

# Technical Specifications

## Allowable Spans for Decking

APR DECKING SECTION SIZE B x D (mm)	APPLICATION			
	Residential/ Light Commercial eg. Viewing Platform	Public Access (Non Trafficable)	Light Vehicle Access	Heavy Vehicle Access
200 x 23 DG	350	N/R	N/R	N/R
190 x 55 TRI - I DG	750	650	N/R	N/R
150 x 35 DG	500	350	N/R	N/R
190 x 40 DG	650	450	N/R	N/R
200 x 50 DG	850	750	400	N/R
275 x 50 DG	1200	750	350	N/R
150 x 75	1150	1150	650	N/R
200 x 75	1300	1300	750	N/R
200 x 100	N/R	1750	1200	400
225 x 100 DG	N/R	1800	1300	500
<b>Design Uniformly Distributed Load (UDL)</b>	5kPa	5kPa	5kPa	10kPa
<b>Design Point Load</b>	1.8kN	4.5kN	14.6kN	64.7kN
<b>Typical Usage</b>	<ul style="list-style-type: none"> <li>• Pedestrians</li> <li>• Mobility Scooters</li> <li>• Wheelchairs</li> </ul>	<ul style="list-style-type: none"> <li>• 'Gator' Type Park Maintenance Vehicle to 1000kg GVM</li> <li>• Golf Cart to 1000kg GVM</li> </ul>	<ul style="list-style-type: none"> <li>• Vehicles with a Maximum 3.5t GVM and 2.25t Maximum Axle Load such as 4X4 Utility Vehicle or Mercedes Benz "Sprinter" Ambulance</li> </ul>	<ul style="list-style-type: none"> <li>• Road Legal Heavy Vehicles with Maximum Axle Load not Exceeding 10.0t</li> </ul>

### NOTES

1. This table is to be used for preliminary design only. A specific structural design is required for every project prior to ordering of materials.
2. All dimensions in millimetres.
3. N/R = Not Recommended.
4. Tabulated spans assume decking is at least 3 spans continuous.
5. Bending moments are based on a 3 span continuous beam with all spans loaded for UDL loads, and end spans centrally loaded for point loads. Point loads are assumed to be distributed over 150mm width parallel with the span.
6. Live load deflections are limited to L/150 under the full design UDL or Point Load, and 1.7mm under a 1.0kN midspan Point Load.
7. Design Point Loads for vehicles are based on 60:40 load distribution on axle with additional 10% dynamic load allowance.
8. Vehicle traffic is assumed to be slow moving (<10km/hr).