

**0001**

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| **Pat Munro (Alness) Ltd****Caplich Quarry****Alness****Ross-shire****IV17 0XO****0002** |
| **EN 12620****Aggregates for Concrete****From****Dornoch Sand and Gravel****0/4 Concrete sand** |
| **Particle Shape** |  |  | **FINR** |
| **Particle size** |  |  | **0/4 GG 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* | **LANR** |
| **Resistance to Polishing**  |  | *Declared* | **PSVNR** |
| **Resistance to Abrasion** |  | *Category* | **AAVNR** |
| **Resistance to wear** |  | *Category* | **MDENR** |
| **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**  |
| **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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