

**0001**

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| **Pat Munro (Alness) Ltd**  **Caplich Quarry**  **Alness**  **Ross-shire**  **IV17 0XO**  **0001** | | | |
| **EN 12620**  **Aggregates for Concrete**  **From**  **Dornoch Sand and Gravel**  **10/20. 4/10** | | | |
| **Particle Shape** |  |  | **FI35** |
| **Particle size** |  |  | **4/10 10/20 Gc 85/15** |
| **Particle Density** | *Saturated Surface Dry* | *Declared* | **2.61 Mg/m3** |
|  | *Oven Dry* | *Declared* | **2.59 Mg/m3** |
|  | *Apparent* | *Declared* | **2.67 Mg/m3** |
| **Cleanliness** |  |  |  |
|  | *Fines Content* | *Category* | **F4** |
|  | *Shell content* | *Category* | **SC10** |
| **Resistance to fragmentation** |  | *Category* | **LA30** |
| **Resistance to Polishing** |  | *Declared* | **PSV55** |
| **Resistance to Abrasion** |  | *Category* | **AAVNR** |
| **Resistance to wear** |  | *Category* | **MDE10** |
| **Composition /Content** |  |  |  |
|  | *Composition of recycled* | *Category* | **NR** |
|  | *Chlorides* | *Declared* | **<0.001%** |
|  | *Acid Soluble Sulfates* | *Declared* | **<0.1** |
|  | *Total sulfur* | *Declared* | **0.01** |
|  | *Carbonate Content* | *Category* | **NR** |
|  | *Influence on initial setting time of cement (recycled)* | *Category* | **ANR** |
| **Volume Stability** |  |  |  |
|  | *Dry shrinkage* | *Declared* | **Pass 0.036** |
| **Water Absorption** |  | *Category* | **WA24 1** |
| **Durability against freeze-thaw** |  | *Declared* | **WA24 1 MSSV18** |
| **Emission of Radioactivity** | *Threshold* | *Value* | **NR** |
| **Release of Heavy metals** | *Threshold* | *Value* | **NR** |
| **Release of Polyaromatic carbons** | *Threshhold* | *Value* | **NR** |
| **Durability against ASR** |  | *Declared* | **Normal** |

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