

PRACTICE AREA/NETTCAGE

In the UK we are governed by the England and Wales Cricket Board (ECB). The ECB 'standard' is now seen as the standard for artificial pitches around the world.

ClubTurf were one of the companies consulted by the ECB when the 'standard' was put together back in the early 2000s.

Practice Areas are installed on the edge of fields and are only used for practice. They are made up of 3 components:

- Pitches
- Netcage
- Infill surrounds

For practice areas the ECB minimum length is 24.00m long which provides 3.88m beyond the stumps at the bowling end of the pitch. Practice areas are used in one direction.

These lengths ensure that the whole of the bowler's delivery stride, plus one extra pace at least takes place on the artificial grass. This ensures that the transition from natural grass to artificial grass takes place before the important delivery stride.

Match pitches always run the full 30.00m length but there are different options for practice pitches.

There are 2 different options firstly full-length configurations like the match pitches or split configuration with separate batting and bowling ends.

The ECB minimum full-length practice pitch is 24.00m long but we can supply any length of carpet you want. However, our ClubTurf wilton woven carpet is very expensive so we tend to use a cheaper carpet to extend practice areas to lower the cost.

The ECB minimum lengths for split configuration practice pitches is for the batting end to be 11.00m long and the bowling end to be 8.00m long (4.00m in front of the stumps and 4.00m behind).

We don't recommend security fencing, unless there is a real vandalism problem.

The pitch carpets sit in the middle of each bay and the infill surrounds carpets fill the rest of the footprint to 30cms outside the Netcage in all directions.

Therefore, the width of the facility is always Netcage width, plus 30cms both sides e.g 2 bay 7.32m + 0.60m = 7.92m

You will see that the dark green carpet is the practice pitch and the light green carpet is what we call the infill surrounds. We also install our performance pad InterPad under the dark green carpets.

Our infill surround carpet is a cheaper needlepunch carpet called ClubMat, as it is installed in lower use areas. We install ClubMat infill surround carpet to 30cm outside the Netcage in all directions.

The final component of a practice area is the Netcage that surrounds the batsman and bowler and stops the ball escaping. The ECB minimum requirements for each lane are as follows 18.30m (60') long by 3.66m (12') wide by 3.66m (12') high.

The length of the Netcage is made up of 5 sections 3.66m (12') long. Each component that makes up the Netcage is 3.66m (12') long which makes replacing a damaged component easier. Meaning 1 bay is 3.66m 2 bay 7.32m 3 bay 10.98m etc...

The minimum length of 18.30m was chosen as at this length the bowler in their delivery stride can't be struck by the ball from the batsman in the adjoining net.

Every section 3.66m (12') you add beyond 18.30m (60') ties more bowlers in to the Netcage and gives them less space to move out of the way of the ball hit back past the bowler.

The minimum dimensions of the Netcages are as follows:

- 1 bay 18.30m long by 3.66m wide by 3.66m high
- 2 bay 18.30m long by 7.32m wide by 3.66m high
- 3 bay 18.30m long by 10.98m wide by 3.66m high
- 4 bay 18.30m long by 14.64m wide by 3.66m high

Match pitches do not require infill surrounds or Netcage, but do have InterPad performance pads.

There has to be a minimum 1.50m gap between the back of the Netcage and the start of the practice pitch this added to the 30cms outside gives us 1.80m minimum. Our ClubMat carpets come in either 2.00m widths or 4.00m widths so to reduce wastage we extend this to 2.00m at the back of the facility.

based on these dimensions of Netcages above, the infill surrounds will form a fully carpeted area to 30cms outside the Netcage in all directions to the end of the facility.

The facility length is 2.00m at the back, 11.00m batting end, 5.00m infill gap and finally 8.00m bowling end providing minimum length of 26.00m for the facility.

The facility width is the Netcage width plus 0.60m (30cm both sides) so 1 bay 4.26m, 2 bay 7.92m, 3 bay 11.58m and 4 bay 15.24m.

We can supply the following components:

- ClubTurf pitch carpets
- InterPad performance carpets
- ClubMat infill carpets
- Netcage metalware
- Netcage netting

The base construction is very important, but we can liaise with you over the excavation depths and quantities of materials.

An artificial cricket pitch base is made up of 2 layers of angular hard stone aggregate.

- The lower base is 80-90mm thick and is ideally 14mm-to-dust or 0-14mm or 14mm-down.
- The upper base is 40-45mm thick and is ideally 3mm-to-dust or 0-3mm or 3mm-down

This is readily available in the UK and we will be able to source a similar material locally in Norway. The key is that it has all the different size particles graded through the material with a slightly larger percentage of the smallest particle size called dust or fines.

The practice area has to fall within a single plane and the ECB maximum gradients are as follows:

- We are allowed a fall of 2% across the width of the facility. Two bay width 7.92m maximum fall 158mm
- We are allowed a fall of 1¼% along the length of the facility. Two bay minimum length 26.00m maximum fall 325mm

The maximum undulation under a 2.00m straight edge across and along the pitch area is 6mm. We are allowed 10mm under a straight edge on the infill surrounds and to the natural grass surrounding the facility.

The bowling end of the facility will have to marry into the levels of the existing land to allow the bowlers run up to extend outside the facility. So, the bowling end existing levels are your datum point for the rest of the facility.

The maximum excavation is 120mm - 135mm depth for the pitch areas but we only excavate to 40-45mm outside of the pitch areas under the infill surrounds.

ClubTurfs Installation team can carry out as little or as much of the installation as you would like but, they are better doing final levelling and compaction of the upper base as they know what is required.

My Installation Manager is over the 5,500 pitch mark.

For reference we use a 3 tonne mini excavator to excavate out the bases and a 2 tonne mini dumper to move the turf and topsoil to the spoil laydown area.

Then we load the aggregate on to the dumper using the digger and install the base materials over into the installation.

We then use a single drum pedestrian roller 0.5t, to compact the different layers firstly the lower base and then the upper base.

We then use the auger attachment on the digger to install the ground sockets for the Netcage and install the ground sockets in fast setting concrete.

We then fit the carpets and finally install the Netcage. We then roll the pitches again and mark the pitches ready for use.

A number of these activities above can be carried out by other Norwegian companies and we are happy to liaise and supervise different stages.

The installation part of our costs is quite small it is the materials that cost all the money especially the specialist wilton woven cricket carpet.

ClubTurf is happy to help any company source any of the non-specialist materials locally as we have to pay national prices and also the freight to transport the material across.

Last time we paid for the materials to be delivered by a freight company that drove it through Europe and up to Norway in a van. The freight cost for extra materials was minimal as it was a one-off cost for the van.

Addition to the above a couple of examples of 1 and 2 bay practice area priced designs minimum requirement to meet the ECB 'standard'.

SPEIFICATION

Site recommendations – practice area

There are a number of factors to look at when planning an artificial practice area.

Orientation - ideally North-South to avoid the impact of the setting sun. Minimum 30 degrees from East West if North-South not available.

Drainage - If the site has standing water in the summer then extra field drainage may be required. We are installing a large sump of aggregate so if there is nowhere for the water to go it will just fill up and flood.

Access - We have to be able to get plant and materials on to site to install the facility.

Levels – Pitches have to be installed in a single plane. The recommended maximum fall across the run of play is 2% and the maximum fall along the line of play is 1¹/₄%.

We usually recommend that the practice facility be installed near the social accommodation or near to the car park for ease of access.

Set an area for material and spoil laydown accessible from the road.

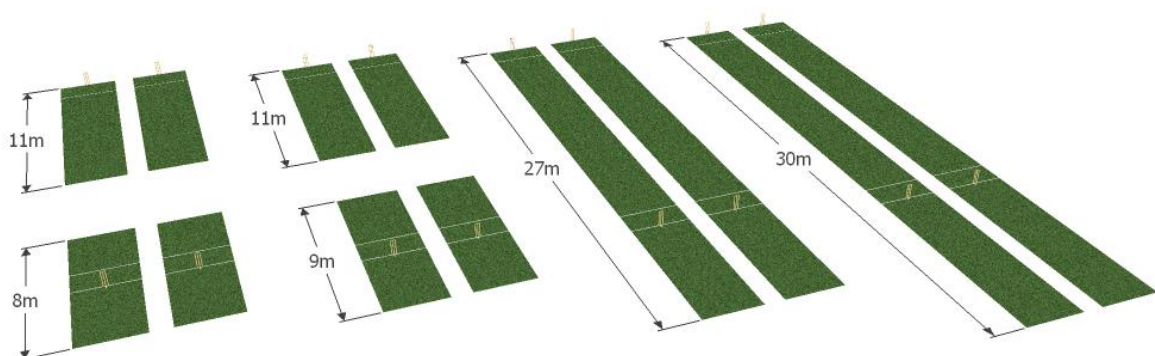
Options – practice area

A cricket practice area is made up of up to four components pitches, Netcage, infill surround and extended run ups.

Pitch Configurations

A standard practice pitch set-up is 11.0m batting end and 8.0m bowling end. Greater flexibility, in catering for shorter junior pitches, is provided with 9.0m bowling ends or even full-length pitches, which have the added benefit of accommodating follow-throughs.

Subject only to space and cost considerations, any number of practice pitches can be installed – from one bay to 10 bays (as at Tonbridge School) or 12 (as at Eton College).

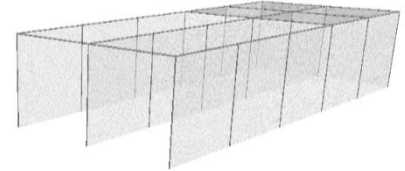


We have 5 different configurations the 11m & 8m and 11m & 9m already discussed or the 24m (not shown), 27m or 30m full length pitches shown above.

Netcages

Minimum 18.3m length is recommended with full surround and division netting and 7.32m roof netting over the batting ends to prevent balls from top-edged hook shots etc from flying out of the nets.

If there is concern about stray balls with, for example, a nearby car park or neighbours, full-length roof netting, or even a fully-enclosed Netcage options are available. Netcages can be extended beyond the standard 18.3m length in 3.66m sections. A white ball-stop net behind the bowlers, which provides further safety whilst doubling as a sight screen, can also be added.

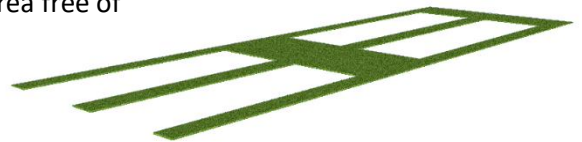


We offer batting curtains that extend 7.32m from the back of the cage as well as along the back of the cage. Height is 1.8m from the ground. There are 2 different materials Ball-stop mesh with a wind stop factor of 75% or Archery mesh with a wind stop factor of 85%.

The Vermin Deterrent Skirting extends the full length along the wings of the Netcage and across the back of the Netcage. Height is 75cm from the ground. Vermin Deterrent Skirting has a wind stop factor of 75%.

ClubMat Synthetic Infill Surrounds

ClubMat Synthetic Infill Surrounds (Infills) help to keep the area free of mud and eliminate all awkward grass cutting. Extending 30cm outside the net-cage the Infills are laid on a 45mm compacted thickness of hard-porous material to maintain good levels.

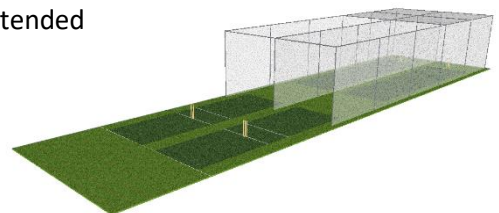


ClubMat Infills are manufactured using a vertical loop, structured, scrim reinforced Needle-punch construction from a 100% UV Stable polypropylene. They are designed to produce almost invisible seams and the 16mm loop pile is physiologically responsive in cushioning impact and jarring on ankle, knee and hip joints.

“Standard” Infills are fitted to the sides and between batting ends, between bowling ends and in the 4m or 5m space separating batting and bowling ends. “Full” Infills complete the sides of the bowling ends. Full-length pitches have Infills for the full 27m or 30m to the sides and between pitches.

ClubMat Extended Run Ups

ClubMat can also be fitted beyond the ClubTurf pitches as an extended run-up area. The extended run ups are installed to the same specification as the synthetic infill surrounds. The usual lengths we recommend are either 4m (shown here) or 8m although any length is available.



SAMPLE PRACTICE AREA SPECIFICATION

Basic or cheapest facility option 2 bay Specification

Pitches

Surface – Two Wilton woven batting end carpets each 11.00m long by 2.75m wide and two Wilton woven bowling end carpets each 8.00m long by 2.75m wide.

Performance pad – Two Geotextile membranes for batting ends 11.00m by 2.50m wide and two Geotextile membranes for bowling ends 8.00m by 2.50m wide

Upper base – 45mm thickness of 4mm to dust angular hardstone aggregate

Lower base – 90mm thickness of 14mm to dust angular hardstone aggregate

Netcage

Metalware to build Kee Klamp Netcage each lane 18.30m long by 3.66m wide by 3.66m high

Netting for two bay Netcage each bay 18.30m long by 3.66m wide by 3.66m high

Ground sockets concreted into the ground.

Infill surrounds

Surface – ClubMat needlepunch carpet to surface around the pitches in all directions to provide a fully carpeted area 26.00m long by 7.92m wide.

Infill surround base – 45mm thickness of 4mm to dust angular hardstone aggregate

Extended Run Ups

Surface – ClubMat needlepunch carpet to surface the extended run up area.

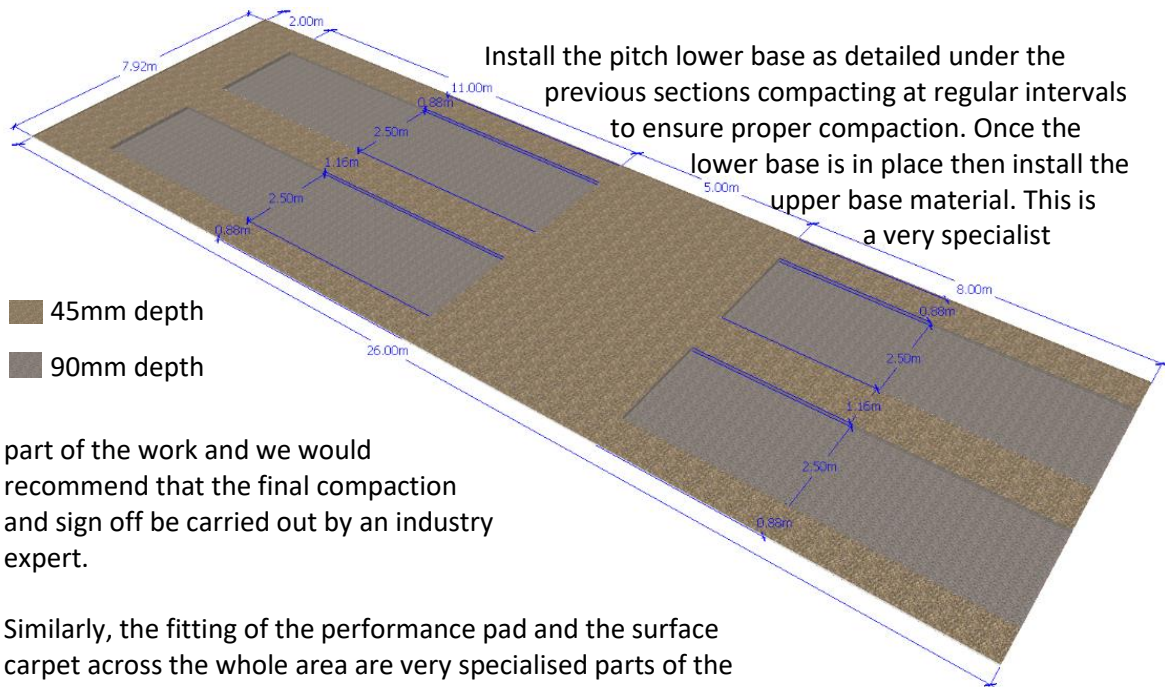
Extended Run Up base – 45mm thickness of 4mm to dust angular hardstone aggregate

Installation – practice area

Use a mini excavator/digger (roughly 3 tonnes in weight) to excavate a trench 26.00m long by 7.92m wide by 45mm deep ensure sharp clean precise edges. Remove topsoil to spoil laydown area using a mini dumper (roughly 2 tonnes in capacity).

We recommend against the use of edging boards or kerbs as experience has shown us that they can rise over time creating a trip and ricochet hazard. Land moves and board and kerbs don't move with the land they work against the land.

Excavate out the lower pitch bases a further 90mm to total depth of 135mm. The batting end pitch bases start 2.00m from the back of the facility and run 11.00m long by 2.50m wide. The cross section of the width is 0.88m then 2.50m pitch then 1.16m then 2.50m pitch then 0.88m.



part of the work and we would recommend that the final compaction and sign off be carried out by an industry expert.

Similarly, the fitting of the performance pad and the surface carpet across the whole area are very specialised parts of the work and will require experienced artificial cricket carpet fitters to carry out the work. The last two parts of the work will determine how well the pitch will play.

Finally, the industry expert will carry out a further rolling programme to ensure the correct compaction and then mark the pitch with paint ready for play to commence. Our consultant and team of industry experts will advise on quantities of aggregate required for the pitch bases.

We recommend that the ground sockets of the Netcage be installed by experienced industry experts. Similarly cutting in the ground sockets to the infill surround carpet should also be carried out by an experienced artificial cricket carpet fitter.

The Netcage erection is then carried out under supervision of the industry expert and the netting fitted led by the industry expert. This will require a large quantity of cable ties. The netting must be specialist cricket netting cut to exact measurements to allow for hang in the length and sides.

ClubTurf is available to speak and guide during working hours in the UK. They can also provide their Installation Managers contact telephone number, who can liaise about installation.

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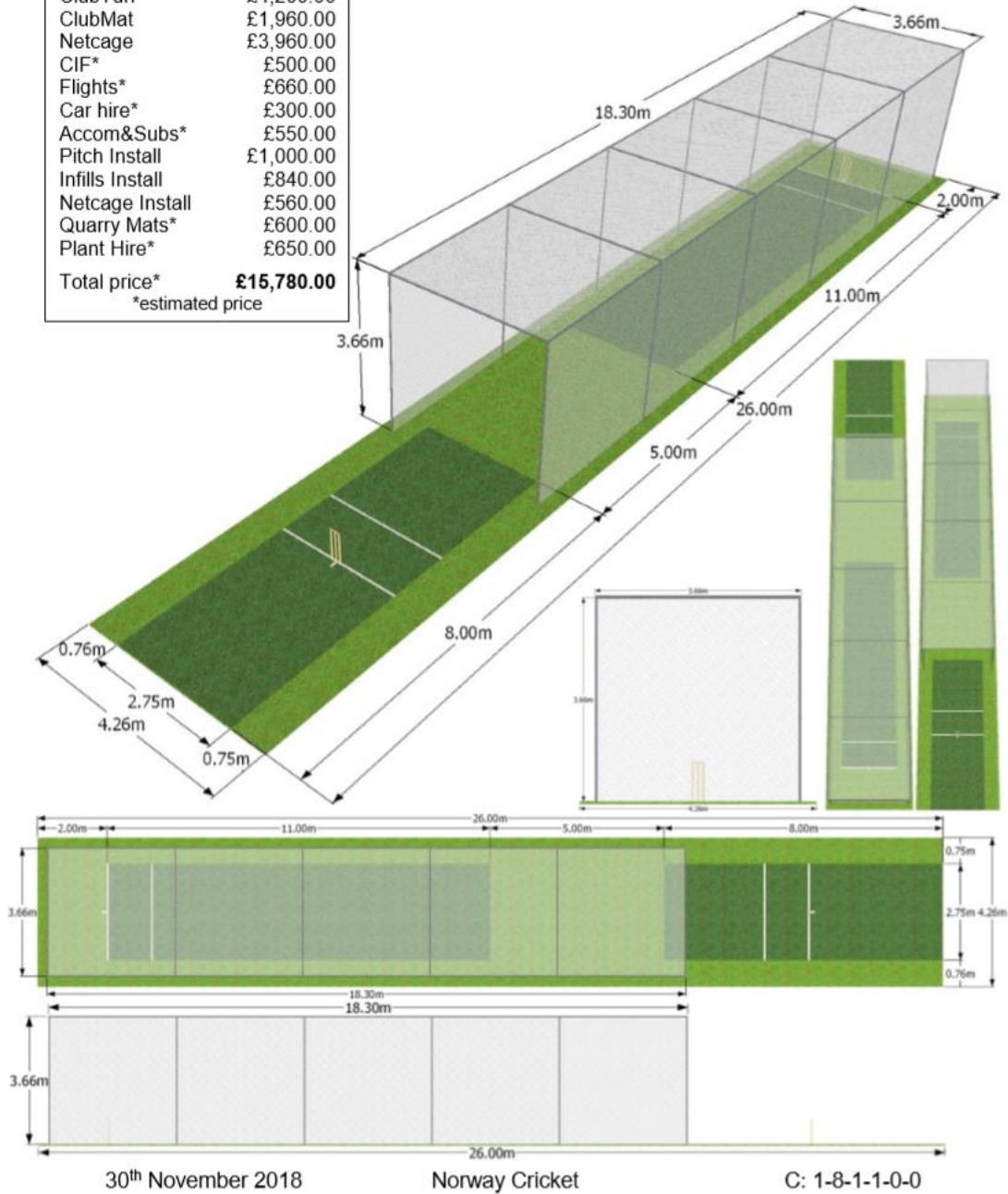


ClubTurf Practice Area Norway Cricket One bay 11m & 8m



1 bay 11m & 8m ClubTurf pitches with full infill surround
1 bay fully roofed netcage 18.30m long by 3.66m wide by 3.66m high

ClubTurf	£4,200.00
ClubMat	£1,960.00
Netcage	£3,960.00
CIF*	£500.00
Flights*	£660.00
Car hire*	£300.00
Accom&Subs*	£550.00
Pitch Install	£1,000.00
Infills Install	£840.00
Netcage Install	£560.00
Quarry Mats*	£600.00
Plant Hire*	£650.00
Total price*	£15,780.00
*estimated price	



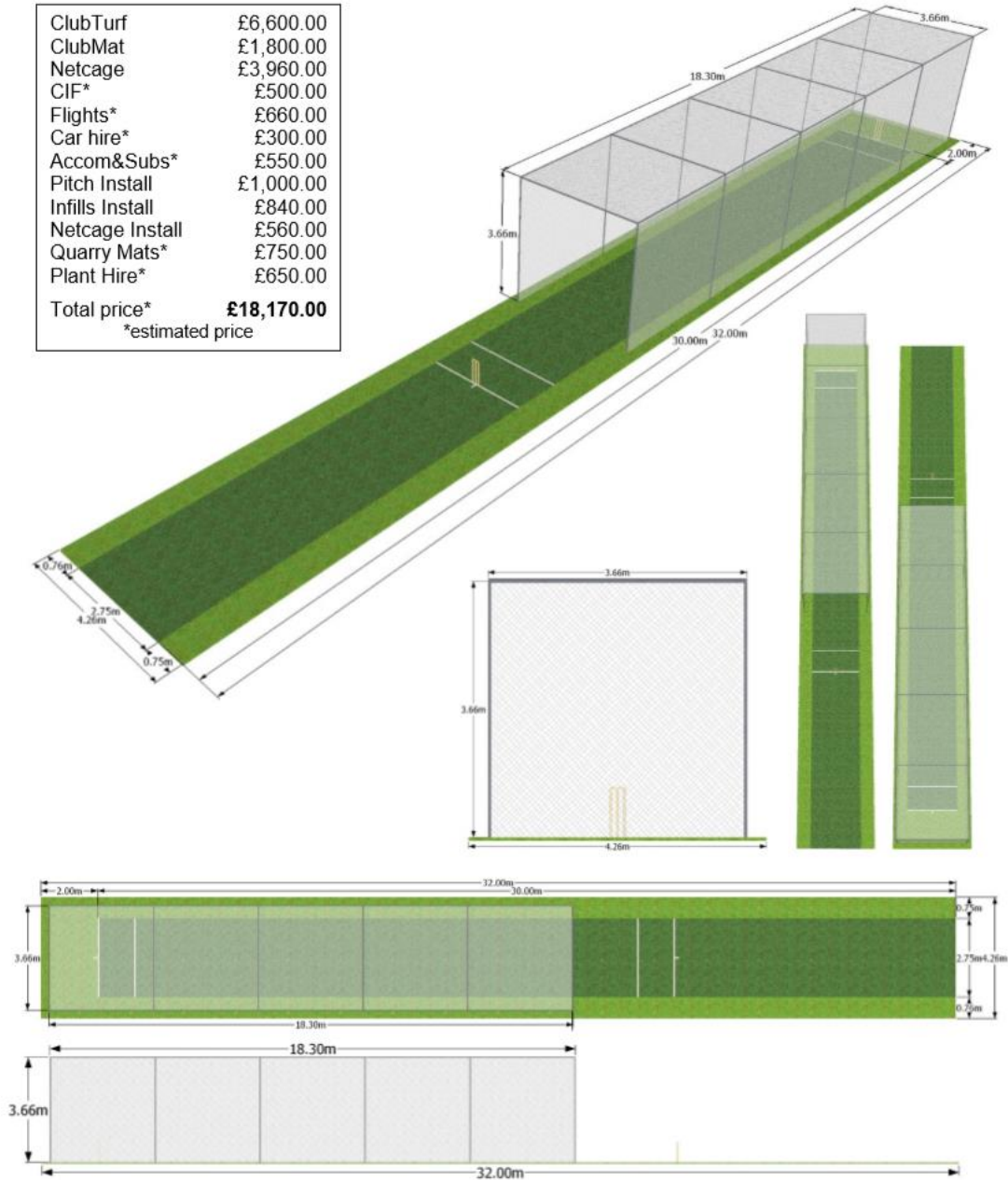


ClubTurf Practice Area
Norway Cricket One bay 30.00m



1 bay 30.00m ClubTurf pitches with full infill surround
1 bay fully roofed netcage 18.30m long by 3.66m wide by 3.66m high

ClubTurf	£6,600.00
ClubMat	£1,800.00
Netcage	£3,960.00
CIF*	£500.00
Flights*	£660.00
Car hire*	£300.00
Accom&Subs*	£550.00
Pitch Install	£1,000.00
Infills Install	£840.00
Netcage Install	£560.00
Quarry Mats*	£750.00
Plant Hire*	£650.00
Total price*	£18,170.00
*estimated price	



30th November 2018

Norway Cricket

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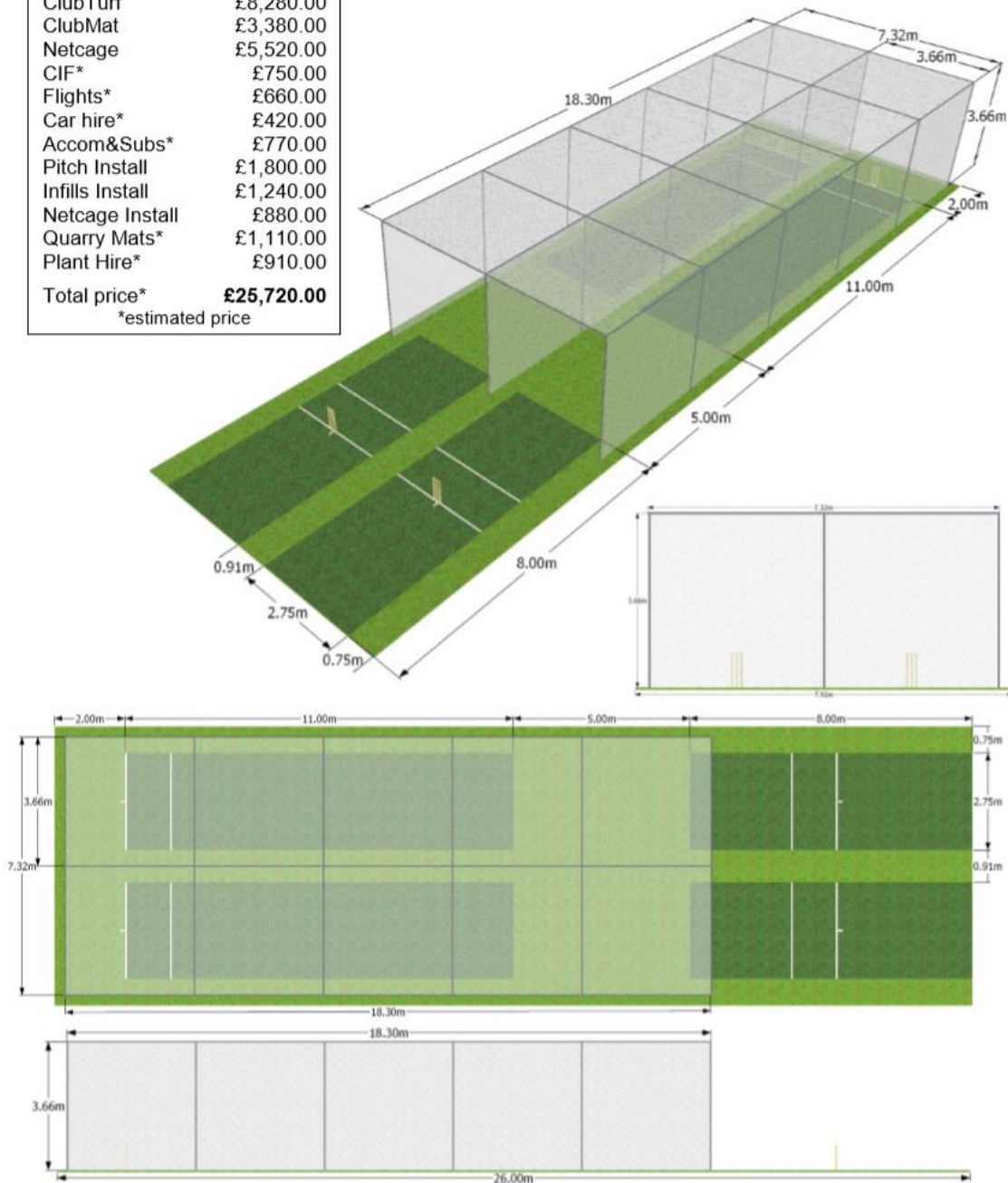


ClubTurf Practice Area Norway Cricket Two bay 11m & 8m



2 bay 11m & 8m ClubTurf pitches with full infill surround
2 bay fully roofed Netcage 18.30m long by 7.32m wide by 3.66m high

ClubTurf	£8,280.00
ClubMat	£3,380.00
Netcage	£5,520.00
CIF*	£750.00
Flights*	£660.00
Car hire*	£420.00
Accom&Subs*	£770.00
Pitch Install	£1,800.00
Infills Install	£1,240.00
Netcage Install	£880.00
Quarry Mats*	£1,110.00
Plant Hire*	£910.00
Total price*	£25,720.00
*estimated price	





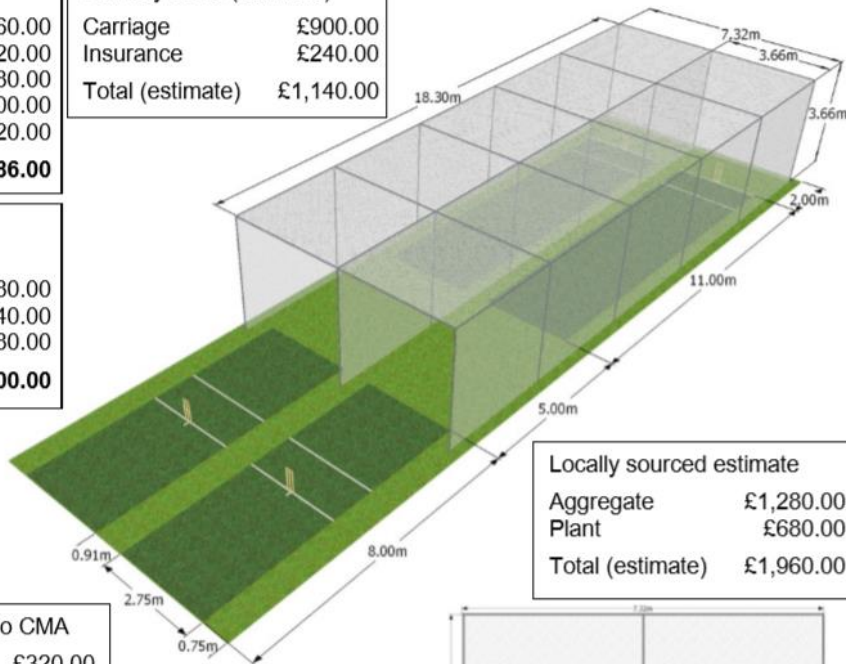
ClubTurf Practice Area Two bay basic installation Norway

2 bay 11m & 8m ClubTurf "International" practice pitches with full Synthetic Infill Surrounds and Standard Netcage with full roof netting.

Materials supply	
ClubTurf	£6,760.00
InterPad	£1,520.00
ClubMat	£3,380.00
Metalware	£4,400.00
Netting	£1,120.00
Total	£17,186.00

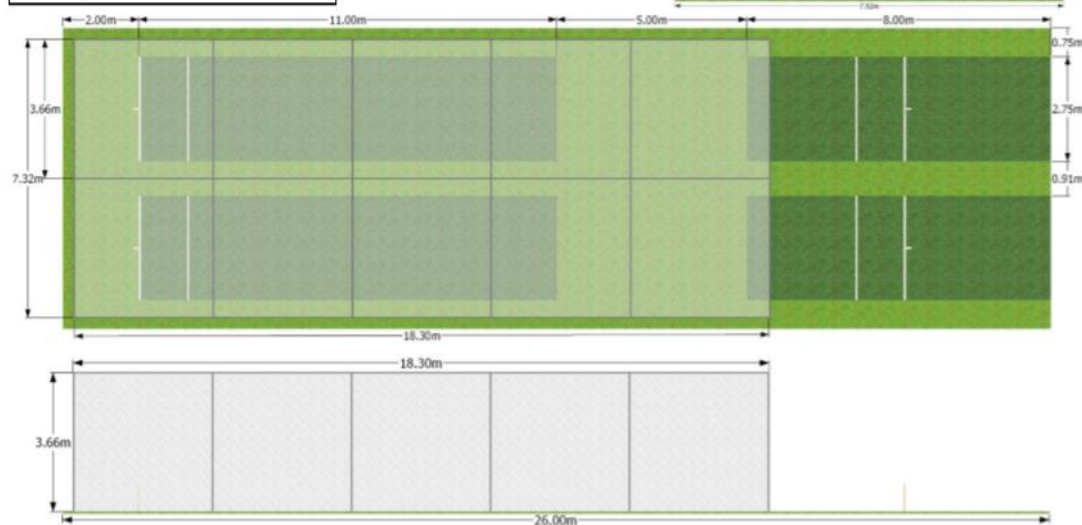
Delivery costs (estimate)	
Carriage	£900.00
Insurance	£240.00
Total (estimate)	£1,140.00

Contract Managers Attendance (CMA)	
Pitches	£1,680.00
Infills	£1,240.00
Netcage	£880.00
Total	£3,800.00



Locally sourced estimate	
Aggregate	£1,280.00
Plant	£680.00
Total (estimate)	£1,960.00

Extra costs related to CMA	
Flights	£320.00
Car Hire	£400.00
Accommodation & Subsistence	£960.00
Total (estimate)	£1,680.00



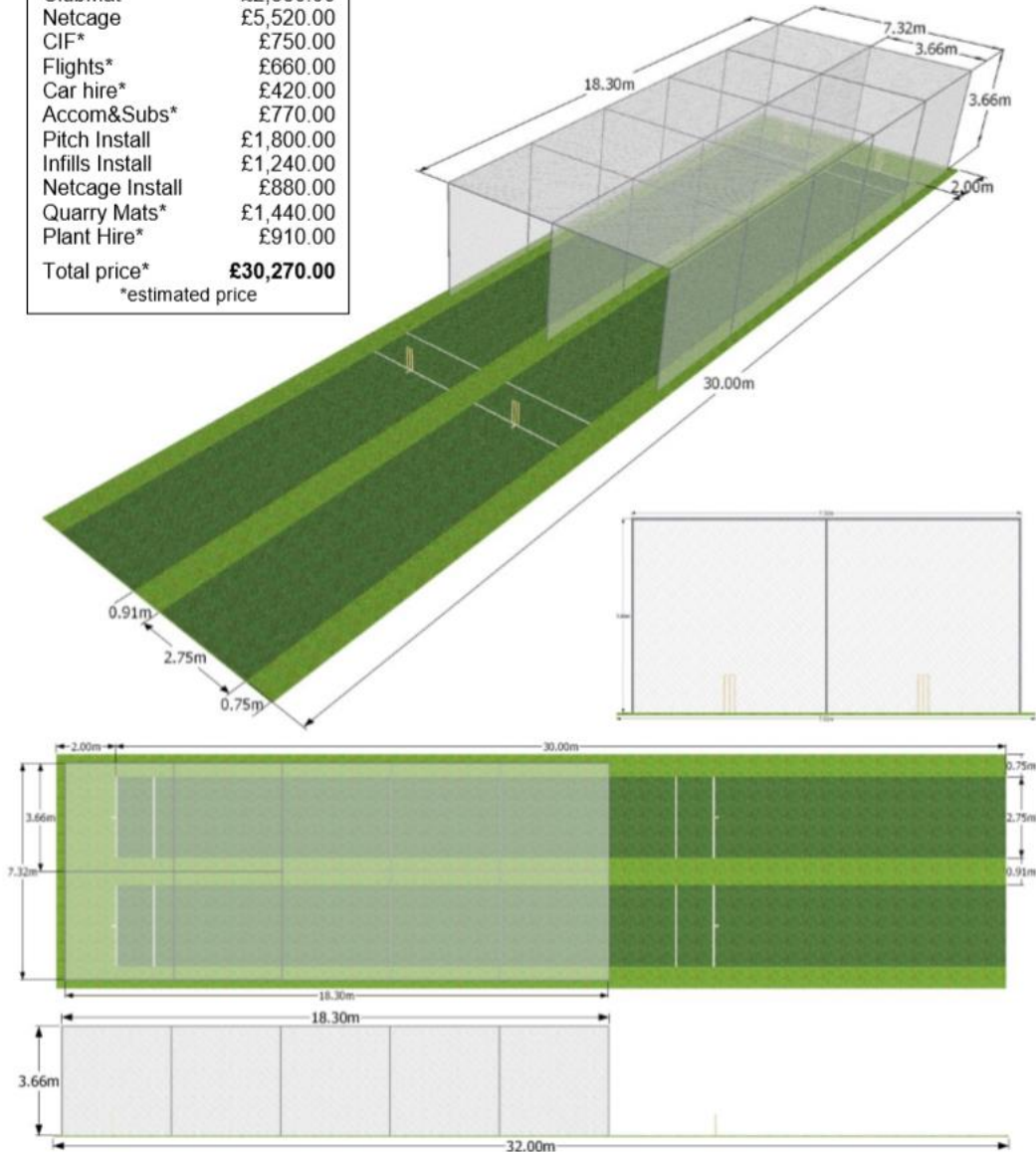


ClubTurf Practice Area Norway Cricket Two bay 30.00m



2 bay 30.00m ClubTurf pitches with full infill surround
2 bay fully roofed Netcage 18.30m long by 7.32m wide by 3.66m high

ClubTurf	£13,000.00
ClubMat	£2,880.00
Netcage	£5,520.00
CIF*	£750.00
Flights*	£660.00
Car hire*	£420.00
Accom&Subs*	£770.00
Pitch Install	£1,800.00
Infills Install	£1,240.00
Netcage Install	£880.00
Quarry Mats*	£1,440.00
Plant Hire*	£910.00
Total price*	£30,270.00
*estimated price	



30th November 2018

Norway Cricket

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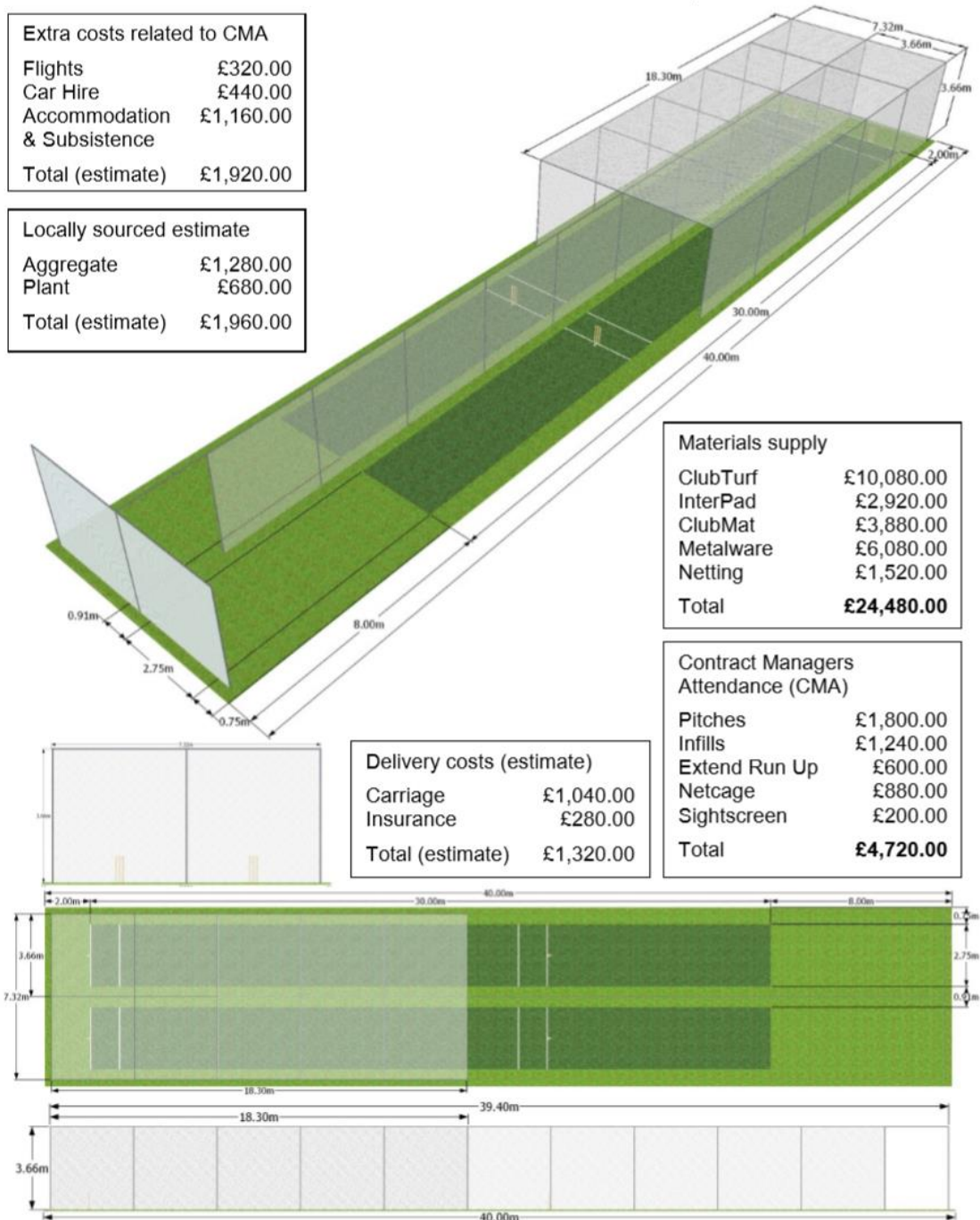


ClubTurf Practice Area Two bay as specified Norway

2 bay 30m ClubTurf "International" practice pitches with full Synthetic Infill Surrounds and Standard Netcage with full roof netting and extended divider. 8.00m extended run up area

Extra costs related to CMA	
Flights	£320.00
Car Hire	£440.00
Accommodation & Subsistence	£1,160.00
Total (estimate)	£1,920.00

Locally sourced estimate	
Aggregate	£1,280.00
Plant	£680.00
Total (estimate)	£1,960.00



Materials supply	
ClubTurf	£10,080.00
InterPad	£2,920.00
ClubMat	£3,880.00
Metalware	£6,080.00
Netting	£1,520.00
Total	£24,480.00

Contract Managers Attendance (CMA)	
Pitches	£1,800.00
Infills	£1,240.00
Extend Run Up	£600.00
Netcage	£880.00
Sightscreen	£200.00
Total	£4,720.00

Delivery costs (estimate)	
Carriage	£1,040.00
Insurance	£280.00
Total (estimate)	£1,320.00







19th June 2019

Two bay as specified Norway

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ECB APPROVED NON-TURF PITCH (NTP) SYSTEMS

SUPPLIER	ECB APPROVED NTP SYSTEMS	CONTACT DETAILS
<p>ClubTurf Limited</p> 	<p>ClubTurf International Pitch ClubTurf Natural Pitch</p>	<p>www.clubturf.com</p>
<p>Dura-Sport Limited</p> 	<p>DSI-pro Cricket System DSI-pro Vision Cricket System</p>	<p>www.dura-sport.co.uk</p>
<p>Exclusive Leisure Limited</p> 	<p>Cricketweave Hard Porous Synthetic Turf Pitch Cricketweave 'T' Base Synthetic Turf Pitch T10 'T' Base System</p>	<p>www.exclusiveleisure.co.uk</p>
<p>Notts Sport Limited</p> 	<p>NottsBase® D System NG7 NottsBase® D System NG12 Envelope System® NG7 Envelope System® NG12</p>	<p>www.nottssport.co.uk</p>
<p>Stuart Canvas Products Limited</p>	<p>SCP Deluxe Synthetic Turf System</p>	<p>www.stuartcanvascricket.com</p>
<p>total-play Limited</p> 	<p>total-play 'tp365' Synthetic Turf Pitch total-play 'tp 5T' Synthetic Turf Pitch total-play 'tp B1' Synthetic Turf Pitch</p>	<p>www.total-play.co.uk</p>
<p>Verde Sports (Cricket) Limited</p> 	<p>Premier System Synthetic Turf Pitch Test Match Synthetic Turf Pitch</p>	<p>www.artificialgrass.org.uk/verdesports-cricket</p>