

COURTTECH
WE MAKE COURTS 

REFERENCES
in over **60**
COUNTRIES





Hasta la Vista

Wroclaw Poland – The Biggest Squash Facility in the World with 32 CT Club Courts and one CT Glass Court.

Perfect Squash Courts: Made in Germany

We believe in science-based German engineering – offering the highest quality squash courts. With the help of our partner, the University of applied science of Rosenheim in Germany, CourtTech has developed a world-class engineered squash court wall system. Our expertise and process is what makes us strong. Driven by university based research, we make the perfect court even better.

Advantages of CT Squash Courts in short:

- » The sand fill walls provide an equal ball bounce
- » The special tongue and groove connection between the boards guarantees a joint less playing surface.
- » CT walls are designed for all humidity levels.
- » Logos of the club can be painted on our walls (templet of the logo must be provided)
- » CourtTech is granting a 10 years warranty
- » All CT elements are certified and approved by the World Squash Federation (WSF).

Best practice & market knowledge

In the leisure market there is a huge variety of “the best” business concepts. We consider various factors when deciding on the right concept. We’ve accumulated 25 years experience in the market. Knowing what’s come before us, we know how to make future projects successful. And every day we learn a little bit more. Our network extends to over 40 countries and includes consultants, elite athletes and specialists in the sports and leisure industry, giving us the credentials, experience and in-depth knowledge to serve you.

“The CourtTech squash courts are the perfect heart for the biggest squash facility in the world.”

Zenon Waniak
Hasta la Vista, Wrocław



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CourtTech Courts in over 60 Countries



Berkshire School Squash Fitness Center, USA



Squash Club Sofia, Bulgaria



INJOY Volmetal, Germany



Hiranandani Chennai, India



Drammen Squash, Norway



Darwin Squash Facility, Australia



Hasta la Vista, Poland



Squash XL, New Zealand



Jeu de Paume et de Racquets, France



Herlev Hjorten Squash, Denmark



Chelsea Piers, USA



Squash Center „LIGA“, Russia



Paradise Villa Clubhouse, Thailand



Campbelltown Leisure Centre, Australia



Squash et Badminton Bordeaux, France



Sports Life Protassov Yar, Ukraine



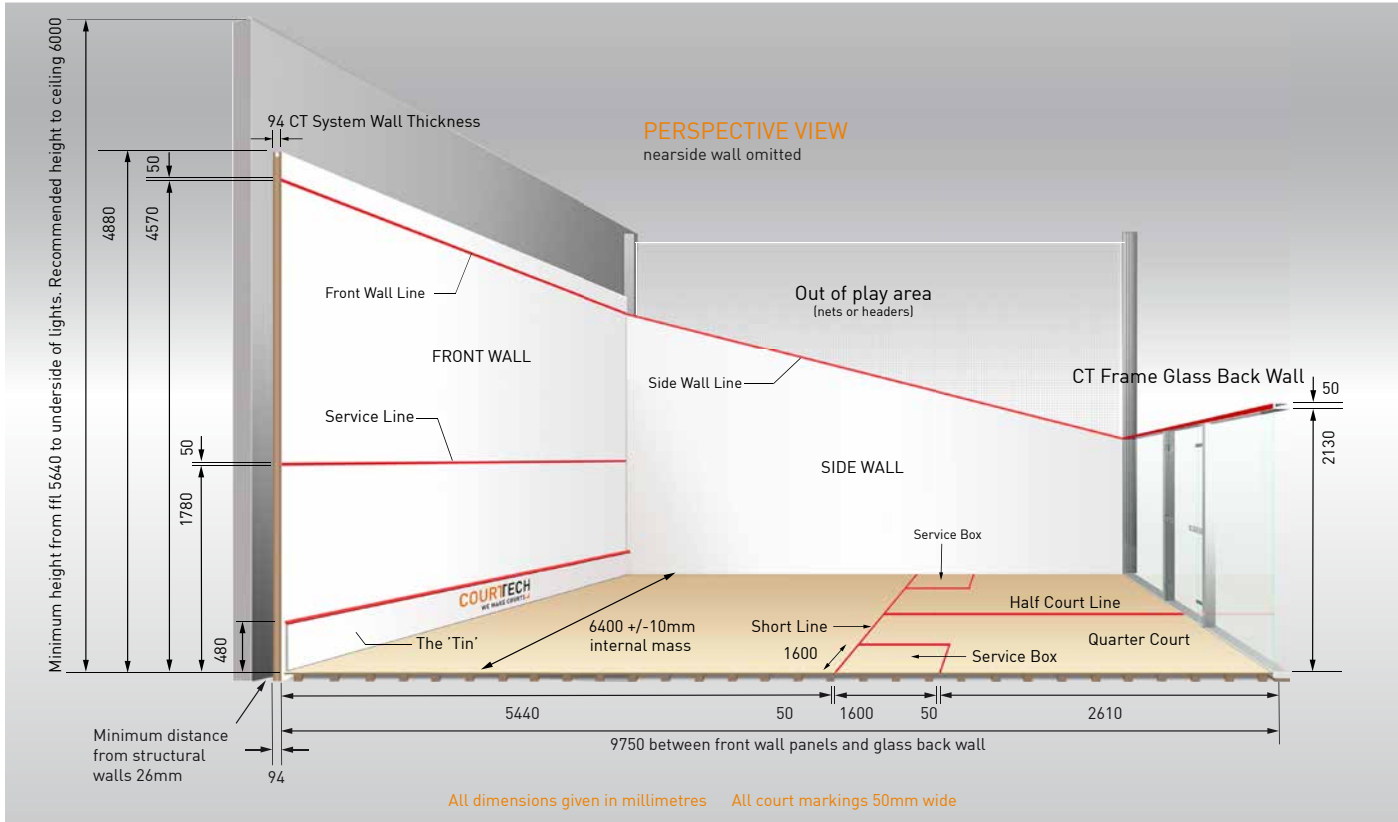
Kent School, USA



Club Sportiv Dinu Pescariu, Romania

Design of Squash Courts

According to the WSF squash court specification, the inner dimensions of the squash court are 6,4 m width and 9,75 m length. Nevertheless the necessary installation dimensions of the squash court differ from those numbers, due to different width or characteristics of the various kind of squash court walls. During the planning of squash courts it is extremely important to define the squash walls, otherwise the courts will not have the necessary dimensions.



Dimensional requirements for courts with CT System Walls

No. of Courts	Type	Length	Width
1	CT System Court	min 10100 mm	min 6640 mm
2	CT System Courts	min 10100 mm	min 13140 mm
3	CT System Courts	min 10100 mm	min 19630 mm
4	CT System Courts	min 10100 mm	min 26130 mm
5	CT System Courts	min 10100 mm	min 32600 mm

Dimensional requirements for courts with CT Half System Walls

No. of Courts	Type	Length	Width
1	CT Half System Court	min 10000 mm	exact 6480 mm
2	CT Half System Courts	min 10000 mm	exact 12980 mm
3	CT Half System Courts	min 10000 mm	exact 19470 mm
4	CT Half System Courts	min 10000 mm	exact 25960 mm
5	CT Half System Courts	min 10000 mm	exact 32460 mm

A few points to consider



Flooring

To comply with WSF requirements, floors should be constructed with light coloured wood to enable the fast-moving ball to be seen in play and have a dense structure such as beech, ash or maple, finished with textured surface for grip. All floors should correspond to the EN norm 14904 in order to guarantee the best playing characteristics. The recommended construction height inclusive the necessary tolerance is 100 mm.



Lighting and ventilation

The minimum lighting level for a standard squash court according to the World Squash Federation Squash Court Specification is minimum 300 Lux (but 500 Lux is recommended) measured at 1 metre above finished floor level. It is important that the lighting is evenly, uniformly and does not vary at any point by more than 15%. There are no set standards for the lighting levels required for TV transmission however 1200 lux is recommended.



Environmental conditions

The WSF recommends that a Squash court and any adjacent spectator areas (including the space for the marker and referee) should be provided with a heating and/or air conditioning system, which is capable of maintaining a temperature of between 10 and 25 degrees Celsius with an ideal range between 15 to 20 degrees. The court and any adjacent spectator areas shall be provided with a ventilation system that provides not less than four complete air changes per hour.



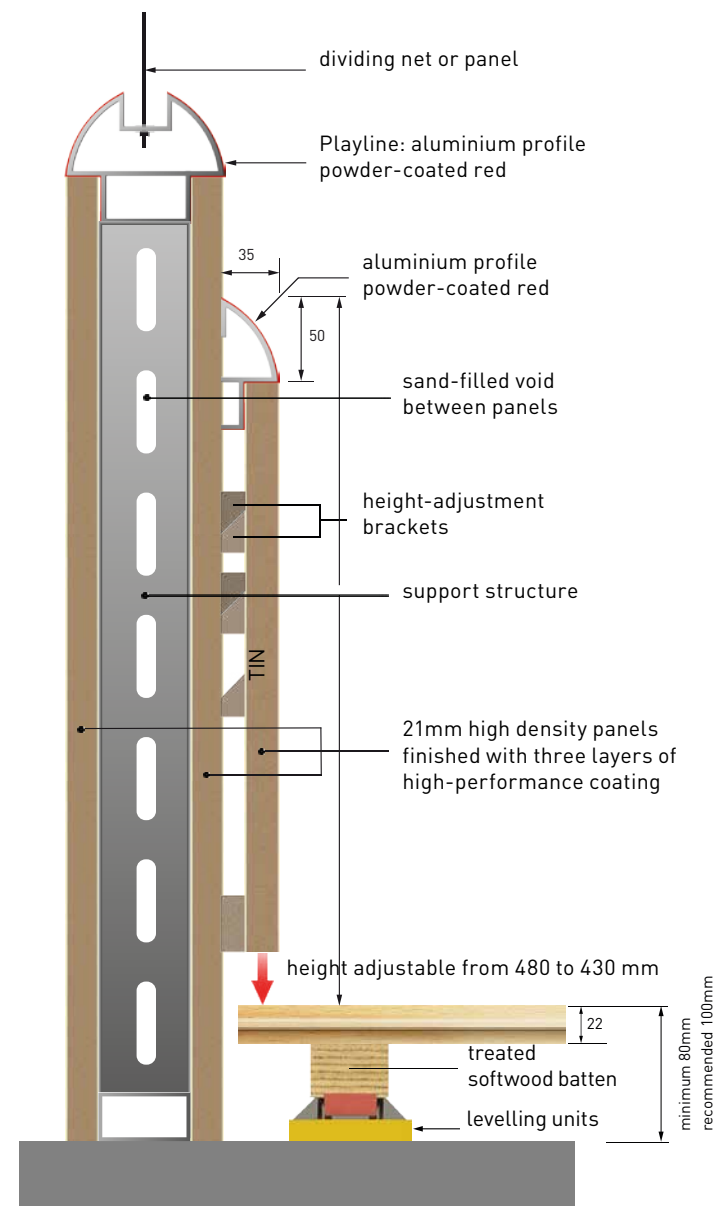
Ceiling

Squash courts do not require special ceilings. It is important to consider that the balls won't be get stuck in any overhead areas. With concrete ceilings it is important to have sound absorbing materials to avoid any disturbance due to an echo. It has to have a simple shape, a matt finish and a light colour, so the players are able to see the ball without difficulties.

CT System Walls

independent from the building structure

The CourtTech System Wall has a total thickness of 94mm, consisting of two 21 mm thick RS special high density boards, attached to steel profiles. The self-supporting wall elements are fixed on steel columns to the floor at two positions. The surface of the finished wall has 3 coats of paint. The System Wall is filled with 2.5 tons of kiln dried sand. The System Wall is hard, flat and free of vertical joints. The out-of-play lines are aluminium profiles and powder coated red – RAL 3001.



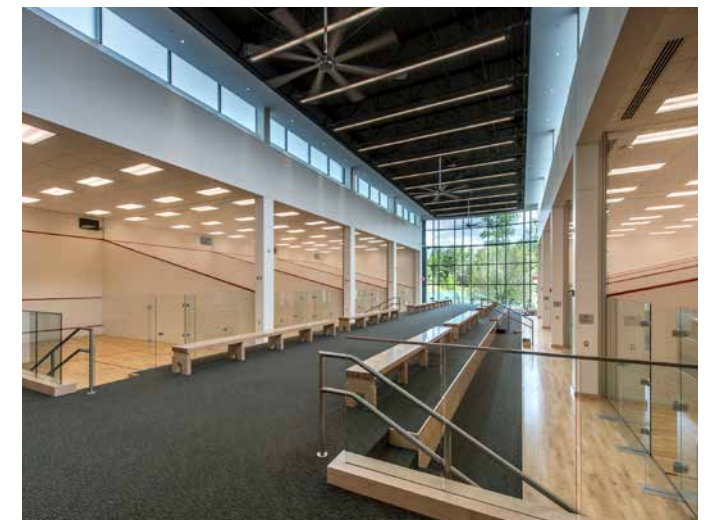
“German engineering ... in my opinion – it’s no secret why CourtTech builds highest quality squash courts”

Sarah Fitz-Gerald

5 x World Squash Champion,
Commonwealth Games Gold Medallist

Which type of CourtTech wall meets your requirements?

CourtTech offers two different types of wall, the CT System Wall and the CT Half System Wall. Of course it is also possible to combine both of these CourtTech wall types in the same court. The 94 mm thick CT System Wall is completely free-standing and no supporting masonry walls are necessary. In principle a CourtTech system walls can be placed in the middle of a large hall without any connections to the building whatsoever.



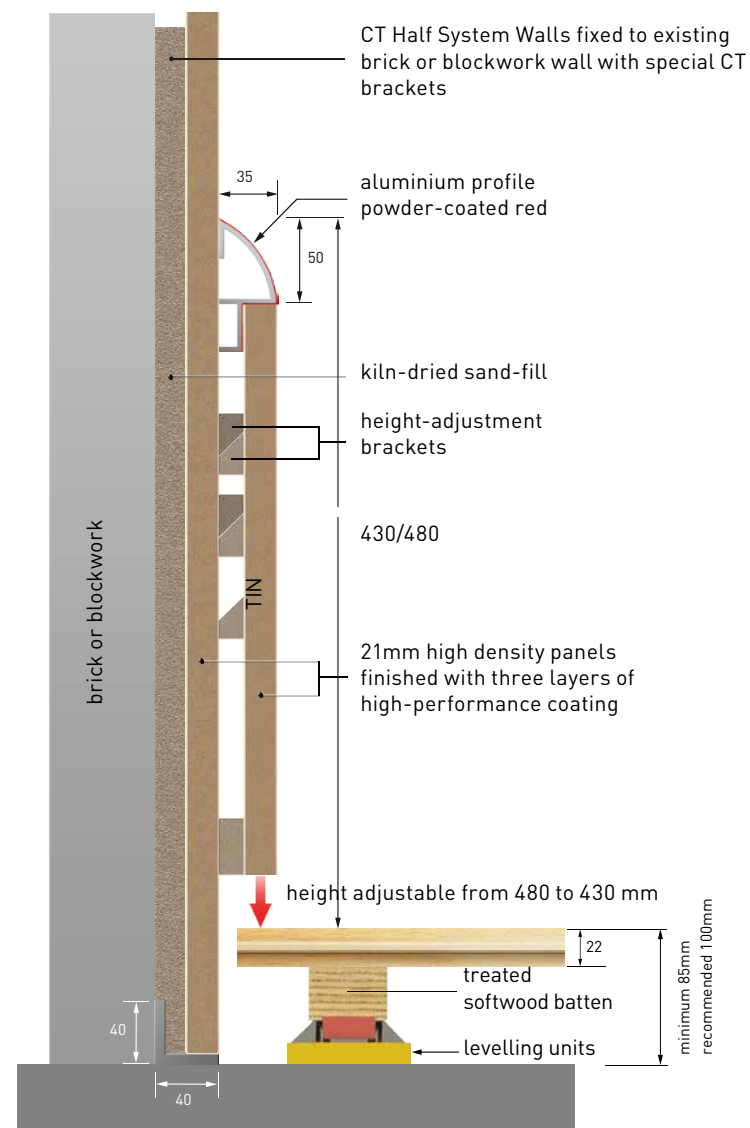
CT Half System Walls attached to building walls

The CourtTech Half System Wall has a total thickness of 40mm. The 21mm thick RS special high density board is mounted onto steel profiles. The CourtTech Half System Wall is filled with 1.2 tons of kiln dried sand. The surface of the finished wall is coated 3 times and is flat and free of joints. The out-of-play lines are aluminium profiles and red powder coated – RAL 3001.

“The courts, which we are proud to boast 10 of, play as well or better than those at comparable schools’ facilities”

AJ Kohlhepp

Sheffield, MA – Berkshire School



The 40 mm thick CT Half System Wall is made of the same material as the CT System Wall, however it is fixed to existing masonry or concrete walls. It is very important to clarify whether the existing masonry wall will be suitable for CT Half System Walls. Internal dimensions between structural walls need to be carefully considered with this type of court.



Before start of installation



Fixing of Rails

The CourtTech panels, specially designed for the squash court, are either directly attached and screwed together on the existing walls or with the help of a metal rail system. The gap between the CourtTech panels and the old squash wall is filled with sand.

CT Half system Walls are the perfect system for the renovation of existing squash courts.

CourtTech grants a 10 years warranty on the different kind of renovations.



Before final coating

CT Glass Walls

for Clubs and Pro's



Which is the best glass back wall for my requirements?

For player-safety the glass back wall is the most important component of a squash court. CourtTech offers glass back wall with either frames or glass fins. Basically frame glass back walls are the most popular solution because they require less installation space and provide stable construction. The only reason for a fin glass back wall is so that the spectator areas behind the court have a less obstructed view.

CT Fin Glass Back Wall

The CT Fin Glass Back Wall can be considered as “traditional” version. The disadvantage of this system is the 300mm glass fins need a larger installation area compared with the framed glass back wall. The glass panels are supported by glass fins, 300mm long, in a 90 degree angle. The glass door is mounted laterally with hinges. The door opens to the inside of the court. The risk of glass breakage is higher, compared with the framed glass back wall. The advantage of this system is that spectators in the gallery have a clear view. The court entrance width is 914mm (barrier free access). The glass is 12mm toughened safety glass. The glass wall consists of two panels and one glass door with 3mm white ceramic silk screened lines bonded into the glass at 25mm intervals and 620mm high.

CT Framed Glass Back Wall

The CT Framed Glass Back Wall is the most common glass back wall. This version is recommended if there is no plan for any public gallery behind the court. Beside the smaller installation area, this version has the advantage that the squash court is designed as a closed unit within the facility. The CT Framed Glass Back Wall offers a large viewing area to the audience, using only two panels without other additional attachments or pillars hindering the view. The framed glass back wall is maintenance-free due to fewer connection pieces and components. The glass is 12mm toughened safety glass. The glass wall consists of two panels and one glass door with 3mm white ceramic silk screened lines bonded into the glass at 25mm intervals and 620mm high (optional). The clear entrance width is 914mm (barrier free access) The glass panels are supported by an aluminium frame. The glass door is mounted laterally with hinges. The door opens to the inside of the court.



CT Pro Squash Floor

by Junckers – special designed for squash



Test According to EN 14904:A4

	Requirements	Results
Shock absorption	$\geq 55 < 75\%$	67 %
Vertical deformation	$\geq 2.3 < 5.0\text{mm}$	3.0 mm
Ball bounce	$\geq 90\%$	93 %
Friction	$\geq 80 \leq 110$	~ 85
Rolling load	$\geq 1500\text{N}$	3000 N
Point load	None	5500N – 550 kgs

The CT Pro Squash Floor is specially designed by CourtTech and Junckers. The floor is exclusively available with CourtTech. It was specially developed to fulfill the requirements for squash professionals. The CT Pro Squash Floor is 22mm thick consisting of double-width boards, which are nailed on an elastic subfloor of one layer of battens. As a result, the floor system can be considered as elastic sports flooring with high impact absorbency and elasticity, suitable for mul-

ti-purpose sports halls as well as for squash. The entirely tongued floor offers excellent impact absorption, suspension and ball reaction. The impact energy is absorbed and this helps to protect the health and fitness of the customers by preventing physical strain to knees, ankles and the lower back. The construction height is 100mm. The sports floor system fully conforms to the European Standard EN 14904:A4

CT Leisure Court – a cost effective solution

The CT LEISURE Court is the perfect choice for customers who are looking for a cost-effective solution, but do not have to comply with professional world class requirements.

The CT LEISURE Court is quick and easy to install. Sand filled CT Walls provide a perfect ball bounce. The wall construction absorbs impact and vibration. The playing surface is completely free of joints. The tongue and groove connection between the panels guarantees durability and is suitable for all climate conditions and humidity levels.

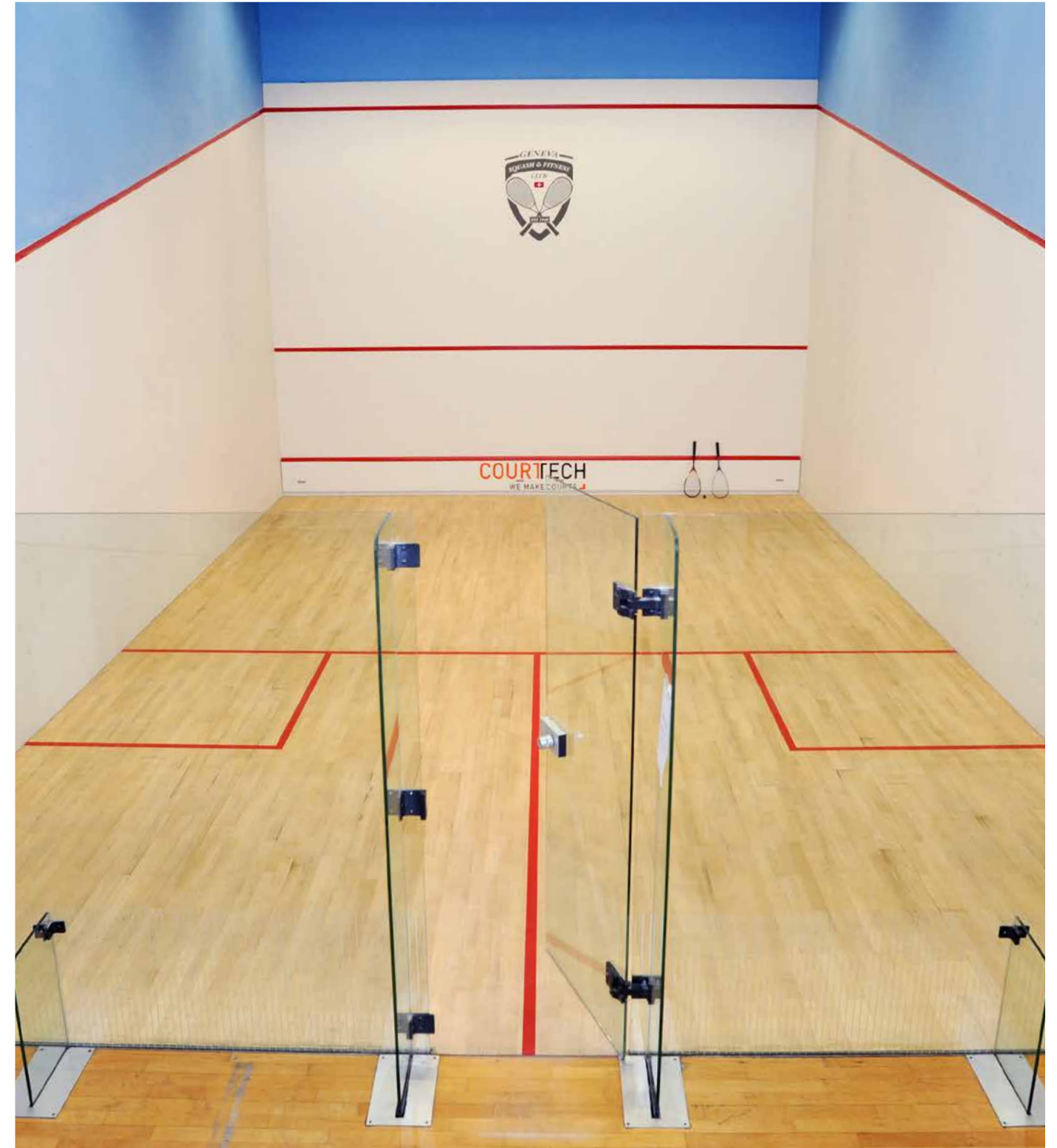
CourtTech Walls are available in a vast range of colours to suit your choice. We recommend the use of pastel colour to give your courts a welcoming appearance and to ensure ball visibility.

Integration of sponsors or club logos can be done easily. The colour contrast between the black ball and any logos has to be taken into account. The logo is painted directly on the wall in the colours of your choice. All we need for the logo is the pattern/design/details.

“I chose CourtTech because of the expectation of low maintenance.”

PJ Patel

Newtown, PA – Private Residence



CT Club Court – the standard for all demands

The CT CLUB Court is the classic squash court model, enjoyed by athletes in a great number of countries around the globe. The CT CLUB court fulfils all daily requirements of a squash court. The 10 year guarantee ensures long-term investment protection.

The CT CLUB Court provides complete acoustic sound insulation: CT System Walls prevent vibration transmission to other parts of the building. This is an important consideration in hotels, offices and residential buildings where squash courts may be located in a central area. The fully sprung flooring provides excellent shock absorption, suspension comfort and ball response. It absorbs impact, safeguarding the health and fitness of your customers by helping to prevent damage to knees, ankles and to the lower back.

All elements of the CT CLUB Courts are approved and certified by the WSF.

In several countries the CT Walls are considered as Mobile Economical Goods, enjoying various tax advantages.

“Guest are always telling me our courts are the best squash courts they have ever played on.”

Mike Monen

Chattanooga, TN, Scenic City Squash



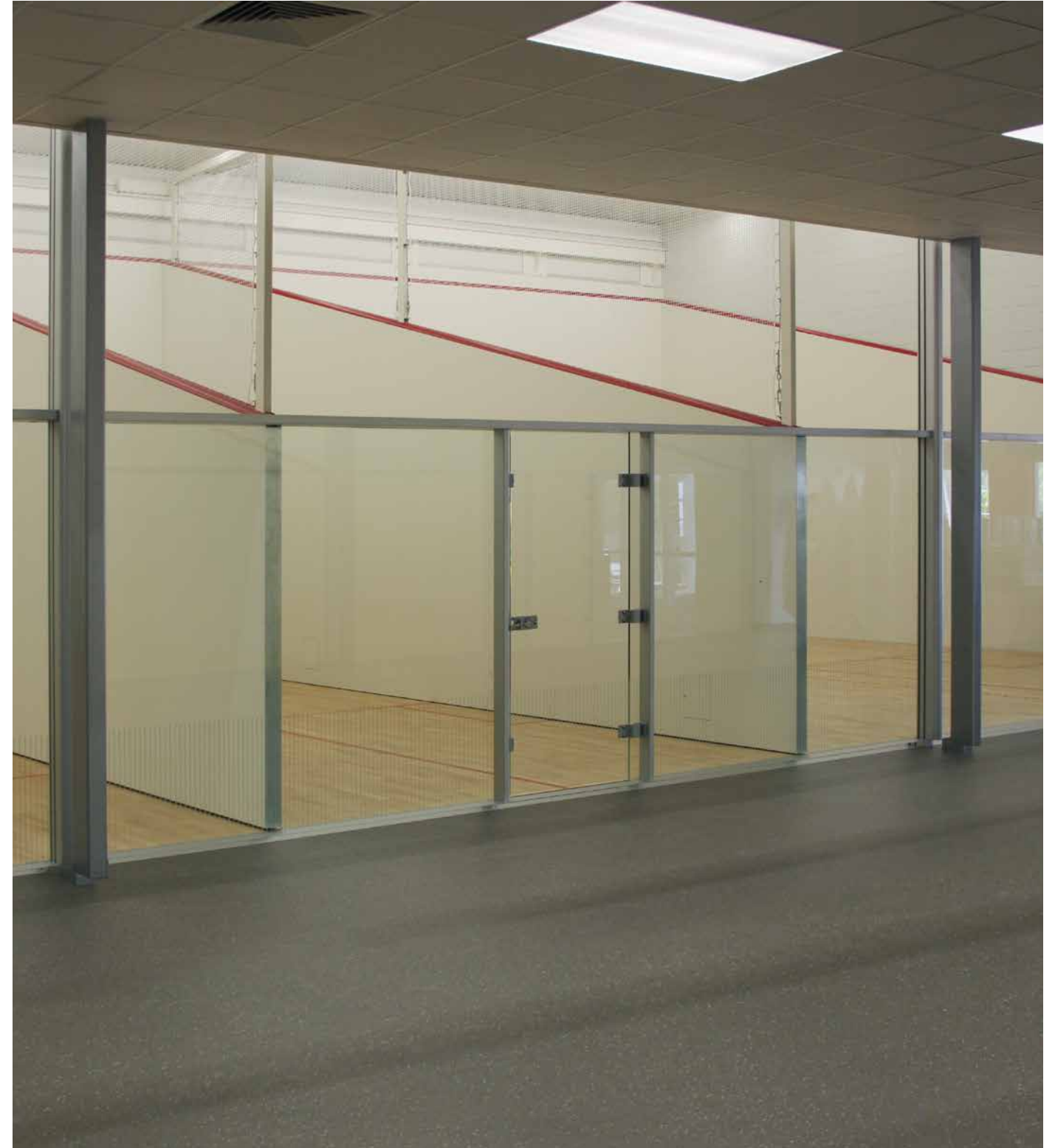
CT Flexi Court – for Double Squash and more

The CT FLEXI Court is not only just a squash court but a multipurpose sport hall for every type of indoor sport. Within a few minutes one person can easily move the movable CT System Side Walls. With this system two, three, four or five courts in a row can be transformed into different sized sport halls to be used for activities such as indoor football, basketball, badminton, paddle tennis, dance and aerobics. CT FLEXI Courts optimise the space with a high return of investment than single-use squash courts.

The CT FLEXI Court is specially designed for doubles squash. The WSF squash court specification gives the doubles squash court dimensions as 7620mm. For WSF recognised world and regional events and Commonwealth Games, the width of the court between playing surfaces may be increased to 8420mm. With the CT FLEXI Court you can play both types of doubles squash. The gap between the CT Movable Side Wall to the glass back wall is less than 8 mm in compliance with the WSF specifications. The CT Walls, the CT Movable Side Wall, the CT Glass Walls and the CT Pro Squash Floor are all approved and certified by the WSF.

All elements of the CT FLEXI Courts are approved and certified by the WSF.

In several countries the CT Walls are considered as Mobile Economical Goods, enjoying various tax advantages.



CT Glass Court – the perfect stage for Squash



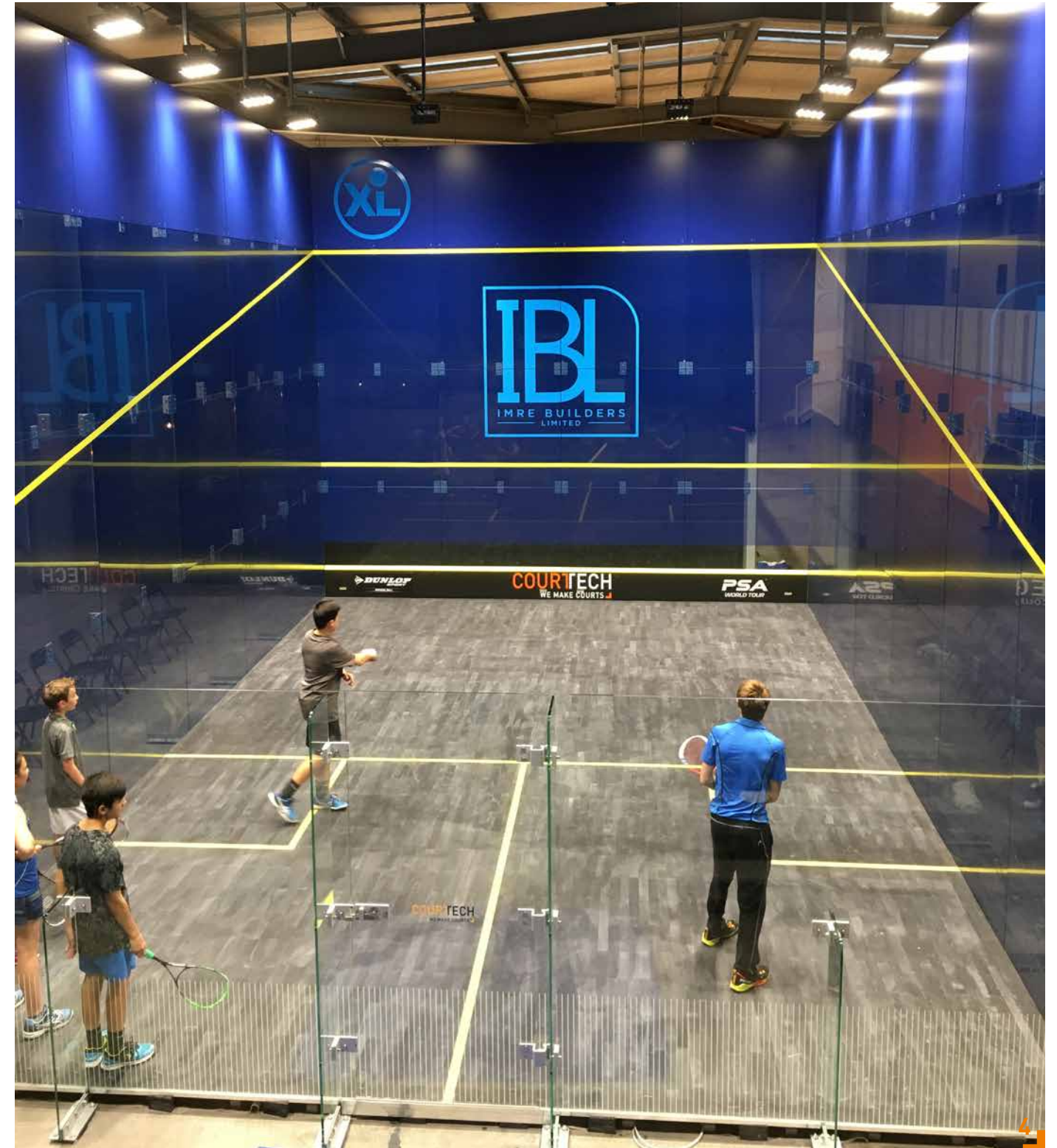
The CT GLASS Court is the perfect showpiece for professional squash. One of our main focuses during the development of this brand new court was to create an unrivalled atmosphere for the biggest events in world squash. Court-Tech has added new features which enable easier installation and dismantling.

The CT GLASS Court is available in different versions – as a three or four sided glass court and as fixed or demountable versions. We are pleased to develop the perfect glass court, corresponding to your requirements and special wishes.

For the demountable version, we use a modular sport floor which consists of prefabricated modules for quick and secure handling. The floor is unsealed. For better visibility of white squash balls, a dark smoked oak is used instead of European beech.

Revolutionary LED Lighting is supplied with the CT Glass court. This creates a much whiter and brighter light. It can also be supplied in variously coloured light shows. The LED lighting can be instantly turned on and off, enabling promoters to experiment with lighting effects before and after matches. LED lighting substantially decreases electricity consumption and ensures functionality in the event of a power failure.

- (1) Mauritius
- (2) Reunion, FR
- (3) Hasta la Vista, PL
- (4) Squash XL, NZ



Renovation solutions for all type of courts

CourtTech offers long-lasting renovations for all different kind of squash courts. No matter if it concerns plastered courts where the plaster comes off, of sand filled courts where wood chips detach from the chipboard, or panel courts where the panels got bent due to high air humidity or other reasons. CourtTech has optimal solutions.



Glass Front wall renovation



Panel Courts before and after renovation



Sand filled courts before and after renovation



Plaster Courts before and after renovation

“We recently refurbished our almost 40 year old center with six courts. We put CourtTech on this job and the result was amazing. Not only because of their practical skills, but also their innovative ideas to make the courts better than ever.”

Jørn-Arne Jørgensen
Sargene Squash Oslo, Norway

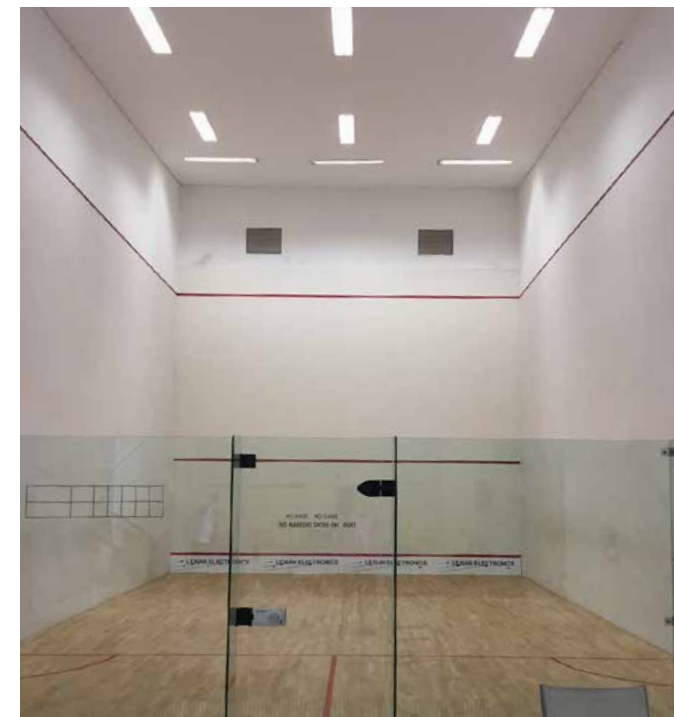
A 3D perspective diagram of a tennis court layout. The court is shown with its various lines and dimensions. The front wall is on the left, and the back wall is on the right. The side wall is on the right. The court floor is light brown, and the walls are grey. The diagram includes the following labels and dimensions:

- Front Wall Line**: The line defining the front wall.
- FRONT WALL**: The front wall itself.
- Service Line**: The line defining the service area.
- Tin**: The area between the service line and the front wall.
- Side Wall Outline**: The outline of the side wall.
- SIDE WALL**: The side wall itself.
- Short Line**: The line defining the short service court.
- Half Court Line**: The line defining the half court.
- Service Box**: The area between the short line and the service line.
- door**: A door in the back wall.
- BACK WALL**: The back wall itself.

Dimensions:

- Front Wall Line**: 6096 (total), 2464 (service line to front wall), 381 (service line to tin), 50 (tin to front wall).
- Side Wall Outline**: 381486 (total), 38 (tin to side wall), 4572 (service line to side wall), 2134 (short line to side wall).
- Short Line**: 9119 (total), 13716 (between playing surfaces), 25 (tin to short line), 1372 (service line to short line), 25 (tin to service line), 3175 (tin to short line).
- Half Court Line**: 1372 (total), 25 (tin to half court line), 2400 (service line to half court line), 25 (tin to service line), 7620 (between playing surfaces), 1372 (tin to half court line), 25 (tin to service line), 2400 (service line to half court line), 25 (tin to service line).

More and more, we are seeing public commercial clubs, high schools, and universities build hardball doubles courts in their facilities. The sport is enjoyed by all ages, but is most popular amongst the 40+ crowd.



Todd R. Iliff

The secrets of the Squash-Business

Successful Clubs all over the world have shown us the most important factors for the financial success of squash/leisure centers in the 21st. century! Squash facilities are in competition with other sports. For the majority of people in the sports industry, the image factors are the deciding factors. A friendly place is always a successful place. Due to the different cultural influences, a general concept for a successful facility does not exist. However, the correct planning of the facility is the key of success.



Following few points to consider:

Multifunctional Center are the standard nowadays. The main advantages are cost efficiency and synergistic effects. As every sport has it's own character. With planing it's important to keep that in mind, as they have to complement each other to avoid a bad atmosphere because of rivalry and antipathy between the athletes of different sports.

Typical squash players are

- » more often older (28 – 48 years)
- » mainly male (75%)
- » with higher education level and higher household income
- » Squash players are very social they talk always after the match



Construction

The base area of the squash court is 64 m². Calculating the necessary infrastructure, such as changing rooms, bars, toilet and office, you have to calculate with a space requirement of 100 to 120 m². This means that for a pure squash facility you need for 6 courts a building with approximately 700 m².

Location

Just like many other enterprises, the location is an important factor. For commercial squash facilities it is not necessary to be in a central location. Rather, it is important to have a good access to roads and public transport. Normally squash players are willing to drive approximately 15 minutes to the facility.

Booking rates

We have worldwide two systems for the booking of squash courts.

Pay and play: The players book the court in advance and pay before or after the play. There is no basic charge or monthly

membership fee. That is the main system used in Europe.

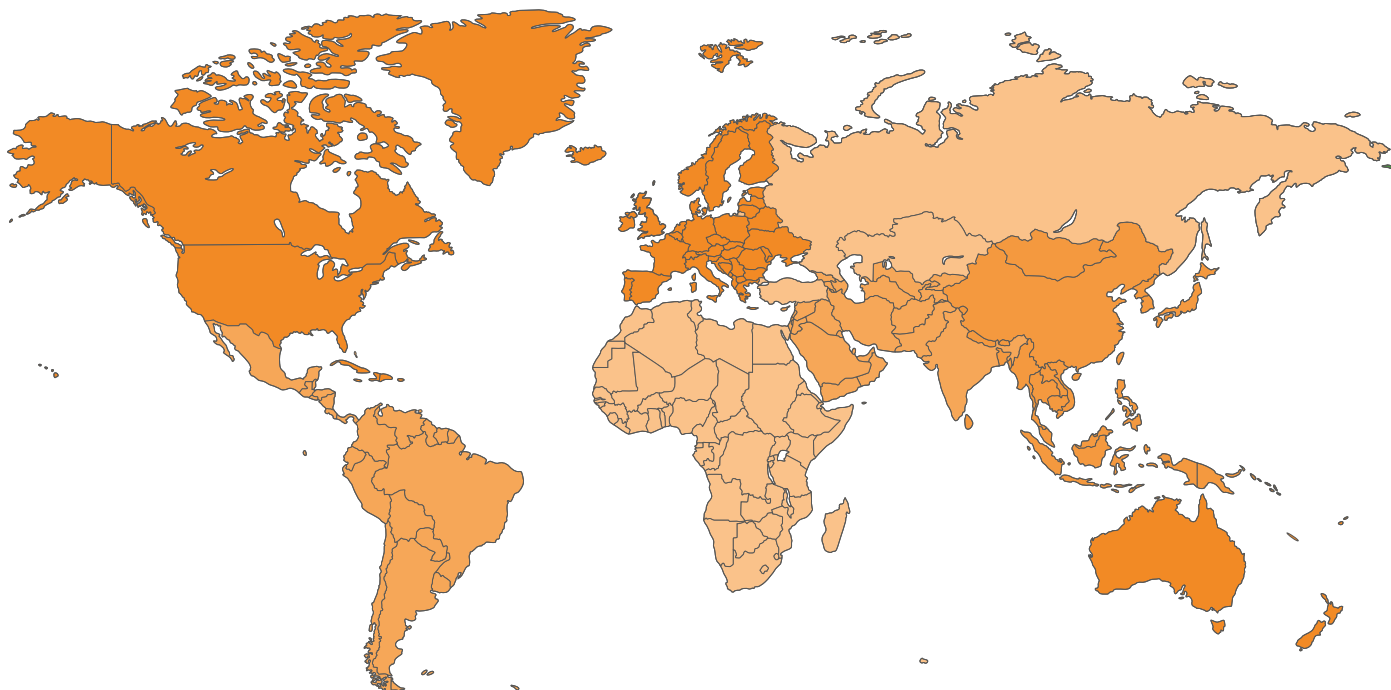
Membership: A monthly membership is sold and the players have the possibility to play squash as often as they want.

Both systems have their advantages. The most important advantages at the membership system are:

- » Costing certainty through the fixed number of members. Normally the membership fee is debited beginning of each month or quarterly.
- » Lower number of squash players necessary, compared with pay and play system. At the membership system normally 50 players/members are needed per squash court. At the pay and play system 150 different customers are needed to reach the break even point.

Beside those factors there is a number of other factors which have to be considered during the planning of a squash facility. CourtTech provides you individual advice and assistant.

CourtTech around the world



North America & Caribbean Latinamerica Europe Africa & Near East Middle East Asia Oceania



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