



Client Material Information

Project: UWTSD Leisure Complex

Contract Number: 6023

Completed By Jenny Stroud

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1.0 - Building Materials

1.1 - Substructure

1.1 A) Foundations Piling foundations -

Anti-noise and vibration measures

As the site is not locate adjacent to other buildings, vibrations from the piling foundation will not be a large concern. The vibrations can still be checked against “BS 7385 part 2 1993, Entitled Evaluation & Measurement for Vibration in Buildings” (Global Spec, 2016).

Steel sheet piling interlocking steel sheet piling to excavation perimeter;
Manufacturer: TBD
Type: Corus LX or similar

1.1 B) Car Park Under ground car park supplying 180+ standard spaces, including 14 disabled, 5 staff, cycle racks and electric charging points. Completed with mechanical ventilation and following the secure by design requirements.

1.2 - Substructure

The external construction will meet the minimum “U” Values require in the building regulations. Any damaged materials e.g brick or block will not be acceptable, wall ties will be Ancon Wall ties that fits the Brick/Block to a steel frame (Ancon, 2023).

1.2.1 A) Externals Steel Frame composite beam and slab floors Suspended slab; permanent steel shuttering with 130mm thick concrete; no coverings or finishes

1.2.1 B) Facing Brick

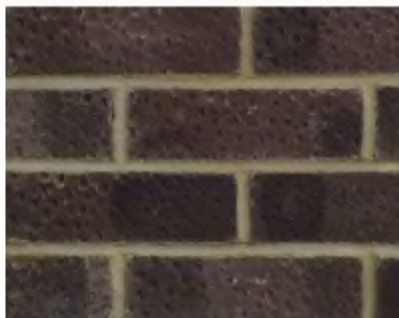


Image 1 from Gibbs and Dandy (Gibbs and Dandy A, 2023)

Manufacturer: Forterra

Type: LBC Brindle Brick 65mm Red, Material Clay. Length 215mm height 65mm. Compliance approvals BS EN 771-1 (Gibbs and Dandy B, 2023).

- 1.2.1 C) Blockwork
140mm 7N Dense concrete block inner skin laid flush to the outer flange of the steel. Using an internal column tie to hold the block and steel together at the size of 224mm (*Ancon, 2023*).
- 1.2.1 D) Insulation
Party wall insulation - 75mm Kingspan Kooltherm K8 (Thermal conductivity 0.022W/mK) zero ODP rigidurethane insulation board or other equal; as partial cavity fill; including cutting and fitting around wall ties and retaining discs (*Spons Architect, 2020*).
- 1.2.1 E) Cladding
Metal profiled cladding panel - Flat panel composite insulated roofing system; micro-rib panel; 60mm overall panel, thickness (U-value = 0.35W/m²K) (*Spons Architect, 2020*).
- 1.2.1 F) Floors
Post-tensioned concrete upper floors reinforced post-tensioned suspended concrete slab 300mm thick, 40N/mm², reinforcement 60kg/m³ (*Spons Architect, 2020*). Kingspan RHG600 insulation and RHG_X used for gym area (100mm service gap), floor finish laid above.
- 1.2.1 G) Roofing
Kingspan kingzip standing seam roof panel system at 150mm thickness (115mm insulation) to provide 0.18 W/m².K, coupled with 200mm layer of rockwool to obtain 0.1W/m².K, vapour barrier, Acoustic membrane, aluminium deck (*Sports England, 2021*).
- Flat Roof - Flat roof portion specified with Kingspan green/gravel warm roof construction with access from main stair well (*Sports England, 2021*).
- 1.2.1 H) Stairs & Ramps
Reinforced concrete construction Staircase; terrazzo finish; mild steel balustrades and handrails; plastered soffit; balustrades and staircase soffit decorated 3.00m rise; dogleg (*Spons Architect, 2020*). All stairs to have aluminium nosing at £30.00 per Lm.
- 1.2.1 I) Lifts
Passenger lifts (standard brushed stainless steel finish; 2 panel centre opening doors) 8-person; 4 stops; 1.0m/s speed (*Spons Architect, 2020*).
- 1.2.1 J) Windows & Doors
Meeting "Secure by Design" Requirements
Unitized curtain walling system with double glazed units, aluminium structural framing and sandal rails. Grey external and white internal colour (*Spons Architect, 2020*).
- Aluminium windows, Windows; standard ironmongery; sills and factory glazed with low-e 24 mm double glazing. WER Rating A (*Spons Architect, 2020*).

Wheel chair entrance door - Stainless steel entrance screens and doors, Purpose-made screen; double glazed, with automatic doors (*Spons Architect, 2020*).

Steel external door

Standard doors, single external steel door, including frame, ironmongery, powder coated finish (*Spons Architect, 2020*).

1.2.1 K) Photovoltaic

With the use of photovoltaics facing north to gather additional energy to potentially reduce the monthly energy bills.

1.2.2 Internals

1.2.2 A) Stud Partitions

General areas to have 12.5mm plasterboard with skim finish, wet areas to have moisture resistant plasterboard to walls and ceilings

1.2.2 B) Floor Finishes



Image 2 from Polyflor (*Polyflor 2023*)

Areas: Office, Staff Room, Reception, Cafe, Stairwell, All Corridor, Gym, 5 Store Rooms, Plant room, Emergency Access, Pool store, All changing areas, First aid room and All toilets.

Manufacturer: Polyflor

Type: Polysafe Quattro PUR, Cool Pebble (*Polyflor 2023*)

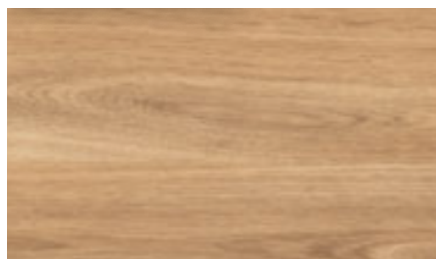


Image 3 from Polyflor (*Polyflor 2023*)

Areas: Both Studios

Manufacturer: Polyflor
Type: Polysafe wood fx Acoustic PUR, American Oak (*Polyflor 2023*)

Areas: Swimming pool
Manufacturer: TBD
Type: Tile or vinyl to be chosen by the client.

1.2.2 C) Skirting
Skirting to be Softwood, only in areas with just paint.

1.2.2 D) Wall Finishes
In situ wallfinishes - one mist and two coats emulsion paint (to General areas)
Areas: Office, Staff Room, Reception, Cafe, Stairwell, All Corridor, Both Studios, Gym, 5 Store Rooms, Plant room and Emergency Access.
Manufacturer: Dulux or Crown
Colour: Grey



Image 3 from Aquamura (*Aquamura, 2022*)

Aquamura wall panels; including backing (In Wet Areas)
Areas: Swimming pool, Pool store, All changing areas, First aid room and All toilets.
Manufacturer: Aquamura, Pearl Marble Gloss (Aquamura)

1.2.2 E) Ceiling Finishes
Dry lining with moisture resistant plasterboard to ceilings with plaster finish.

2.0 - Gym Equipment

2.0 A) Machinery / Equipment
All gym equipment will be from the fitness superstore, each piece of equipment is high-end side of the market. The 450m2 gym will hold a range of different machines that will attract people to join and stay at the facility. All Images and descriptions comes from *Fitness Superstore, (2023)*.

Leg & Squat Machines



Body Power Smith Half Rack - Bench Included
Dimensions: 130 x 81 x 82 cm
£1,059.00



Powertec Leg Press
Dimensions: W79" x L36.6" x H54"
£995.00



Hammer Strength Plated Loaded V-Squat
Dimensions: none provided
£5,898.00

Arm Machines



Body-Solid Pro club line series 2 Bicep & Tricep (235lbs)
Dimensions: W52" x L42" x H83"
£2,199.00



Powerline Preacher Curl Bench
Boxed Dimensions: W37" x L33" x H36"
£219.00

Additional Extra: Olympic Weight EZ Curl Bar £52.99

Back, Shoulders & Chest



TuffStuff Apollo AP-71MP Multi Press
Dimensions: W56" x L49" x H84"
£2,795.00



Powertec Isolateral Workbench Multi Press
Dimensions: W77.8" x L55.6" x H41.3"
£859.00



Body-Solid Pro Club Line T-Bar
Dimensions: W42.5" x L79" x H18.75"
£439.00



Matrix Fitness Magnum MG-A52 Back Extension
Dimensions: L49" x W79" x H38"
£714.00



Life Fitness Series Plate Loaded Row
Dimensions: none provided
£3,774.00

Multi-purpose Machines



Body-Solid G6B Bi-Angular Gym with Inner/Outer Thigh Station
Dimensions: W85" x L50" x H84"
£3,399.00

Abdo & dip Machines



Life Fitness Insignia Series Abdominal
Dimensions: W134 x L118 x H148 cm
£6,936.00



Body-Solid Pro Club Line Series 2, Chin & Dip (235lbs)
Dimensions: W33" x L63" x H98"
£2,799.00

Cardio Machines



Life Fitness F1 Smart Folding Treadmill
Quantity: 4
£1,295.00 Per machine



ProForm Pro C22 Indoor Trainer
Quantity: 3
£999.00
Located in the main gym area.



Life Fitness IC1 Group Exercise Bike Powered by ICG
Quantity: 14
£495.00
Located in the studios for group classes.



Concept2 SkiErg Floor Stand
Quantity: 1
£235.00



NordicTrack RW300 Rowing Machine
Quantity: 2
£699.00

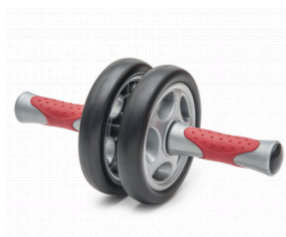


ProForm Sport E2.0 Elliptical
Quantity: 3
£249.00



Matrix Fitness Climbmill with XER Console
Quantity: 2
£5,399.99

Accessories



Body Power Premium Ab Wheel
Quantity: 3
£5.99 per wheel



Solid Weight Plates
Quantity: 2
£42.99 Per pack



Powertec Spotter Arms
Quantity: 3
£69.99



Body-Solid J Cups
Quantity: 2
£79.99



Body-Solid Dip Attachment
Quantity: 1
£209.00



Barbell Pad
Quantity: 2
£4.99



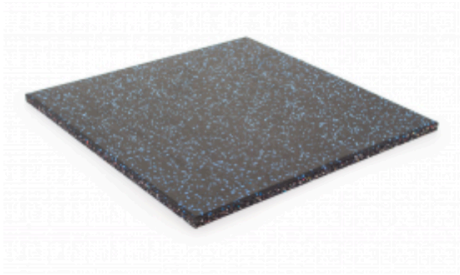
Floor Tile Ramp Edge
Quantity: 6
£5.99



Tricep Rope
Quantity: 2
£8.99



Tricep Rope
Quantity: 2
£9.99



Floor Tile
Quantity: 3
£9.99



Soft Pilates Weights
Quantity: 2
£12.59



Pro-grip Seated Row Bar
Quantity: 2
£14.99



Double Handled Lat Bar
Quantity: 2
£29.95

3.0 - References

Global Spec, (2016), *BS 7385 part 2 1993*, Available at - <https://standards.globalspec.com/std/596323/BS%207385-2> (Accessed on 3rd April 2023)

Ancon, (2023), *Ties for Steel Frame*, Available at - <https://www.ancon.co.uk/products/wall-ties-restraint-fixings/cavity-wall-ties/ties-for-steel-frames> (Accessed on 3rd April 2023)

Gibbs and Dandy, (2023), *Bricks*, Available at - <https://www.gibbsanddandy.com/building-materials/bricks-blocks/bricks/page/2?q=%3Arelevance%3ARange%3AFacing%2BBricks> (Accessed on 3rd April 2023)

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Spons Architect, (2020), *Spon's Architect' and Builders' Price Book 2020*

Aquamura, (2022), Available at - https://www.aquamura.co.uk/colour_ranges/pearl-marble-gloss/ (Accessed on 3rd April 2023)

Polyflor, (2023), Available at - <https://www.polyflor.com/jh/products.nsf/products!open&family=saf> (Accessed on 3rd April 2023)

Fitness Superstore, (2023), *Gym Equipment*, Available at - <https://www.fitness-superstore.co.uk/gym-equipment> (Accessed on 4th April 2023)

Sports England, (2021), *Guidance on design and costs*, Available at - <https://www.sportengland.org/guidance-and-support/facilities-and-planning/design-and-cost-guidance> (Accessed on 26th April 2023)