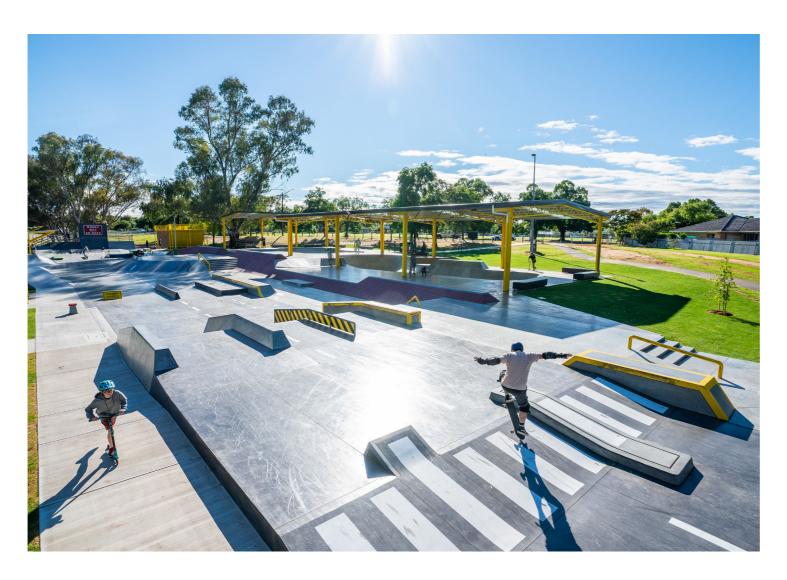


# Skatepark Design & Standards (AS EN 14974:2021) August 2022

## **PLA'CE**

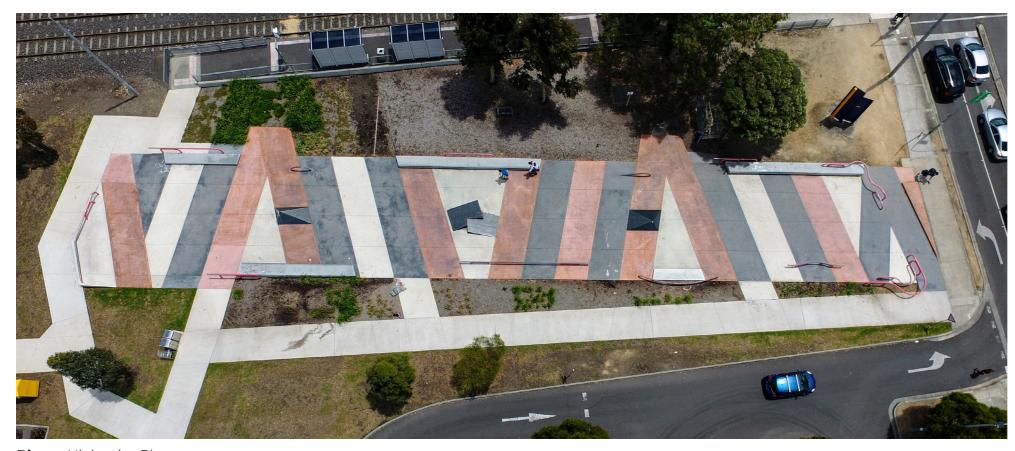
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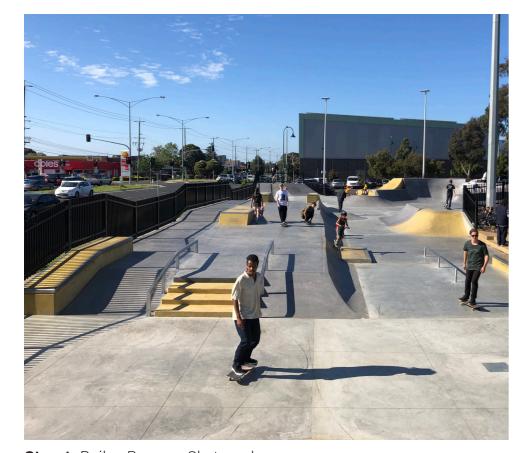
#### **Introduction to Playce**

- We are an 8 person design practice.
- We have a motto of being "serious about fun..."
- Have worked collectively on over 800 skatepark projects over 20+ years (10 as Playce).
- Essentially we design fun spaces and places in the public realm for young people including social hubs, skateparks, scooter loops, pump tracks, parkour spaces, playgrounds and fitness spaces.
- 3 of our staff are regular skaters.
- We have an office in central Melbourne but work across Australia.
- We love working with young people to create spaces for young people.





**Plaza:** Highpoint Plaza



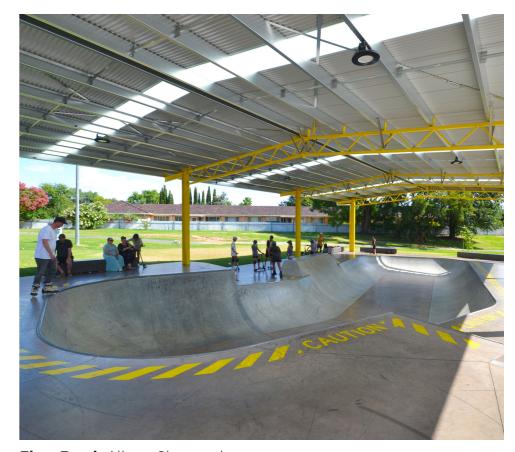
**Street:** Bailey Reserve Skatepark



Mini-Ramp: Stockton Skatepark



**Plaza:** Highpoint Plaza

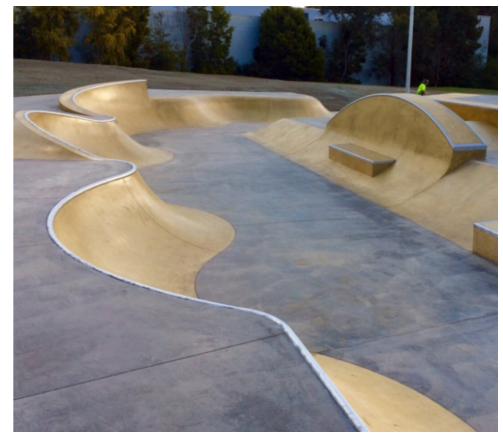


Flow Bowl: Albury Skatepark

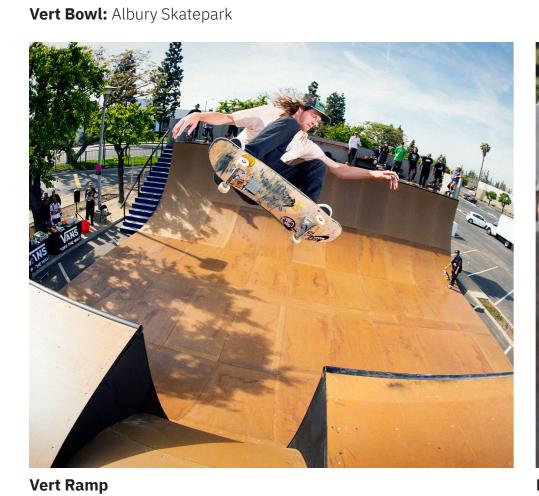
## Skatepark Design & Standards Skatepark Typology August 2022







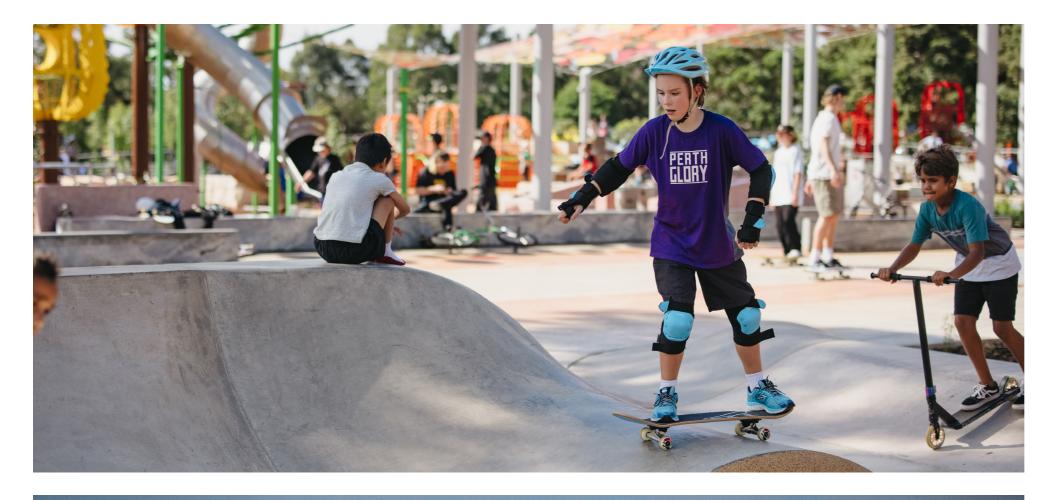
**Snake Run:** Box Hill Skatepark



Pump Track: Wellington Square

## Skatepark Design & Standards Skatepark Typology August 2022

**PLA'CE** 







Skatepark Design & Standards
Skatepark Users
August 2022





## **Coping**

- Standards provide parameters for setting coping (Section 6.2.7).
- Correct & consistent coping projection can be vital for the safety and usability of a feature.
- Features can require various coping profiles & projections.
- Ensure experienced skateboarders & designers with skate experience are involved to maximise the usability of features.

#### 6.2.7 Copings

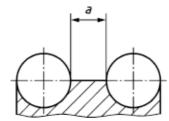
The diameter of the copings shall be  $\geq$  40 mm and the ends shall be sealed.

Copings shall be fixed and form-locking with the skate element.

Where a coping is constructed of more than one piece, the joints shall not create different levels or gaps.

When a pool coping is constructed of more than one piece the joints shall not create different levels and have a maximum width of 5 mm.

Where the distance (a) between two copings arranged parallel to one another is greater than 8 mm, the space shall be designed so that it is completely closed from the axis of the tubes (see Figure 6).



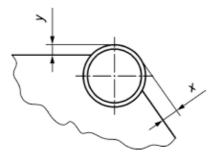
#### Key

a distance between two copings

NOTE Figure 6 is for illustrative purposes only as other designs are possible.

Figure 6 — Copings arranged in parallel

The coping shall present a minimum projection of 5 mm forwards and upwards, a maximum projection of 20 mm forwards and upwards (see Figure 7). The projection dimensions for pool copings may deviate from this.



#### Key

 $5 \text{ mm} \le x \le 20 \text{ mm}$ 

 $5 \text{ mm} \le y \le 20 \text{ mm}$ 

NOTE Figure 7 is for illustrative purposes only as other designs are possible.

Figure 7 — Projection of the coping

#### Coping

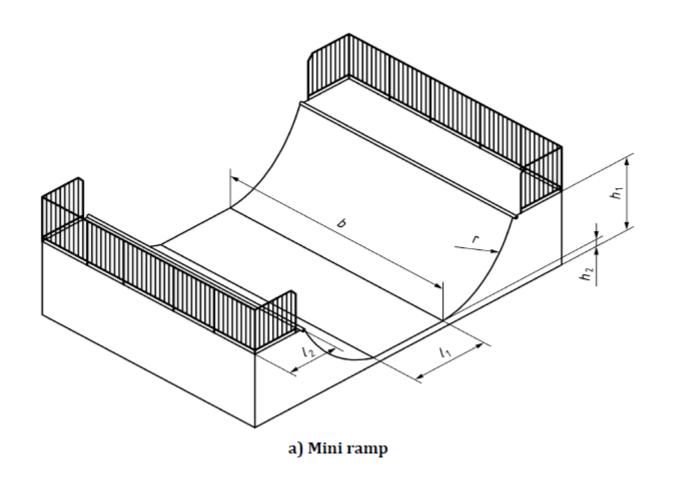
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- Standards provide parameters for transition dimensions in mini ramps / vert ramps (Section 6.3.6).
- Different transition radii can provide different riding experiences, and cater for different styles of riders.
- For example, pool bowls may have smaller transition radii to recreate the feeling of skating a backyard pool, whereas larger bmx bowls may have larger transition radii.
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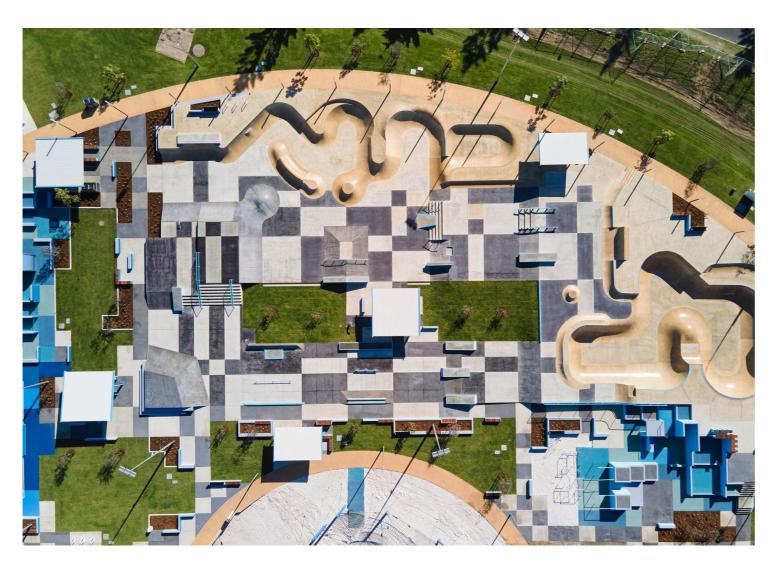
Table 4 — Dimensions of a mini ramp/vert ramp (half-pipe)

Description	h <sub>1</sub>	b	r	h <sub>3</sub>	$h_2$	$l_1$	$l_2$
	mm	mm	mm	mm	mm	mm	mm
Mini ramp	≤ 1 250	≥ 2 400	≥ h <sub>1</sub>	no vert allowed ª	≤ 600	≥ r/2	≥ 1200
	> 1 250 to 1 500	≥ 3 600					
	> 1 500 to 2 000	≥ 4 800					
	≥ 2 000 to 2 500	≥ 6 000					
Vert ramp (half-pipe)	≥ 1 500 to 2 500	≥ 4 800	≥ 1 400 to 2 400	≤ 300			
	≥ 2 500 to 4 200	≥ 6 000	≥ 2 400 to 3 600 ≤ 4 500	≤ 600			
	> 4 200 to 5 000	≥ 7 200		≤1 000			
Vert is allowed for extensions.							

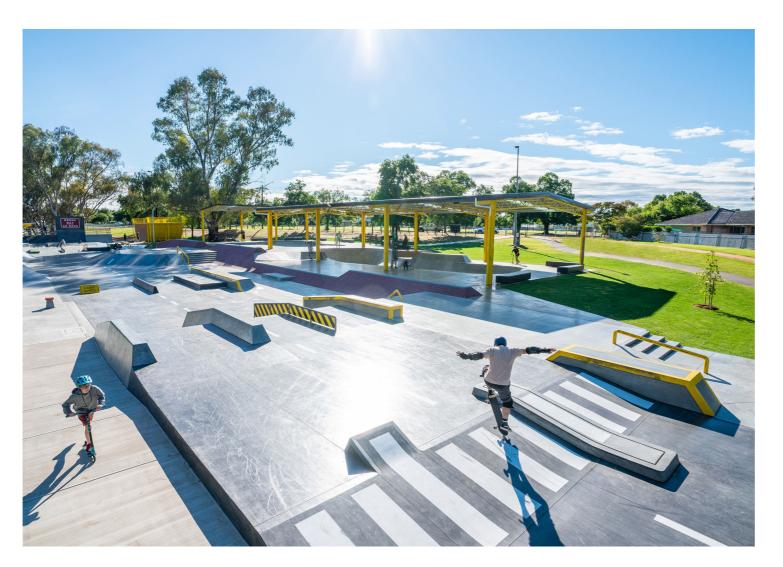
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- Standards provide guidelines for safety zones around features (Section 6.4).
- Having sufficient run-up & run-out for features is important to ensure features can be used as intended.
- Arranging obstacles to provide the correct speed & spacing to set-up for tricks is also vital.
- Skatepark features are often combined to make new features & ways to ride.
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#### 6.4 Safety zone

Each skate element shall have a safety zone of at least 2 000 mm around its circumference with the exception of rails, curbs/ledges according to 6.1.14. The safety zones may intersect one another. Safety zones shall be free from any obstacles and are not intended as a viewing area for spectators. The surface of the safety zones shall be made of a bound uniform material. Loose material, e.g. sand, shall not be used.

NOTE Bound uniform material is e.g. concrete/stone, bituminous surfacing, topsoil and turf.

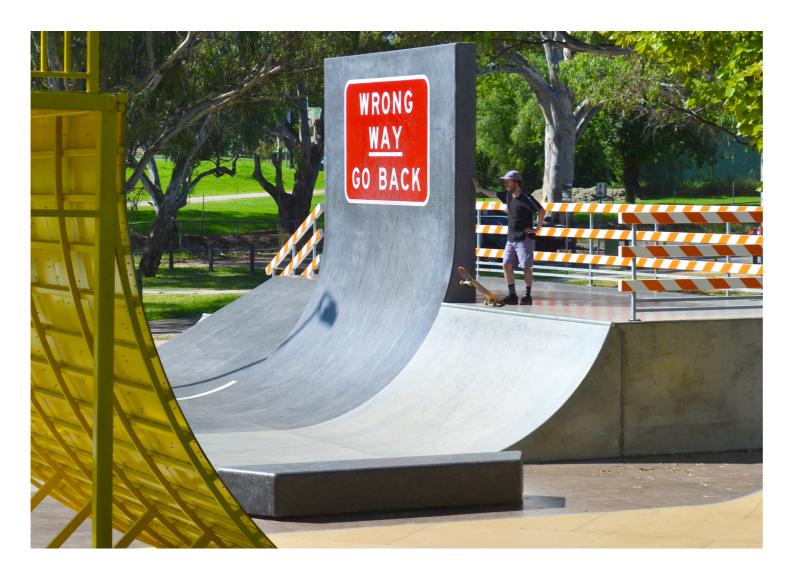
Plants (e.g. hedges, trees, bushes) within the safety zone are permitted if they are arranged in a way that does not pose a risk to users during their sports activities.

There is no need for a safety zone in the adjacent area behind a skate element provided with a platform or behind a wall ride.

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#### **Balustrades**

- Standards provide guidelines for balustrades / barriers (Section 6..2.6).
- The specified dimensions differ from other standards, and some proprietary systems.

#### Dimensions in millimetres

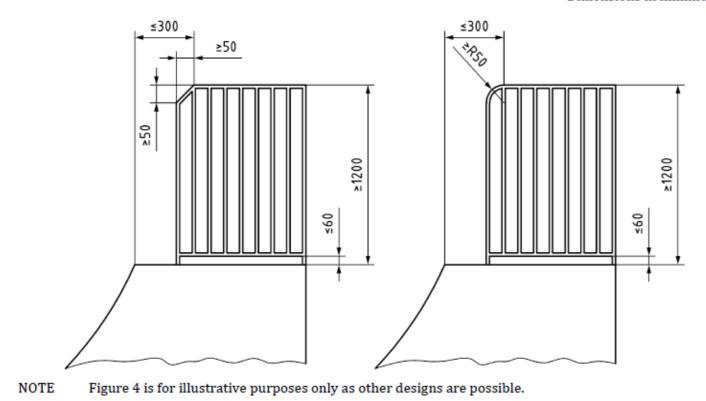


Figure 4 — Barrier

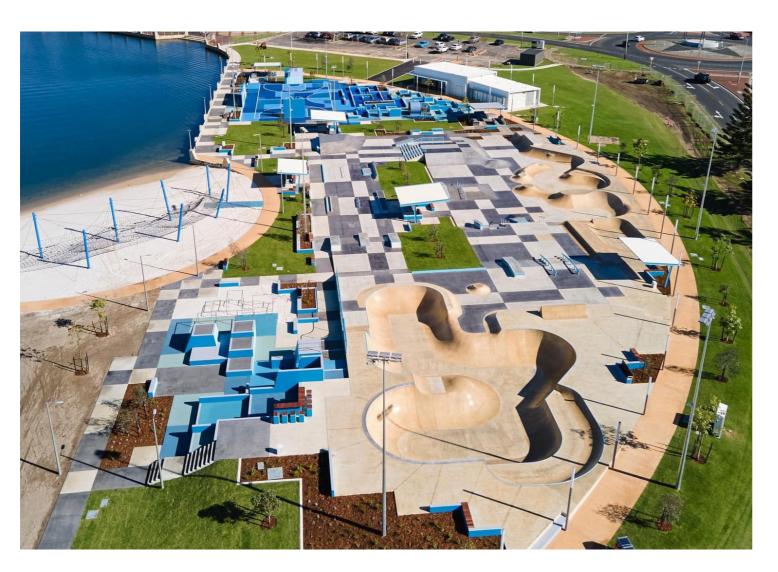
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## **Safety Assessments**

- Many safety inspectors are not offering assessments of skatepark designs to these standards yet.
- Skate experience and knowledge of how features can be used is important to approach skatepark assessment.
- We currently undertake reviews with Baseplate, experienced skate design peers, to provide assessments of designs.



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