



**AUSCYCLING**  
Venue  
Approval and  
Homologation



**LET'S RIDE TOGETHER**



# Chapter 1 INTRODUCTION

Cycling facilities have particular requirements which are set to ensure that they are safe for use of all participants.

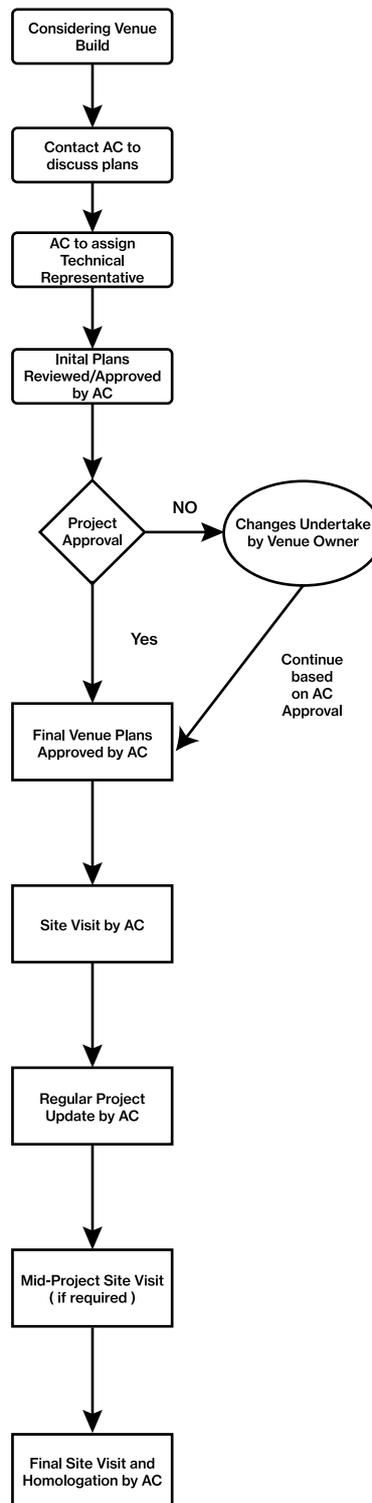
AusCycling ('AC') has developed requirements for facilities for the following disciplines:

- BMX Freestyle
- BMX Racing
- Criterium
- Track

The homologation process ensures that all facilities meet the minimum standards for the sport and to be run in a safe and equitable fashion. As a result all facilities must be approved by AC prior to their use.

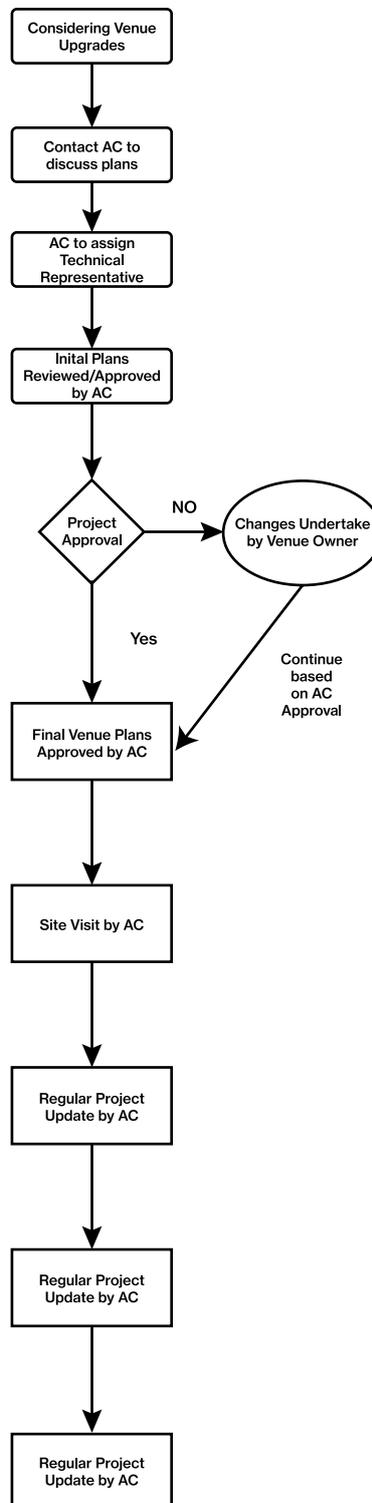
# PROCESS: NEW VENUE

Where a new venue is considering being developed AusCycling must be consulted to ensure that it will meet homologation standards and no changes will be required once building is completed. The Homologation process for new venues is as follows:



# PROCESS: EXISTING VENUE

When a facility has undergone significant changes or did not previously require homologation AusCycling will also be required to undertake an approval process. The following is the process for these venues





# Chaper 2 LEVEL OF HOMOLOGATION

Homologations may be taken for the following level of events

| Discipline           |  |
|----------------------|--|
| <b>BMX Racing</b>    | World Championship*<br>World Cup*<br>Continental Championships*<br>National Championships<br>State<br>Club   |
| <b>Track</b>         | World Championship*<br>Nations Cup*<br>Continental Championships*<br>National Championships<br>State<br>Club |
| <b>Criterion</b>     | State<br>Club  |
| <b>BMX Freestyle</b> | World Championship*<br>World Cup*<br>Continental Championships*<br>National Championships<br>State           |

\*require UCI Homologation which is coordinated through AusCycling



# Chaper 3 FEE

The following fees are applicable to at each stage of the homologation process:

| <b>Step</b>                                | <b>World Cup and Continental Championships</b> | <b>National and Below Fee (+ GST)</b> |
|--|--|---------------------------------------|
| <b>Initial Plan Review</b>                 | \$1,000  | \$500                                 |
| <b>Final Plan Review</b>                   | \$1,000  | \$500                                 |
| <b>Site Visit (s)*</b>                     | \$2,500  | \$800 + Travel Costs                  |
| <b>Final Homologation Visit and Report</b> | \$5,000  | \$2000 + Travel Costs                 |

**\*may not be required for existing venues**



# Chaper 4 DISCIPLINE SPECIFIC DETAILS

There is no one size fits all solution for the development of cycling facilities however there are specific minimum standards that must be followed in order to be homologated by the UCI and AusCycling. The following section outlines the requirements for each of the disciplines.

## BMX RACING

|   | 1: WORLD CHAMPIONSHIPS   | 2: BMX SX WORLD CUP  | 3: CONTINENTAL CHAMPIONSHIPS   | 4: INTERNATIONAL COMPETITION   | 5: NATIONAL CHAMPIONSHIPS  |
|---|--|--|--|--|--|
| CLASS RACE                                    | CM   | CDM  | CC, JR   | HC, C1   | CN   |
| Starting hill                                 | Height: Championships: 8m<br>Challenge: 5m<br>Minimum Width: 9m<br>According to UCI designs*                                     | Height: 5m to 8m<br>Minimum Width: 9m<br>According to UCI designs*                               | Height: 5m to 8m<br>Width: 8m  | Height: 2.5m<br>Width: 8m  | Height: 2.5m<br>Width: 8m  |
| Minimum width of the track                    | 1 <sup>st</sup> straight: 8m<br>All other straights: 6m<br>1 <sup>st</sup> turn: 8m<br>Turns: 6m                                 | 1 <sup>st</sup> straight: 8m<br>All other straights: 6m<br>1 <sup>st</sup> turn: 8m<br>Turns: 6m | 1 <sup>st</sup> straight: 8m<br>All other straights: 6m<br>1 <sup>st</sup> turn: 8m<br>Turns: 6m | 1 <sup>st</sup> straight: 8m<br>All other straights: 6m<br>1 <sup>st</sup> turn: 6m<br>Turns: 6m | 1 <sup>st</sup> straight: 8m<br>All other straights: 6m<br>1 <sup>st</sup> turn: 6m<br>Turns: 6m |
| Surface material of the turns and finish area | Asphalt, concrete, or bricks.  |  |  |  |  |
| Starting hill and gate                        | Gate surface and entire start hill surface should provide good traction even in light to moderate rain. A pro-gate shall be used |  | Gate surface and starting hill surface should provide good traction.                             |  |  |
| Length First straight (minimum)               | See UCI BMX Track Guide.   |  |  |  |  |
| Distance between obstacles                    | See UCI BMX Track Guide.   |  |  |  |  |

# Specific Requirements

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Length: Between 300m and 400m (Note: the UCI may accept tracks up to 450m in length, if the winner's race time will still be in the range of 35 to 38 seconds).

## Minimum Width:

### Events on the UCI International BMX Calendar:

- Start Hill: **10m**
- First straight: **8m**
- First corner: **8m**
- Other straights and corners: **6m**

### Tracks for other events:

- Start Hill: **10m**
- First Straight: **8m**
- First Corner: **6m**
- All other straights and corners: **5m**

## Best Practice

The widths mentioned above refer to the width of the riding surface of the track as measured between the outside edges of the two boundary lines on opposite sides of the track. The track should be planned so that there is a small shoulder of up to 25cm width outside each boundary line to ensure that the full width of the track can be ridden safely.

## Other Requirement

- Minimum distance from the bottom of the start hill to the beginning of the first jump: 5m
- Often, more space than this is preferred to allow time for some pedalling.
- Minimum length of the first straight measured from the bottom of the start hill to the entrance of the first corner: 70m
- Note: Tracks for other events can have a first straight that is less than 70m; however at least 70m is strongly recommended
- Minimum distance from the exit of the first corner to the lip of the take-off of the first jump on the second straight: 20m
- Minimum flat distance from the end of the last obstacle to the finish line: 10m
- Minimum stopping distance after the finish-line: 35m (can be a bit less, depending on traction given by the surface and grade; but it must be sufficient to allow riders to stop after crossing the finish line)

# BMX FREESTYLE

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- a basic BMX Freestyle Park which is constructed for that purpose must be a minimum of 15 metres wide and 25 metres long. Also, neither the width nor the length of the park can be greater than 60 metres.
- A safety zone of at least 2 metres must surround all sides of the stage on which the park is built, in areas where a rider or bicycle could be ejected from within it.
- To ensure safety, for edges of the park which do not consist of quarter pipes (normally the longer edges of a rectangular park), at least 2m of flat stage must separate the obstacles from the edge of the stage.
- A safety barrier or equivalent fall protection is needed at any edge of a raised level which is also an outside edge of the park. This must be built in a way so as to not impair the full use of the park by the riders, nor put their safety at risk.
- The field of play must contain a minimum of 3 obstacles. An obstacle is any feature within the park which is raised above the level where it sits. This can include the walls of the park, if any.
- Obstacles that have their base above ground level must be at least 2 metres wide; again, the 2 metres safety zone must be maintained. Such obstacles may also be connected as described above.
- Ramps, as well as the ground surface between them, must be built from a sufficiently hard and even surface which provides good traction for bicycle tires, such as wood or concrete; regardless of the materials used, such surfaces must not have any significant defects such as gaps, bumps, or holes.

## Flatland Competition Facilities

- The Field of Play or “Flatland Area” in which BMX Flatland Competitions take place must be a minimum of 10 metres wide and 10 metres long to allow all styles of flatland riding. Neither the width nor the length of the Flatland Area can be greater than 25 metres.
- A 1 metre safety zone shall separate the public from the edges of the Flatland Area.
- The riding surface of the Flatland Area must be flat, and of solid construction without significant surface defects or obstructions, or anything which could reasonably cause an injury in case of a fall.
- If the Flatland Area is painted, any paint used must be non-slip and should not reduce traction. The surface of the Flatland Area must provide good traction for the riders; materials which could be slippery (for example, glossy paint or carpet) must be avoided. In general, dark colours are strongly recommended to avoid glare.
- The boundaries of the Flatland Area shall be visibly and clearly marked.

# CRITERIUM

| Facility component               | Requirement  |  |  |  | Comment   |
|----------------------------------|--|--|--|--|---|
|                                  | Local  | Municipal  | Regional   | State  |   |
| Criterion Circuit                | Closed road circuit (on or off road) of not less than 800m and not more than 3km.<br><br>Minimum width of 6m with a finishing straight of a minimum of 200m (length) and 8M (width). | Closed road circuit (on or off road) of not less than 800m and not more than 3km.<br><br>Minimum width of 6m with a finishing straight of a minimum of 200m (length) and 8M (width). | Off road circuit of not less than 800m and not more than 3km.<br><br>Minimum width of 7.5m with a finishing straight of a minimum of 200m (length) and 8M (width). | Off road circuit of not less than 800m and not more than 3km.<br><br>Minimum width of 7.5m with a finishing straight of a minimum of 200m (length) and 8M (width). | Course can be undulating but shall be a sealed surface with minimal roadway / roadside hardware likely to cause hazards / falls. All such hazards shall be rendered safe prior to any event. Barriers to control pedestrians to be erected. |
| Spectator area                   | Shaded area (i.e. can be trees) for approx. 150 pax  | Shaded area (i.e. can be trees) for approx. 150 pax  | Shaded area (i.e. can be trees) for approx. 150 pax  | Covered area (i.e. can be under cover of pavilion) for up to 500 pax.  |   |
| <b>Functional Infrastructure</b> |  |  |  |  |   |
| Lighting                         | To be determined by program and training requirements.   |  |  |  |   |
| Fencing                          | To be determined on a case by case basis, however as a basic principle, reserve fencing is required to ensure / enhance participant and spectator safety.                            |  |  |  |   |
| Change rooms (incl. showers)     | No   | Yes  | Yes  | Yes  | Size of change rooms to be determined by average number of participants and Building Code requirements.   |
| Toilets                          | Yes  | Yes  | Yes  | Yes  | Level of provision to be by determined by average crowd size and Building Code requirements.  |

| Facility component | Requirement  |           |          |       | Comment  |
|--------------------|--|-----------|----------|-------|--|
|                    | Local  | Municipal | Regional | State |  |
| Storage            | Yes  | Yes       | Yes      | Yes   | Will depend on the number of resident clubs. Area can be used as a workshop during events. |
| First Aid          | Yes  | Yes       | Yes      | Yes   |  |
| Kiosk              | Yes  | Yes       | Yes      | Yes   | Key source of income for resident clubs.   |
| Drainage           | Due to the circuit being outdoors and its configuration, it is likely drainage will be required. |           |          |       | To be determined following completion of detailed design.                                  |
| Car parking        | Car parking provision will be subject to local planning requirements                             |           |          |       |  |

- The total distance must be between 800m and 3km
- Minimum width of 6m with a finishing straight of a minimum of 200m (length) and 8M (width)
- Course can be undulating but shall be a sealed surface with minimal roadway/roadside hardware likely to cause hazards/falls. All such hazards shall be rendered safe prior to any event. Barriers to control pedestrians to be erected.

# TRACK

| Facility component               | Requirement   |  |  |  | Comment  |
|----------------------------------|---|--|--|--|--|
|                                  | Local   | Municipal  | Regional   | State  |  |
| Velodrome                        | Outdoor track must be 250m – 500m (length), with a radius of 19m – 50m and a uniform width of 7 – 10m.  | Outdoor track must be 250m – 500m (length), with a radius of 19m – 50m and a uniform width of 7 – 10m. | Outdoor track must be 250m – 500m (length), with a radius of 19m – 50m and a uniform width of 7 – 10m. | Indoor track must be 250m – 400m (length), with a radius of 19m – 50m and a uniform width of 7 – 10m. Infield of track to be accessible by tunnel. | <p>All velodromes must have line markings as per UCI specifications.</p> <p>Must be designed with competitor safety as paramount and to guarantee a minimum safe speed of 75km/h.</p> <p>The length of the track shall be such that a whole number of laps or half laps shall equal 1km exactly.</p> |
| Spectator area                   | Shaded area (i.e. can be trees) for approx. 150 pax   | Shaded area (i.e. can be trees) for approx. 150 pax  | Shaded area (i.e. can be trees) for approx. 150 pax  | Permanent seating for 500+.  |  |
| Reserve Fencing                  | <p>UCI specify the outside edge of the track must be surrounded by a safety fence to protect riders and spectators. It must be stable and solidly mounted, with an overall height of at least 90 cm.</p> <p>For outdoor velodromes the inside part must be smooth (no protruding fencing twists) and unbroken.</p> <p>For indoor velodromes the inside part must be completely smooth and unbroken to a height of at least 65 cm above the track.</p> |  |  |  |  |
| <b>Functional Infrastructure</b> |   |  |  |  |  |
| Lighting                         | To be determined by program and training requirements.  |  |  |  |  |
| Fencing                          | To be determined on a case by case basis, however as a basic principle, reserve fencing is required to ensure / enhance participant and spectator safety.   |  |  |  |  |

| Facility component           | Requirement  |           |          |       | Comment   |
|------------------------------|--|-----------|----------|-------|---|
|                              | Local  | Municipal | Regional | State |   |
| Infield area                 | Can be utilised as a training / playing venue for junior sports, however attention will be required to ensure there are no scheduling conflicts. |           |          |       |   |
| Change rooms (incl. showers) | No   | Yes       | Yes      | Yes   | Size of change rooms to be determined by average number of participants and Building Code requirements. |
| Toilets                      | Yes  | Yes       | Yes      | Yes   | Level of provision to be determined by average crowd size and Building Code requirements.               |
| Storage                      | Yes  | Yes       | Yes      | Yes   | Will depend on the number of resident clubs. Area can be used as a workshop during events.              |
| First Aid                    | Yes  | Yes       | Yes      | Yes   |   |
| Kiosk                        | Yes  | Yes       | Yes      | Yes   | Key source of income for resident clubs.  |
| Drainage                     | Due to the configuration of the outdoor tracks, water will be shed to the infield and it is likely drainage will be required                     |           |          |       | To be determined following completion of detailed design.   |
| Car parking                  | Car parking provision will be subject to local planning requirements   |           |          |       |   |

- The inner edge of the track shall consist of two curves connected by two parallel straight lines. The entrance and exit of the bends shall be designed so that the transition is gradual. The banking of the track shall be determined by taking into account the radius of the curves and the maximum speeds achieved in the various disciplines.

# LENGTH

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- The length of the track must lie between 133 metres and 500 metres inclusive. The length of a track shall be such that a whole number of laps or half laps shall give a distance of precisely 1 kilometre, with a tolerance of + 5 centimetres. The length of the track shall be measured 20 cm above the inner edge of the track (the upper edge of the blue band).
- The width of the track must be constant throughout its length. Tracks approved in categories 1 and 2 must have a minimum width of 7 metres. Others tracks must have a width proportional to its length of 5 metres minimum.
- A rideable area sky-blue in colour known as the “blue band” must be provided along the inside edge of the track. The width of this band must be at least 10% of the width of the track and its surface must have the same properties as of the track. No advertising inscription is permissible in this area. With the exception of mounted riders, no person or object may be on the blue band while one or more riders are on the track.
- Immediately inside the blue band there shall be a prepared and marked safety zone. The combined width of the blue band and the safety zone shall be at least 4 metres for tracks of 250 metres and over, and 2.5 metres for tracks shorter than 250 metres.
- A fence, of a construction ensuring the adequate safety for riders at a height of at bis least 120 cm, must be erected on the inner edge of the safety zone except if the following conditions are met: 1. there are no height difference or abrupt gradient between the safety zone and the track centre or within the track centre, and 2. inside the safety zone and at a distance of 10 m of the blue band. The fence must be transparent and in no circumstances may any advertising boards be attached to it. In places where the level of the track proper is more than 1.5 m. higher than the actual track centre, additional protective measures such as nets, panels, or the like, shall be erected in order to prevent athletes being subjected to injury.
- Any gates provided in the fencing must be fitted with simple and reliable fastenings. They must be kept closed while racing and training is in progress.
- The surface of the track shall be completely flat, homogenous, non-abrasive. The tolerance of flatness for the track surface shall be 5 mm over 2 metres. The coating shall be uniform in all its aspects over the entire track surface. Coatings intended to improve the rolling qualities of one part of the track only are not permitted.
- The surface colour of the track must leave the track marking lines clearly visible.
- Any demarcation, line, advertisement or other marking on the track must be applied with a paint or product which is non-slip and which does not alter the adhesion properties, consistency or homogeneity of the surface.

- Advertisements on the track surface must be placed above the stayers' line within a longitudinal band between 50 cm of the stayers' line and 50 cm from the fence (the outside edge of the track).
  - No advertisement may be placed within 1m either side of the pursuit and the 200 m lines, or within 3 m either side of the finish line, measured from the outside edge of the white band.
  - A red line, known as the "sprinters' line" shall be marked out 85 cm from the inner edge of the track. The distance is to be measured to the inner edge of the red line.
  - A blue line, known as the "stayers' line" shall be drawn at one third of the total width of the track or 2.45 m (whichever is the greater) from the inner edge of the track. The distance is to be measured to the inner edge of the blue line.
- Perpendicular markings:
- The finish line shall be situated towards the end of one of the straights but at least a few metres before the entrance of the banking, and in principle in front of the main grandstand. It shall be marked by a perpendicular black line 4 cm in width at the centre of a white band 72 cm in width. The finish line marking on the track shall continue up to the top of the flat surface of the fencing.
  - A white line shall be drawn across the track 200 metres before the finish line, from which point the times will be taken for sprint events.
  - Two red lines half the width of the track in length, perpendicular to the track and precisely in line with one another, shall be drawn at the precise midpoint of each of the straights to mark the finish points for pursuit events.
  - The outside edge of the track must be surrounded by a safety fence to protect riders and spectators. It must be stable and solidly mounted, with an overall height of at least 90 cm. The inside part must be completely smooth and unbroken to a height of at least 65 cm above the track. It must present no protrusions or projecting parts. At the places where the area outside the track is at a level 1.5 metres or more below the outside edge of the track surface, additional protective measures (nets, panels, etc.) must be provided to reduce the risks resulting from riders accidentally leaving the track. The colour of the outside fencing must contrast clearly with that of the track. Any gates provided in the outside fencing must open outwards and be fitted with simple and reliable fastenings. They must be kept closed while racing and training is in progress.



## More Information:

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