

AASHTO ESAL Client Form

Project Name:	
Project Number:	
Description:	
Prepared By:	Date:
Reference:	AASHTO Guide for Design of Pavement Structures 1993

Instructions:

For each Vehicle Description in Column (A), fill in (B) as the average estimated quantities of those vehicles in the design lane of traffic, fill in (C) as the average days per week that the average quantity from column (B) will be in design lane for each vehicle type, fill in (D) for the average weeks per year that traffic will be in the design lane and fill in (E) for the years for the design analysis period. Columns (F) and (G) are for reference only to help better describe each vehicle, and please put any notes for each vehicle type in (H), only as applicable or needed.

Questions or Help Needed? Please call Lithified Technologies Fort Worth Lab (817) 590-8100 or contact your authorized LithTec™ representative.

(A) Vehicle Description	(B) Traffic Volume			(E) Analysis Period (years)	(F) Axle Load and Type						(G) Gross Weight (pounds)	(H) Notes
	Quantity in the Design Lane	Days per Week	Weeks per Year		Axle 1 (kips)	Axle 2 (kips)	Axle 3 (kips)					
Passenger car					2	S	2	S			4,000	
Pick-up truck or van					2	S	4	S			6,000	
Recreational vehicle					4	S	4	S			8,000	
School bus					2	S	4	S			6,000	
Public transit bus					8	S	14	S			22,000	
Greyhound MC-12 bus					13.4	S	18.4	S	6	S	37,800	
Package delivery truck					4	S	14	T			18,000	
Beverage delivery truck					6	S	12	S	12	S	30,000	
Garbage/dumpster truck					20	S	35	T			55,000	
Concrete truck (full)					20	S	48	R			68,000	
Dump truck (full)					20	S	48	R			68,000	
Semi-tractor (no trailer)					8	S	2	T			10,000	
Semi-tractor trailer					8	S	8	T	6	T	80,000	
Semi-tractor trailer (empty)					12	S	34	T	34	T	22,000	
Vehicle type H10					4	S	16	S			20,000	
Vehicle type H15					6	S	24	S			30,000	
Vehicle type H20					8	S	32	S			40,000	
Vehicle type 3					16	S	34	T			50,000	
Vehicle type HS15					6	S	24	S	24	S	54,000	
Vehicle type HS20					8	S	32	S	32	S	72,000	
Vehicle type 3S2					10	S	31	T	31	T	72,000	