

# Material and Application Guide

## Pea Gravel – Buno Road



**EDW. C. LEVY CO.**

8800 Dix Avenue, Detroit, Michigan 48209

Phone (313) 429-LEVY

Fax (313) 429-2448

e-mail [sales@edwclevy.net](mailto:sales@edwclevy.net)

<http://www.edwclevy.com>

**Material:** Natural Gravel

**Product:** Pea Gravel – Commercial

**Location:** American Aggregate, Buno 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	½"	¾"	#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	<b>100</b>	<b>96</b>	<b>3</b>	<b>1</b>	<b>0.3</b>	<b>18</b>

**Physical Properties:**

- ASTM C 29, Loose Unit Weight (2008 Average) – 97 lb/ft<sup>3</sup>
  - ASTM C 29, Rodded Unit Weight (2008 Average) – 104 lb/ft<sup>3</sup>
  - 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%
  - MTM 110, Soft Particles (2008 Average) – 1.1%
  - MTM 110, Clay-Ironstone Particles (2008 Average) – 0.5%
  - MTM 110, Chert Particles (2008 Average) – 2.2%
  - MTM 110, Sum of Soft Particles and Chert (2008 Average) – 3.8%
  - ASTM C 142, Clay Lumps and Friable Particles in Aggregate – 0.2%
  - ASTM C 123, Light Weight Particles (Coal and Lignite) In Aggregate – 0.1%
- ASTM C 88, Soundness of Aggregate by Use of Magnesium Sulfate – 5% 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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