

Personal contact details and Professional summary	
Name	Mr Douglas Weir MEng CEng (Chartered Engineer)
Address	Malone O'Regan 2B Richview Office Park Clonskeagh Dublin 14
Contact details	Landline telephone: +353 1 2602655 Mobile phone: +353 86 0214197 Email: dweir@morce.ie Website (optional): www.maloneoregan.ie
Qualifications	Master of Engineering degree (1 st Class Honours) from The University of Durham. Awarded title of Chartered Engineer by Engineers Ireland.
Career history	I have over 10 years professional experience working for both international and domestic engineering consultancy firms. I have been involved in the design and project management of various major structural engineering projects including residential, commercial, educational and industrial developments. Since 2007 I have been heavily involved in the assessment of structures, roads and footpaths which have been damaged by pyritic heave.
Relevant project experience	<p>Residential Scheme, Mulhuddart Senior engineer responsible for the inspection and certification of 148 houses and ground floor apartments within a social and affordable housing scheme in Mulhuddart, Co. Dublin. Severe cracking, attributable to pyritic heave, was observed in a significant number of these properties. Organised testing of hardcore material recovered from underneath ground floor slabs. Liaised with Client, homeowners and Contractors responsible for original construction.</p> <p>Residential Development, Finglas Responsible for assessing and reporting on a number of large cracks which had formed within footpaths and boundary walls in a housing estate in north Dublin. Organised testing of hardcore material to prove the existence of pyrite. Liaised with Contractor to arrange for repairs.</p> <p>Structural Assessment Leixlip, Co. Kildare Completed a building condition survey for 3 no. houses within a housing development in Leixlip, Co. Kildare where homeowners had reported cracking within the walls and water ingress around windows. Pyrite was suspected as a possible cause.</p>

Specific areas of expertise

Identification of the symptoms of pyritic heave and completion of Building Condition Assessment Reports in accordance with IS398-1:2013.

Providing recommendations for appropriate testing regimes to identify the presence of reactive pyrite including chemical testing, mineralogical testing and thin section petrographic analysis.

Liaising with geotechnical specialists to manage the recovery and testing of samples including detailed method statements outlining how the works should be carried out.

Declaration: *I accept responsibility for the accuracy of the particulars contained in this form including my qualifications and I agree that, when submitted, its contents will be made available on the Engineers Ireland website www.engineersireland.ie*

I agree to the declaration above

