Indoor Tennis Centres

Indoor Tennis Centre Guidance

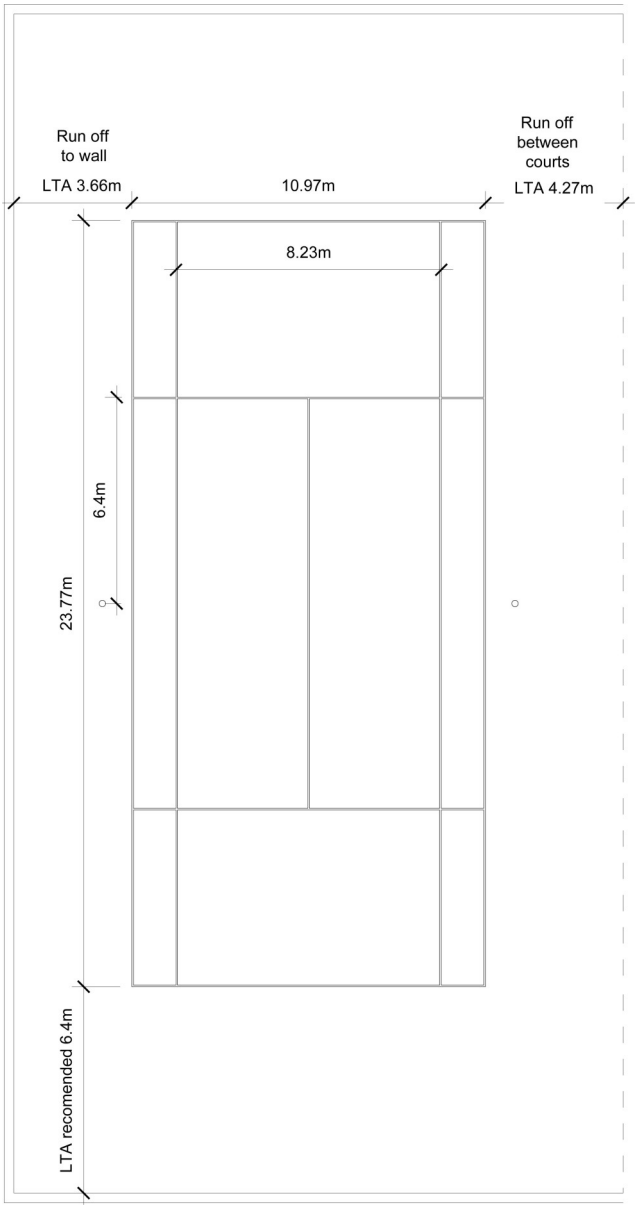
This guidance is based on the LTA Indoor Tennis Structures and is designed to support those developing indoor tennis facilities in Scotland.
www.lta.org.uk/globalassets/venue/support-your-venue/documents/indoor-tennis-structure-guidance.pdf

Court dimensions

23.77m x 10.97m

Runback: 6.40m
Side run to wall: 3.66m
Side run between courts: 4.27m

The singles court is marked within the doubles court as shown.

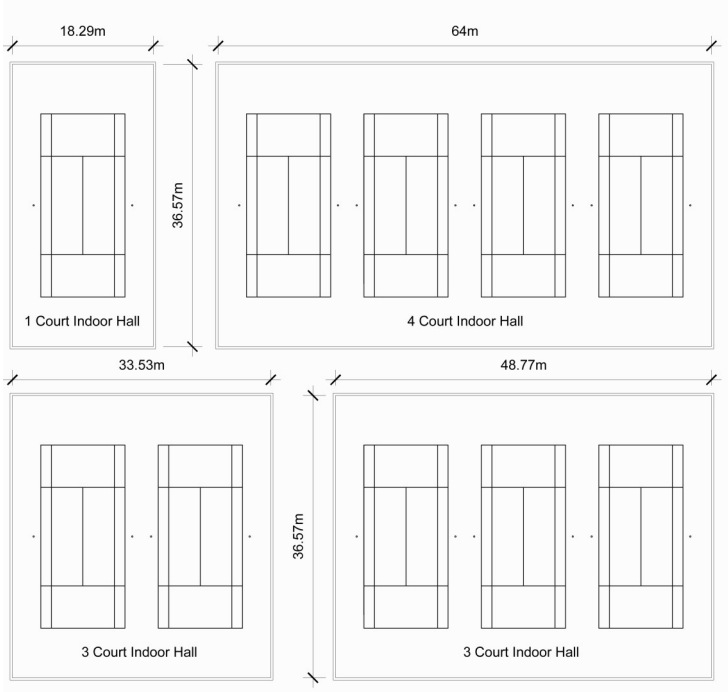


Line markings

Width of lines: 40mm
External dimensions **include** width of lines.

Internal building size

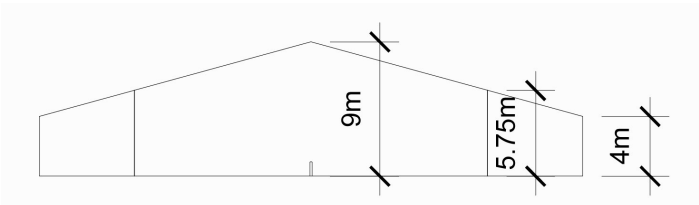
For traditional construction and Fabric framed construction
Total length: 36.57m
Width for one enclosed court: 18.29m
Width for two enclosed courts: 33.53m
Width for three enclosed courts: 48.77m
Width for four enclosed courts: 64.01m



Clear height requirement

Unobstructed minimum height at net line 9.00m
Unobstructed minimum height at base line 5.75m
Unobstructed minimum height at rear of run-back 4.00m

Mono-pitch roof shapes should be avoided.



Indoor Tennis Centres

Playing surfaces

Acrylic

Macadam

See the LTA website for more information on these surfaces.
www.lta.org.uk/venue-management/facilities-advice/

The playing surface must lie in a single level horizontal plain with no gradient. The maximum permitted tolerance in the level of the finished playing surface is a 6mm gap under a 3m straight edge. No movement joints on the court surface of the principal playing area.

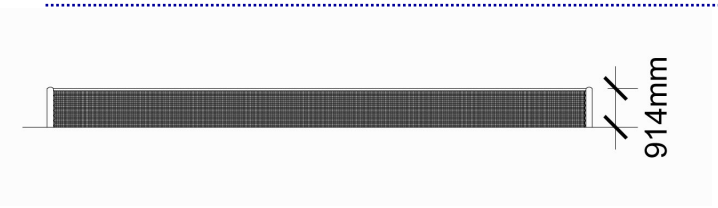
We would recommend that the contractor obtain the written approval of the playing surface installer as to the suitability of the prepared sub-base before laying of the playing surface commences.

Colours

Court Lines: white
Drapes & netting: dark colour to contrast with yellow ball
Court: no specified colour
Ceiling: no specified colour

Net

Width: 12.8m
Height 914mm



Internal Layout

Each internal and external court should be easily accessible without disturbing users on adjacent courts. This can be achieved by the use of separate access doors for each court.

The indoor hall should be positioned so that it does not overshadow any outdoor courts.

Walls

Sports hall walls have to be resistant to the impact of projectiles and bodies. Their detailing must avoid all projections and avoid ledges below 3m. The wall construction and finishes specified should therefore:

- Be capable of withstanding heavy impact with a surface which avoids flaking, dusting or discolouration.
- Be non-abrasive for a minimum height of 3m. Any pointing between block-work or brickwork should be flush.
- Have no recesses or projections such as columns, rainwater pipes, service conduits, switches and power sockets below 3m, and avoid recesses and projections above 3m where possible.
- Avoid ledges which harbour dust and balls

Single colour backdrop drapes are to be provided to the walls behind the baseline of the tennis courts. These should span from ground level to eaves level or to a minimum of 2m to the underside of viewing gallery handrails.

Netting should be used above the curtains to ceiling level.

Court divider netting should be provided, positioned between courts with the ability to be withdrawn if required.

Where glazing is proposed it must be fit for its intended purpose and position relative to the playing area. The effects of glare, shading and shadowing must be considered and avoided.

Roof lights

Roof lights should have a net area not less that 10% of the gross tennis hall floor area when measured on plan. They should be located in the plane of the roof between and not over the court areas.

Ceilings

Ceilings and secondary steelwork should be coloured with the same single matt finish to give a continuous effect.

Consideration should be given to the use of acoustic perforated liner trays or similar systems to improve the overall acoustic performance of the hall.

Storage

A minimum of 10sqm of secure storage should be provided. This should have level access from the indoor and ramped access (if required) to the outdoor courts.

Indoor Tennis Centres

Electrical Services

One double socket should be located behind the run back of each court at 300mm above

Lighting

A total of 15 readings are required on the court. A total of 35 reading are required on the court and safety margins. Illumination standards are to be based on measurements taken after dark at ground level.

Lux levels

Average maintained level of illuminance measured at the playing surface within the court lines
0.7 Uniformity Factor (Minimum/Average)
600 Lux

Average maintained level of illuminance measured at the playing surface within the safety margins
0.6 Uniformity Factor (Minimum/Average)
500 Lux

Lighting Layout

Fittings are to be arranged so that they are not in the centre of the field of view during play; are not within the clear height zone of the court and should be related to the natural lighting. Care should be taken to avoid glare from the installation caused by either the location of fittings and/or the contrast between the source and the surfaces of the hall.

Height of luminaires

Minimum 6.5m
to be located outside the court lines

Minimum Colour Temperature

Minimum 3,600k

Protection

Protection of the fittings must be provided by the application of permanent proprietary guards or louvres in accordance with the manufacturer's recommendations.

Switching

This should be arranged via a central control at reception so that the lighting levels to each court can be individually adjusted.

Reflective Values

The reflectance values of the surface finishes are to be fully co-ordinated into the design and selection of the lighting system.

Heating & Ventilation

Effective regulation must be maintained of both natural and artificial lighting and of the internal environment. Mechanical and electrical systems should meet the requirements of the brief, be suitably concealed without prejudice to their operation and maintenance. They should not interfere with the use of the indoor courts or conflict with the clear height requirements above the courts.

Air temperature

Air temperature should be a minimum of 8 degrees C during occupied periods without differential between courts. During unoccupied periods a frost protection level of 1 degree C is to be maintained.

Air velocity

Air velocity should be in the range of 0.1 to 0.5m/sec.
The air change rate should be:
0.5 changes/hr (winter)
2.0 changes/hr (summer)

Noise rating

The tennis hall should have noise rating NR45 or better.

Endorsed by

These datasheets have been developed in partnership with and are endorsed by:
Tennis Scotland
LTA

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