

GRASSHOPPER®

SAND-DRESSED SYNTHETIC GRASS

Charles
LAWRENCE
SPORTS SURFACES



FEATURES & BENEFITS

Charles Lawrence Surfaces Ltd offers a choice of sand-dressed synthetic grass pitch surfaces under the **Grasshopper®** brand. Two are specifically designed for hockey; a third is suitable for both football and hockey.

Sand-dressed surfaces are approved by the FIH (Fédération Internationale de Hockey) for matches up to international level apart from world-level competitions and qualifying tournaments.

They form an increasingly popular 'halfway house' between standard sand-filled pitch surfaces and the unfilled, pure-textile surfaces specified for the very highest levels of the game. They offer the appearance and playing characteristics of an unfilled surface at a price only a little above that of a sand-filled surface. In particular, unlike the unfilled surfaces, a sand-dressed surface does not require an expensive fixed watering system, which reduces both the capital cost and the running cost.

The tufted synthetic grass of the **Grasshopper®** sand-dressed surfaces have a pile density of around 37,000 to 40,000 stitches/m², in between the 18,000 to 20,000 stitches/m² of the sand-filled surfaces and the much denser 58,000 to 68,000 stitches/m² of the unfilled surfaces.

During the installation, the carpet is dressed with a small amount of sand which stabilises the pile and retains moisture, but remains invisible. With its underlying porous rubber shockpad, the complete system provides outstanding playing characteristics, comfort, safety and durability.



International-quality hockey surfaces at lower cost than an unfilled surface.

Option of a dual-purpose, hockey/football surface.

Carpet and shockpad designed together for foot grip, safety and comfort.

Engineered base using civil engineering 'best practice' provides stability and long life.

Permanent play lines in white, yellow or blue can be tufted in.

GRASSHOPPER® SAND-DRESSED SYNTHETIC GRASS

STABLE AND DURABLE PITCH SYSTEMS

All Grasshopper® sand-dressed pitches are built on an engineered base consisting of one or two courses of porous macadam laid on foundations of crushed rock. A continuous porous rubber shockpad, formed in situ and usually 15mm thick, is then laid over the macadam by a specialist paving machine.

Finally the synthetic grass carpet that forms the playing surface is laid over the shockpad and dressed with graded silica sand, which resides at the base of the pile. This form of construction gives a durable, stable, fast-draining pitch which is comfortable and secure to run on and produces carefully calculated ball/surface and player/surface interactions.



THE CHOICE OF CARPET

The carpet is the main variable within the system. All carpets are manufactured for us by approved suppliers under our ISO 9001:2000 Quality management System.

The yarn material used for all three sand-dressed surfaces is a polyethylene that offers low sliding resistance for maximum comfort and minimum risk of injury.

The pile lengths of the two dedicated hockey surfaces are 16mm and 18mm, and that of the dual-purpose hockey/football surface 20mm. With the longer pile, this gives an excellent grip, as well as producing bounce and roll characteristics suitable for both football and hockey.

Pile Carpet	Yarn	Pile		
		Length (mm)	Density (stitches/m ²)	Weight (g/m ²)
Grasshopper® SD16L	PE	16	37,800	1460
Grasshopper® SD18L	PE	18	39,900	1700
Grasshopper® SD20L	PE	20	44,100	2000

please note values are approximations only and are subject to design change.

MAINTENANCE & RENEWAL

Routine Maintenance:

Brush weekly with specialist rotary brush. Regularly remove loose debris and clean away deposits. Inspect surface annually for growth of moss or weeds.

Professional Maintenance:

Power grooming every few months will clean the surface and hinder moss growth. Apply moss / weedkiller as necessary. After typically 5 - 7 years, rejuvenate the pitch: this patented process removes dirt filtered out by the carpet and sand, restoring porosity and playing characteristics. After typically 10 or more years, renew the carpet on the existing porous shockpad and engineered base.