



Architectural Testing

11 November 2002

Mr. Marsh Fernbaugh, Director of Testing
Alside, Window Company
3773 State Road
Akron, Ohio 44309-1365

RE: Masonry Installation of 0301, S301, E301 Double Hung Window, 3' 8" by 5' 0"

Dear Mr. Fernbaugh:

At your request, I have performed an installation fastener analyses into masonry block walls for Alside double hung windows, Model 0301, S301, E301. The testing of the actual windows was done under ATI project 05-30323.04. The fastener analyses provides a 3' 8" wide by 5' 0" high window with an allowable installation design wind pressure (D.P.) of +/- 35.0 psf.

To provide this D.P. in a masonry block wall requires 6 Tapcons, each 3/16" in diameter. There should be 3 Tapcons through each window jamb frame, one near the top, one at the midheight, and one near the bottom. The Tapcons should go through a 1" thick wood buck (shim), and there must be a minimum embedment of the Tapcons into solid masonry of 1-1/4".

These results are appropriate for the size window stated in the first paragraph above, and any size smaller. If there are any questions about this analyses, please advise me.

Sincerely yours,

ARCHITECTURAL TESTING, INC.

Allen N. Reeves, P.E.

Director – Engineering Services

11 NOVEMBER 2002

ANR:anr
cc: 01-41462.02