

HR
HR Engineering, Inc.427 Kings Mill Road
York, PA 17403

28 September 2005

Alan F. Hoying, Technical and Codes Engineer
Alcoa Home Exteriors
2600 Campbell Road
Sidney, Ohio 45365-0132

RE: Ventura Vinyl Soffit, 10", FBC 2004

Dear Alan;

The following Alcoa vinyl soffit product; Ventura, with 10" exposure, has been tested at Architectural Testing as reported in 01-32009.01 and ATI-19585-1, and analyzed in conformance with ASTM D 3679 as required by Florida Building Code 2004, paragraph 1404.9. There are two configurations for this product; triple 3-1/3" solid with product code number HVS10N, and triple 3-1/3" hidden vent with product code HVS10V. The material thickness must be a minimum of 0.044".

The allowable design wind pressures for this product, with nails, in the following eave widths are; 12" wide +/- 61.2 psf, 15" wide +/- 47.0 psf, 18" wide +/- 38.2 psf, 21" wide +/- 32.2 psf, and 24" wide +/- 27.8 psf. The allowable design wind pressures for this product, with staples, in the following eave widths are; 12" wide +/- 220 psf, 15" wide +/- 169 psf, 18" wide +/- 137 psf, 21" wide +/- 115.6 psf, 24" wide +/- 99.8 psf. Installation is with an "F" channel at the wall and with a fastener through each nail hem into the fascia board at the outside end. Nails are galvanized steel 1-1/2" long roofing nails with 1/8" diameter shanks and 3/8" diameter heads. Staples are 0.062" diameter (16 gage) with 1-1/2" long legs. These pressures were determined by comparative analyses.

There is no separate allowable design wind pressure requirement in the Florida Building Code 2004 for soffits. I trust that this information is sufficient for your needs. If there are any questions about this, please contact me.

Sincerely yours;

Allen N. Reeves
Allen N. Reeves, P.E.
Chief Engineer
28 SEPTEMBER 2005
ANR:anr
Cc: 05090009

