Sample Certificate of Building Categorisation for Reactive Pyrite in   
sub-floor hardcore material

*This sample certificate (Annex F of I.S. 398-1:2017) includes clarification notes to Building Categories B and C as outlined in the Foreword of I.S. 398-1:2017.*

*This certificate is issued and signed in accordance with I.S. 398-1:2017 Reactive pyrite in sub-floor hardcore material –Part 1: Testing and Categorisation protocol to the building.*

*This certificate is based on and shall be read in conjunction with the associated Report of the Building Condition Assessment and the Professional Geologist/Chartered Geotechnical Engineer’s Report on the classification of the hardcore.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Building Address:** | |  | | | |
| **The Building Condition Assessment** | | | | | |
| **Carried out on (date):** | |  | | | |
| **Conducted by:** | | *Name (BLOCK CAPITALS):* | | |  |
| *Qualifications:* | | |  |
| **On behalf of:** | |  | | | |
| **Site Inspection**  **Report No:** | |  | | | |
| **Laboratory Testing** | | | | | |
| **Completed on (date):** | |  | | | |
| **Accredited Laboratory No.** | |  | | | |
| **Conducted by:** | | *Name (BLOCK CAPITALS):* | | |  |
| *Qualifications:* | | |  |
| **Hardcore Classification (tick one)** | | | | | |
|  | **Negligible** susceptibility to expansion (Pass) | |  | **Medium** susceptibility to expansion  (potential for future minor or significant damage) | |
|  | **Low** susceptibility to expansion  (potential for future minor damage) | |  | **Significant** susceptibility to expansion (Fail)  (building has significant existing damage or progressive damage) | |
| **Conducted by:** | | *Name (BLOCK CAPITALS):* | | |  |
| *Qualifications:* | | |  |
| **On behalf of:** | |  | | | |

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**sub-floor hardcore material**

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| On the basis of the findings from the Building Condition Assessment and hardcore classification, I/we certify in accordance with I.S. 398-1:2017, having exercised reasonable skill, care and diligence, that the building is categorised as to whether the building has been damaged by reactive pyrite or is likely to be in the future to (tick one):  Category A – Negligible Risk – The building has a Damage Condition Rating of 0 and hardcore which has negligible susceptibility to expansion. Alternatively, the building has a Damage Condition Rating of 1 or 2, and hardcore which has negligible susceptibility to expansion and an alternative probable cause for the damage other than pyritic heave, is likely.  Category B – Low Risk – The building has a Damage Condition Rating of 0 or a Damage Condition Rating of 1 (without progression), consistent with pyritic heave, and hardcore with low susceptibility to expansion. There is potential for future minor damage from pyritic heave.  NOTE: For hardcore classified by the Professional Geologist/Chartered Geotechnical Engineer as low susceptibility to expansion – potential for future minor damage, it is not envisaged that the hardcore in buildings assigned Category B would need to be replaced.  Category C – Medium Risk – The building has a Damage Condition Rating of 0 or a Damage Condition Rating of 1 (without progression), consistent with pyritic heave, and hardcore with medium or significant susceptibility to expansion. Alternatively, the building has a Damage Condition Rating of 1 (without progression) consistent with pyritic heave and hardcore with low susceptibility to expansion. There is potential for future minor or significant damage from pyritic heave.  NOTE: Definitive outcomes are still not possible for buildings assigned Category C, due to a number of inconsistencies or variability in hardcore material, see I.S. 398-1 Clause 4 NOTE.  Category D – Significant Pyritic Damage – The building has a Damage Condition Rating of 1 (with progression) or a Damage Condition Rating of 2, consistent with pyritic heave, and hardcore with low to significant susceptibility to expansion. | | |
| **Engineer** | | |
| **Name (BLOCK CAPITALS):** |  | |
| **Signature of Engineer:** |  | |
| **Date Signed:** |  | |
| **Qualifications:** |  | |
| **On behalf of:** | *Organisation:* |  |
| *Address:* |  |
| *Tel. No.:* |  |
| **Professional Geologist/Chartered Geotechnical Engineer** | | |
| **Name (BLOCK CAPITALS):** |  | |
| **Signature of Professional Geologist/Chartered Geotechnical Engineer:** |  | |
| **Date Signed:** |  | |
| **Qualifications:** |  | |
| **On behalf of:** | *Organisation:* |  |
|  | *Address:* |  |
|  | *Tel. No.:* |  |

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| **Associated documents** | |
| **Report (s)** | **Reference Number** |
| Engineer's Report |  |
| Building Condition Assessment |  |
| Site Inspection |  |
| Professional Geologist/ Chartered Geotechnical Engineer)'s Report |  |
| Hardcore Sampling |  |
| Laboratory Tests |  |