



Materials Testing Laboratory
15700 E. 32nd Avenue
Aurora, Colorado 80011
(303)326-8270 Fax (303) 326-8271

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MATERIAL PRE-QUALIFICATION FOR TYPE SX75 w/ RAP APPROVED For use until

Company Name:	Martin Marietta Materials
Contact Person:	Todd Genovese (todd.genovese@martinmarietta.com)
Mailing Address:	1590 W. 12th Avenue Denver, CO 80204
Telephone No.:	303-657-4151

JOB MIX SPECIFICATION

Product Identification Code: (AS FOUND ON DELIVERY TICKET)	LOWER LIMIT	5461-18	UPPER LIMIT
Percentage of RAP		20	20
Percent Passing 1" Sieve	100	100	100
Percent Passing 3/4" Sieve	100	100	100
Percent Passing 1/2" Sieve	92	98	100
Percent Passing 3/8" Sieve	83	89	95
Percent Passing No. 4 Sieve	66	71	76
Percent Passing No. 8 Sieve	49	54	59
Percent Passing No. 16 Sieve	33	38	43
Percent Passing No. 30 Sieve	23	27	31
Percent Passing No. 50 Sieve	12	16	20
Percent Passing No. 100 Sieve	5	9.0	13
Percent Passing No. 200 Sieve (Including 1% Lime)	4.5	6.5	8.5
Asphaltic Cement Content (%)	5.1	5.4	5.7
Maximum Unit Weight (pcf)		155.9	
Aggregate Bulk Specific Gravity		2.405	
Maximum Specific Gravity, AASHTO T 209		2.499	
Total Air Voids In Mix	3.0	3.8	5.0
Voids In Mineral Aggregate (VMA)	13.7	14.9	16.4
Hveem Stability	28	38	OK
Voids Filled With Asphalt (%)	65	74.8	78
Lottman Test (AASHTO T 283)	OK	94	
Dry Tensile Strength (psi)	OK	67	
Fine Aggregate Angularity	OK	45	
Two Fractured Faces	80	93	
L. A. Abrasion	OK	23	
Flat And Elongated (Ratio 5:1)%, AASHTO M 283	OK	1.5	
Adherent Coating (Dry Sieving) ASTM D 5711	OK	0.27	
Sand Equivalent, AASHTO L 176	OK	67	
Sodium Sulfate Soundness	OK	4.1	
Asphalt Cement Type* (Greater than 15% RAP Bump)	PG58-28 Required	PG 58-28	Suncor
Additives	LIME	1%	Pete Lien



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JOB MIX SPECIFICATION

Product Identification Code: (AS FOUND ON DELIVERY TICKET)	LOWER LIMIT	5492-18	UPPER LIMIT
Percentage of RAP		20	25
Percent Passing 1" Sieve	100	100	100
Percent Passing 3/4" Sieve	93	99	100
Percent Passing 1/2" Sieve	83	89	95
Percent Passing 3/8" Sieve	73	79	85
Percent Passing No. 4 Sieve	57	62	67
Percent Passing No. 8 Sieve	43	48	53
Percent Passing No. 16 Sieve	28	33	38
Percent Passing No. 30 Sieve	20	24	28
Percent Passing No. 50 Sieve	11	15	19
Percent Passing No. 100 Sieve	4	8	12
Percent Passing No. 200 Sieve (Including 1% Lime)	4.1	6.1	8.1
Asphaltic Cement Content (%)	4.65	4.95	5.25
Maximum Unit Weight (pcf)		157.7	
Aggregate Bulk Specific Gravity		2.43	
Maximum Specific Gravity, AASHTO T 209		2.527	
Total Air Voids In Mix	3.0	3.8	5.0
Voids In Mineral Aggregate (VMA)	12.8	14	15.2
Hveem Stability	28	42	OK
Voids Filled With Asphalt (%)	65	72.7	78
Lottman Test (AASHTO T 283)	OK	103	
Dry Tensile Strength (psi)	OK	73	
Fine Aggregate Angularity	OK	46	
Two Fractured Faces	80	97	
L. A. Abrasion	OK	22	
Flat And Elongated (Ratio 5:1)%, AASHTO M 283	OK	1.8	
Adherent Coating (Dry Sieving) ASTM D 5711	OK	0.29	
Sand Equivalent, AASHTO L 176	OK	74	
Sodium Sulfate Soundness	OK	4.3	
Asphalt Cement Type* (Greater than 15% RAP Bump)		PG 58-28	SemMaterials
Additives	Lime	1%	Pete Lien



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JOB MIX SPECIFICATION

Product Identification Code: (AS FOUND ON DELIVERY TICKET)	LOWER LIMIT	5502-18	UPPER LIMIT
Percentage of RAP		0	
Percent Passing 1" Sieve	100	100	100
Percent Passing 3/4" Sieve	90	99	100
Percent Passing 1/2" Sieve	83	89	95
Percent Passing 3/8" Sieve	75	81	87
Percent Passing No. 4 Sieve	58	63	68
Percent Passing No. 8 Sieve	23	46	51
Percent Passing No. 16 Sieve	27	32	37
Percent Passing No. 30 Sieve	19	23	27
Percent Passing No. 50 Sieve	10	14	18
Percent Passing No. 100 Sieve	4	8	12
Percent Passing No. 200 Sieve (Including 1% Lime)	4	6.0	8.0
Asphaltic Cement Content (%)	4.65	4.95	5.25
Maximum Unit Weight (pcf)		157.7	
Aggregate Bulk Specific Gravity		2.434	
Maximum Specific Gravity, AASHTO T 209		2.527	
Total Air Voids In Mix	3.0	3.7	5.0
Voids In Mineral Aggregate (VMA)	12.7	13.9	15.1
Hveem Stability	28	38	OK
Voids Filled With Asphalt (%)	65	73.6	78
Lottman Test (AASHTO T 283)	OK	96	
Dry Tensile Strength (psi)	OK	83	
Fine Aggregate Angularity	OK	45	
Two Fractured Faces	80	98	
L. A. Abrasion	OK	22	
Flat And Elongated (Ration 5:1)%, AASHTO M 283	OK	2.1	
Adherent Coating (Dry Sieving) ASTM D 5711	OK	0.31	
Sand Equivalent, AASHTO L 176	OK	71	
Sodium Sulfate Soundness	OK	3.2	
Asphalt Cement Type* (Greater than 15% RAP Bump)		PG 64-22	Suncor
Additives	Lime	1%	Pete Lien



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MATERIAL PRE-QUALIFICATION FOR TYPE SG75 w/ RAP APPROVED For use until

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Telephone No.:	303-657-4151

JOB MIX SPECIFICATION

Product Identification Code: (AS FOUND ON DELIVERY TICKET)	LOWER LIMIT	5517-18	UPPER LIMIT
Percentage of RAP		20	25
Percent Passing 1" Sieve	91	97	100
Percent Passing 3/4" Sieve	82	88	94
Percent Passing 1/2" Sieve	72	78	84
Percent Passing 3/8" Sieve	64	70	76
Percent Passing No. 4 Sieve	52	57	62
Percent Passing No. 8 Sieve	39	44	49
Percent Passing No. 16 Sieve	26	31	36
Percent Passing No. 30 Sieve	18	22	26
Percent Passing No. 50 Sieve	9	13	17
Percent Passing No. 100 Sieve	3	7	11
Percent Passing No. 200 Sieve (Including 1% Lime)	3.4	5.4	7.4
Asphaltic Cement Content (%)	4.0	4.2	4.5
Maximum Unit Weight (pcf)		158.7	
Aggregate Bulk Specific Gravity		2.449	
Maximum Specific Gravity, AASHTO T 209		2.544	
Total Air Voids In Mix	3.0	3.7	5.0
Voids In Mineral Aggregate (VMA)	11.6	12.8	14
Hveem Stability	30	N/A	OK
Voids Filled With Asphalt (%)	65	70.8	78
Lottman Test (AASHTO T 283)	OK	100	
Dry Tensile Strength (psi)	OK	78	
Fine Aggregate Angularity	OK	45	
Two Fractured Faces	80	98	
L. A. Abrasion	OK	24	
Flat And Elongated (Ratio 5:1)%, AASHTO M 283	OK	2.1	
Adherent Coating (Dry Sieving) ASTM D 5711	OK	0.29	
Sand Equivalent, AASHTO L 176	OK	66	
Sodium Sulfate Soundness	OK	4.4	
Asphalt Cement Type* (Greater than 15% RAP Bump)	PG58-28 Required	PG 58-28	Suncor
Additives	LIME	1%	Pete Lien