

**CHAPTER VI
PAVEMENT STRUCTURE DESIGN**

Item No.	Description	Factor
AGGREGATE BASE COURSE		
304-01.____	Type 1 Aggregate for Base (____in. Thick)	0.058 Tons/yd ² /inch Compacted
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	0.22 Tons/yd ² Compacted
	Total Weight of Base Material at Optimum Moisture Content	
AGGREGATE SURFACE		
310-____	Gravel, Crushed Stone and Chat	0.039 Ton/yd ² /inch or 0.028 yd ³ /yd ² /inch (Based on 1.40 Tons/yd ³ of loose Aggregate)
PLANT MIX BITUMINOUS BASE COURSE		
401-30.00	Bituminous Pavement Mixture PG64-22 (Base)	2.005 Ton/yd ³ Compacted Mixture
401-30.10	Bituminous Pavement Mixture PG64-22 (Base Widening)	2.005 Ton/yd ³ Compacted Mixture
PLANT MIX BITUMINOUS PAVEMENT		
401-12.09A	Bituminous Pavement Mixture PG64-22 (BP-1)	1.987 Ton/yd ³ Compacted Mixture
401-12.11A	Bituminous Pavement Mixture PG64-22 (BP-2)	1.987 Ton/yd ³ Compacted Mixture
PLANT MIX BITUMINOUS SURFACE LEVELING		
402-05.20A	Bituminous Pavement Mixture PG64-22 (Obtain Factors from District Operations)	
ASPHALTIC CONCRETE PAVEMENT		
403-____	Asphaltic Concrete Mixture (Type SP125 Mix)	1.970 Ton/yd ³ Compacted Mixture
403-____	Asphaltic Concrete Mixture (Type SP190 Mix)	1.977 Ton/yd ³ Compacted Mixture
403-____	Asphaltic Concrete Mixture (Type SP250 Mix)	2.036 Ton/yd ³ Compacted Mixture
403-____	Asphaltic Concrete Mixture (Type SMA Mix)	2.005 Ton/yd ³ Compacted Mixture
PROCESSING RECLAIMED ASPHALT		
405-10.01	Liquid Asphalt MC 250	12.8 Gal/Ton of Aggregate
TACK COAT		
407-10.05	Tack	0.05 Gal/yd ²
PRIME COAT		
408-10.____	Prime	0.35 Gal/yd ² (Aggregate Base) 0.25 Gal/yd ² (Color Coat)
SEAL COAT		
409-10.____	Seal Coat, Grade ____	0.25 – 0.40 Gal/yd ²
NA	Cover Aggregate	
	Light Weight Aggregate	12 lb/yd ²
	Limestone	17 lb/yd ²
	Porphyry	22 lb/yd ²

NOTE: These factors are statewide average estimates and should be used only for preliminary estimates. Mix designs have been established for most rock formations and the designer should request specific factor recommendations from the district operations engineer.

METRIC

**CHAPTER VI
PAVEMENT STRUCTURE DESIGN**

Item No.	Description	Factor
AGGREGATE BASE COURSE		
304-01.____	Type 1 Aggregate for Base (____ mm Thick)	0.0249 Mg/m ² /mm Compacted
304-05.05	Type 5 Aggregate for Base (100 mm Thick)	0.232 Mg/m ² Compacted
	Total Weight of Base Material at Optimum Moisture Content	
AGGREGATE SURFACE		
310-____	Gravel, Crushed Stone and Chat	0.00167 Mg/m ² /mm or 0.001 m ³ /m ² /mm (Based on 1.661 Mg/m ³ of loose Aggregate)
PLANT MIX BITUMINOUS PAVEMENT		
401-12.10A	Bituminous Pavement Mixture PG64-22 (BP-1)	2.358 Mg/m ³ of Compacted Mixture
401-12.12A	Bituminous Pavement Mixture PG-64-22 (BP-2)	2.358 Mg/m ³ of Compacted Mixture
PLANT MIX BITUMINOUS SURFACE LEVELING		
402-05.25A	Bituminous Pavement Mixture PG 64-22 (Obtain Factors from GHQ Maintenance)	
ASPHALTIC CONCRETE PAVEMENT		
403-____	Asphalt Binder (Asphaltic Concrete) (Type SP125 Mix)	2.337 Mg/m ³ of Compacted Mixture
403-____	Asphalt Binder (Asphaltic Concrete) (Type SP190 Mix)	2.346 Mg/m ³ of Compacted Mixture
403-____	Asphalt Binder (Asphaltic Concrete) (Type SP250 Mix)	2.416 Mg/m ³ of Compacted Mixture
403-____	Asphalt Binder (Asphaltic Concrete) (Type SMA Mix)	2.380 Mg/m ³ of Compacted Mixture
PROCESSING RECLAIMED ASPHALT		
405-10.02	Liquid Asphalt MC 250	53 L/Mg of Aggregate
TACK COAT		
407-10.00	Tack	0.225 L/m ²
PRIME COAT		
408-20.____	Prime	1.7 L/m ² (Aggregate Base) 1.1 L/m ² (Color Coat)
SEAL COAT		
409-15.____	Seal Coat, Grade ____	1.2 – 1.9 L/m ²
NA	Cover Aggregate	
	Light Weight Aggregate	.0065 Mg/m ²
	Limestone	.0092 Mg/m ²
	Porphyry	.012 Mg/m ²

NOTE: These factors are statewide average estimates and should be used only for preliminary estimates. Mix designs have been established for most rock formations and the designer should request specific factor recommendations from the district operations engineer.