

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ASPHALT MIX DESIGN - SP 20-18494A (TL-C)

Owning Company General Asphalt Company, Inc.
 Type Mix SP-9.5 Intended Use Of Mix Structural
 Design Traffic Level C Gyration @ Ndes 75

Product	Description	Name	Production Facility	Plant/Mine	Terminal
334-CRUSHED	Crushed RAP Stockpile	1-11 (Non-Continuous)	General Asphalt Company, Inc.	A0656	
C51	S1B Stone		White Rock Quarries	87339	
F22	Screenings	Screenings	White Rock Quarries	87339	
F20	Screenings	Screenings	White Rock Quarries	87339	

PERCENTAGE BY WEIGHT TOTAL AGGREGATE PASSING SIEVES

Blend		30%	24%	22%	24%				JOB MIX FORMULA	CONTROL POINTS	PRIMARY CONTROL SIEVE
Product		334-CRUSHED RAP	C51	F22	F20						
SIEVE SIZE	3/4" 19.0mm	100	100	100	100				100		
	1/2" 12.5mm	100	100	100	100				100	100 -	
	3/8" 9.5mm	96	98	100	100				98	90 - 100	
	No. 4 4.75mm	76	37	100	100				79	- 89	
	No. 8 2.36mm	58	9	86	77				61	48 - 67	47
	No. 16 1.18mm	47	3	72	60				47	35 -	
	No. 30 600µm	43	2	53	37				39	26 -	
	No. 50 300µm	30	1	37	23				27	19 -	
	No. 100 150µm	18	1	12	7				10		
	No. 200 75µm	9.8	1.0	1.8	2.4				5.0	2 - 10	
G _{sb}	2.530	2.412	2.527	2.508				2.495			

The mix properties of the Job Mix Formula have been conditionally verified, pending successful final verification during production at the assigned plant, the mix design is approved subject to F.D.O.T. specifications. JMF reflects aggregate changes expected during production.

Total Binder Content	<u>7.2</u> %	Gmb @ Ndes	<u>2.267</u>	
Ignition Oven Corr. Factor	<u>0.01</u>	Gmm	<u>2.362</u>	
(+ To Be Added)/(- To Be Subtracted)				
Gmm Corr. Factor	<u>-0.008</u>	Va	<u>4.0</u>	
Mixing Temp. (Plant)	<u>310</u> °F	VMA	<u>15.7</u>	Effective Date <u>8/25/2020</u>
Compaction Temp. (Roadway)	<u>305</u> °F	VFA	<u>75</u>	Expiration Date <u>8/25/2026</u>
Spread Rate @ 1"	<u>102</u> lb/yd ²	P-200/Pbe	<u>0.9</u>	
Binder from Recycled Materials	<u>1.98</u> %	Additives		
PG 58-22 to be added	<u>5.22</u> %			

Anti-strip to be added. See APL for dosage rate.

ASPHALT MIX DESIGN - SP 24-23640A (TL-C)

Owning Company Ranger Construction Industries, Inc.

Type Mix SP-9.5

Intended Use Of Mix Structural

Design Traffic Level C

Gyrations @ Ndes 75

Product	Description	Name	Production Facility	Plant/Mine	Terminal
334-CRUSHED	Crushed RAP Stockpile	1-12 (Continuous)	Ranger Construction Industries, Inc.	A0746	
C53	S1B Stone		White Rock Quarries	87339	
C51	S1B Stone		White Rock Quarries	87339	
F22	Screenings	Screenings	White Rock Quarries	87339	

PERCENTAGE BY WEIGHT TOTAL AGGREGATE PASSING SIEVES

Blend	40%	14%	10%	36%				JOB MIX FORMULA	CONTROL POINTS	PRIMARY CONTROL SIEVE
	Product	334-CRUSHED RAP	C53	C51						
SIEVE SIZE	3/4" 19.0mm	100	100	100	100			100		
	1/2" 12.5mm	100	100	100	100			100	100 -	
	3/8" 9.5mm	96	91	93	100			96	90 - 100	
	No. 4 4.75mm	76	41	48	100			77	- 89	
	No. 8 2.36mm	57	17	20	90			60	48 - 67	47
	No. 16 1.18mm	46	12	13	81			51	35 -	
	No. 30 600µm	39	8	9	70			43		
	No. 50 300µm	31	6	6	47			31		
	No. 100 150µm	18	4	4	17			14		
	No. 200 75µm	9.8	1.0	1.5	5.5			6.2	2 - 10	
	G _{sb}	2.572	2.416	2.412	2.527			2.516		

The mix properties of the Job Mix Formula have been conditionally verified, pending successful final verification during production at the assigned plant, the mix design is approved subject to F.D.O.T. specifications. JMF reflects aggregate changes expected during production.

Total Binder Content	6.6	%	Gmb @ Ndes	2.275	
Ignition Oven Corr. Factor	0.10		Gmm	2.370	
(+ To Be Added)/(- To Be Subtracted)					
Gmm Corr. Factor	-0.008		Va	4.0	
Mixing Temp.	300	°F	VMA	15.5	Effective Date <u>7/2/2024</u>
(Plant)					
Compaction Temp.	300	°F	VFA	74	Expiration Date <u>3/14/2028</u>
(Roadway)					
Spread Rate @ 1"	103	lb/yd ²	P-200/Pbe	1.2	
Binder from Recycled Materials	2.08	%	Additives		
PG 58-22 to be added	4.52	%			

Anti-strip to be added. See APL for dosage rate.
Transferred from SP 19-17211A (TL-C)



ASPHALT MIX DESIGN

SP 13-11656B

Contractor WEEKLEY ASPHALT PAVING, INC.

Mix Type SP-9.5

Intended Use Structural

Mix Texture Fine

Recycled Y

Traffic Level C

Gyrations @ Ndes 75

Sieve	Percent Passing
1"	100
3/4"	100
1/2"	100
3/8"	98
No. 4	74
No. 8	54
No. 16	43
No. 30	36
No. 50	29
No. 100	12
No. 200	4.3
Gsb	2.478

Total Binder Content 6.8

Va 4.0

Ign. Oven Corr. Factor -0.21

VMA 15.4

Gmm Corr. Factor -0.002

VFA 74

Mixing Temp. (Plant) 300 °F

P-200/Pbe 0.8

Compaction Temp. (Roadway) 300 °F

Spread Rate @ 1" 101 lb/yd²

Effective Date 3/26/2015

Gmb @ Ndes 2.250

Expiration Date 5/14/2028

Gmm 2.344

Binder Type PG 67-22

Anti - Strip (%) For dosage rate, see APL.

Anti-Strip Not applicable for FC-5 Designs Containing Lime

Special Use Instructions

Anti-strip to be added. See APL for dosage rate.
SP 13-11656A (TL-C) revised to reflect the Gmm correction factor.