Inspection, regarding the use of the marks on the legs of the equipment to readily determine the relationship between the actual depth and the original design depth. When a Kempfer Sawmill, Inc. K-Turf installation is close enough to a sand pit that sand gets tracked into the Kempfer Sawmill, Inc. K-Turf, this could adversely change the impact attenuation characteristics of the Kempfer Sawmill, Inc. K-Turf

**5. 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 Kempfer Sawmill, Inc. K-Turf life expectancy and the resilience of the surfacing.

**7. Weeds.** Conditions could occur that might cause weed growth. You can remedy this situation by use of a safe weed killer (call your local Cooperative Extensions office for recommendation) or pull out weeds by hand.