

Loksand[®]



A brand of

IFG

[®] International
Fibres Group

For hard wearing natural surfaces

www.fibresgroup.com

Loksand®



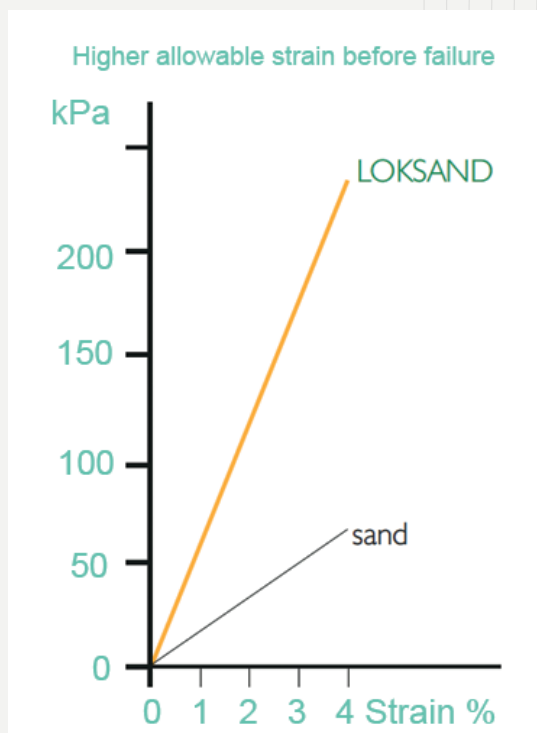
If wear and tear is knocking the stuffing out of your surfaces, its time to toughen up your act with a new product from the world leaders in rootzone and stabilisation systems. The unique, crimped profile of **Loksand®** fibre will bring back the bounce and give long lasting load bearing durability to high-wear areas of turf and sand surfaces.

Why Loksand® is the best

The principal of the fibre-stabilised rootzone is well established, with products being used for sports surfaces and access roads around the world. **Loksand®**, however, is the very latest step forward in turf technology. Designing the 'crimp' into the fibre has permitted a far superior interlock between fibres and sand, as well as introducing a shock-absorbing effect which rapidly restores surface uniformity after load distortion. No other product has the performance characteristics of **Loksand®**.

Loksand® - the benefits

- Produces a surface which stays firm and level for longer. Offers greater resistance to wear and tear.
- Aids rapid draining by reducing rootzone compaction. Real savings on cost and maintenance time
- Less divoting and more active recovery
- Provides a durable turfed load bearing surface



Equestrian Surfaces

Provide a consistently firm, free-draining surface ideal for both horse and rider

Sports Surfaces

Loksand® is the very latest step forward in turf technology. The 'crimped' fibre is mixed with sand to provide stabilisation of the rootzone, as well as introducing a shock-absorbing effect, which rapidly restores surface uniformity after load distortion. No other product protects pitches with the special performance characteristics of **Loksand®**.

Natural Grass Access Roads

- Dramatically improved load bearing capacity
- Greatly reduces 'rutting', furrows & grooves
- Cost effective & aesthetic 'Green road' solution for emergency and service vehicle access routes around buildings, airports, race tracks, golf courses, etc
- Prevents verge & roundabout damage due to unwanted vehicle use.

Natural Grass Car Parks

- A natural alternative to hard surface parking
- Ideal for overspill carparking
- The perfect solution for National Parks and other environmentally conscious area

Technical Support

All **Loksand®** products can be supplied worldwide and are matched by first rate technical support from IFG.

Whatever your particular needs, IFG has the proven experience, quality and expertise to help you achieve perfect results.

Architects Guide

Loksand® has revolutionised grass and sand stabilisation for landscape architects across the UK. Its advanced fibre technology provides a grass surface that is stable & free-draining, with excellent strength enabling it to be used for a variety of applications that are frequently trafficked.

Loksand® Provides:

- A durable & stable natural grass surface
- Free draining
- High load-bearing capacity
- Excellent resistance to highly trafficked areas
- Eliminates tracking on new grass
- Easily transportable
- Simple to install
- Long life-span

Application:

Whether you are specifying a grass covered car park, access road or public area **Loksand®** will provide a fully grassed solution that will remain durable and resistant to wear no matter how often it is used.

Typical Applications:

- Emergency and access roads
- Overspill car parks
- Golf course buggy routes and walkways
- Public recreation areas
- Verges & pedestrian walkways



Loksand® is a traditional sand and sand based substrate blended with polypropylene fibres. During the mixing process the crimped polypropylene fibres are entwined with the sand increasing the sand's overall strength and resistance.

Loksand® is applied above a Type 1 sub base layer then overlaid with turf to the specification of the project. As the turf becomes established the roots interlock with the **Loksand®**, further increasing stability and its cohesive strength.

Loksand® is fully compatible with Lindum Lokturf, a pre-grown turf with inbuilt polypropylene fibres providing excellent cohesive strength. The turf is less susceptible to divoting and compaction and will remain stable. Please contact an IFG sales advsor for more information.

Prior to application a number of considerations must be made to evaluate the quantity.



Required Loksand® depth

Type of Sand	Plasticity Index (%)	CBR (%) Water Table more than 600mm	CBR (%) Water Ta-
Heavy Clay	70	2	1
	60	2	1.5
	50	2.5	2
	40	3	2
Silty Clay	30	5	3
Sandy Clay	20	6	4
	10	7	5
Silt	-	2	1
Sandy (poorly graded)	Non-plastic	20	10
Sand (well graded)	Non-plastic	40	15
Well graded sandy gravel	Non-plastic	60	20

Sub-grade sand strength CBR% (table A)	Required Loksand depth	Sub-base layer depth for light vehicles	Sub-base layer depth for HGV's
12% (light vehicles)	150mm	No sub-base	N/A
>12% (HGV's)	200mm	N/A	No sub-base
6-12%	200mm	No sub-bas	No sub-base
4-6%	200mm	100mm	150mm
2-4%	200mm	150mm	200mm
1-2%	200mm	250mm	350mm



Revolutionising grass & sand stability

Loksand® has revolutionised grass and sand stabilisation for landscape architects across the UK. Its advanced fibre technology provides a grass surface that is stable & free-draining, with excellent strength enabling it to be used for a variety of applications that are frequently trafficked.

Whether you are specifying a grass covered car park, access road or public area **Loksand®** will provide a fully grassed solution that will remain durable and resistant to wear no matter how often it is used.

The Loksand Root Zone System...

The Loksand Rootzone system is a traditional sand and sand based substrate blended with polypropylene fibres. During the mixing process the crimped polypropylene fibres are entwined with the sand increasing the sand's over-all strength and resistance.

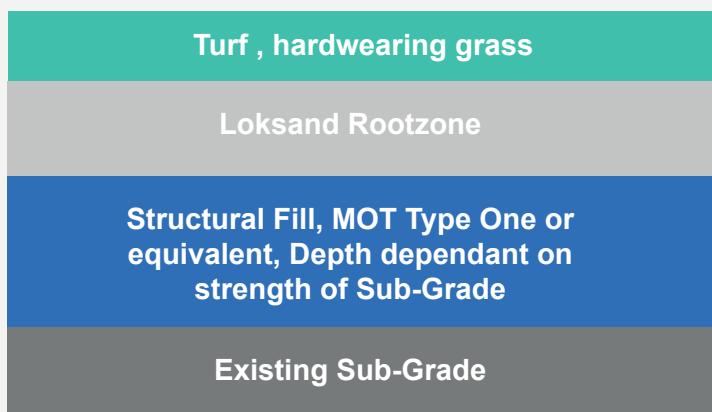
The Loksand Rootzone system is applied above a Type 1 sub base layer then overlaid with turf to the specification of the project. As the turf becomes established the roots interlock with the Loksand Rootzone, further increasing stability and its cohesive strength.

The Loksand Rootzone system is fully compatible with Lindum Lokturf, a pre-grown turf with inbuilt polypropylene fibres providing excellent cohesive strength. The turf is less susceptible to divoting and compaction and will remain stable, please contact us for more information .



Loksand Rootzone provides:

- A durable & stable natural grass surface.
- Free-draining
- High, load-bearing capacity
- Excellent resistance to highly trafficked areas
- Eliminates tracking on new grass
- Easily Transportable
- Simple to install
- Long life-span* with appropriate maintenance



Above diagram illustrates the use of **Loksand®** in a typical profile. A drainage design is subject to site specific conditions.



Prior to application a number of considerations must be made to evaluate the quantity and grade of **Loksand®** required. For all projects the subgrade strength must be evaluated. **Table A** below, illustrates the correlation between CBR value and sand type based on the characteristics of UK subgrades. The CBR table lists a variety of sub-grades in their equilibrium moisture condition for high and low levels of the water table. Once the CBR percentage has been evaluated **Table B** will determine the required layer thickness of **Loksand®**.



Type of sand	Plasticity Index (%)	CBR (%) Water Table more than 600mm	CBR (%) Water Table 600mm or less
Heavy Clay	70	2	1
	60	2	1.5
	50	2.5	2
	40	3	2
Silty Clay	30	5	3
	20	6	4
Sandy Clay	10	7	5
	-	2	1
Silt	-	2	1
Sand(poorly graded)	Non-plastic	20	10
Sand (well graded)	Non-plastic	40	15
Well-graded sandy gravel	Non-plastic	60	20

Table A: Estimated laboratory CBR values

Sub-grade sand strength CBR% (Table A)	Required Loksand Rootzone depth	Sub-base layer depth for light vehicles	Sub-base layer depth for HGVs
>12% (light vehicles)	150mm	No sub-base	N/A
>12% (HGV's)	200mm	N/A	No sub-base
6-12%	200mm	No sub-base	No sub-base
4-6%	200mm	100mm	150mm
2-4%	200mm	150mm	200mm
1-2%	200mm	250mm	350mm

Table B: Required Loksand Rootzone depth



Loksand Rootzone provides:

- Emergency and access roads
- Overspill car parks
- Golf course buggy routes and walkways
- Public recreation areas
- Public events
- Verges & pedestrian walkways

Loksand® has been used in a variety of applications including prestigious locations such as **The Parade Ring at Royal Ascot** (pictured), **Leeds Rhinos Rugby Club**, **Wentworth Castle Barnsley**, **Waterfront Golf Club in Wath** and **Derby Aboretum**.

FAQs

What is Loksand®?

The Loksand Rootzone system is a traditional sand and sand based substrate blended with polypropylene fibres. During the mixing process the crimped polypropylene fibres are entwined with the sand increasing the sand's overall strength and resistance.

Can I use Loksand® with ordinary turf?

Yes, but the turf must be washed and most of the sand Removed, this is to allow the roots to intertwine into the Loksand fibres.

Can I seed into Loksand®

Yes, but we suggest applying a thin layer of 70/30 root zone on top of the Loksand.



For more information visit fibresgroup.com