

## Product Properties

### Blending

Norlite block mix is a controlled varying combination of 3/8" and fine (3/16" - 0) aggregates. These aggregates should be stored in separate silos equipped with calibrated feeders for the specific purpose of providing aggregate blends compatible with available natural sand to produce a desired block texture.

### Typical Sieve Analysis 88/12 Block Mix

Sieve No.	Percent Retained (Cumulative)	Percent Passing	ASTM C 330
1/2	0		100
3/8	0		90-100
4	13.8	86.2	65-90
8	35.4	64.6	35-65
16	57.9	42.1	-
30	75.4	24.6	-
50	85.5	14.5	10-25
100	91	9	5-15

### Block Weight vs. Density

The density of a masonry unit can be the determining factor of fire resistance, labor productivity, acoustical properties and energy efficiency.

Various correlations have been made between the density and resistance values of masonry. However, there is some confusion between the density of a masonry unit and the weight of the unit.

The following chart contains a convenient method of estimating the density of various masonry units given the oven dry weight of the unit.

APPROXIMATE OVEN DRY WEIGHT OF BLOCK WHEN DENSITY IS:						
HOLLOW UNIT		LIGHTWEIGHT		MEDIUM WEIGHT		
NUMBER OF CORES		80 #/ cu.ft.	85 #/ cu.ft.	95#/ cu.ft.	105#/ cu.ft.	115 #/ cu.ft.
6x8x16	2 Core	18	19	21	23	25.5
8x8x16	2 Core	22.3	23.5	26.5	29.0	32
10x8x16	2 Core	27.5	29	32	35.5	39
12x8x16	2 Core	31.8	33.5	37.5	41.5	45
APPROXIMATE BATCH WEIGHTS FOR ABOVE DENSITIES ASTM C-90 LOAD BEARING - 50 FT3 BATCHES						
Cement	450	450	450	450	450	
Norlite	2600	2400	2000	1700	1000	
Sand		700	1425	2100	3000	
Yield - 8 Block "	136	150	146	144	140	
Dry Weight	22.4	23.5	26.5	29	32	