

Material and Application Guide

30A Blast Furnace Slag



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Material: Blast Furnace Slag

Product: 30A – Commercial (Levy)

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

Applications: Structural base under interlocking paving units
Surfacing for unpaved paths and driveways
Surfacing for playing fields
Structural fill

Description: A fine 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 $\frac{3}{8}$ " (9.5mm) to zero (dust).



30A Blast Furnace Slag – Actual size shown

Specifications: Commercial (Levy)

30A Blast Furnace Slag conforms to all the requirements of the Edw. C. Levy Co. specifications for 30A Blast Furnace Slag

Gradation:

U.S. Sieve	¾"	#4	#8	#16	#30	#50	#100	#200	LBW
Metric Sieve	9.5mm	4.75mm	2.36mm	1.18mm	600µm	300µm	150µm	75µm	
Specification	100	95-100	70-95	45-75	25-55	15-35	0-20	-	0-10
Avg. Gradation	100	100	82	57	37	23	13	8	7

Physical Properties:

- Fineness Modulus, F.M.– 2.89
- Shipping Moisture – 3.9%
- ASTM C 29, Loose Unit Weight– 97 lb/ft³
- ASTM C 29, Rodded Unit Weight– 107 lb/ft³
- ASTM C 128, Bulk Specific Gravity Dry– 2.68
- ASTM C 128, Bulk Specific Gravity SSD– 2.74
- ASTM C 128, Absorption– 2.1%
- ASTM C 1252, Uncompacted Void Content, Method A – 49.5%
- MTM 118, Angularity Index of Fine Aggregates – 5.5

General Usage Guide:

The 30A Blast Furnace Slag should be placed 4" to 12" thick depending upon ground conditions and design loadings, in lifts not exceeding 8". Prior to the placement of any base material, the grade should be compacted and trimmed to the design density & elevations and be free of any standing water and not in a frozen condition. Base material should be compacted at optimum moisture content (approximately 8% to 10%) to 95% to 100% relative density or to the compaction level as specified in the design plans.

Field Estimating Quantities (Compacted in Place):

	100 sq. yd.	200 sq. yd.	500 sq. yd.	1,000 sq. yd.	2,000 sq. yd.	5,000 sq. yd.
4" Deep	18 tons	36 tons	89 tons	178 tons	356 tons	889 tons
6" Deep	27 tons	53 tons	133 tons	267 tons	533 tons	1,333 tons
8" Deep	36 tons	71 tons	178 tons	356 tons	711 tons	1,778 tons
10" Deep	44 tons	89 tons	222 tons	444 tons	889 tons	2,222 tons

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