



Permeable Pavement Axle Loads / Surface Pressure

Vehicle Type	Max Weight / Axle		AASHTO Load Class	Surface Pressure		
	lbs	kg		psi	psf	kPa
ATV (Trailer Vehicle Only)	1,200	544.31		3	432	20.68
Passenger Vehicle	3,000	1,360.78	H10	7.5	1,080	51.71
Light Truck	3,000	1,360.78	H10	7.5	1,080	51.71
Pickup	4,000	1,814.37	H10	10	1,440	68.95
80 HP Tractor	5,700	2,585.48	H10	14.25	2,052	98.25
100 HP Tractor	11,000	4,989.52	H10	27.5	3,960	189.61
Van Delivery Truck	16,000	7,257.48	H10	40	5,760	275.79
Rural Fire Truck	22,000	9,979.03	H15	55	7,920	379.21
Large Delivery Truck	24,000	10,886.22	H15	60	8,640	413.69
Garbage Truck (Single Axle)	26,000	11,793.40	H20/HS20	65	9,360	448.16
Loaded Dump Truck	30,000	13,607.77	H20/HS20	75	10,800	517.11
Heavy Delivery Truck	32,000	14,514.96	H20/HS20	80	11,520	551.58
Heavy Semi Truck	32,000	14,514.96	H20/HS20	80	11,520	551.58
Standard Logging Truck	33,600	15,240.70	H25/HS25	84	12,096	579.16
Concrete In-Transit Mixer Truck	38,000	17,236.51	H25/HS25	95	13,680	655.00
Garbage Truck (Tandem Axle)	42,000	19,050.88	H25/HS25	105	15,120	723.95
Off Highway Log Truck	43,000	19,504.47	H25/HS25	107.5	15,480	741.19
Fire Apparatus Single Axle Weights						
Single Steering Axle	23,000	10,432.62	H25/HS25	95.80	13,800	660.50
Single Steering Axle / Aerial	31,000	14,061.36	H25/HS25	129.16	18,600	890.53
Single Drive Axle	24,000	10,886.22	H25/HS25	100.00	14,400	689.47
Single Pumper Drive Axle	27,000	12,247.00	H25/HS25	56.25	8,100	387.83
Tandem Drive Axle	48,000	21,772.43	H25/HS25	50.00	7,200	344.74
Tandem Aerial Drive Axle	53,000	24,040.40	H25/HS25	55.20	7,950	380.59
Tridem Drive Axle	54,000	24,493.99	H25/HS25	37.50	5,400	258.55
Fire Apparatus surface pressures are per square inch of tire contact area / tire						

Ref: Pavement Interactive - Online Pavement Design Community / CALTRANS Fire Axle Weights / Dana Corporation - Spicer Fire Equipment Drive Axles