

[REDACTED]

From: Norbert Lechner [REDACTED]
Sent: Saturday, August 10, 2013 10:38 PM
To: windows@energystar.gov
Subject: SHGC on windows
Attachments: heating energy for commercial buildings in US regions.jpg; Bio outline 12 June 2013.doc

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Dear Sir or Madam,

I would like to strongly urge you to modify Table 1 to allow passive solar in all regions of the United States. I have lived and taught architecture in Auburn, Alabama for over 33 years, and passive solar makes sense there.

Research has shown that people living in a belt passing through Atlanta spend as much money for heating as for cooling. It is a myth that the south does not need heating.

Attached is a page from **Table E2 Major Fuel Consumption Intensities by end Use for Non-Mall [Commercial] Buildings**. The table was produced by EIA, 2003 commercial Buildings Energy Consumption Survey: energy End-Use consumption tables. It shows that even commercial buildings which need less heating than houses have significant heating loads in almost all parts of the nation.

I recommend that you add another column to **Table 1** for windows facing south or 20 degrees from south. Such windows should have the highest possible SHGC, but only if they are shaded in the summer. The best shading is exterior but effective indoor shading can also make these windows high performing year round.

I have also attached a short bio to give my recommendation credibility.

Please do not hesitate to contact me, if I can be of further help.

Sincerely,
Norbert

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