



INDOT AGGREGATE SPECIFICATIONS 2023

COARSE AGGREGATE SIZES (PERCENT PASSING)											
Sieve Sizes	COARSE GRADED									DENSE GRADED	
	2	5	8	9	11	12	43 ⁽¹⁾	91	93PG ⁽⁵⁾	53 ⁽¹⁾	73 ⁽¹⁾
4 in. (100 mm)											
3 1/2 in. (90 mm)											
2 1/2 in. (63 mm)	100										
2 in. (50 mm)	80 - 100										
1 1/2 in. (37.5 mm)		100					100			100	
1 in. (25 mm)	0 - 25	85 - 98	100				70 - 90	100		80 - 100	100
3/4 in. (19 mm)	0 - 10	60 - 85	75 - 95	100			50 - 70			70 - 90	90 - 100
1/2 in. (12.5 mm)	0 - 7	30 - 60	40 - 70	60 - 85	100	100	35 - 50		98 - 100	55 - 80	60 - 90
3/8 in. (9.5 mm)		15 - 45	20 - 50	30 - 60	75 - 95	95 - 100			75 - 100		
No. 4 (4.75 mm)		0 - 15	0 - 15	0 - 15	10 - 30	50 - 80	20 - 40		10 - 60	35 - 60	35 - 60
No. 8 (2.36 mm)		0 - 10	0 - 10	0 - 10	0 - 10	0 - 35	15 - 35		0 - 15	25 - 50	
No. 30 (600 μm)						0 - 4	5 - 20		0 - 5	12 - 30	12 - 30
No. 200 (75 μm) ⁽²⁾							0 - 6.0			5.0 - 13.0 ⁽⁴⁾	5.0 - 12.0
Decant (PCC) ⁽³⁾		0 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5	0 - 1.5			0 - 1.5		
Decant (Non-PCC)	0 - 2.5	0 - 2.5	0 - 3.0	0 - 2.5	0 - 2.5	0 - 2.0			0 - 2.5	0 - 2.0	

Notes: 1. The liquid limit shall not exceed 25 (35 if slag) and the plasticity index shall not exceed 5. The liquid limit shall be determined in accordance with AASHTO T 89 and the plasticity index in accordance with AASHTO T 90.
 2. Includes the total amount passing the No. 200 (75 μm) sieve as determined by AASHTOs T 11 and T 27.
 3. Decant may be 0 - 2.5 for stone and slag.
 4. When slag is used for separation layers as defined in 302.01, the total amount passing the No. 200 (75 μm) sieve shall be 10.0 to 12.0.
 5. Pea gravel shall be generally uncrushed gravel, with a maximum of 20% crushed particles, and shall meet the gradation requirements of 93PG. Determination of crushed particles shall be made from the weight (mass) of material retained on the No. 4 (4.75 mm) sieve in accordance with ASTM D5821.

FINE AGGREGATES						
Sieve Sizes	SIZES (PERCENT PASSING)					
	23	24	15	16	PP	S&I
3/8 in. (9.5 mm)	100	100				100
No. 4 (4.75 mm)	95 - 100	95 - 100			100	
No. 6 (3.35 mm)			100			
No. 8 (2.36 mm)	80 - 100	70 - 100	90 - 100		85 - 95	
No. 16 (1.18 mm)	50 - 85	40 - 80				
No. 30 (600 μm)	25 - 60	20 - 60	50 - 75	100	50 - 65	
No. 50 (300 μm)	5 - 30	7 - 40	15 - 40		15 - 25	0 - 30
No. 80 (180 μm)				95 - 100		
No. 100 (150 μm)	0 - 10	1 - 20	0 - 10		0 - 10	
No. 200 (75 μm)	0 - 3	0 - 6	0 - 3	65 - 100		0 - 7

SEAL COAT AGGREGATES			
Sieve Sizes	PERCENT PASSING		
	SC 11	SC 12	SC 16
1/2 in. (12.5 mm)	100	100	100
3/8 in. (9.5 mm)	75 - 95	95 - 100	94 - 100
No. 4 (4.75 mm)	10 - 30	50 - 80	15 - 45
No. 8 (2.36 mm)	0 - 10	0 - 35	
No. 16 (1.18 mm)			0 - 4
No. 30 (600 μm)		0 - 4	
Decant	0 - 1.5	0 - 1.5	0 - 1.5

The material shall be 85% single-face crushed, and 80% two-faced crushed. The Flakiness Index in accordance with ITM 224 shall be a maximum of 25%.

STRUCTURE BACKFILL						
Sieve Sizes	NOMINAL SIZES AND PERCENT PASSING					
	2 in.	1 1/2 in.	1 in.	1/2 in.	No. 4	No. 30
2 1/2 in. (63 mm)	100					
2 in. (50 mm)	90 - 100	100				
1 1/2 in. (37.5 mm)	70 - 100	90 - 100	100	100		
1 in. (25.0 mm)	55 - 95	70 - 100	85 - 100			
3/4 in. (19.0 mm)	45 - 90	55 - 95	70 - 100			
1/2 in. (12.5 mm)	35 - 85	40 - 90	55 - 95	85 - 100	100	100
No. 4 (4.75 mm)	20 - 65	20 - 70	25 - 75	45 - 85	90 - 100	
No. 8 (2.36 mm)	10 - 50	10 - 55	15 - 60	25 - 75	75 - 100	
No. 30 (600 μm)	3 - 35	3 - 35	3 - 35	5 - 45	15 - 70	70 - 100
No. 200 (75 μm)	0 - 8	0 - 8	0 - 8	0 - 8	0 - 8	0 - 8

RIPRAP					
GRADATION REQUIREMENTS					
Percent Smaller					
Size, in.	Revetment	Class 1	Class 2	Uniform A	Uniform B
30			100		
24		100	85 - 100		
18	100	85 - 100	60 - 80		
12	90 - 100	35 - 50	20 - 40		
8				100	
6	20 - 40	10 - 30	0 - 20	35 - 80	95 - 100
3	0 - 10	0 - 10	0 - 10		35 - 80
1				0 - 20	0 - 20
Depth of Riprap, minimum	18 in.	24 in.	30 in.	--	--