

Technical Specifications

Allowable Spans for Double Head Bearers

APR BEARER SECTION SIZE D x B (mm)	APPLICATION			
	Residential	Public Access (Non Trafficable)	Light Vehicle Access	Heavy Vehicle Access
2/100 x 100	1.19	1.19	N/R	N/R
2/100 x 100	1.04	1.04	N/R	N/R
2/140 x 40	1.22	1.22	N/R	N/R
2/140 x 40	1.07	1.07	N/R	N/R
2/140 x 70	1.47	1.47	N/R	N/R
2/140 x 70	1.29	1.29	N/R	N/R
2/200 x 50	1.88	1.88	1.87	N/R
2/200 x 50	1.64	1.64	1.64	N/R
2/200 x 75	2.15	2.15	2.15	N/R
2/200 x 75	1.88	1.88	1.88	N/R
2/200 x 100	2.37	2.37	2.37	1.04
2/200 x 100	2.07	2.07	2.07	1.03
2/230 x 100	2.72	2.72	2.72	1.36
2/230 x 100	2.38	2.38	2.38	1.35
2/240 x 100	2.84	2.84	2.84	1.48
2/240 x 100	2.48	2.48	2.48	1.46
2/250 x 90	2.86	2.86	2.86	1.45
2/250 x 90	2.50	2.50	2.50	1.43
2/300 x 40	2.62	2.62	2.62	0.93
2/300 x 40	2.29	2.29	2.29	0.93
2/300 x 75	3.23	3.23	3.23	1.73
2/300 x 75	2.82	2.82	2.82	1.71
2/300 x 100	3.55	3.55	3.55	2.27
2/300 x 100	3.10	3.10	3.10	2.24

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 metres.
3. N/R = Not Recommended.
4. Tabulated spans assume bearers are simply supported.
5. Dead load deflections are limited to L/240 assuming a 2.5 long term creep factor.
6. Live load deflections are limited to L/200 under the full design UDL or Point Load, and 1.7mm under a 1.0kN midspan Point Load.
7. Please refer to Page 2 for Loading Parameters.

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LOADING PARAMETERS	APPLICATION			
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Design Uniformly Distributed Load (UDL)	5kPa	5kPa	5kPa	10kPa
Design Point Load	1.8kN	4.5kN	14.6kN	64.7kN
Typical Usage	<ul style="list-style-type: none">• Pedestrians• Mobility Scooters• Wheelchairs	<ul style="list-style-type: none">• 'Gator' Type Park Maintenance Vehicle to 1000kg GVM• Golf Cart to 1000kg GVM	<ul style="list-style-type: none">• Vehicles with a Maximum 3.5t GVM and 2.25t Maximum Axle Load such as 4X4 Utility Vehicle or Mercedes Benz "Sprinter" Ambulance	<ul style="list-style-type: none">• Road Legal Heavy Vehicles with Maximum Axle Load not Exceeding 10.0t

NOTES

1. Design Point Loads for vehicles are based on 60:40 load distribution on axle with additional 10% dynamic load allowance.
2. Vehicle traffic is assumed to be slow moving (<10km/hr).