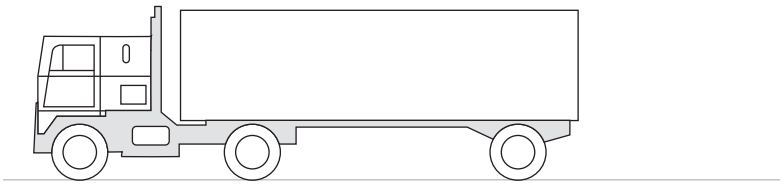
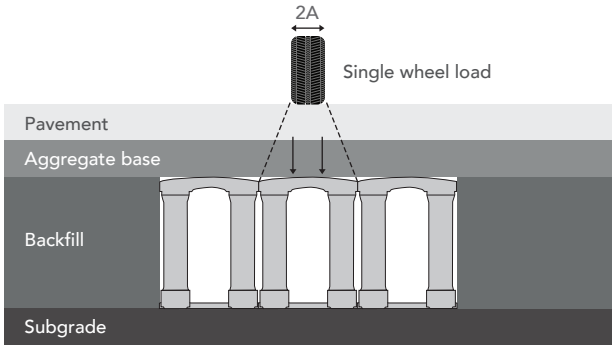
SILVA CELL 2 SUMMARY OF ULTIMATE LOAD CAPACITY

Independent lab testing and engineering analysis of Silva Cell 2 shows that, when installed per manufacturer's specifications, it meets or exceeds most loading requirements and safety factor, AASHTO HS-20 and standards for tire contact surface area equal to 250 mm x 600 mm.



- 175 kN maximum per axle
- 87.5 kN maximum per wheel
- Tire contact surface area is 250 x 600 mm



ULIMATE WHEEL LOAD BY STANDARD PAVEMENT TYPE

The table below provides the maximum load that can be on any single wheel (tire), or per axle, for a given pavement section, assuming tires have a contact area equal to 250 mm x 600 mm. For more details, including information about lateral loading, please refer to the Silva Cell 2 Engineering Report and Testing Conclusions.

Silva Cell 2 System Type	Pavers 8 cm pavers 2.5 cm sand base 30 cm of aggregate		Asphalt 10 cm of asphalt 30 cm of aggregate		Concrete 10 cm of concrete 10 cm of aggregate		Pavers with Concrete 6 cm pavers 12.7 cm concrete	
	Wheel	Axle	Wheel	Axle	Wheel	Axle	Wheel	Axle
1X	147 kN	294 kN	225 kN	450 kN	165 kN	330 kN	184 kN	368 kN
	33,100 lbs	66,200 lbs	50,500 lbs	101,000 lbs	37,000 lbs	74,000 lbs	41,400 lbs	82,800 lbs
2X	162 kN	324 kN	247 kN	494 kN	181 kN	362 kN	202 kN	404 kN
	36,400 lbs	72,800 lbs	55,500 lbs	111,000 lbs	40,700 lbs	81,400 lbs	45,500 lbs	91,000 lbs
3X	137 kN	274 kN	210 kN	420 kN	154 kN	308 kN	172 kN	344 kN
	30,900 lbs	61,800 lbs	47,200 lbs	94,400 lbs	34,600 lbs	69,200 lbs	38,700 lbs	77,400 lbs

Loading capacity can be adjusted based on section profile changes; the typical applications shown in the table above are the most commonly used. For custom details and a review of your site-specific loading requirements, please contact DeepRoot.

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