

SECTION 801
COARSE AGGREGATE

thoroughly dried and coated with the bituminous material proposed for construction, the coating will not strip off upon contact with water.

801.11 Use, Care, and Handling: Gradation Table and Explanation.

(a) Care and Handling.

Care and handling shall be as provided by Article 106.05.

(b) Storage.

Attention is directed to the requirements of Article 106.05 and the following:

1. The Contractor shall prepare the storage area as needed; any stockpiled material that cannot be removed without including dirt or other foreign matter shall be rejected.
2. Stockpiling shall be as provided by ALDOT-175.
3. Different sizes of aggregate and aggregate from different sources shall be stored in separate stockpiles sufficiently separated from each other so that the material will not become intermixed. Any material which segregates so that the grading no longer conforms to that specified shall be rejected for use.

(c) Use.

1. At the time of their use, the aggregates shall be free from all foreign materials.
2. When more than one size of aggregate is required, the various sizes shall be combined in proper proportions at the mixer or plant.
3. Aggregates stored in proportioning bins shall be protected from rain by waterproof coverings.

(d) Coarse Aggregate Gradation Table.

TABLE OF ALDOT COARSE AGGREGATE SIZES *																
PERCENT PASSING BY WEIGHT {MASS}, EACH LABORATORY SIEVE (U.S.A. STANDARD SERIES)																
Size > Number	4 inch {100 mm}	3.5 inch {90 mm}	3 inch {75 mm}	2.5 inch {63 mm}	2 inch {50 mm}	1.5 inch {37.5 mm}	1 inch {25.0 mm}	3/4 inch {19.0 mm}	1/2 inch {12.5 mm}	3/8 inch {9.5 mm}	# 4 {4.75 mm}	# 8 {2.36 mm}	# 16 {1.18 mm}	# 50 {300 µm}	# 100 {150 µm}	# 200 {75 µm}
1	100	90-100		25-60		0-15		0-5								
2			100	90-100	35-70	0-15		0-5								
24			100	90-100		25-60		0-10	0-5							
3				100	90-100	35-70	0-15		0-5							
357				100	95-100		35-70		10-30		0-5					
4					100	90-100	20-55	0-15		0-5						
467					100	95-100		35-70		10-30	0-5					
410					100	85-100	60-85		30-60		18-30	11-20	8-15	5-9		2-6
5						100	90-100	20-55	0-10	0-5						
56						100	90-100	40-85	10-40	0-15	0-5					
57						100	95-100		25-60		0-10	0-5				
6							100	90-100	20-55	0-15	0-5					
67							100	90-100		20-55	0-10	0-5				
68							100	90-100		30-65	5-25	0-10	0-5			
610							100	90-100		25-60		7-30		0-15		
7								100	90-100	40-70	0-15	0-5				
78								100	90-100	40-75	5-25	0-10	0-5			
710								100	90-100	50-85		12-35		0-15		
8									100	85-100	10-30	0-10	0-5			
89									100	90-100	20-55	5-30	0-10	0-5		
810									100		70-90	50-74	38-62	20-42		9-24
8910									100	90-100	60-85	40-70		10-25		1-5
9										100	85-100	10-40	0-10	0-5		
10										100	85-100				10-30	

* Explanation of Table

1. Tabulated figures are percentages by weight {mass} of material finer than each laboratory sieve.
2. Exclusive of lightweight aggregates, the minimum dry rodded weight per cubic foot {mass per cubic meter} shall be 65 pounds {1040 kg} for Sizes 1, 3, and 4, and 70 pounds {1120 kg} for other sizes. See Article 801.12 for weight {mass} of lightweight aggregate.

The following coarse aggregate (gravel only) gradation may be substituted for use in concrete headwalls, inlets, miscellaneous concrete units, slope paving, machine laid curbs, gutters, or combination curbs and gutters: