

Consists of the ASB System40 side walls, the ASB System40 front wall and the ASB GlassBack Wall (Pro or Free-Standing). The construction thickness when installed is 40 mm. Walls are made of high density boards, 18 mm thick, fixed to existing building walls by special screws, keeping the cavity of 22 mm. For two or more courts in a row it is possible to install an ASB System100 side wall in between as a common wall for two courts.

The cavity between the system wall and the existing building wall is filled with fire-dried sand, granulation 1-3 mm. The main function of the fire-dried sand is to absorb ball impact's energy, to guarantee and secure the ball's correct and consistent rebound. In special cases the fire-dried sand can be substituted by a lightweight ceramic aggregate.

Prior to leaving the factory the wall panels are pre coated with a special ASB coating. One further coat of primer and the final coating are applied on site. The surface of the court is hard, flat and free of joints, providing the necessary grip for the squash balls. The top edge of the side wall is covered with an aluminum out of play line profile.



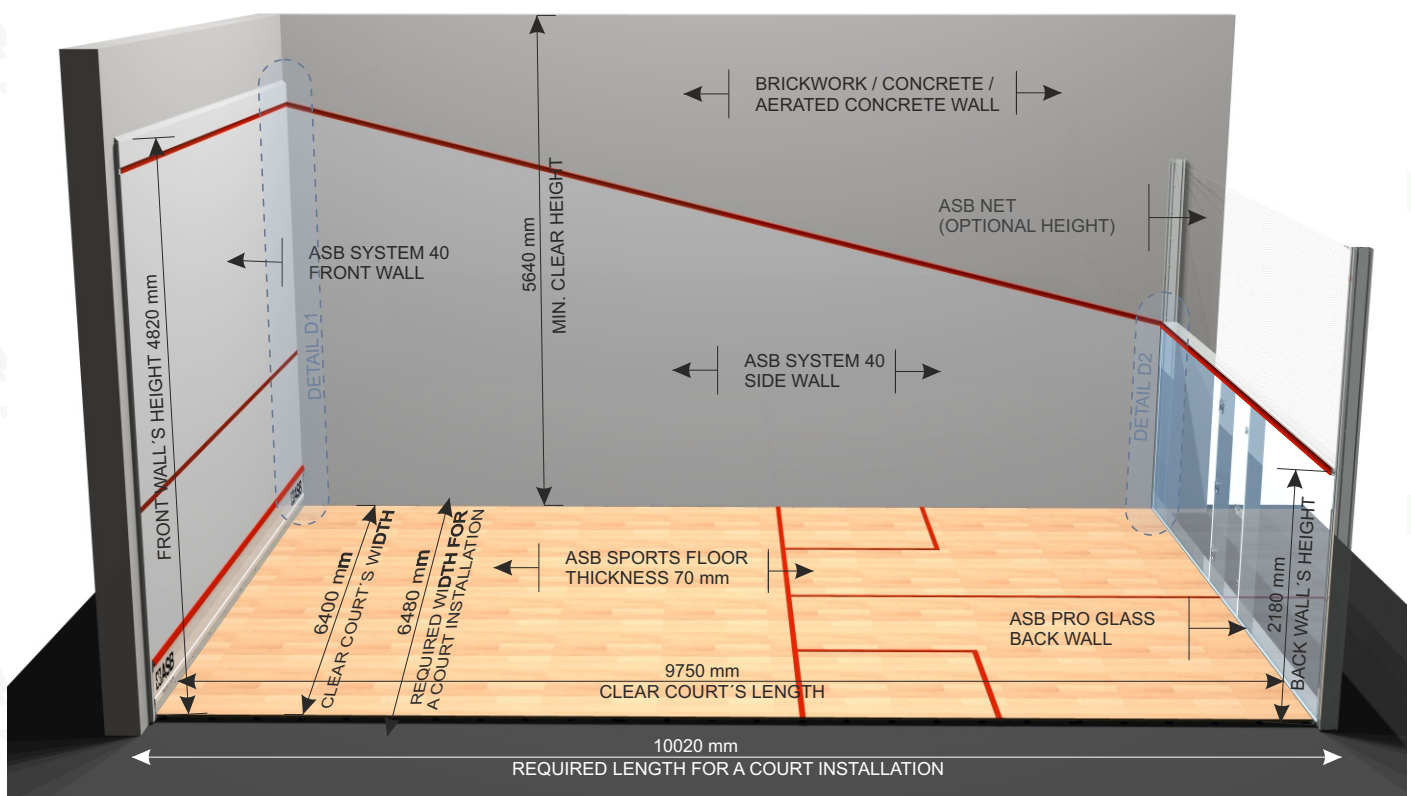
Finished system 40 court front view

The ASB System40 front wall

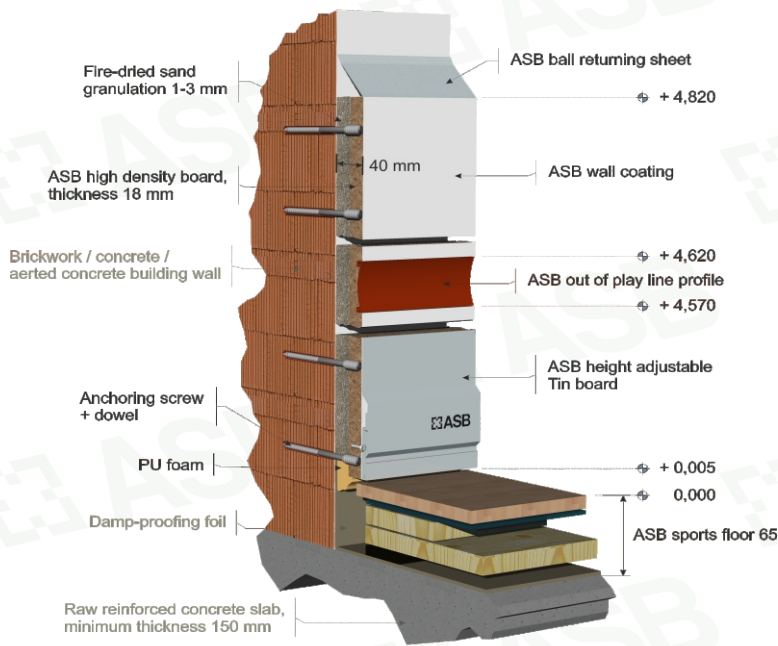
- consists of only 3 high density boards
- the total weight after filling with the fire-dried sand is **1,9 t**

The ASB System40 side wall

- consists of only 4 high density boards
- the total weight after filling with the fire-dried sand is **1,8 t**



Side axonometric view



DETAIL D1 – ASB Front wall, system 40

ASB MAIN ADVANTAGES:

- ASB is capable to level out differences in building walls, which ensures a completely straight wall and thus, the best playing characteristics
- The cavity between a building wall and an ASB panel is completely filled with a fire-dried sand – this means no hollow spots, the entire wall becomes very solid and the rebound is even and consistent, no matter where the ball hits the wall
- The ASB panels are 18 mm thick – ball gets closer to the fire-dried sand, therefore, the wall becomes harder, which leads to better playing characteristics
- Squash court wall's surface finish is smooth, solid and without joints or gaps
- Squash court walls cannot be harmed by static cracks
- ASB System40 panels enable easy and fast renovation of old plaster courts
- Simple and quick installation
- Noise reduction

For the installation of ASB System40 panels the building walls have to meet few conditions, such as being able to transfer an imposed load of **0,6 kN/sqm**. The brickwork must be flush-jointed.

Required thicknesses of the building walls:

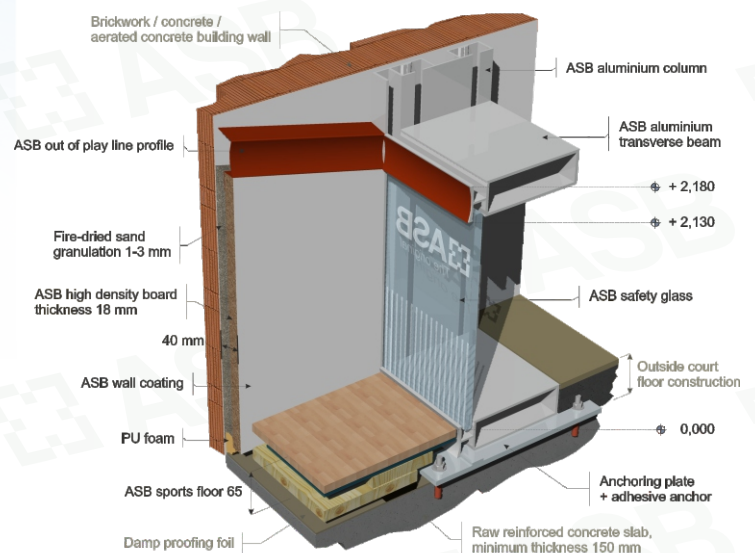
- 200 mm – a concrete wall, concrete B15
- 240 mm – an aerated concrete wall
- 300 mm – a brick wall

Brickwork required densities:

- 1800 kg/m³ – air brick filled with concrete B15
- 1000 kg/m³ – high cavity air brick
- 800 kg/m³ – light air brick or solid sand-lime brick

Building preparation requirements:

- Minimal bearing capacity for a ceiling between storeys – **500 kg/m²**
- Minimal thickness of the base floor concrete slab – **150 mm** (minimal suggested reinforcement – steel net 150 × 150 × 6 mm)
- An insulation against humidity has to be ensured (a damp-proofing foil etc.)
- what has to be finished before court installation:
 - all wet processes
 - integration of a ventilation, a wiring and court lighting
 - marking of engineering distributions, painting and plastering of surrounding surfaces



DETAIL D2 – ASB Side wall, system 40