



2019



Innov8 Squash Court Panel System: Specification Information



*Guidance information for Architects, Specifiers and
Main Contractors.*



This Specification describes each of the specialist finishes in relation to the Courtcraft INNOV8 squash court package in NBS format. Each element complies in all respects as set out in the World Squash Federation (WSF) specification.

INSTALLATION:

All squash court finishes should be installed by the specialist contractor Courtcraft Ltd, details provided below which are certified by the World Squash Federation (WSF) approved contractor's scheme.

Courtcraft Contact Details: Mr Thomas Smith
Courtcraft Ltd
Logic House
31 Gibfield Business Park
Atherton
Manchester
M46 0SY

Tel: 01942 881 500

Email: squash@courtcraft.co.uk

TOLERANCES: Walls should be constructed absolutely straight and plumb to a tolerance of +/-10mm in 4000mm. Joints should be left flush and not raked out prior to application of the specialist wall coatings.

SUB-FLOOR TOLERANCES: Sub-floors should be levelled in accordance with BS 8204 Pt 1 (1987), Code of Practice for concrete bases and screeds to receive in-situ flooring and levelled to within a tolerance of 3mm under a 3m straightedge. Concrete sub-floors should be power-floated or screeded to receive semi-sprung floor battens without the need for packing. Levelling cradles should be specified where this is not likely or possible, where pre-cast concrete units form the sub-floor, for example (see K21/135).

DIMENSIONS:

The internal finished dimensions of a squash court between the INNOV8 System walls are given below.

Height (at rear): 2130mm + FFL to top of glass wall
Height (at front): 4570mm + FFL to underside of play line
Height (overall): 5640mm from FFL to underside of light fittings

Setting out dimensions:

The following dimensions are based on a typical bank of 2 Squash Courts with 1 fixed centre wall has a clear internal width of each court of 6400 mm and a length of 9750 mm. The Front Wall is 4570 mm high from the finished floor level to the out-of-play line. The Back Wall is 2130 mm from the finished floor level to the out-of-play line. The Side Wall has a sloping edge of 14 degrees. All dimensions above are overall internal court dimension sizes to WSF standards.

The system proposed comprises of the following:

INNOV8 high density board wall system to the front & side walls with a Fixed INNOV8 Centre Wall

To be Installed by Courtcraft Ltd (tel: 01942 881 500)

INNOV8 SYSTEM WALLS FRONT & SIDE WALLS

Note: when 2 fixed INNOV8 courts are combined to create a dual court the centre wall has the same panel construction as the outer walls.

Room dimensions required for a dual fixed INNOV8 Squash Court Setup

The minimum length required including tolerances for the installation of a 2 court bank is 10100 mm and the minimum width including tolerance is 13200 mm.

The construction thickness of INNOV8 Walls when installed are 102 mm.

INNOV8 front and side walls consists of two opposing high density timber panels assembled using a combination of aluminium and steel frame work. Each singular timber panel is 21mm thick, fixed to an aluminium H section framework, with the result that the panels form a sandwich construction with a cavity between both skins giving the overall thickness of 102mm. The aluminium sections and panels are fixed with specialist adhesives and fixing screws to create a wall system that produces a high performance playing surface. The construction process of the timber and assembled wall panels uses specialist adhesives and fixings, ensuring that the panels cannot delaminate away from the main framework or intermediate sections over time.

The panel system walls are erected with 100 x 60 x 3mm steel section supports, inserted within the paneled sandwich sections. These steel inserts anchor the panels to the floor via steel plates, holding the walls vertical. The INNOV8 squash court is strong enough to be erected fully free standing. Side walls are fixed and anchored perpendicularly to the front wall via internal 100x60x3mm box or C-section steel supports. Horizontal 60x60x3mm box steel sections are fitted to the bottom of the side walls and front walls to hold the aggregate filler. The cavity is back filled with a fire dried 1-3mm clay based aggregate during in the installation process.

These 60x60x3 mm steel sections can also be used at the top of the front wall to enclose the wall off. INNOV8 side walls are capped with Aluminum preformed concave sections, 50 mm wide. Each Aluminium section is rebated and is able to receive either netting or a solid head piece. The red markings to the out of play and service lines are applied using red tape.

The high density boards used in INNOV8 walls are pre-coated at their site of manufacture. Once assembled on site, INNOV8 walls are sanded and prepared for the final durable paint coating. The finished surface of the court is hard, flat and visually free of any surface joints.

The INNOV8 panel system courts when installed by Courtcraft comply in all respects with the requirements of the World Squash Federation and has full WSF specification directives.

Weight of the INNOV8 System Walls

Total weight of an INNOV8 system front & two side walls including sand filling is 13346kg, when assembled.

H13 STRUCTURAL GLASS WALLING

TYPE(S) OF STRUCTURAL GLASS ASSEMBLY

H13 SQUASH COURT GLASS-BACK WALLS

Manufactured and supplied by Ellis Pearson & available from:
Courtcraft Ltd (Tel: 01942 881 500) or equivalent, and as approved by the WSF.

Constructed and installed in accordance with Courtcraft Specification and working drawings from 12mm toughened glass, edge-worked and drilled as necessary. Model type four panel freestanding with 300mm wide glass fins.
Manifestation to the lower 610mm of all panels and doors with 3mm wide white lines screen painted on the
Playing side, and as may be required additionally by Building Regulations.
Include all components and aluminium patch fittings, flush ring pull handles and latch set, supporting glass
Fins and aluminium brackets, glazing channels, silicone glazing compound, all screws, bushes, fixing bolts Etc. required to complete the installation.

K21 TIMBER STRIP/ BOARD FINE FLOORING/ LININGS

TYPE(S) OF FLOORING/ LINING

K21/130 BATTENED TIMBER FLOATING FLOOR TO SQUASH COURT

Manufactured by Junckers Ltd. Wheaton Court Commercial Centre, Wheaton Road, Witham, Essex CM8 3UJ (Tel.01376 517512), and approved by the WSF and SRA.

Base: to conform to BS 8204 Pt 1 (1987) and should not deviate more than a 3mm gap under a 3m Straightedge, having a suitable damp proof membrane underneath.



Type: Sylva Squash prime grade beech strip with textured surface, unsealed*, double-width boards 22mm
Thick x 129 wide x 3700 long; tongued and grooved on all edges.
K21/135 Where sub-floors do not conform with BS 8204 Pt1 (1987), substitute Logic Floor Levelling System

For Junckers Blubat battens with integral foam pad, or for Logic cradles & packers and plain Treated softwood battens. Manufactured by Courtcraft Ltd. Unit 31, Gibfield Park Avenue, Gibfield Business Park, Atherton, Manchester M46 0SY (Tel 01942 881500).

Cradle height : 16/ 30mm or 45/ 60mm to suit elevation
Batten thickness: 36/ 48mm to suit elevation
Fixing: Logic cradles to be laid at centres recommended by manufacturer (450/ 600mm); softwood battens to be laid inside cradles at 411 centres and levelled with interlocking nylon packers, by rotating laser as necessary

To tolerance specified in K21/130. Standard minimum floor depth 74mm.

M60 PAINTING/ CLEAR FINISHING

DECORATIVE TYPE(S)

COURT MARKINGS: SQUASH COURTS

In accordance with WSF apply painted 50mm wide court markings to floor. The front wall (the "cut-line") and the side wall out of play lines will be marked using specially formulated tape.

Colour: red

N10 GENERAL FIXTURES/ FURNISHINGS/ EQUIPMENT

THE "TIN" (OR "PLAYBOARD"): SQUASH COURT

Manufactured by Courtcraft Ltd and approved by the WSF; The tins can be supplied as standard height tins or they can be ordered as height adjustable tins for competition play to 480mm or 430mm the tin comprise of two aluminium extruded tin tops each one 3200mm long and profiled in such a way to highlight low played ball shots & is powder coated red for durability & secretly fixed to High Density board panels for the main body of the tin boards the system is then fixed to the front wall with specially formulated aluminium hanging brackets.

Colour of mouldings: top batten, red