MATERIALS AND RESEARCH
DELAWARE DEPARTMENT OF TRANSPORTATION
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SUPERPAVE PRODUCTION - ENGLISH YIELDS (SY)

SQUARE YARDS / TON(note 3)

		Type B[1,2]	Type C			SMA
		19 mm stone	9.5 mm stone	12.5 mm stone	4.75 mm stone	12.5 mm stone
	WT (pcf)	*153.1*	*150.7*	*151.9*	*146.4*	*149.7*
Depth (inches)	0.50				36.43	
	0.75				24.29	
	1.00				18.21	
	1.25		14.16		14.57	
	1.50		11.80	11.70		
	1.75		10.11	10.03		
	2.00		8.85	8.78		8.91
	2.25	7.74				
	2.50	6.97				
	2.75	6.33				
	3.00	5.81				
	3.25	5.36				
	3.50	4.98				
	3.75	4.64				
	4.00	4.35				
	4.25	4.10				
	4.50	3.87				
	4.75	3.67				
	5.00	3.48				
	5.25	3.32				
	5.50	3.17				
	5.75	3.03				
	6.00	2.90				

1. Type B Mix allowable lift thickness is based on binder grade.
   PG 64-22 binder can be placed in 2.25" - 6".
   Other binder grades are limited to 2.25" - 4"
2. If required to calculate for BCBC (25 mm mix) use Type B values.
   BCBC is no longer produced in Delaware
3. Calculations are based on compaction at 100% pay factor under QAQC specificaiton.
   94% compaction for SMA, 93% compaction for all other materials

Calculation:

$$\frac{Length\ (ft) \times Width\ (ft) \times \frac{1yd^2}{9ft^2}}{Square\ Yards\ per\ Ton\ from\ Chart\ for\ thickness\ selected}$$

Example:
2" Type C, 9.5 mm
Length = 1 mile
Width - 24 feet

$$\frac{5280\ (ft) \times 24\ (ft) \times \frac{1yd^2}{9ft^2}}{8.85\ \frac{yd^2}{Ton}} = 1591 \text{ Tons}$$

UPDATED 2/24/25