

total-play



Proposal, Specification & Costs ECB Approved Non-Turf Cricket Match Pitch

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1. INTRODUCTION TO TOTAL-PLAY

CONCEPTION

total-play (TP) was founded by David Bates, former Head Groundsman at Northamptonshire County Cricket Club and Chairman of the First Class Grounds Committee. David utilised his practical and technical knowledge to design a non-turf surface suitable for both grass roots and high performance cricket. This system was subsequently branded as 'tp365' to reflect both the full width carpet and the ability to use the system all year round.

ECB APPROVED SYSTEMS

total-play are constantly innovating and driving the synthetic market forward. We now have a range of six ECB Approved Systems. Our 'tp365', 'tp5t' and 'tpB1' systems, can now be installed in a 'Natural Pitch Colour' 'NPC' playing surface carpets. Giving our clients an additional choice to traditional green carpets. The 'NPC' yarn is a straw colour which replicates the colour of a well prepared, dry natural cricket pitch. Positive client feedback highlights an excellent contrast between the Natural Pitch Colour carpet and the ball.

Our range of carpets also incorporate a navy blue yarn for surrounds and training lines. No other supplier offers such a bespoke range of systems and design options. We believe all our ECB approved systems are of a unique, modern design offering a balanced game between bat and ball and are proven to stand up to the rigours of modern usage for a wide range of clients and environments.

'TP5T' Incorporating **'TP5T NPC'** for a professional Natural Pitch Colour carpet.



The 'tp5t' ECB approved non-turf cricket pitch system shares the 'tp365' dynamic base and 'tp2' pitching area shock-pad. The system has been designed to offer the same balanced game between bat and ball and encourage turn as the 'tp365' but with the 'tp5' tufted playing surface carpet. The 'tp5' tufted carpet offers the same performance and wear characteristics as the 'tp1' but with slower infiltration rates.

OUR PHILOSOPHY:

TP has three core selling points, these are:

- Highest quality components
- Long lasting warranties - carpets, netting, steelwork, sub base etc.
- Quality control - achieved by having in-house staff using company owned plant

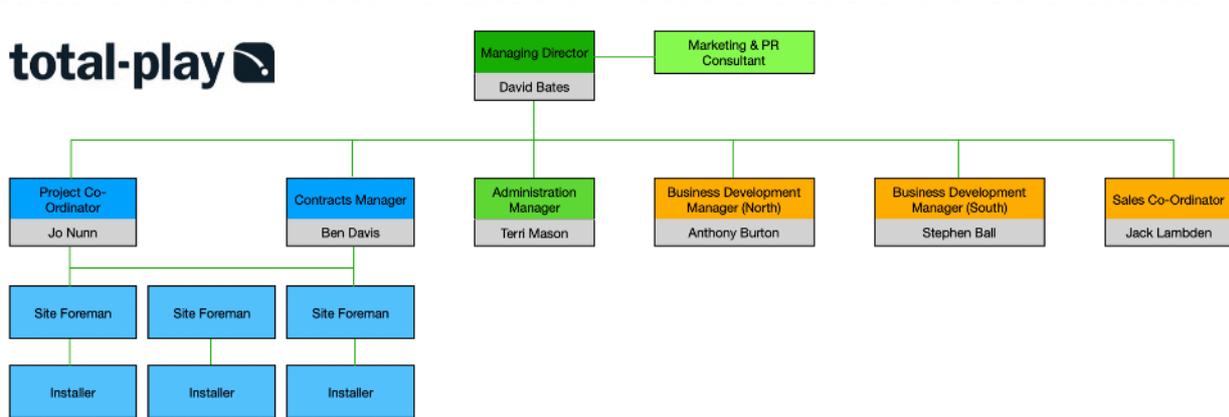
QUALITY ASSURED:

- TP was the first contractor to achieve the coveted ECB Code of Practice for non-turf installations and is proud to continually be accredited under this kite mark for both quality and performance.
- TP installations are designed to meet England & Wales Cricket Board technical guidelines and wider Performance Quality Standards (PQS).

- TP has achieved ISO 9001 and 14001 accredited status and actively participates in the CHAS scheme, recently achieving 'Accredited' status, further endorsing our commitment and compliance with important aspects of Health & Safety law.

These accreditations reinforce TP's credibility and offers additional assurance to all clients that attention to detail and correct procedure are highly regarded by our entire team.

TP MANAGEMENT STRUCTURE:



DEVELOPING A PROJECT WITH TOTAL-PLAY

*'Getting together is a beginning,
Working together is progress,
Developing together is success'*

Developing strong working relationships with clients is what we constantly aspire to at total-play. We don't sub-contract our works. All our projects are managed in house, from design through to construction and aftercare. We employ full time company installation operatives and company owned plant. We offer detailed un-rivalled system and product warranties giving the reassurance that we will be there for our client over the lifespan of the facility and beyond.

2. PROJECT BRIEF

WHY IS A NEW NTP MATCH PITCH IMPORTANT?

1. A new non-turf match pitch will help increase the attractiveness of the club to prospective junior and senior players.

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2. A new non-turf match pitch will assist the clubs retention of junior and senior players by providing increased on-site facilities and subsequently allowing coaches and leaders to provide year round coaching sessions.
 3. Non-turf match pitches can be used during wet weather offering excellent activity options when rain has interrupted play.

When applying for funding it is vital that applicants show that they have considered how to maximise the lifespan of a new sports facility by implementing a regular maintenance regime from the onset. As part of our hand over process we will provide clients with an extensive operation and maintenance manual detailing in-house and specialist tasks, frequency and associated costs.

From experience of working with grant funders we actively encourage potential clients to include a maintenance cost as part of any grant applications, this part of the project can be discussed in more detail prior to placing an order.

PROPOSED DESIGN:

total-play (TP) has been invited by Phil Simpson to provide build specifications and costs for ground improvements at Green Moor Cricket Club.

This document will outline design specifications and costs for the following project:

-  The installation of a fully carpeted 'tp5t' non-turf cricket match pitch

Green Moor Cricket Club require new non-turf practice facilities to tie in with and enhance existing facilities. The increase in players at both senior and junior level combined with recent success has spurred intentions to continue raising standards at the club. Subject to securing funding and final permission, the proposed development will aim to be completed Spring 2026.

SITE VISIT REPORT:

A formal site visit has not been undertaken for this project, however we have visited site previously and through discussions with the client, we are familiar with site and the appropriate access route.

The positioning of an artificial match pitch needs to allow for several design elements including:

-  Orientation
-  Topography
-  Dimensions
-  Local Features

Throughout this proposal these four critical elements will be explored in detail to ensure Green Moor Cricket Club create a match pitch that is both high performing and player / coach focused.

ORIENTATION:

Sport England & the ECB have published guidance on optimum pitch orientation for a range of sports. For cricket, the limits of orientation for cricket pitches are 305° and 55°. Please refer to Figure 1.

The orientation of the planned match pitch is **not** within the limits of the stated Performance Quality Standards (PQS) of a maximum angle of 55° from a true North / South.

The setting sun can cause health & safety concerns when the facility is used in the evenings. As such, orientation can be an important factor and is one of the ECB's pre-requisites for awarding capital grant funding.

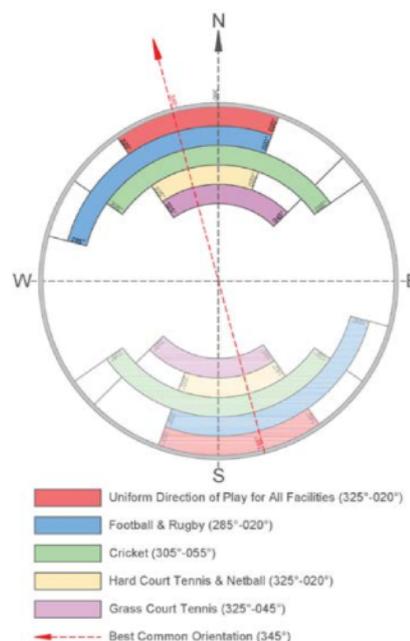


FIGURE 1: ORIENTATION

Sport England & the ECB has published guidance on optimum pitch orientation for a range of sports.

TOPOGRAPHY:

The playing surface gradients of a non-turf pitch are very important. To prevent surface ponding and aid drainage, sports surfaces should not be constructed with a level gradient, however playing performance will be affected by surfaces with too steep a gradient. Practice facilities which are not constructed to conform to the correct performance gradients might suffer from the following issues:

- ❑ Player comfort
- ❑ Loss of player traction
- ❑ Lateral movement of the ball
- ❑ Exaggerated ball bounce (low or high)

Performance Quality Standards (PQS) and the current ECB design guidelines for playing surface gradients ideally recommend that the surface gradients should be no greater than 1:100 to 1:250 (1 % - 0.4 %) in the direction of play and 1:100 to 1:150 (1 % - 0.67 %) across the line of play.

However, 'Match Pitch' installations typically need to follow the native contours and gradients of the build location and surrounding area to avoid creating a 'lip' or 'trip hazard' between the artificial playing surface and the natural grass area.

The match pitch surface levels at Green Moor Cricket Club will be installed to follow the natural contours of the build site.

DIMENSIONS:

We propose installing a 30m x 2.74m match pitch which is within the limits set out by England & Wales Cricket Board Approved Non-Turf Pitch Codes of Practice.

LOCAL FEATURES:

The proposed build site is on the southern edge of the existing natural turf square, closest to the pavilion.

LOCATION PLAN WITH PROPOSED SYSTEM IN SITU:



ACCESS:

The proposed works area can be directly accessed off Hill Top Lane via the gated entrance situated NE of the cricket field.

If prevailing ground conditions are wet, it would be advisable to approach the build site around the cricket outfield, crossing approximately 80 m of natural turf. Although every effort will be made to ensure no damage is caused to the outfield during construction works it was highlighted at the site visit that some damage will be unavoidable if the works take place in wet weather.

total-play propose establishing an unloading area on the car park and using part of the car parking area as a site compound, if necessary.

ENABLING WORKS:

The turf and clod will be stripped to generate the required formation layer.

SPOIL:

The client has stated that the spoil generated by the grounds works will be able to left on site. Therefore, the proposal cost at this stage do not include removal of spoil off-site. An existing onsite match pitch may be removed by the client prior to works, therefore the spoil may be used in remediating the old excavation.

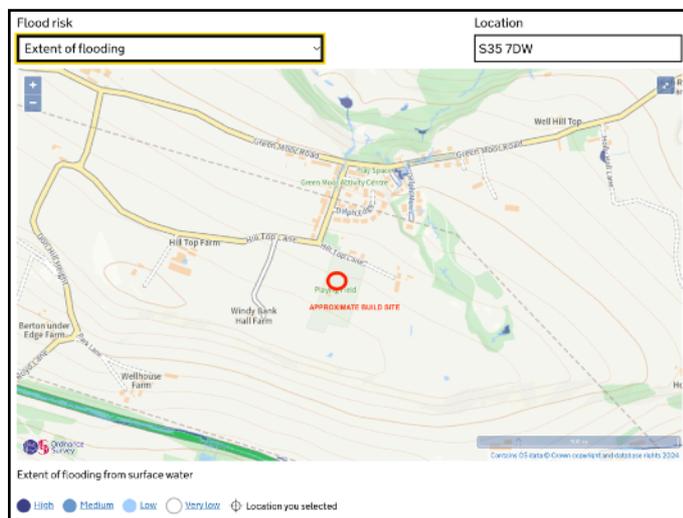
GROUND SERVICES:

Discussions on site with the client indicate there are no ground services within the works area, A scan of the area will be undertaken before any work commences, but it is the responsibility of the client to highlight any possible ground utility services before works commence.

FLOOD RISK ASSESSMENT & DRAINAGE:

The proposed build site is not regarded to be at risk of flooding from either 'Surface Water or 'Rivers or the Sea'.

FLOOD RISK MAP:



DRAINAGE:

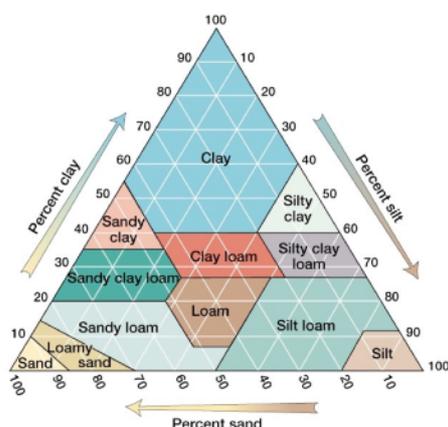
No additional drainage is deemed necessary. The proposed location of the new match pitch is not at risk of suffering the effects of a water course running through it.

LOCAL SOILS:

The local soil profile and soil characteristics determine the build depth of the new systems stone profile. Therefore, understating soil mechanics is a vital part of designing a new system.

The TP investigation process explores the local ground conditions to determine its drainage capabilities, the height of the water table, soil stability and soil strength. To establish these key details a trial hole was taken to determine the make up of the indigenous soil.

FIGURE 2: TEXTURAL CLARIFICATION OF SOILS



SOIL STRENGTH - CALIFORNIA BEARING RATIO (CBR):

As part of our site investigation process, we record the California Bearing Ratio (CBR) of the sub-grade. The CBR is a measurement of the resistance of the sub-grade to deform under load. Within the UK a CBR of 5% or above is regarded as acceptable and a standard ‘total-play’ design can be used.

The dynamic porous aggregate profile will be increased from a standard build depth to a profile constructed to a minimum depth of 160 mm. This depth of aggregate will provide a substantial base capable of retaining high levels of tolerance over a sustained period, this will result in high levels of performance being maintained despite continuous use.

All designs will comply with the England & Wales Cricket Board Approved Non-Turf Pitch Codes of Practice. (Please view the total-play product information documentation for more information).

SIMILAR TOTAL-PLAY LTD INSTALLATIONS:

1. Ashville College, North Yorkshire. Works complete May ‘19
2. Potternewton Park & Roundhay Park, c/o Leeds Council. Works completed May ‘19
3. Goole Town CC, East Riding of Yorkshire. Works completed Apr ‘17
4. Oughtibridge CC, South Yorkshire. Works completed May ‘19

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5. Repton School, Derbyshire. Works completed Apr '18
 6. Darley Abbey CC, Derbyshire. Works completed Jun '18
 7. Various sites (11), c/o Bolton Council. Works completed Jul '19
 8. St Peter's School, York. Works completed April '22
 9. Selby CC, Yorkshire. Works completed May '22
 10. Hollinsend CC, Yorkshire. Works completed June '22.
 11. Frecheville CC, Yorkshire. Works completed June '22.
 12. Heslington CC, York. Works completed May '22
 13. Braithwaite CC, Cumbria. Works completed April '22.
 14. Cumberworth CC, Yorkshire. Works completed May '22
 15. Doncaster Town CC, Yorkshire. Works completed Aug '22.
 16. Menston Park c/o Leeds City Council. Works completed Sep '22
 17. Macclesfield CC, Cheshire. Works completed Mar '23
 18. Filey CC, Yorkshire. Works completed Apr '23
 19. Kirkella CC, Yorkshire. Works completed Apr '23
 20. Baysgarth School, Lincolnshire. Works completed Apr '23
 21. Elsecar Main CC, Yorkshire. Works completed Apr '23
 22. Wombwell Main CC, Yorkshire. Works completed Apr '23
 23. Caribbean CC, Sheffield. Works completed Apr '23
 24. Shiregreen CC, Yorkshire. Works completed Apr '23
 25. Glapwell Colliery CC, Derbyshire. Works completed Apr '23
 26. Langley Mill CC, Derbyshire. Works completed Apr '23
 27. Didsbury Sports Ground, Manchester. Works completed June '22.
 28. Sefton Park CC, Liverpool. Works completed June '22.
 29. Various sites (3), c/o Rochdale Borough Council. Works completed July '23.
 30. Fleetwood Hesketh CC, Lancashire. Works completed June '23.
 31. East Lancs CC, Lancashire. Works completed June '23.
 32. Bullough Park c/o Hyndburn Borough Council. Works completed June '23.
 33. Macclesfield CC, Cheshire. Works completed March '23.
 34. Darwen CC, Lancashire. Works completed July '23.
 35. Croston CC, Lancashire. Works completed July '23.
 36. Various sites (6), c/o Bury Council. Works completed July '23.
 37. Altofts CC, Yorkshire. Works completed July '23.

To view case studies please click [HERE](#) or go to our website: <http://total-play.co.uk/case-studies/>

INTRODUCTION TO AN ARTIFICIAL NON-TURF CRICKET MATCH PITCH

Non-turf match pitches are normally an extension to an existing square. Artificial surfaces offer low maintenance support for over used grounds, by providing a constant true and safe pitch for games and practice sessions. All weather surfaces are an invaluable resource for all junior sections, seniors and the Groundsman. The total-play match pitch ensures that every aspect of the game is encouraged, providing a balanced game between bat and ball. Our exclusive carpet is proven to encourage spin more than any other artificial surfaces.

Match pitches can be positioned to suit individual customer requirements and are installed to create a safe and undisturbed playing area.

Match Pitches can be installed in two ways;

The first installation option is to construct the final playing surface levels in line with the existing contours of the area. This means that a pitch installed into an existing table will rise and fall with the table's gradients and surface levels. This design means that very little disturbance is created between the interface of the artificial surface and the natural pitches. Building a pitch inline with existing contours may mean that final surface gradients and levels may be out side of the stated Performance Quality Standards (PQS).

The second design option, which is the favoured option of total-play, is to install the pitch in one plane using laser guided equipment. Installing a pitch using laser guided equipment means that the final surface levels are measured exactly and are guaranteed to meet with the stated Performance Quality Standards (PQS). The down side to a perfectly graded playing surface is that the interface surrounding the artificial pitch may require building up or re-grading. This element could include turfing and seeding areas to make sure there are no unwanted ridges which can act as a trip hazard.

total-play designers will help you through the design options and construct a system to suit individual sites and Green Moor Cricket Club. Detailed build specifications and samples are available on request. Typical dimensions of a Match Pitch is 30 m x 2.74 m (94 ft by 9 ft)

3. PROJECT SPECIFICATIONS - MATCH PITCH

PROPOSED DESIGN ELEMENTS OF A 'TP5T' MATCH PITCH FACILITY:

The proposed new match pitch non-turf system will include:

1. SITE PREPARATION:

1. Confirm suitable access routes, offload area and site compound with the client
2. Preparation of all required paperwork (e.g. method statements, risk assessments etc.)
3. Initial excavations and groundworks
4. No costs have been included to remove spoil off site.

2. DIMENSIONS:

1. Playing Surface, pitch width 2.74 m (9 FT)
2. Length of playing area 30m (98 FT)

3. SYNTHETIC CARPETS:

1. Fully carpeted playing surface with the 'tp5' tufted carpet 30 m by 2.74 m
2. Pitching area shock pad 'tp2', 30 m by 2.5 m

DESIGN OPTIONS:

3. 'tp5' premium grade tufted carpet is available in single-tone green or a natural pitch colour.

4. PLAYING SURFACE LEVELS:

1. The system will be installed to follow natural ground levels and therefore may create surface gradients and levels which do meet with Performance Quality Standards (PQS).
2. Installing a playing surface to native levels removes the need of re-grading the interface area surrounding the match pitch.

5. 'TP365' DYNAMIC POROUS AGGREGATE BASE:

1. TP playing surface carpets are laid onto dynamic porous aggregate performance base. The system is constructed with NO internal frameworks within the playing area. The performance base is constructed as one block using laser guided machinery to provide a trip and ridge free playing area. A unique design which creates consistency, stability and longevity for a practice facility. The system DOES NOT use materials that degrade.
2. Following a site investigation and considering on site conditions and the size of the facility the minimal depth of the dynamic porous aggregate base profile will be: 160 mm

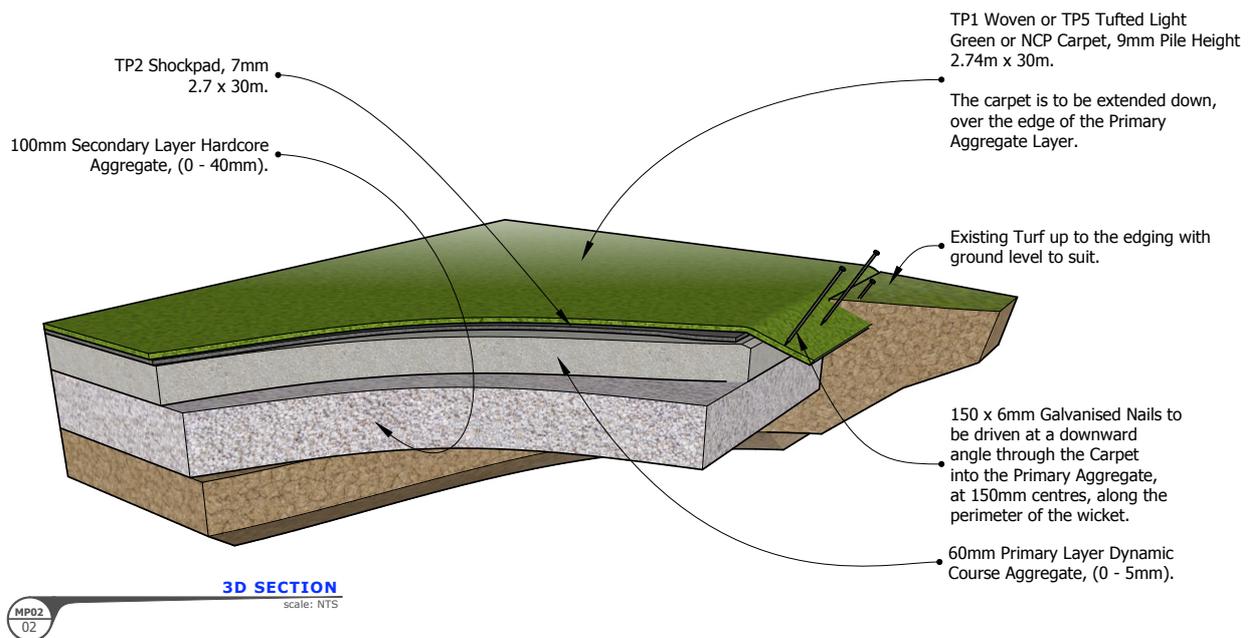
6. REINSTATEMENT OF THE BUILD SITE:

The immediate area surrounding the system will be left for the client to grade and establish with either soil or turf and seed.

Note:

The perimeter of a match wicket should be mowed using hand operated mowers and equipment only, the use of rollers and gang mowers will cause ripples to appear in the playing surface carpet and issues.

MATCH PITCH SYSTEM CROSS SECTIONAL DRAWING



SYSTEM COMPONENT SPECIFICATIONS AND SAMPLES:

System component samples available on request:

- 'tp1' Premium grade woven playing surface carpet
- 'tp5' premium grade tufted playing surface carpet
- 'tp2' Batting area pace modifying pad
- Dynamic Porous Aggregates
- Design Plans

IMAGE OF RECENT MATCH PITCH INSTALLATION:



DESIGN OPTIONS: STUMP BOXES & RUBBER BASED STUMPS

Often requested on pitches for public parks or where regular informal usage is expected, we can include provision of hard wearing stump boxes within our base construction. This proven design feature allows users to utilise their own stumps to facilitate a game without damaging the synthetic playing surface. A recycled composite timber box is fabricated and set beneath the playing surface. This box contains a green exterior grade putty, into which normal wooden stumps can be inserted. Alternatively, rubber based stumps can be used which do not require the playing surface to be upgraded.



4. PERFORMANCE STANDARDS

Please refer to the table highlighted below to compare the standards proposed for this installation. The information also allows clients to compare the proposed TP standards against current guide lines set by the ECB for both recreational and first class cricket.

Test	Method of Test	Pitch Area	ECB Performance Standard		total-play Standards	Note
			Recreational	CoE*/First Class Cricket		
Ball Rebound (mm)	BS EN 12235:2004		240 - 520	320 - 560	240 - 520	max variation +/- 50 mm of mean
Surface Hardness (g)	BS EN 14954:2005	pitch of ball	>100	>100	>100	2.25 kg Clegg Hammer
		Bowler's run up	<300	<300	<300	2.25 kg Clegg Hammer
Traction (Nm)	BS EN 15301-1:2007		25 - 50	25 - 50	=>20	-
Surface Regularity (+/-)	BS EN 15330-2:2008	Playing surface	6 mm	6 mm	4 mm	over a 2 m length
			4 mm	4 mm	3 mm	over a 30 cm length
		Transition	10 mm	10 mm	10 mm	over a 2 m length
			4 mm	4 mm	4 mm	over a 30 cm length
		Surrounds	6 mm	6 mm	6 mm	over a 2 m length
Gradient**		In line with Pitch	1.25% max	1.25% max	1% max 0.4% min	-
		Across Pitch	2% max	2% max	1% max 0.7% min	-

* Centre of Excellence

** Where ground conditions allow, 'total-play' endeavour to install levels with tighter tolerances than those set out by Performance Quality Standards (PQS), British & European Standards and current ECB design guidelines; this ensures that the playing surface will perform to the highest standards.

Where possible the pitch shall be constructed to follow the general gradient of the existing cricket square. BUDGET

7. WHY CHOOSE TOTAL-PLAY?

Investing in a new non-turf cricket facility is always a difficult decision due to the amount of variables on offer from each ECB approved contractor. To help potential clients make an informed decision we have created the following comparison table:

Total-Play Ltd Company Information		Competitor
'England & Wales Cricket Board (ECB) Non Turf Pitch Code of Practice Installer'. First company to be awarded the recognition for performance in both design and construction of NTP's	YES	?
Six ECB Approved Pitch Systems Hundreds of lanes installed a clubs, schools and county grounds nationwide	YES	?
ISO9001 & ISO14001 Accreditation Confirms that the company incorporates Quality Management Systems	YES	?
All systems Guaranteed to conform to ECB 'TS6' Guidelines & Performance Quality Standards (PQS)	YES	?
All installation staff CSCS (Construction Skills Certification Scheme), CITB (Construction Industry Training Board) and DBS (Disclosure and Barring Service) checked and tested	YES	?
An In House Design & Build company. Tailored, bespoke designs for every individual site. No Sub Contractors used as standard	YES	?
Company owned Plant & Specialist Machinery	YES	?

Warranties, Methods, Designs & Options		total-play	Competitor
Base Construction	A 36 Year (3 x Lifetime*) 'tp365' & 'tp5t' Match Pitch Base Construction Warranty (see table below)	YES	?
	Constructed as One Whole Area : No internal edging or frameworks	YES	?
	Dynamic Porous Aggregate System : Replicates play of a quality natural league surface	YES	?
	Ultra Low Maintenance: No Watering, No Rolling	YES	?

	150 mm typical construction depth of aggregate stone base construction	YES	?
Playing Surface Carpet	Premium grade 'tp1' Woven Carpet with a 12 year lifetime* warranty	YES	?
	Premium Grade 'tp5' Tufted Carpet with a 12 year lifetime* warranty	YES	?
	Turn & Seam: replicates natural play	YES	?
	Single Tone Carpet Design with Green or Natural 'NPC' colour options	YES	?
	Specific Shock Pads throughout the system for the Batsman & Bowler	YES	?
Surface Levels	Guaranteed to perform to ECB Standards; Built utilising state of the art laser guided equipment	YES	?
System Accessories	total-play Rubber Base Stumps	YES	?
	Stump boxes for placement of wooden stumps	YES	?

- All total-play systems have been designed to perform and last.
- The base of the system is built to provide a lifetimes foundation. The depth and type of aggregate, construction technique and proven understanding of engineering provides a unique and unequalled foundation.
- 'tp1' premium woven carpets come with a twelve year warranty/ 'tp5' premium tufted carpets come with a twelve year warranty with our 'system support', the markets leading maintenance package, total-play offer complete peace of mind.

8. TOTAL-PLAY SYSTEM WARRANTIES

total-play Ltd Match Pitch Warranties		total-play System	Competitor
System Warranties	Base Construction- 'tp365' & 'tp5t' Match Pitch	36 Years - (3 x Lifetime*)	?
	Base Construction- 'tpB1' Match Pitch	10 Years - (Lifetime*)	?
	'tp1' Woven Playing Surface Carpets	12 Years - (Lifetime*)	?
	'tp5' Tufted Playing Surface Carpets	12 Years - (Lifetime*)	?
	Installation Retention Period	3 Months	?
	Workmanship Warranty	24 Months	?
	System Support	Life Time	?
	System Insurance Cover	On Application	?
<p>*'Lifespan' or 'Lifetime' warranties are defined as the industries typical 'ordinary lifespan of the product'. All stated total-play Ltd warranties are set against the relevant system 'TP Maintenance Program'.</p>			

9. PROJECT NOTES & CONDITIONS

- Where ground conditions allow, 'total-play' endeavour to install levels with tighter tolerances than those set out by Performance Quality Standards (PQS), British & European Standards and current ECB design guidelines; this ensures that the playing surface will perform to the highest standards.
- Materials will be delivered on site 'loose' and will be the responsibility of the site to provide a hardcore or firm area to protect the material prior to use.
- A minimum of a 3 m width access point is necessary to the site and machinery can be stored on site without cost.
- There will be no site working restrictions imposed by the client or any other parties. It is the sole responsibility of the client to control the working environment within the grounds and surrounding land. The inability to complete works may be charged and would be agreed by the client and TP. All charges would be based on the typical day rate for labour & expenses, addition costs may be included for mobilisation, machinery hire, materials and any other relevant costs can be included. A detailed list of costs can be provided prior to agreeing the final charge.
- No provision has been made for any aftercare/maintenance.
- No costs have been included to repair, if found, or redirect any services which run through the build site. The redirection of services would need to be completed by a third party and at no cost to TP.
- The submitted costs allow for our standard Health & Safety and Contractor Welfare documents only. Any additional documents required are chargeable.