



SQUASH COURT SPECIFICATION





SQUASH COURT SPECIFICATION

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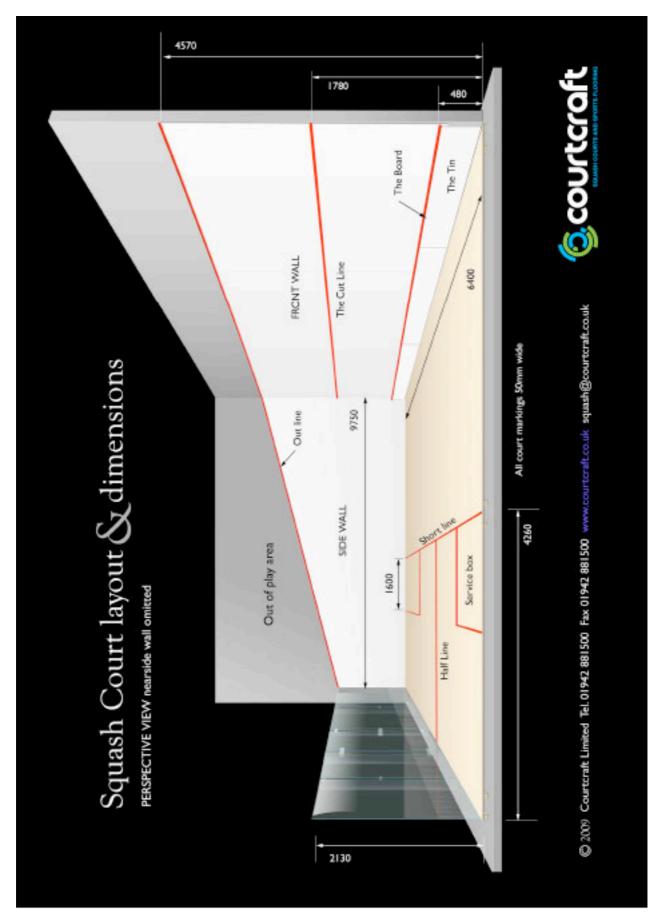
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Introduction

This Specification is intended to provide useful information for architects and builders to design and construct traditionally-built squash courts with masonry walls, in accordance with the specifications and requirements of the governing bodies of Squash:

- The World Squash Federation (WSF) and member federations
- England Squash & Racketball (ESR) the English governing body

Advice is provided on construction techniques, materials and tolerances suitable for specialist squash court finishes: court plaster; glass-back walls; floors; and court accessories, in accordance with manufacturers' technical literature, and is based on Courtcraft's 20 years of experience in this specialist field.

Central importance must be given to the design & construction of substrates so that the specialist finishes perform their function properly. To withstand the constant impact of balls, rackets and players without deterioration, wall and floor surfaces should be constructed accurately of durable and robust materials.

This includes designing out potential problem areas such as expansion joints in corners where plaster will break down following building settlement, or avoiding the use of stanchions or beams in walls which would be difficult to plaster over. Good trade practices and high standards if workmanship must be observed in wall and floor construction, in accordance with recognised British Standards.

All of the products used by Courtcraft are WSF & ESR approved and well known for quality and durability.

Each product has been rigorously tested to comply with required technical standards and subjected to a monitoring and evaluation process over many years.

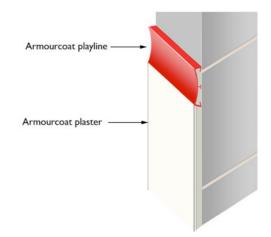
1. WALLS: Armourcoat Plaster

Armourcoat plasters are 2-coat resin-modified gypsum plasters specifically developed to comply with the WSF requirement for a "hard, smooth finish" combining ease of application with accuracy, durability and toughness, and ease of maintenance. The 2-coat application (12mm nominal thickness) ensures accuracy in application, whilst the gypsum formulation guarantees dimensional stability and a smooth cleanable finish.

Armourcoat plaster is self-finished white, and does not need to be painted. Armourcoat cleans back to pristine condition. Armourcoat comprises 9mm of basecoat and 3mm of finish coat. Playlines and court accessories are red.

1.2 Out-of-playlines

These delineate the boundaries of the plastered wall playing surfaces and should be "...so shaped as to deflect any ball striking (them)" (WSF Specification). Armourcoat playlines are manufactured from extruded plastic in a concave profile, available in red, green, or blue 50mm wide. The playlines are fixed onto the walls before plastering is commenced and together with the glass-back wall side channels (see section 2.2 below), form permanent grounds for the plasterer to work to.



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The quality of the finished plaster and the straightness of the playlines will be in large part determined by the quality and accuracy, which the builder can provide in constructing the walls. Plumb walls are particularly important for the playlines since they cross diagonally over many courses of block or brickwork on the sidewalls: from 2.13m at the back to 4.57m at the front.

1.3 Wall construction

Walls must be constructed to accurate tolerances using suitable materials which are dense and strong: as squash court plasters are strong, the compressive strength of the wall substrate must be high otherwise drying shrinkage will create stresses which will break away the background surface resulting in bond failure.

Substrates should not be too dense (semi-engineering bricks, for example) otherwise background suction will be too low and special bonding agents may be necessary, as the risk of delamination is high.

It is important that good site practice is followed in wall construction, generally in accordance with BS 8000 Workmanship on building sites Part 3: Code of Practice for masonry (2001), and that the recommendations of the brick or blockwork manufacturer are followed. Additional guidance may be obtained from:

• The British Standards Institution (BSI) <u>www.bsi-global.com</u>

The Concrete Block Association www.cba-blocks.org.uk

The Brick Development Association <u>www.brick.org.uk</u>

The Building Research Establishment (BRE) www.bre.co.uk

1.3.1 Suitable materials

- LBC plain Fletton clay bricks (frog up). Compressive strength 27.5N/mm2, or similar common bricks
- Dense aggregate concrete blocks (solid or hollow) type "A" to BS 6073 pt 1 (1981), minimum compressive strength 7N/mm2

In-situ concrete walls are not normally suitable because of the need to introduce expansion joints to accommodate thermal movement. If unavoidable the surface should be scabbled to remove laitance and provide a mechanical key (a bonding agent will still be necessary), or formwork treated with a retarding agent so that the surface can be brushed down to expose aggregate for a key.

1.3.2 Unsuitable materials

- Weak or porous materials, such as aerated lightweight or gas concrete blocks, clinker blocks, hollow terra cotta blocks or bricks. This includes weak mortars.
- Reject facing bricks (cause difficulties with differential suction)
- Semi-engineering bricks (for reasons described above)
- High iron content common bricks ("Scotch" commons e.g.)
- Mixed materials (cause difficulties with differential suction)



Although 7N/mm2 versions of aerated concrete blocks are available, we strongly recommend that their use be avoided in squash courts. The use of lightweight load-bearing blocks normally requires the introduction of movement joints every 6000mm. More importantly, the surface of the block surface is soft, forming a weak bond with the specialist plaster, which can be weakened further by repeated ball impacts. This type of block also contains a high proportion of large air pockets – some very close to the surface – which can cause delamination and plaster breakdown under impact, particularly on front walls.

1.3.4 Drying out

All substrates must be completely dried out prior to plastering and completely free from soluble salts or other deleterious matter which could cause defects or blemishes in the finished plaster (which is **not** painted after installation): this is particularly important for coloured plaster which will become pattern-stained if the underlying blockwork is not dry.

1.3.5 Stanchions, beams, columns & expansion joints

Should be strictly avoided as they introduce weaknesses into the squash court plaster, which will result in cracking over joints. Columns should be concealed behind or inside diaphragm or cavity walls to allow continuous unbroken block or brickwork panels with solid corners. Internal front corners should be bonded if possible, and not butt-jointed with expansion joints. Butt joints might allow for shrinkage and expansion, but will result in cracking and delamination of the plaster in the corners over such joints at some future stage. It is inadvisable to introduce plaster stop-beads in an attempt to combat this because the constant force of ball impacts in the vulnerable area will again result in delamination and cracking.

1.3.6 Damp proof course

To prevent seepage of ground water and any subsequent damage to plaster, or leaching out of soluble salts, it is essential that DPC be incorporated into each wall.

1.3.7 Position of DPC

When the squash court sidewalls are plastered, the plaster will extend past finished floor level (normally SSL +79mm) to enable the floor to be finished incorporating a 6mm gap against each wall. (This is called the "nick" and is "in-play"). There are no skirting boards in squash courts, which means that the gap and the plaster remain visible. For this reason DPC should be incorporated at structural slab level and not at finished floor level, which might conventionally be the case (further details available on request).

1.3.8 Construction tolerances

The WSF stipulates that the finished walls of a squash court should:

- "...be vertical to within ±5mm in a height of 2 metres when measured: within 250mm of each corner of the court; and at three additional points evenly spaced along the length of each wall."
- "...be straight to within ±15mm in the length...when measured horizontally at a height of 1 metre above finished floor level."
- "...have no variations from the true surface of more than 3mm when measured in any direction with a 1800mm long straightedge."

To enable the finished plaster to achieve this, the walls should be constructed very accurately: uniformly square and absolutely straight and plumb, to a tolerance of ±6mm in 2000mm.

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1.3.9 Mortar & Mortar joints

Mix design should be suitable for the type of block or brick specified. Wide mortar joints should be avoided, 10mm being the expected thickness, consistent with standard trade practise. Excessively wide joints may form a potential weakness resulting in poor plaster bond strength and possible delamination. Joints should be flush-pointed, with mortar ironed into the joints to eliminate voids. Raking out is not necessary as Armourcoat has excellent adhesion without the need for a mechanical key. Raking out may also cause pattern staining.

Ideally sidewalls should be built in two leaves of stretcher-bond, allowing the bricklayer to provide a plumb surface on both sides. This also facilitates bonded corners with any necessary expansion joints in the front walls being formed to coincide with the cavity between each of the leaves on the sidewalls.

1.3.10 Court dimensions

See drawing above for finished sizes. Add 12mm per wall for building sizes. Standard court width is 6425mm (finished size 6400 ±10mm). Drawing CCS1 also shows finished court dimensions.

1.3.11 Out of play area

The side and front walls of a glass-back court are normally built up to ceiling height, but need not be solid masonry unless structurally necessary (load-bearing walls e.g.). Nylon mesh netting or another form of partition may be used, although this may cause maintenance problems in later years. The SRA do stipulate, however, that walls must be solid to a minimum of 300mm above the playline on the sidewalls and 1380mm above the playline on the front wall (for ball-sighting purposes).

1.3.12 Finishes to out of play areas

It is not necessary to plaster the walls above the playlines, although it may be preferred from an aesthetic viewpoint. Out-of-play areas are normally fair-faced block or brickwork painted matt white. All other building elements in the courts should also be non-reflective light colour to enable the ball to be seen in flight and to avoid visual distractions to players.

2. GLASS-BACK WALLS

This Specification is based on the use of WSF approved freestanding glasswalls 2.13m high, which comprise 4 glass panels and a glass door supported by glass fins (see CCS1 and SDS1 for co-ordination details).

Fixed-head types are available designed for use in situations whre a structural soffit is envisaged over the glasswall. Aluminium posts support this type of wall, rather than glass fins and is particularly suitable for situations where corridor space is limited and where glass fins might present a pedestrian safety hazard.

2.1 Construction dimensions for glasswalls

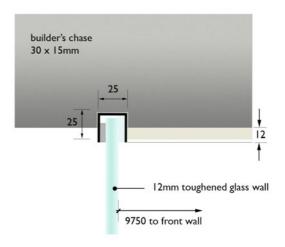
The standard court width should be constructed at 6425 mm to provide a finished width after plastering of $6400 \pm 10 \text{mm}$. For courts over or under these sizes arrangements can normally be made to manufacture over or undersize glass doors to compensate for the difference.



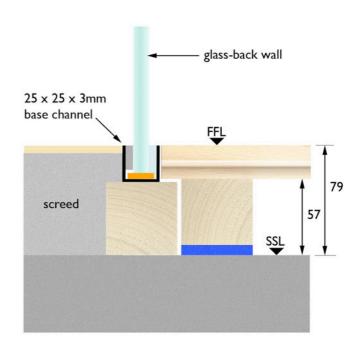
2.2 Fixing details

All glass wall panels are located into 25 x 25mm aluminium channels fixed into the sidewalls and the sub-floor.

Side channels are fixed into vertical chases cut by the Main Contractor into the sidewall masonry. The channels are fixed immediately prior to plastering and form permanent grounds for the plaster at the side wall/glasswall junction. This operation is carried out by the plasterer at the same time as the playlines are fixed.



Base channels are screwed onto treated softwood bearers, which are plugged and screwed to structural concrete and packed level. The top of the base channel will be set at finished floor level. The glass support fins are bolted to an angle bracket assembly which itself is bolted to structural concrete using M16 anchor bolts. It is essential that structural concrete is at least 100mm thick and has a minimum compressive strength of 25N/mm.



2.3 Pre-cast concrete floors

Where floors are constructed using PC units, or "plank and pot" systems, special arrangements need to be made to ensure adequate fixings can be made for the glass fin and bracket assembly; bolting through, for example; or filling voids with concrete

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2.4 Floor & base channel

The standard fin & bracket assembly co-ordinates with batten system hardwood floors with an overall thickness in the range 70-80mm (the standard Junckers *Blubat* floor system is 79mm overall). Special arrangements for builder's work will be necessary for floor thicknesses less than 70mm (cutting out concrete beneath the fin brackets, for example).

2.5 Finishes adjacent to glass-back walls

England Squash recommend that the sidewalls of the squash courts be extended at least 900mm beyond the glass wall: either "as part of the structure or (as) a flush faced panel 900mm wide the full height of the glass wall ... painted white" (ESR Information Sheet 10:Glass-back walls). These wall extensions act like sightscreens to prevent sight of the ball being lost in play, and prevent the glass acting as a mirror.

3 FLOORS

The WSF stipulates that: "The floor shall be hard, smooth, and able to absorb small amounts of moisture without becoming slippery, have limited spring and provide a firm footing in normal play." In practice squash court floors have traditionally been constructed from light coloured hardwoods – usually beech or maple – that is secret-nailed to a semi-sprung batten to provide the resilience required. A number of proprietary brands of flooring batten are available, all of which have a resilient strip or pad fixed to their underside. This forms a permanent cushion between the floor and the sub-floor, which minimises physiological damage and prevents player fatigue.

3.1 Junckers SylvaSquash Beech

Junckers SylvaSquash beech has distinct advantages over competitive products:

- WSF and SRA approval
- Compliance with BS 7044: Part 4 (1991)
- Precision engineered pre-finished boards, manufactured to a tolerance of 22mm ±0.2mm
- · Light, even, consistent grain and colour
- Grown in sustainable managed forests
- Standard length boards (3700mm long), enabling every heading-joint to be laid on and supported by a batten minimising the risk of board breakages. (Maple, by contrast, comes in random lengths and is prone to board breakages between battens).
- Boards are factory-finished with a slight texture (sealed or unsealed), removing the need for post-installation sanding or sealing.
- Long minimum life-cycle: as boards are solid timber and not laminated, SylvaSquash floors can be sanded down
 for maintenance up to 15 times before needing to be replaced, as compared with structured or laminated
 boards

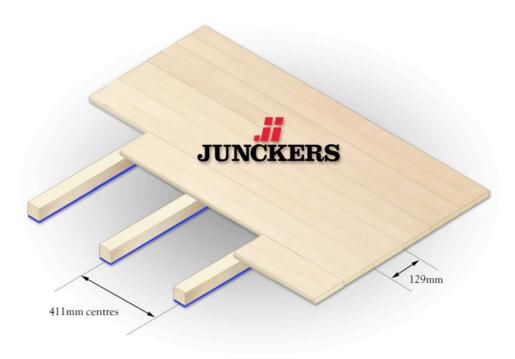
3.2 Sub-floor construction

Boards are secret-nailed to an undercarriage system of battens, laid at 411mm centres, so that a batten supports each board-end. As described above, each batten is semi-sprung: Junckers battens (brand name *Blubat*) having a continuous foam strip glued to their underside.



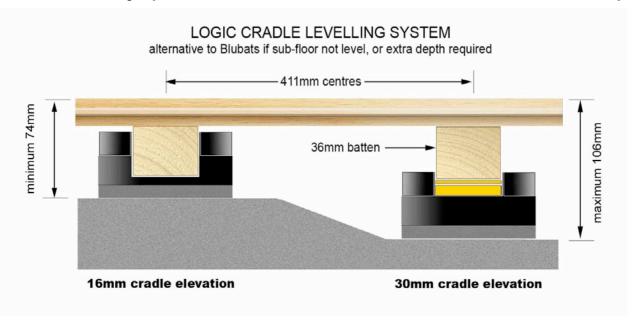
3.3 Sub-floor tolerances

Blubat battens have been designed for use on sub-floors which are flat and level, and which comply With BS 8024 Pt1 (1987). "Code of Practice for concrete bases and screeds to receive in-situ flooring", with a tolerance not exceeding 3mm under a 3000mm straightedge. Single batten systems of this type cannot be packed to level because the foam compresses over packing pieces to create "dead" spots. In practice, most floors do not reach this degree of accuracy and scabbling and/or latexing is necessary to achieve tolerance.



3.4 LOGIC Cradle levelling systems

This type of undercarriage system has been designed to resolve the problem of out-of-tolerance sub-floors in a more practical and economic way than expensive concrete remedial techniques. Manufactured from high- impact grade polypropylene, LOGIC levelling cradles have a resilient impact pad fixed to the underside, in contact with the sub-floor. The cradles are set at specific centres (varying according to batten thickness) and plain softwood battens are laid in them. Profiled nylon packers are then placed inside the cradles under each batten to provide a perfectly level undercarriage system onto which the Junckers boards are nailed in the conventional way.





3.5 Pre-cast concrete floors

If this a PC unit or 'plank & pot' floor is planned, levelling screeds may be omitted and cradles specified as an alternative: this is normally cheaper and more convenient, removing the need for a wet trade. Cradles are available in different thicknesses to give floor depths up to 300mm, and are normally at least 50% cheaper than screeds. Electrical and other services can also be fed between and underneath cradles.

3.6 System thicknesses

The standard SylvaSquash/Blubat system:

Beech strip: 22_{mm} Blubat batten: 57mm

Total: 79mm

The standard SylvaSquash cradle system:

Beech strip: 22_{mm} Plain batten: 36mm

LOGIC Levelling cradle: 16mm or 30mm (+20mm)

74mm -104mm Total





3.7 Damp proof membranes

Where concrete sub-floors are in direct contact with earth a primary damp proof membrane will be necessary in compliance with Building Regulations. The use of a secondary membrane may be considered, if required, but the drawbacks involved must also be taken into consideration:

- Prevention of evaporation of water vapour from new concrete and consequent presence of condensation and possible encouragement of mould-growth underneath.
- Some secondary membranes (Visqueen, for example) have very low surface friction and allow the battens or cradles placed on them to slide about, resulting in joints opening up, or even entire sections of floor moving . This tendency can be exaggerated in activity floors such as squash courts. Battens or cradles placed in direct contact with the concrete base are subject to greater friction and in consequence tend to stay put.

3.8 Finished floor tolerances

The WSF stipulates that:

- "The floor shall be level to within ±10mm in the length, width and on the diagonals of the court".
- "Any joint in the floor finish shall be plane to within 0.25mm. Any open joint shall not be more than
- 2mm..." (with the exception of the expansion gap at the wall junction which may be 6-9mm).
- "The floor surface shall be true to within ±3mm in 3 metres."



3.9 Floor finishes outside the court

It is important that the glass-back wall not be allowed as a mirror and the adjacent finishes should not be dark to prevent this. England Squash recommend (Information Sheet No.3) that:

"The floor surfaces for a distance of 900m behind the glass back wall should be the same colour or lighter that the floor of the court."

This finish need not be the same material as the court floor, but needs to be at least as light a shade. Quite often a pre-sealed version of Junckers beech is specified to achieve this effect, with the boards laid parallel to the glass wall, at right angles to the squash floor.

3.10 Floor/glasswall co-ordination

Whatever type of floor finish is specified it is important to ensure that the finish outside the court is absolutely flush with the court floor: to ensure that there is no trip hazard and because the hinge side of the some makes of glass doors overhang into the corridor by 40mm when in an open position.

4. COURT ACCESSORIES

4.1 Playlines

See section 1 above, dealing with plaster.

4.2 The "tin"

Although not made of metal any longer for safety reasons, the front wall sounding board or telltale is Conventionally called "tin". It is located along the full width of the court along the bottom of the front wall, Installed on top of the floor. The top batten of the tin (the "board") is splayed to deflect the ball to denote it is out of play when struck. The tin itself is made from white particle-board or other sheet material, with a void behind it so that a hollow sound is made when it is struck to denote the ball is out of play. The "tin" is fixed after the floor installation is completed (see drawing SDS3).



4.3 The Armourcoat Tin

The "board" and bottom cover moulding are made from durable extruded plastic and designed for secret fixing to wall and floor. The "board" colour matches the playlines - red. The floor mounting is white. The sounding boards themselves are white melamine-faced particle-boards which are located into the floor mounting and retained at the top by the splayed and rebated "board" which is clipped onto a plastic back-plate. Ventilation can be achieved by drilling a simple pattern of holes into the sounding boards on site opposite air-Bricks after fixing. If specific drilling patterns are required (for H+V systems or airflow requirements), laminated plywood or perforated metal sheets may be specified for extra strength as an alternative to particle boards. which will smash with ball impacts if over-drilled.



4.4 Court markings

Depending upon colour choice of plaster and playlines, court markings will be applied in red, green or blue

line-marking paint to the floor and front wall. The use of line marking tape is not recommended for squash court floors as it is considered a safety hazard (players can slip on tape if sweat drips onto it), although tape may be used for the 'cut-line'. All markings must comply with WSF and England Squash requirements, and be 50mm wide.

5. Other design considerations

Although outside the scope of this Specification, there are other important factors which specifiers and designers need to take into account:

5.1 Lighting

A lighting layout drawing recommended by England Squash can be found in the Appendix. This reproduces the current recommendations, based on six twin 70W HF units and will achieve:

"...an average of 400 lux measured 1000mm above the floor. This figure is subject to the reflectance of the ceiling, walls and floor and a maintenance factor of 0.85 based on a white playing surface."

This figure is likely to be reduced in Colorcourts because of lower reflectance values, and can be adversely affected by other factors such as ceiling height and other court features. If a greater level of illumination is required, the number of fittings may be increased to nine. Readers are advised to contact the Technical Department of England Squash for their Technical Information Sheet No.8 (Sept. 1999), which lists manufacturers of suitable systems.

The World Squash Federation stipulates a recommended standard of 500 lux, with a minimum standard of 300 lux (WSF Squash Court Specification, January 1999, section 11 p.14):

"The walls of the courts shall be lit in such a way as to appear evenly and uniformly illuminated and the lux levels shall not vary at any point by more than 15% from the average level of illumination."



5.1.1 Lighting for glass-back courts

Where spectator seating is planned outside courts, lighting levels should be provided to the same standard as inside the courts, to prevent the glass walls acting as a mirror when viewed by players from inside.

5.2 Adjacent finishes

Wall surfaces behind and next to glass-back walls should also be painted white for the same reason. (See also sections 2 & 3 dealing with glass walls and floors).

5.3 Ceiling finishes

Should be white or light coloured to enable the ball to be seen in flight, the level of illumination of the ceiling being not less than 25% of the court lights (WSF Specification). Ceilings may be constructed of lay-in grid tile systems, plasterboard or metal decking, as long as the materials chosen are sufficiently robust to withstand ball impacts. Structural beams, trusses and any other feature against which players may have to sight the ball should be white or light coloured and as well lit as the ceiling.

5.3.1 Minimum height

All new courts should have a minimum height from finished floor level to underside of lights (or any other court feature) of 5.64m.

5.4 Heating and ventilation

ESR Information Sheet No. 3 (Squash Court Flooring) states that:

"... a squash court should not be allowed to become damp for any length of time, as the moisture in the air will eventually enter the (floor) boards and produce buckled or cupped strips. It is important to limit the variation in the air temperature of a court to $15^{\circ} \pm 3^{\circ} C$ (60°F $\pm 5^{\circ} F$) and ensure the provision of a regular airflow of not less that 4 air changes per hour."

Junckers technical literature reinforces this point suggesting a relative humidity range for their floors of between 35 and 65% and advising that temperature extremes be avoided. Timber is a hygroscopic material and will expand and contract in proportion to the moisture in the atmosphere. Court builders are advised to ensure that provision is allowed for adequate heating and ventilation to avoid condensation and floor problems.

6. Maintenance

Squash Court components need to be taken care of to maintain their effectiveness: court walls need to be cleaned; floors sanded and re-marked. Given the right kind of maintenance and care, the specialist products in this Specification will have a life expectancy of many years. Court owners and operators should budget for regular maintenance. Courtcraft offer this service on a one-off or regular contract basis.



7. Governing Bodies

The WSF publish a *Squash Court Specification* which provides the basic recommendations for standardised dimensions and tolerances etc. The website lists WSF approved products, and has links to approved suppliers and downloadable technical information.

World Squash Federation Innovation Centre, Unit 14 Highfield Drive Churchfields St Leonards -on-sea TN38 9UH

Tel: 01424 858288 Fax: 01424 858287

email: <u>admin@worldsquash.org</u> website: <u>http://www.worldsquash.org/</u>

The Technical Department of the England Squash publishes useful Information Sheets relating particularly to heating, lighting and flooring, and also publish lists of approved products and suppliers. Clubs may become affiliated and membership also has other benefits, such as receipt of newsletters and magazines. The website has links to approved suppliers and downloadable technical information.

England Squash & Racketball (formerly England Squash) National Squash Centre Rowsley Street Manchester M11 3FF

Tel: 0161 231 4499 Fax: 0161 231 4231

email: <u>enquiries@englandsquashandracketball.com</u> website: <u>http://www.englandsquashandracketball.com</u>

8. Key Suppliers

Armourcoat Limited

Tel: 01732 460668 Fax: 01732 450930

email: <u>sales@armourcoat.co.uk</u> website: <u>http://armourcoat.com</u>

Prospec Limited (Ellis Pearson Glasswalls)

Tel: 01709 377147 Fax: 01709 375329

email: <u>squash@prospec.co.uk</u> website: <u>http://prospec.co.uk</u>

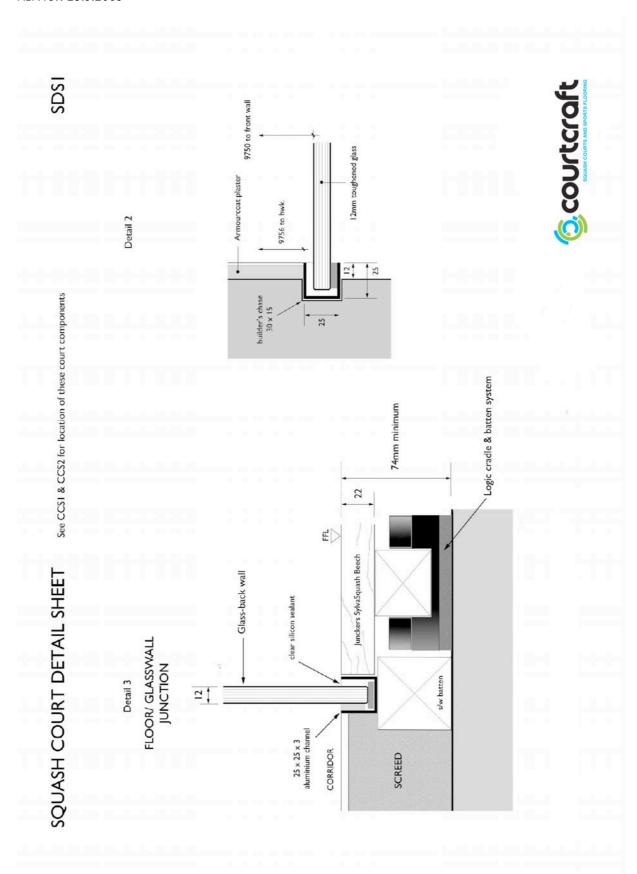
Junckers Limited

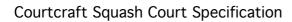
Tel: 01376 534700 Fax: 01376 514401

email: <u>enquiries@junckers.co.uk</u> website: <u>http://junckers.co.uk</u>



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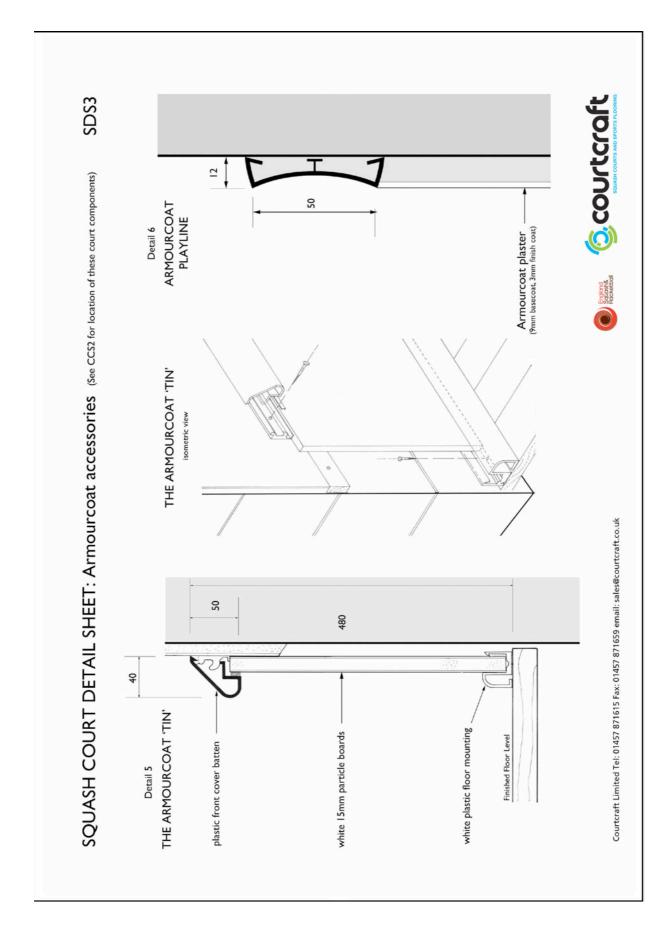










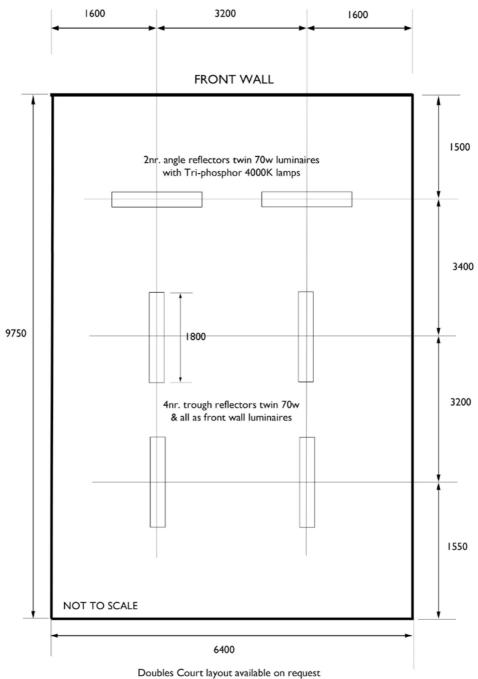




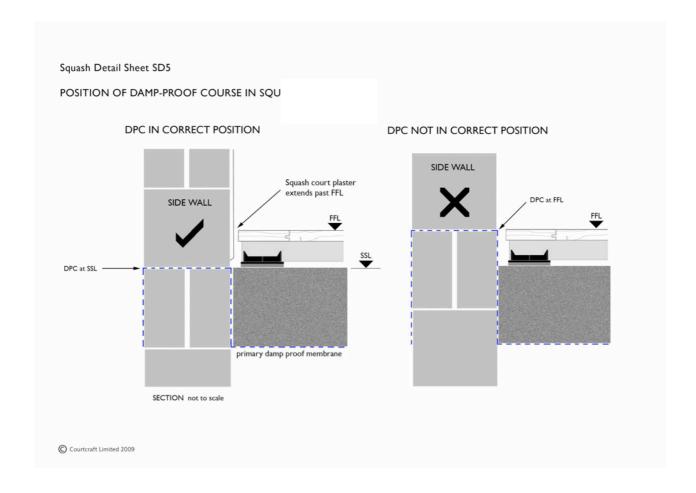
SQUASH COURT DETAIL SHEET

SDS4

Recommended Singles Court Lighting Layout









Data Sheet 1: COURT DIMENSIONS & TOLERANCES

Finished sizes Width: 6400 ±10mm

Length: 9750 ± 10 mm Diagonals: 11665 ± 25 mm

Height: 5640mm clear space to underside of lights from floor level

(Note: in renovated courts plan dimensions may be reduced by a maximum of 80mm)

Finished tolerances Walls: vertically: ±5mm in 2 metres

straightness: ±15mm in length at 1 metre AFFL plane: no greater that 3mm in 1800mm

Floors: level: ±10mm in length, width & diagonally

plane: joints not exceeding ±0.25mm in

plane

trueness: ±3mm in 3 metres

Construction Tolerances

Walls: ±6mm in 2 metres

Floors: for single batten systems: ±3mm in 3 metres

for cradle systems: ±10mm in 3 metres

Court markings 50mm wide straightness: to within ±2mm in 3metres

correct position: ±5mm except the "board", which

is ±2mm in height

Position of playlines Frontwall: 4570mm to underside of playline above finished

floor

Backwall: 2130mm to underside of playline (omitted if backwall is

glass)

Glass-back wall: Minimum height 2130 ±5mm, in which case no

marking is

required. If glass wall higher than this it must be a minimum of 2180mm with a red line marking complying with above.

Cut line: Top edge 1830mm above finished floor level

The "tin" Top edge of "board" 480mm (may be adjustable to

430mm)

above finished floor level

Floor markings Short line: parallel to front and back walls, nearest edge 4260mm from

back wall

Half line: parallel to and equidistant from side walls, running from

back

wall to the Short Line

Service boxes: (see drawing) one on each side of court behind the Short

ine.

Internal dimensions 1600mm square.



Reflectance of walls Average reflectance of front and side walls 60%

The door Should be located in the centre of the back wall and open into the court.

The inside surface should be flush with the adjacent wall surfaces when closed and matching in colour, texture and ball rebound characteristics.

Maximum size 900mm wide and 2130mm high.

Lighting 400 lux at 1000mm above floor level (ESR). 500 lux (WSF

Data Sheet 2: PRODUCT SPECIFICATIONS & DETAILS

ARMOURCOAT Plaster

Colour: White

Thickness: Nominal 12mm

ARMOURCOAT Playlines

Colour: Red

Size: 50mm x 12mm

ARMOURCOAT Tin battens

Colour: Red

Size: 40mm deep x 50mm wide

GLASSWALLS

Overall size: 6400 wide x 2130mm high Thickness: 12mm toughened glass Door size: 760 wide x 2130mm high

Fin size: 300 wide x 610mm high (2 panel type)

300 wide x 2130mm high (4 panel type)

JUNCKERS SylvaSquash Beech Floors

Species: Prime grade beech (Fagus Sylvaticus)
Finished size: 22mm x 129 wide x 3700 long
Hardness: 36N/mm2 (3.6 Hardness Brinell)

Manufacturing tolerance: ±0.2mm Moisture content: 8% ±2%

Blubat batten sizes 31 x 45mm wide (including foam strip)

45 x 45mm wide (including foam strip) 57 x 45mm wide (including foam strip)

Batten centres: 411mm Moisture content (battens) 12-14%

System thicknesses: with 31mm Blubat batten: 53mm

with 45mm Blubat batten: 67mm
with 57mm Blubat batten 79mm
with 16mm cradle/ 22mm batten: 60mm min.
with 16mm cradle/ 36mm plain batten: 74mm min
with 16mm cradle/ 48mm plain batten: 86mm min