

# Material and Application Guide

## 3/8X#4 Blast Furnace Slag



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**Material:** Blast Furnace Slag

**Product:** 3/8X#4 – Commercial (Edw. C. Levy Co.)

**Location:** Levy Plant #1 – State Pit #82-19 and Levy #2 - State Pit #82-20

**Applications:** Coarse aggregate for asphaltic concrete

**Description:** An intermediate sized coarse aggregate, produced by crushing and screening air-cooled iron Blast Furnace Slag. A light brown to gray crystalline aggregate, formed simultaneously with the production of iron in a blast furnace. The particles are sized from 3/8" (9.5mm) to #8 mesh (2.36mm).



**3/8X#4 Blast Furnace Slag – Actual size shown**

**Specifications:** Commercial (Edw. C. Levy Co.)

3/8X#4 Blast Furnace Slag conforms to all the requirements of the Edw. C. Levy Co. specifications for 3/8X#4 Blast Furnace Slag

**Gradation:**

U.S. Sieve	1/2"	3/8"	#4	#8	LBW
Metric Sieve	12.5mm	9.5mm	4.75mm	2.36mm	
Specification	100	90-100	-	-	-
Avg. Gradation	<b>100</b>	<b>98</b>	<b>30</b>	<b>9</b>	<b>1.8</b>

**Physical Properties:**

- ASTM C 29, Loose Unit Weight – 78 lb/ft<sup>3</sup>
- ASTM C 29, Rodded Unit Weight – 86 lb/ft<sup>3</sup>
- ASTM C 127, Bulk Specific Gravity Dry – 2.443
- ASTM C 127, Bulk Specific Gravity SSD – 2.515
- ASTM C 127, Absorption – 3.8%
- ASTM C 88, Soundness of Aggregate by Use of Sodium Sulfate – 1% loss
- MTM 111, Aggregate Wear Index (AWI) – 392

**General Usage Guide:**

The 3/8X#4 Blast Furnace Slag should be blended into the hot mix asphalt mixture along with other coarse and fine aggregates, asphalt cement and any other special additives in the proportions detailed in the mix design.