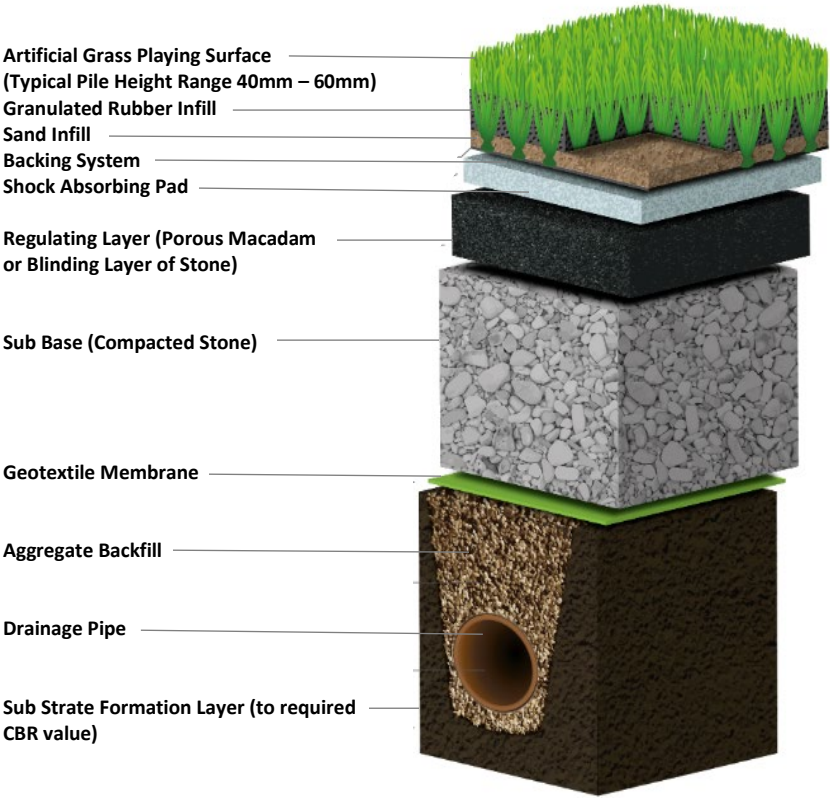


3G PITCH CONSTRUCTION PROFILE



Upon completion, the playing surface must conform in all respects to the stipulated performance criteria for accreditation to FIFA Quality Concept for Football Turf for Football, and BS EN 15330-1:2013 Surfaces for Sports Areas, as appropriate. Gradients not to exceed 1:100. Line markings shall, where possible, be constructed within the rolls of artificial grass at fabrication stage. All other lines will be cut and glued into the playing surface during the installation process to produce permanent lines. Markings to be in accordance with the current laws of the game. The completed surface will be tested in accordance with stipulated guidance by an independent testing agency accredited under FIFA regulations, in order to ensure compliance for playing performance.



PROJECT
Legal and General (Strategic Land North Horsham) Sports Hub
DRAWING TITLE
Proposed 3G Artificial Turf Pitch General Site Design Features

NOTES
THIS DRAWING IS PROVIDED FOR DISCUSSION PURPOSES ONLY
All works will be undertaken in accordance with agreed specification and applicable NGB guidance and British Standards.
REFER TO David Jarvis Associates Drawing Ref: 2898-5-1-10 DR-0001 SO-P4 Sports Hub Illustrative Layout for details of surrounding features to the footprint of the artificial turf pitch.

PERIMETER FENCING TYPES



Illustration of mesh perimeter fence with extended height behind goals

FLOODLIGHTING

The system will be designed to allow the artificial grass pitch to be floodlit using LED luminaires to achieve a maintained average horizontal illumination level of 200 lux with a uniformity (Min/Ave) >0.6, in accordance with principal sports guidance. Floodlighting columns steelwork to be fully galvanised before installation on site. Foundations in accordance with manufacturer’s and structural engineer’s recommendations. System is to be based upon columns located outside the pitch perimeter each nominally 15 metres high. Flood lighting to be compliant with Environmental Zone E2 values (rural area low brightness) and in accordance with relevant Planning Approval Conditions.



Illustration of LED floodlight system with reduced light spill from playing surface

All fencing should be undertaken in accordance with the appropriate sections of BS 1722, and the system be fully compliant with EN 15312.2007. A typical sports fence system will require all posts and panels to be galvanised and polyester powder coated colour finish to a minimum thickness of 120 microns. Colour to in accordance with client requirements BS 12 C 39 Green or equivalent. The preferred system for sports pitches comprises a 4.5m high rigid, fully welded twin wire panel type, 2500mm wide, flat, rigid, fully-welded mesh panels, constructed from 6mm diameter steel vertical wires set 50mm apart, welded between pairs of 8mm diameter steel horizontal wires set 200mm apart. The lower 1.20m of panel to include additional pairs of welded horizontal wires providing a 66mm x 50mm rebound mesh. The upper section of fencing to comprise square mesh panels fabricated from minimum 6mm diameter solid steel wire fully welded at every cross point. An additional 3.000m high netting extended section for 40.000m length behind goals should be provided at both ends of the pitch to retain balls within the area.

EQUIPMENT

A range of equipment will be required for the facility. Typically this will include moveable ‘wheel – away’ type football goals, and moveable seven-a-side goals conforming to relevant guidance BS 8461:2005 + A1:2009 and BS EN 748. Additional equipment such as team shelters, flags and LED display scoreboards can also be provided.



Capacity for storage of equipment when not in use, should be provided within recessed areas within the perimeter fence system. Equipment should not be temporarily stored within the pitch perimeter run off margins which are recognised safety zones.