



Sports Flooring Guidance

Life Cycle and Surface Finish



LIFE CYCLE COSTS AND CHOICE OF SURFACE FINISH

Life Cycle Costs And Choice Of Surface Finish

When buying or replacing a new sports floor it is important to not only consider the initial costs but the maintenance expense over its life. The choice of surface finish can have a big influence on life cycle costs and we have therefore considered these two factors together within this brochure based on our experience of both timber and synthetic flooring systems.

Life Cycle Cost Comparison

The majority of the sports floor systems we install are systems that are packed and levelled off a structural slab. These systems allow unevenness in the subfloor to be removed by placing equalising material under the shock pads. Typically the system will be either our London or Academy area elastic sports floor. The Academy system is installed when a hardwood playing surface is the preferred choice, as opposed to our London system which can be finished in range of synthetic surfaces. These two systems are illustrated on the back page.

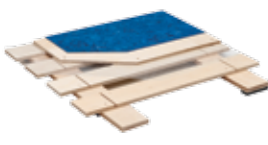
The table below illustrates the typical life cycle costs of either our London system finished in a choice of surface finishes and our Academy system based on a 25 year life span and the assumptions noted below

	London Linoleum	London PU	London Vinyl	London Rubber	Academy Engineered Board
Install Cost/m ²	£56	£68	£59	£72	£46
Maintenance Costs/m ²	£0	£0	£0	£0	£67
Total Cost/m ²	£56	£68	£59	£72	£113
Estimated cost for a Typical 600 m ² hall	£33,600	£40,800	£35,400	£43,200	£67,800

Flooring Systems from Dynamik Sports Floors



Academy



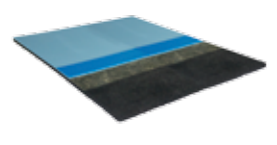
London



Helsinki



Athen

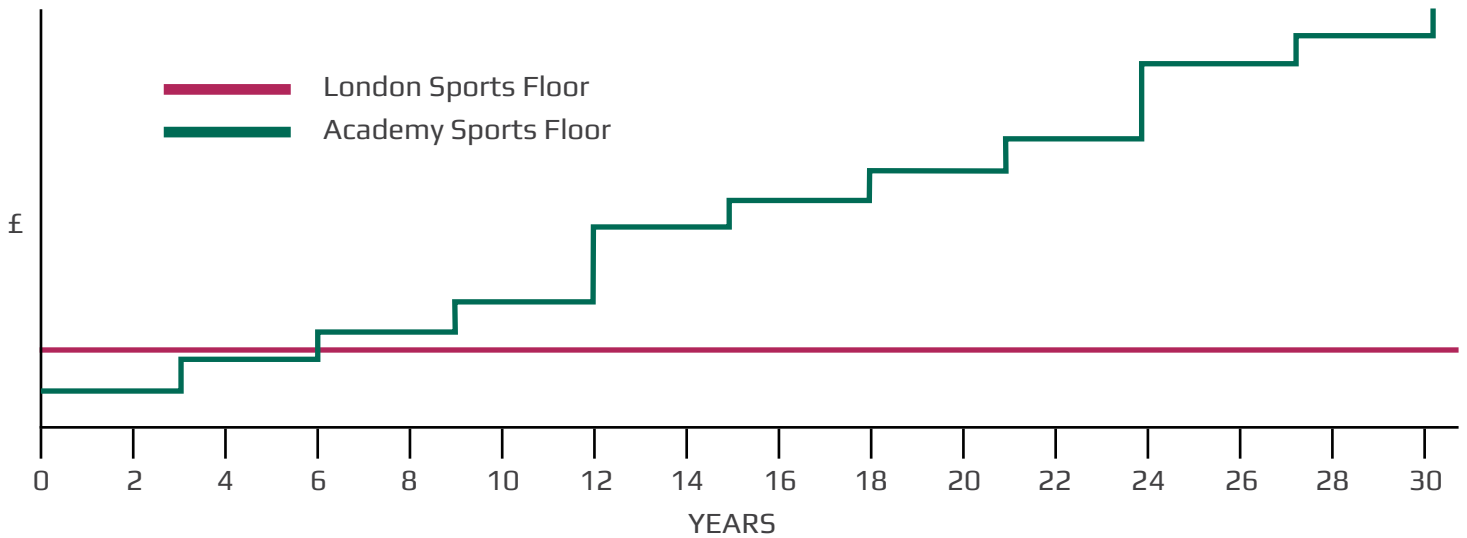


Polyurethane

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Assumptions

The cost per metre is simply for comparative purposes for the floor system only and excludes those costs that will be similar regardless of the chosen system or surface finish including, damp proof membranes, line marking, skirting's, door thresholds, etc. No allowance has been included for inflation. For Academy, the timber finish, we have assumed a scrub and re lacquer every 3 years and a full sand and reseal every 12 years. However, this will vary depending on the usage. In our experience, timber floors often require periodic board repairs and we have included an allowance for these during the life of the floor



Choice of Surface Finish

Cost is not the only factor in the choice of surface finish and unfortunately the surface with the lowest capital cost – a timber finish – is the one with the highest life cycle cost. Below we go through the various surface finishes we offer and provide a brief commentary on each.

Timber or Synthetic Sports Flooring?

Your first decision is probably whether to go with a timber or synthetic surface. Many people prefer the aesthetic appearance of timber and generally this option gives a lower initial installed cost. But you should bear in mind that timber has far higher maintenance demands making it more expensive over its life. Synthetic surfaces should therefore be given every consideration. Please see the next page for further information.

Hardwood Timber Finish

Our Helsinki and Academy hardwood floors use an engineered board which gives the appearance of solid wood but with enhanced performance and a longer life provided by the nature of its construction. A timber floor looks stunning but does require periodic sanding and resealing unlike synthetic surfaces. In addition if it is used in multi-use environment some form of floor protection should be adopted otherwise tables and chairs, trampolines or even stiletto heels can cause damage. Our systems are available in four different wood species: Beech, European Oak, Ash and Canadian Maple as standard.

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Benefits and Drawbacks of Surfaces

Every surface option has its benefits and drawbacks. The below table outlines the primary benefits and drawbacks of the main surfaces finishes we can provide.

	Benefits	Drawbacks
Linoleum	<ul style="list-style-type: none"> Extremely durable – No protection needed Environmentally friendly Easy to repair & maintain Multi-functional floor Suitable for wheelchair participants 	<ul style="list-style-type: none"> Without regular maintenance can become slippery Welded seams can breakdown due to the movement of the floor during its life
Vinyl	<ul style="list-style-type: none"> Maintains grip Multi-functional sports floor No need for surface protection Low maintenance costs Suitable for wheelchair participants 	<ul style="list-style-type: none"> Not as durable as Linoleum Cannot be easily repaired Higher capital costs than wood or linoleum Welded seams can breakdown due to the movement of the floor during its life
Seamless PU	<ul style="list-style-type: none"> Seamless installation Environmentally friendly Low maintenance costs Non-porous & hygienic 	<ul style="list-style-type: none"> Not suitable for wheelchair participants High capital costs Typically point elastic, therefore not having the benefits of an area elastic floor
Engineered Board	<ul style="list-style-type: none"> Can be rejuvenated by sanding & resealing Low capital cost 7x more dimensionally stable than solid wood Meets FIBA level 1 performance for Basketball Suitable for wheelchair participants 	<ul style="list-style-type: none"> Require periodic sanding & resealing Highest lifecycle costs More prone to movement - expansion & contraction from changes in relative humidity
Point Elastic	<ul style="list-style-type: none"> Appears to be soft & forgiving Can be suitable for some sport specific installation 	<ul style="list-style-type: none"> Very few sports specific facilities exist Easy to tear & puncture Not suitable for multi-use facilities Requires surface protection



A member of The Sports Facilities Group backed by the governing bodies of:



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