Aldo F. Colandrea, Ph.D., P.E.
13710 Reeck Rd., Southgate MI, 48195
734-324-2924W, 734-735-3915C

Job
Page Date 3/17/11

DESIGN CALCULATIONS

FOR

Safe Wind Loads on Sign Bases
Ideal Shield Company
2525 Clark Street, Detroit MI, 48209

BY

Aldo F. Colandrea P.E.

3/17/11

Summary

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Safe wind speeds for sign bases with various fill materials

	cement	sand	water
12x18	110	100	80
18x18	95	85	70
24x24	75	65	55

Assumption:

1) All dimensions are taken from Ideal Shield drawing dated 11/1/06 for sign base.
2) Wind speeds are based on ASCE7-05 building code requirements.
3) A minimum factor of safety of 1.40 is used throughout.
4) Signs are placed at grade level.