

Grasspave2 vs Asphalt Paving Cost Comparison March 1999

Economic Considerations -

Grasspave2 paving is competitive with asphalt paving, and has a lower life cycle cost due to low maintenance costs and no need for surface replacement (if new grass is needed, just reseed). Asphalt paving requires resealing every 2 to 4 years, and resurfacing every 8 to 15 years, depending upon traffic and climate.

Grasspave2 may not require any stormwater collection system, or separate land area dedicated to stormwater detention. Depending upon the porosity of subsoils below the base course, all Grasspave2 paved areas will act as direct infiltration surfaces. Costs for such stormwater management should be added to asphalt paving costs below for a true comparison of project costs.

Installation Cost Comparison:

- Representative Project: Sports Arena, 20,000 seats, 8,000 parking spaces,
 - 30% peak parking done with grass parking bays.
 - 2,400 parking spaces x 160 square feet each = 384,000 sf of grass paving.

	Grasspave2 6" Base	Asphalt 2"/6" Base	Asphalt 5" Full Depth	Asphalt 3.5"/8" Base
Total Installed Costs	\$518,400	\$506,880	\$702,720	\$744,960
Cost per Space =	\$216	\$211	\$293	\$310
Cost per Sq Ft =	\$1.35	\$1.32	\$1.83	\$1.94

Note: All costs will vary depending upon quantities, size of project and specific construction requirements.

Maintenance costs for Grasspave2 pavements over a 12 to 15 year period (asphalt life cycle) will generally cost between 60% to 90% of asphalt maintenance/repair costs. The Grasspave2 pavement can be expected to perform over a life cycle of 50 to 100+ years with proper maintenance. Asphalt would likely require complete resurfacing 3 times over 50 years.