

July 22, 2010

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Please find enclosed a copy of a test report that we performed at your request on the following product that you supplied:

8 x 8 x 16 Inch Concrete Masonry Unit
Lightweight

NCMA Job Number: 10-320-4A

We are pleased to report that the tested properties from this report comply with the applicable requirements of ASTM C 90-09, Standard Specification for Loadbearing Concrete Masonry Units.

The attached report includes the tested compressive strength of the concrete masonry unit. The compressive strength of masonry constructed using these units can be calculated using the Unit Strength Method as outlined in Section 1.4.B.2.b of Specification for Masonry Structures (TMS 602-08 / ACI 530.1-08 / ASCE 6-08). In accordance with this method, the compressive strength of masonry is a function of unit strength and mortar type. As shown in the attached test report...

Net Area Compressive Strength of
8 x 8 x 16 Inch Concrete Masonry Unit
Lightweight 5310 psi

Therefore, the net area compressive strength of masonry when these units are used, can be considered to be the following:

<u>When used with:</u>	<u>Net Area Compressive Strength of Masonry</u>
Type M or S mortar	3000 psi
Type N mortar	3000 psi

The values provided above can be compared directly to the specified compressive strength of masonry, f'_m . If these values exceed f'_m , compliance has been documented.

The Unit Strength Method is acknowledged to be a conservative method for determining compliance with the specified compressive strength of masonry. A second method, the Prism Test Method can also be used. The results from the Prism Test Method will likely not be the same as the results of the Unit Strength Method above, and a higher compressive strength of masonry value will usually be obtained from the Prism Test Method.

Sincerely,



Nicholas R. Lang
Manager, Research & Development Laboratory