



WHAT IS WARM?

- temperatures in excess of 275°F will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.
- RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)
- When ABR exceeds 20%, reduce high and low virgin grades each by one grade. If WMA technology and production temps do not exceed 275°F, reduce high and low virgin grades by one grade when ABR exceeds 25%

MIX DESIGN VERIFICATION

- (1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (shall only be used on HMA designs previously approved by the Department)
- (2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification. Additional mixture verification requirements includes Hamburg Wheel (IL Modified AASHTO T324) and tensile strength testing (IL Modified AASHTO T283)







HAMBURG WHEEL DATA											
WMA							НМА				
64-22			SBS 70-22			64-22		SBS 70-22			
MIX (NO AGE)	MIX (2 HR AGE)	CORES	MIX (NO AGE)	MIX (2 HR AGE)	CORES	MIX	CORES	MIX	CORES		
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						T \A/N/A					
	TNORTH VVB US			0 ZU FR				DEMONSTRATION			
DL				RIVER							
PL				BRIDGE			BRIDGE				
466+11			536+87	544+44		569+17	570+61			641+00	
					WB U	JS 20					
	TOP LIFT OF BINDER (POLY)										
DL				RIVER			REC PATH				
PL				BRIDGE	TEST S	TRIP	BRIDGE				
	I	Note: Init	ial tensile	results we	esults were below 80 lbs so t			e of the m	ix was HM	IA.	
				WB US 20							
					LOWER 2 LIFTS OF BINDER						
DL				RIVER			REC PATH				
PL				BRIDGE	TEST STRIP		BRIDGE				



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