

# Material and Application Guide

## 3/8X#4 Blast Furnace Slag – Levy Plant #1



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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
- 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	-	-	-
2008 Average	<b>100</b>	<b>100</b>	<b>29</b>	<b>6</b>	<b>1.4</b>

**Physical Properties:**

- ASTM C 29, Loose Unit Weight (2008 Average) – 78 lb/ft<sup>3</sup>
- ASTM C 29, Rodded Unit Weight (2008 Average) – 86 lb/ft<sup>3</sup>
- ASTM C 127, Bulk Specific Gravity Dry (2008 Average) – 2.44
- ASTM C 127, Bulk Specific Gravity SSD (2008 Average) – 2.51
- ASTM C 127, Absorption (2008 Average) – 2.6%
- ASTM C 88, Soundness of Aggregate by Use of Magnesium Sulfate – 1% loss
- MTM 111, Aggregate Wear Index (AWI) – 379 (MDOT 2001)

**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.