

Technical Specifications

Allowable Spans for Double Head Bearers

APR BEARER SECTION SIZE D x B (mm)	JOIST SPAN	APPLICATION			
		Residential	Public Access (Non Trafficable)	Light Vehicle Access	Heavy Vehicle Access
2/100 x 100	2400	1.19	1.19	N/R	N/R
2/100 x 100	3600	1.04	1.04	N/R	N/R
2/140 x 40	2400	1.22	1.22	N/R	N/R
2/140 x 40	3600	1.07	1.07	N/R	N/R
2/140 x 70	2400	1.47	1.47	N/R	N/R
2/140 x 70	3600	1.29	1.29	N/R	N/R
2/200 x 50	2400	1.88	1.88	1.87	N/R
2/200 x 50	3600	1.64	1.64	1.64	N/R
2/200 x 75	2400	2.15	2.15	2.15	N/R
2/200 x 75	3600	1.88	1.88	1.88	N/R
2/200 x 100	2400	2.37	2.37	2.37	1.04
2/200 x 100	3600	2.07	2.07	2.07	1.03
2/230 x 100	2400	2.72	2.72	2.72	1.36
2/230 x 100	3600	2.38	2.38	2.38	1.35
2/240 x 100	2400	2.84	2.84	2.84	1.48
2/240 x 100	3600	2.48	2.48	2.48	1.46
2/250 x 90	2400	2.86	2.86	2.86	1.45
2/250 x 90	3600	2.50	2.50	2.50	1.43
2/300 x 40	2400	2.62	2.62	2.62	0.93
2/300 x 40	3600	2.29	2.29	2.29	0.93
2/300 x 75	2400	3.23	3.23	3.23	1.73
2/300 x 75	3600	2.82	2.82	2.82	1.71
2/300 x 100	2400	3.55	3.55	3.55	2.27
2/300 x 100	3600	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			
	Residential	Public Access (Non Trafficable)	Light Vehicle Access	Heavy Vehicle Access
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).