SEATING GUIDELINES For classes 1.0-1.5



Class 1.0 and 1.5 athletes generally:

- have limited ability to:
 - lean forward and return to upright without arm support
 - sustain the weight of the ball without leaning their upper back over the backrest
 - maintain balance in reaction to minimal contact
- tend to lose their balance when braking or pivoting hard
- are at risk of developing pressure sores

STEP BY STEP



SEAT WIDTH

Ideal seat width can be found by trying different chairs or measuring sitting width.

There should be minimal space between the athlete and the side guards. Allow extra space if the athlete develops pressure sores at the sides of the hips.

SEAT DEPTH

Ideal seat depth can be found by trying different chairs or measuring from the back of the pelvis to 2" (5 cm) behind the knee.

Proper seating will allow the athlete to:

- move the trunk forward to lean into the first push using neck flexors
- move the shoulders back over backrest when handling the ball, braking, or pivoting hard
- start their push comfortably at 12 o'clock
- pick up a ball against the rear wheels
- prevent pressure sores

3 CUSHION

Several class 1.0 and 1.5 athletes can use a regular 2" (5 cm) foam cushion.

TIP

Some athletes may need a therapeutic cushion to help prevent pressure sores.

WHEEL SIZE

Recommended 24" (540mm) for women and 25" (559mm) for men.

TIP Smaller wheels make acceleration easier; larger wheels offer a higher top speed and can be a better anatomical fit for some players.

5 CAMBER

(angle of rear wheels in relation to the ground) Recommended 16° for class 1.0 and 1.5 athletes.

A wider base makes the wheelchair more responsive; a narrower base can fit into tighter spaces.







FOOT PLATE

The foot plate should be high enough to sustain the weight of the lower legs, yet low enough to not raise the thighs off the seat.

Ankles should be positioned directly under knees.

If the athlete has very flexible ankles or tends to have spasms, the balls of the feet should be positioned higher than the heels.

BACKREST

- The backrest should be angled back slightly (~ 1" or 2.5cm as measured from the top).
- It should be loosened to allow the trunk to sit between the posts.
- It should not be higher than 1" (2.5 cm) below the lowest point of the shoulder blades to avoid restricting arm movement.
- It should not be angled so far back that the athlete cannot lean forward into the pushing action.

The backrest serves a critical function for class 1.0 and 1.5 athletes.

TIP

STRAPPING

- Feet may be strapped to the footrests.
- Knees should be kept together and secured with an over the knee strap.
- Pelvis should be secured to the chair using a ratchet strap positioned as near to the hips as possible.

An abdominal strap will often be useful for class 1.0 athletes.

P Athletes who have significant spinal deformities may not be able to use an abdominal strap.

More aggressive COG

ANTI-TIP CASTERS 11 FRAME LENGTH Class 1.0 and 1.5 athletes with 1 or 2 back Longer wheelchair frame Shorter wheelchair frame wheels will benefit from additional stability when leaning back over their backrest to lighter wheelchair allows athlete to shoot, pass, or pressure a shooting opponent. keep defenders can pivot within a The back wheels should be low enough to farther away while tighter space avoid rocking back and forth when leaning shooting or passing forward and back. They should be high enough to prevent the rear wheels from spinning. **13** SIDE TO SIDE ASYMMETRY **14** CENTER OF GRAVITY Several class 1.0 and 1.5 athletes are asymmetric Class 1.0 and 1.5 athletes typically benefit at rest or while pushing and pivoting. This may be from a conservative COG (i.e. the weight of due to knee or hip contractures (lack of mobility), the player is positioned closer to the front or pelvic asymmetry (one hip higher than the than the rear). other). Possible solutions: Less aggressive COG Knee contracture: shorten seat depth more stability when more speed Hip contracture: lower one knee shooting and leaning Pelvic asymmetry: extra support under the ٠ more maneuverability back lower hip, typically with a firm foam wedge Every athlete is different, and finding the right chair fit can require a lot of trial and error. Don't get discouraged if something doesn't work right away, get creative finding a solution!

Seating of athletes should follow the Wheelchair Basketball Canada Rule of Two Guidelines. For more information, visit wheelchairbasketball.ca/the-sport/safe-sport

