

Material and Application Guide

Intermediate Agg Blast Furnace Slag – Levy Plant #1



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- Material:** Blast Furnace Slag
- Product:** Intermediate Agg – Commercial (Edw. C. Levy Co.)
- Location:** Levy Plant #1 – State Pit #82-19
- Applications:** Coarse aggregate in portland cement concrete
Coarse aggregate in portland cement concrete pavements
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 ½" (12.5mm) to #8 mesh (2.36mm).



Intermediate Agg Blast Furnace Slag – Actual size shown

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

Intermediate Agg Blast Furnace Slag conforms to all the requirements of the Edw. C. Levy Co. specifications for Intermediate Agg 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	100	100	28	7	1.5

Physical Properties:

- Shipping Moisture (2008 Average) – 4.2%
- MTM 115, Freeze-Thaw Dilation – 0.001% (Value for 6AA, tested 2007)
- ASTM C 29, Loose Unit Weight (2008 Average) – 78 lb/ft³
- ASTM C 29, Rodded Unit Weight (2008 Average) – 86 lb/ft³
- 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 Intermediate Agg Blast Furnace Slag should be blended into the concrete mixture along with the cement, coarse aggregate, fine aggregate, water, admixtures and any special additives in the proportions detailed in the mix design. Care needs to be taken to maintain the moisture content of the Intermediate Agg Blast Furnace Slag at or above the absorption level (3.2%) so as to prevent the absorption of mix water into the Blast Furnace Slag particles.