

ECB Facilities Team

Artificial Surfaces

## Slide 1

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**BC1**

Bruce Cruse, 16/03/2020

## **Types of Non Turf Pitch System (NTP)**

1. Bound – laid on a structure that is bound together with a bonding agent such as tarmacadam, concrete etc
2. Unbound – surfaces are laid onto a structure that is not bound and is held together with interlocking stone particles and particle size distribution

Research indicates designers can manipulate performance by changing:

- The surface
- The underlay/pad (s)
- Supporting layers (geotextile or grid)
- Upper base formation
- Lower base formation

It is known that the top 100mm has the most influence on playing performance



## Carrying capacity and Maintenance

- A NTP should be able to deliver up to 70 adult matches a year
- Longer pile and increased pile density will sustain the pitch for longer
- Reference to the designers care manual
- Watering and rolling
- Material migration and brushing
- The natural world (trees, flooding , animals)
- Contact /Transfer points

## Other considerations

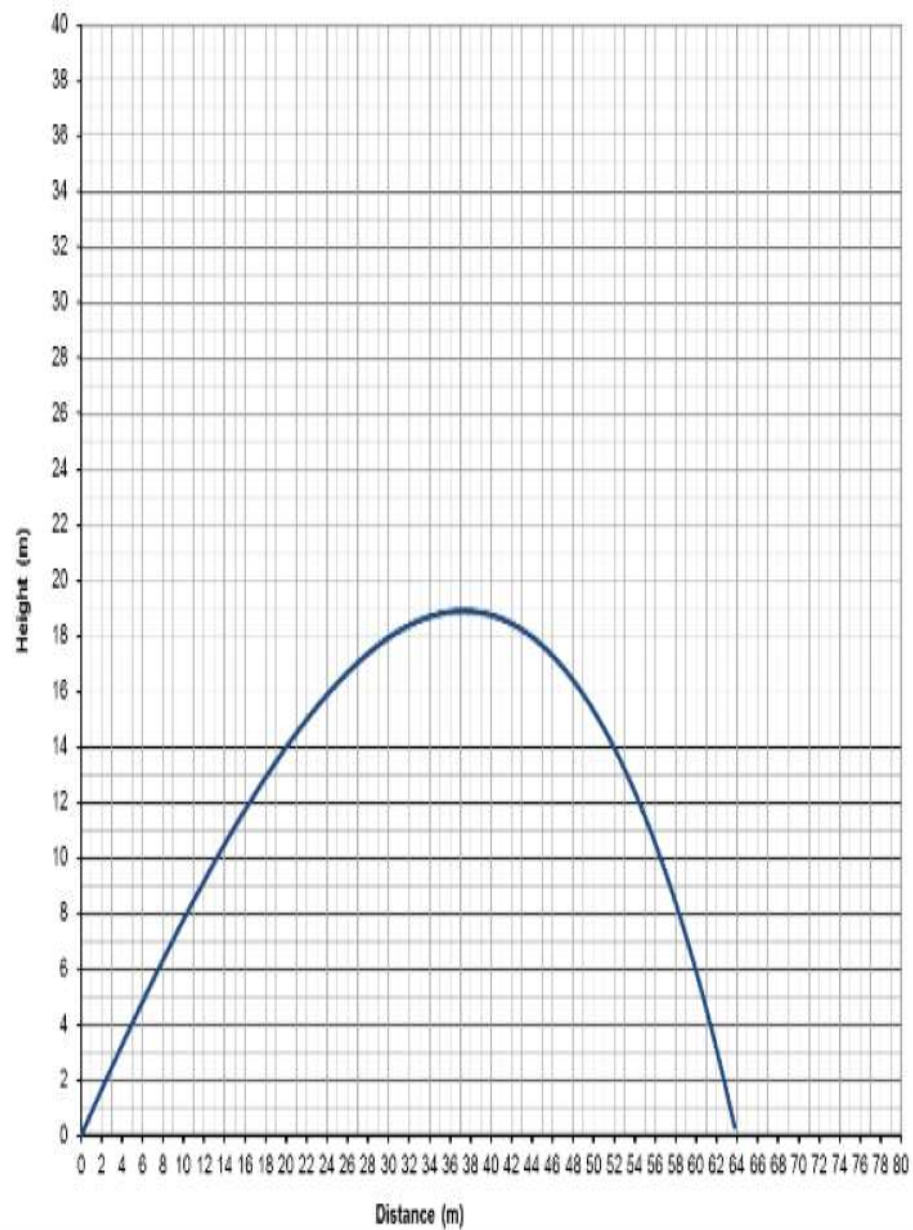
### Price vs Quality

- Warranties
- Carpet
- Pads
- Availability of materials
- Speed and method of construction
- Maintenance
- Whole life

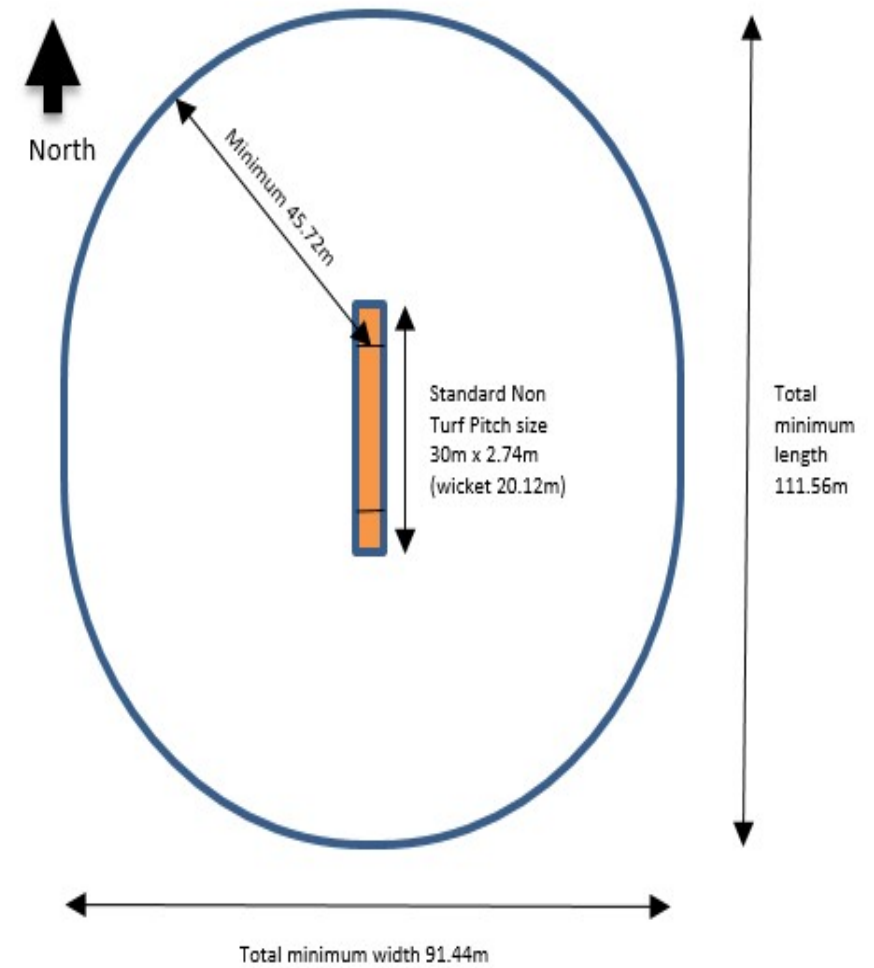
## Multi Sport/ Local Authority engagement

Consider:

- Nature of the site - dimensions etc
- Site restrictions imposed by design , controlling body or local planning
- Other users/ flexibility of use
- What type of activity/ hours of play
- Benefits to the community
- Access controls
- Ongoing costs



### Minimum Dimensions for an ECB Approved Non Turf Cricket Pitch















# Design of NTP Practice Systems

- Orientation
- Direction of play
- Ground conditions
- Fencing and netting systems
- Means of escape (where fencing is used)
- Planning permission
- Noise

## Useful Information on the ECB website:

1. ECB Guidance notes on the provision and installation of Non Turf Pitches
2. ECB Performance Standards for Non Turf Pitches
3. ECB Code of Practice for Non Turf Pitch Suppliers
4. ECB Approved System Supplier List













# Hybrid Cricket Pitches





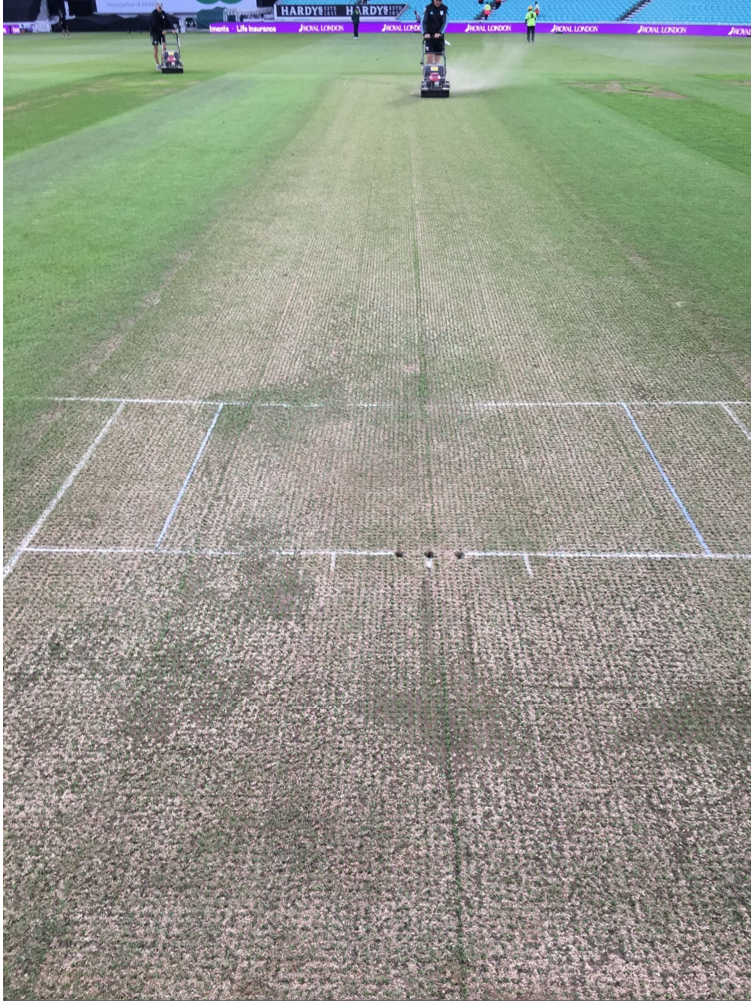








# Key benefit = wear resistance



Stitched: Wear = 11 mm after 200 overs



Unstitched: Wear = 25 mm after 93 overs

4 x wear resistance of  
a non-hybrid pitch  
(subject to maintenance)

Thank you

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