



Velosolutions

PUMPTRACK STANDARDS





At Velosolutions, we are passionate about making pump track racing more accessible and enjoyable for everyone. To support this vision, we are publishing our official pump track design and construction guidelines.

Velosolutions is the founder and organiser of the official **Velosolutions UCI Pump Track World Championships**. By publishing these guidelines, we aim to promote safe and fun pump track racing around the world - bringing more fast riders to the World Championships.

These guidelines are **not** intended to restrict creativity - quite the opposite. We believe every builder should have the freedom to bring their own ideas to life. However, by following these recommendations, we can help raise the overall quality of pump tracks worldwide, making them safer, more fun, and more durable for riders of all levels.

Velosolutions sets these guidelines as a **minimum standard** for its pump tracks. **Only Velosolutions Pump Tracks that meet these minimum standards are eligible to host qualifying events for the Velosolutions UCI Pump Track World Championships.**

We strongly encourage applying these standards to all racing events in order to maintain the safety of the racing community.

That said, meeting the parameters outlined below does not guarantee the functionality and safety of a pump track. This depends heavily on the experience and workmanship of the shapers who carry out the construction.

These standards may not apply to beginner-specific tracks or tracks built for adaptive use.

DESIGN GUIDELINES

Important: When designing race pump tracks, keep in mind that they are generally used by all skill levels. Therefore, Velosolutions designs all tracks to be beginner-friendly, while remaining exciting and challenging for experts.

TRACK WIDTH:

- ✓ Min. 2m (Velosolutions Standard).

TURN HEIGHT:

- ✓ Must be consistent from entrance to exit.
- ✓ Turns with a direction change of more than 90°: min. height 1.30m.
- ✓ Turns with a direction change of less than 90°: may be lower than 1.30m.

TURN STEEPNESS:

- ✓ Min. 55° (Velosolutions Standard).
- ✓ Slightly less is tolerable, but not below 50°.

TURN MUST BE SHAPED CONCAVE/ROUND

- ✓ with a wide flat bottom for beginners and a steep top.

TURN RADIUS:

- ✓ Min. 3m (Velosolutions Standard: 4m).
- ✓ Turn radius must co-relate with the speed that riders are expected to come into it.
- ✓ Higher speeds require bigger turns.

FIRST ROLLER PLACEMENT:

- ✓ The first roller before and after each turn must be at least 1m from the end of the turn (Velosolutions Standard: 1.50m).

ROLLER SPACING:

- ✓ Min. 3m between each roller.

ROLLER HEIGHT:

- ✓ Should be designed in relation to roller spacing, but strict proportionality is not required.

min 3m



ROLLER SPACING

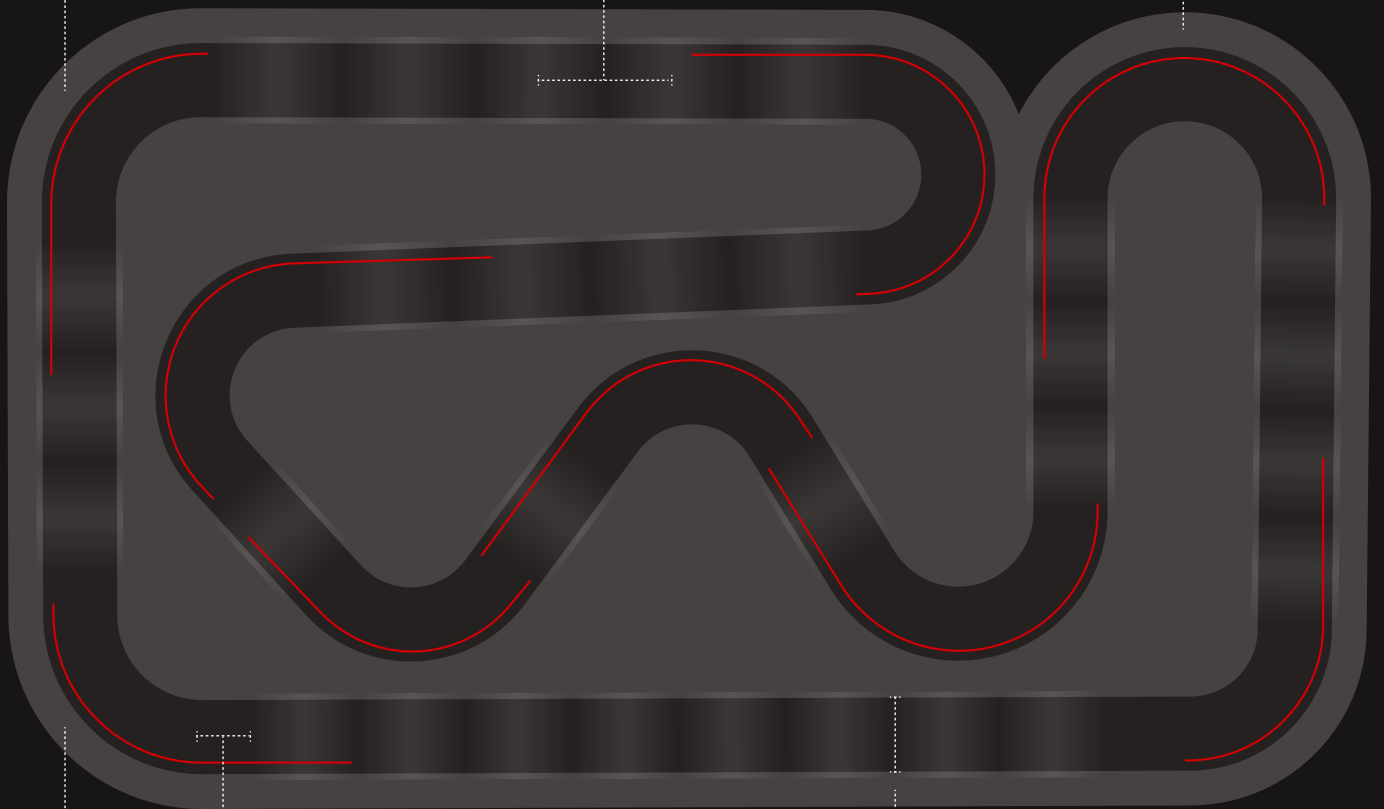
min 3m

TURN RADIUS

min 3m | Velosolutions Standard 4m

TURN HEIGHT

Turn Angle > 90° | min 1.30m
Turn Angle < 90° | can be < 1.30m



FIRST ROLLER PLACEMENT

min 1m from the end of the turn

TRACK WIDTH

min 2m | Velosolutions Standard

TURN STEEPNESS

min 55° | Velosolutions Standard

