

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ROADWAY DESIGN DIVISION SUITE 1300 JAMES K. POLK BUILDING 505 DEADERICK STREET NASHVILLE, TENNESSEE 37243-3848 (615) 741-2221

JOHN C. SCHROER COMMISSIONER BILL HASLAM GOVERNOR

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INSTRUCTIONAL BULLETIN NO. 15-07

Regarding Computations For Asphaltic Concrete Surface (Hot Mix)

Effective immediately, section 4-411.00 of the Design Guidelines is revised.

PURPOSE: To add "TL" Surface, "TLD" Surface, and "OGFC" Surface Mix Computation Equations.

4-411.00 COMPUTATIONS FOR ASPHALTIC CONCRETE SURFACE (HOT MIX)

Item No. 411-01 Grading "D" Surface (Performance Grade PG64-22)

Compacted volume (C.Y.) x 3,816 Lb./C.Y.	Tana	Item 411-01.1
2,000 Lb./ Ton	= Tons	

NOTE: 1 inch per square yard weighs 106 + pounds

Item No. 411-01 Superpave Surface (Performance Grade PG64-22)

Compacted volume (C.Y.) x 3,816 Lb./C.Y.	= Tons	x 0.06 = Tons	Item 411-01.03
2,000 Lb./ Ton		x 0.94 = Tons	Item 411-01.04

NOTE: 1 inch per square yard weighs 106 + pounds

Item No. 411-01 Grading "E" Surface (Performance Grade PG64-22)

<u>Compacted volume (C.Y.) x 3,870 Lb./C.Y.</u> 2,000 Lb./ Ton = Tons

NOTE: 1 inch per square yard weighs 107.5 + pounds

Item No. 411-01 Grading "E" Shoulders (Performance Grade PG64-22)

<u>Compacted volume (C.Y.) x 3,708 Lb./C.Y.</u> 2,000 Lb./ Ton = Tons Item 411-01.07

NOTE: 1 inch per square yard weighs 103 + pounds

Item No. 411-02 Grading "D" Surface (Perform	ance Grade	PG70-22)	
Compacted volume (C.Y.) x 3,816 Lb./C.Y. 2,000 Lb./ Ton	= Tons		ltem 411-02.10
NOTE: 1 inch per square yard weighs	106 <u>+</u> pounc	ls	
Item No. 411-02 Superpave Surface (Performa	ance Grade F	PG70-22)	
Compacted volume (C.Y.) x 3,816 Lb./C.Y. 2,000 Lb./ Ton	= Tons	x 0.06 = Tons x 0.94 = Tons	Item 411-02.03 Item 411-02.04
NOTE: 1 inch per square yard weighs	106 <u>+</u> pounc	ls	
Item No. 411-02 Grading "E" Surface (Perform	ance Grade	PG70-22)	
Compacted volume (C.Y.) x 3,870 Lb./C.Y. 2,000 Lb./ Ton	= Tons		Item 411-02.11
NOTE: 1 inch per square yard weighs 107.5 +	pounds		
Item No. 411-03 Grading "D" Surface (Perform	ance Grade	PG76-22)	
Compacted volume (C.Y.) x 3,816 Lb./C.Y. 2,000 Lb./ Ton	= Tons		ltem 411-03.10
NOTE: 1 inch per square yard weighs	106 <u>+</u> pound	ls	
Item No. 411-03 Superpave Surface (Performa	ance Grade F	PG76-22)	
Compacted volume (C.Y.) x 3,816 Lb./C.Y. 2,000 Lb./ Ton	= Tons	x 0.06 = Tons x 0.94 = Tons	Item 411-03.03 Item 411-03.04
NOTE: 1 inch per square yard weighs	106 <u>+</u> pound	ls	
Item No. 411-03 Grading "TL" Thin Lift Surfac	e (Performa	nce Grade PG64	-22)
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons		Item 411-03.07

NOTE: 1 inch per square yard weighs 106 ± pounds

Item No. 411-03 Grading "TL" Thin Lift Surface (Performance Grade PG70-22)				
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.08		
NOTE: 1 inch per square yard weighs	106 ± pounds			
Item No. 411-03 Grading "TL" Thin Lift Surface (Performance Grade PG76-22)				
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.09		
NOTE: inch per square yard weighs 10	06 ± pounds			
Item No. 411-03 Grading "TLD" Thin Lift Surface (Performance Grade PG64-22)				
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.12		
NOTE: 1 inch per square yard weighs	106 ± pounds			
Item No. 411-03 Grading "TLD" Thin Lift Surface (Performance Grade PG70-22)				
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.13		
Note: 1 inch per square yard weighs 1	06 ± pounds			
Item No. 411-03 Grading "TLD" Thin Lift Surface (Performance Grade PG76-22)				
Compacted volume (C.Y.) x 3,816 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.14		
NOTE: 1 inch per square yard weighs	106 ± pounds			
Item No. 411-03 Grading "OGFC" Surface (Performance Grade PG70-22)				
Compacted volume (C.Y.) x 3,168 Lb./C.Y 2000 Lb./Ton	= Tons	Item 411-03.22		

Note: 1 inch per square yard weighs 88 ± pounds

Item No. 411-03 Grading "OGFC" Surface (Performance Grade PG76-22)

<u>Compacted volume (C.Y.) x 3,168 Lb./C.Y</u> = Tons 2000 Lb./Ton Item 411-03.23

Note: 1 inch per square yard weighs 88 ± pounds

Item No. 411-04 Grading "D" Surface (Performance Grade PG82-22)

 $\frac{\text{Compacted volume (C.Y.) x 3,816 Lb./C.Y.}}{2,000 \text{ Lb./ Ton}} = \text{Tons}$

Item 411-04.10

NOTE: 1 inch per square yard weighs 106 + pounds

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JL:ARH: arh 05/01/2015