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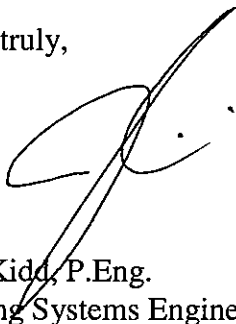
AIR TIGHTNESS TESTING

I was pleased to undertake a blower door test today on the building EMSIPS had constructed near the intersection of Hwy's 6 and 236. The test was conducted on the building "as operated". Wind was calm, the exterior temperature was approximately -8C and the interior 22C during the test. The test rig was manufactured by Minneapolis Blower Door, and testing was in substantial accord with the manufacturer's recommended test procedure for depressurization only. A "D" ring was required.

Multipoint data was obtained and the resulting values of C and n were found to be 9.172 and 0.586 respectively (temperature corrected). This results in leakage at 50 pascal of 91 CFM. Based on the dimensions provided by EMSIPS, the house volume was 10800 ft³. This results in an ACH50 of 0.50.

The national average was recently sampled at over 3 ACH50, the average new Manitoba house averages just over 2 ACH50. Power Smart Gold and R2000 both require an ACH50 of 1.5 or less. The Passive House standard requires 0.6 ACH50 or less. 0.5 is impressive.

Yours truly,



Peter Kidd, P.Eng.
Building Systems Engineer

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