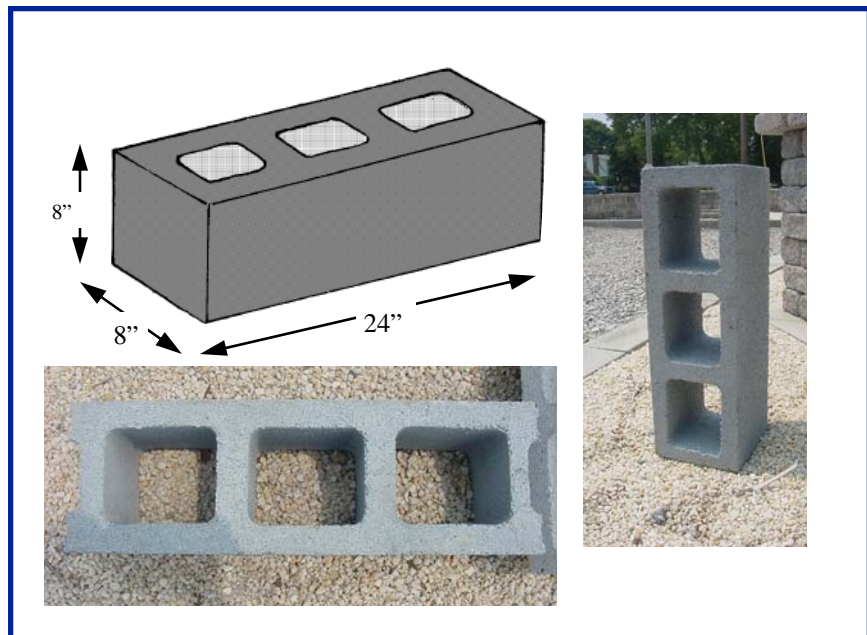


8x8x24

Lightweight Concrete Block

Cost effective CMU

- Fewer block required per wall increases productivity
- Competitive pricing on a per sq. ft basis
- ASTM C-90 compliant
- Increased fire rating of 2 hours plus
- Lightweight aggregate and more cells (including "hand holds") makes handling easier for masons



York Building Product's 8x8x24 Lightweight CMU is a popular choice for foundation walls as well as a block wall back up providing the stability and performance you would typically expect from a concrete masonry unit. With a net compressive strength average of about 2600 p.s.i., concrete masonry units of this size have been tested successfully in "hurricane susceptible states" as well as "tornado alley" and have been found to be the building material of choice to protect against greater destruction and lost dollars during these unforeseen natural disasters.

In areas where these types of disasters are not typical—concrete masonry units are relied on for their fire resistance as well as structural integrity making them a perfect choice for dormitories, housing projects, flex space buildings, warehouses and other types of multi-functional buildings requiring tall, thin wall construction. The 8x8x24 unit is both reliable and cost effective.

In addition to the ease of handling, the 8 x 8 x 24 unit gains additional performance qualities in the utilization of masonry grout through three-cells as opposed to two-cell units. Grout not only increases the structural integrity of the block but also increases the fire rating, acoustical performance, thermal storage capacity, reinforcing capabilities and resistance to insects, blasts and tremors. The three-cell block also allows for closer spacing of reinforcing steel to 8" on center rather than 12" on center.

The grouted cores bond the steel reinforcing bars to the masonry creating a single load resistance system that also provides a greater cross sectional area of masonry, and allows for higher compressive shear loads and lateral loads.

Grouted masonry is typically reinforced to assist in design economy although it is not a necessity. The added strength of the grouted 8 x 8 x 24 unit is compounded by a thicker face shell that minimizes the possible distortion of the unit that might occur during manufacturing and curing.

The following information represents recent test results performed on the 8 x 8 x 24 unit.

RE: 8"x 8"x 24" - 3 Core (Lightweight) Typical Test Results

<u>Unit No.</u>	<u>Absorption (Percent)</u>	<u>Absorption (Lbs./Ft.³)</u>	<u>Density (Lbs./Ft.³)</u>	<u>Unit No.</u>	<u>Gross Compressive Strength (P.S.I.)</u>	<u>Net Compressive Strength P.S.I.</u>
1	11.24	12.44	110.64	4	1310	2630
2	11.15	12.42	111.34	5	1290	2580
3	<u>10.71</u>	<u>12.02</u>	<u>112.27</u>	6	<u>1400</u>	<u>2790</u>
Avg.	<u>11.03</u>	<u>12.29</u>	<u>111.42</u>	Avg.	<u>1330</u>	<u>2670</u>

Tested in accordance with A.S.T.M. Method of Test Designation C140 for Compressive Strength, Absorption, Density, and National Concrete Masonry Association TEK 7-1A for Estimated Fire Resistance Rating.

Avg. Gross Area = 178.9 sq. in.
 Avg. Net Area = 89.3 sq. in. (49.93% of gross)
 Equivalent Thickness = 3.7697 inches
 Type of Aggregate = Lightweight
 Estimated Fire Rating = 2 hours – 13 minutes
 Face Shell Thickness = 1.27 inches
 Web Thickness = 0.90 inches

These units meet or exceed requirements for Compressive Strength & Absorption outlined in A.S.T.M. Specifications C-90-03