

# Swale Drain Bridges



- Solid Construction
- Vandal Resistant
- Detailed for Long Life

As simple but effective low priced swale drain bridge is now available from Outdoor Structures Australia. The bridge is based on the member sizes and widths from our very successful Boardwalk Design Guide, with overall length in modules of 120mm. Stainless fasteners are an option.



### Abutment Design Notes

*The abutment should be designed with the following in mind:*

1. The bridge should not be installed beyond a maximum 5% slope.
2. The bridge sill should not sit directly on the abutment but be spaced up to 50mm above on drypack concrete or neoprene blocks.
3. The abutment should have a concrete backwall and a side wall to stop soil encroaching on the timbers
4. The abutment should slope forward about 12mm across its width to shed moisture
5. Design reinforcing so there is no clash with the hold down bolt positions
6. The bridge is only intended to withstand nominal flood loads

### Handrails

The swale drain bridges are not designed to carry handrails, if handrails are required use the demountable series bridge. Bikeway compliant rails are needed when the full height is greater than 250mm.

Model	Span	Overall	Deck Width	Sill Width
SD2511	2.5	3.0	1.1	1.5
SD2514		(25 boards)	1.4	1.8
SD2517			1.7	2.1
SD2523			2.3	2.7
SD2526			2.6	3
SD3111	3.1	3.6	1.1	1.5
SD3114		(30 boards)	1.4	1.8
SD3117			1.7	2.1
SD3123			2.3	2.7
SD3126			2.6	3
SD4311	4.3	4.8	1.1	1.5
SD4314		(40 boards)	1.4	1.8
SD4317			1.7	2.1
SD4323			2.3	2.7
SD4326			2.6	3
SD4911	4.9	5.4	1.1	1.5
SD4914		(45 boards)	1.4	1.8
SD4917			1.7	2.1
SD4923			2.3	2.7
SD4926			2.6	3
SD6111	6.1	6.6	1.1	1.5
SD6114		(55 boards)	1.4	1.8
SD6117			1.7	2.1
SD6123			2.3	2.7
SD6126			2.6	3



**Outdoor Structures Australia**  
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