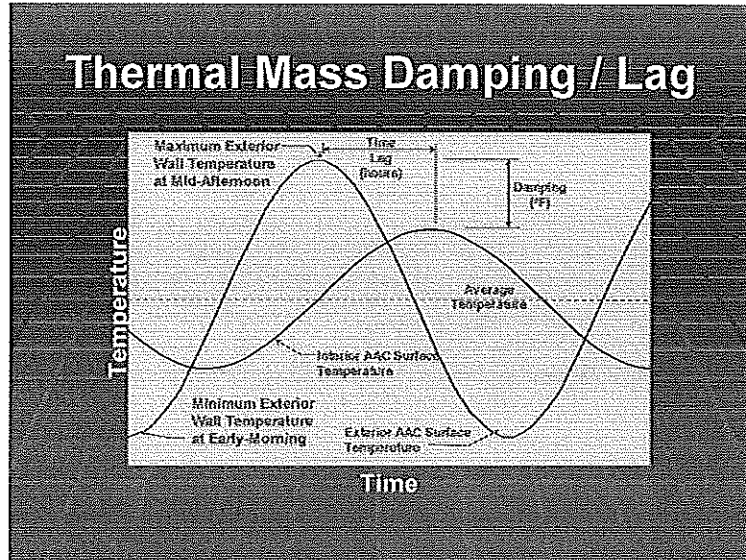


## Credit 7.1 – Thermal Comfort

The thermal efficiency, thermal lag, breathability, and low equilibrium moisture content of AERCON products make them an ideal selection for the building envelope. Having AERCON walls and a roof can be a substantial asset in attaining the temperature and humidity comfort ranges to satisfy this Credit requirement.



A study was performed by the Florida Solar Energy Center using the Florida Energy Code to compare conventional construction with AERCON construction. The results, shown in Attachment 1, indicate the significant energy efficiency that can be realized when using AERCON building products. Having an enhanced building envelope allows for smaller HVAC equipment, which in turn means lower energy usage for the life of the structure. Considering the decades of longevity of AAC structures, the total life cycle savings for an AAC building can be tremendous.

### Credit 5.1 Local / Regional Materials

AERCON's plant is located in central Florida, conveniently located to major roads and interstate highways. The 500 mile criterion encompasses the entire state of Florida, most of Georgia, most of South Carolina, and about 1/3 of Alabama. This geographic region is based on actual driving mileage. If the 500 mile radius criterion is considered as air miles, the geographic region would include all of Florida, Georgia, South Carolina, Alabama; about 60% of North Carolina; about 40% of Tennessee; about 50% of Mississippi, and a small portion of Louisiana. See Attachment 2 for a visual reference of these areas.

Major metropolitan areas include Tampa, St Petersburg, Orlando, Miami, Tallahassee, Pensacola, and Jacksonville in Florida; Atlanta, Macon, Savannah in Georgia; Columbia and Charleston in South Carolina; and Montgomery, Alabama in the 500 mile driving region.

### Credit 5.2 Local / Regional Materials

Dry raw materials used in the manufacturing of AERCON are (by weight):

- 70-75% sand – mined within 15 miles of AERCON's plant
- 10-15% cement – manufactured approx 110 miles from AERCON's plant
- lime – from eastern Tennessee
- anhydrite – from Norfolk, VA
- slag – from central Florida

Water is also added to create a slurry, and a very small dosage of aluminum powder is used as the catalyst for the aeration process. Attachment 3 indicates the geographic area that is within 500 miles of any raw materials that AERCON uses in its production process. Any projects in South Carolina, most of North Carolina and Georgia, and eastern Tennessee would satisfy the distance requirement with respect to AERCON products.