

Material and Application Guide

Pea Gravel – AAOM Ray Road



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Material: Natural Gravel

Product: Pea Gravel – Commercial

Location: American Aggregate, Ray Road Plant

Applications: Pipe bedding material
Filter gravel in septic fields
Decorative stone for landscaping

Description: An open graded coarse aggregate, produced by washing and screening natural gravel. The particles are sized from 1/2" (12.5mm) to #8 mesh (2.36mm) and were formed by the natural disintegration of numerous types and colors of rocks by glacial or riverbed action into primarily round particles.



Pea Gravel – Actual size shown

Material Properties: Commercial

Pea Gravel is produced to commercial requirements

Gradation:

U.S. Sieve	1/2"	3/8"	#4	#8	LBW	Crushed Material
Metric Sieve	12.5mm	9.5mm	4.75mm	2.36mm		
MDOT 34R Specification	100	90-100	-	0-5	0-3.0	< 20 (1 Face)
2008 Average	100	96	12	2	1.0	13

Physical Properties:

- ASTM C 29, Loose Unit Weight (2008 Average) – 100 lb/ft³
- ASTM C 29, Rodded Unit Weight (2008 Average) – 108 lb/ft³
- ASTM C 127, Bulk Specific Gravity Dry (2008 Average) – 2.62
- ASTM C 127, Bulk Specific Gravity SSD (2008 Average) – 2.66
- ASTM C 127, Absorption (2008 Average) – 1.5%
- ASTM C 142, Clay Lumps and Friable Particles in Aggregate – 0.2%
- ASTM C 123, Light Weight Particles (Coal and Lignite) In Aggregate – 0.8%
- ASTM C 88, Soundness of Aggregate by Use of Magnesium Sulfate – 3% loss

General Usage Guide:

The Pea Gravel should be placed into the prepared area as shown in the design plans.

Field Estimating Quantities – Pipe Bedding Material (In Place):

	10 sq. yd.	20 sq. yd.	50 sq. yd.	100 sq. yd.	200 sq. yd.	500 sq. yd.	1,000 sq. yd.
6" Deep	2 tons	4 tons	11 tons	22 tons	43 tons	108 tons	217 tons
8" Deep	3 tons	6 tons	14 tons	29 tons	58 tons	144 tons	289 tons
10" Deep	4 tons	7 tons	18 tons	36 tons	72 tons	181 tons	361 tons
12" Deep	5 tons	9 tons	22 tons	43 tons	87 tons	217 tons	433 tons
18" Deep	7 tons	13 tons	33 tons	65 tons	130 tons	325 tons	650 tons

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