



19

BS EN 12620:2002+A1:2008

CE Mark ref. A34 Dated 01 Jan 2019

Aggregates for concrete

Frimstone Ltd

Ashcraft Farm, Crimplasham, Norfolk, PE33 9EB

Source quarry and material description: Cambridge, 4/20 Gravel

Intended use: Preparation for concrete for use in buildings, roads and other civil engineering works

Attestation Level 4

| Essential Characteristics  | Declared values  | Test method  |
|--|--|--|
| Aggregate size   | 4/20   | Designation as section 4.2 BS EN 12620:2002+A1:2008  |
| Grading  | Gc90/15  | EN 933-1, Section 4.3 Tables 2-7 (EN 12620)  |
| Shape of coarse aggregate  | NPD  | EN 933-3, Section 4.4 Tables 8 or 9 (EN 12620)   |
| Particle density   | NPD  | EN 1097-6  |
| Water absorption   | NPD  | EN 1097-6  |
| Shell content of coarse aggregate  | NPD  | EN 1367-1/EN 1367-2, Section 5.7.1 Table 18 (EN 12620)   |
| Resistance to fragmentation of coarse aggregate  | NPD  | EN 1097-2, clause 5 or 6, Section 5.2 Table 12 or 13 (EN 12620)  |
| Resistance to wear of coarse aggregate   | NPD  | EN 1097-1, Section 5.3 Table 14 (EN 12620)   |
| Resistance to polishing  | NPD  | EN 1097-8, Section 5.4.1 Table 15 (EN 12620)   |
| Resistance to surface abrasion   | NPD  | EN 1097-8, Annex A, Section 5.4.2 Table 16 (EN 12620)  |
| Resistance to abrasion from studded tyres  | NPD  | EN 1097-9, Section 5.4.2 Table 17 (EN 12620)   |
| Constituents of coarse recycled aggregate  | Not applicable. Natural Aggregate.   | prEN 933-11, Section 5.8 Table 20 (EN 12620)   |
| Chlorides  | Water soluble <0.01%   | EN 1744-1, clause 7 (water) and/or EN 1744-5 (acid if requested)   |
| Acid soluble sulfates  | ASo.8 (<0.8%)  | EN 1744-1, clause 12, Section 6.3.1 Table 21 (EN 12620)  |
| Total sulfur   | <1% S  | EN 1744-1, clause 11, Section 6.3.2 (EN 12620)   |
| Water soluble sulfate content of recycled aggregate  | Not applicable. Natural Aggregate.   | EN 1744-1, clause 12, Section 6.3.3 Table 22 (EN 12620)  |
| Constituents of natural aggregates which alter the rate of setting and hardening of concrete | No organic substances (< clause a & b)   | EN 1744-1, clause 15.1 (presence of organic matter) & Clause 15.3 (effect). Section 6.4.1, clause a & b (EN 12620) |
| Influence of initial setting time of cement (recycle aggregates)                             | Not applicable. Natural Aggregate.   | EN 1744-6, Section 6.4.1, Table 23 (EN 12620)  |
| Carbonate content of fine aggregate for concrete pavement surface courses                    | Not Applicable. Coarse Aggregate.  | EN 196-2, clause 5   |
| Volume stability - drying shrinkage  | <0.075%  | EN 1367-4  |
| Constituents which affect the volume stability of air-cooled blastfurnace slag               | Not applicable. Not air-cooled blastfurnace slag aggregate.  | EN 1744-1, clause 19.1 & 19.2  |
| Freeze/thaw resistance of coarse aggregate   | NPD  | EN 1367-1 or EN 1367-2, Section 5.7.1, Tables 18 or 19 (EN 12620)  |
| Alkali-silica reactivity   | NPD  | CEN CR 1901  |
| Dangerous Substances   | Regulatory Information. Not classified as dangerous. Consideration of the following risk & safety phrases is recommended: Risk Phrases: R36/37 - Irritating to eyes and respiratory system. Safety Phrases: S36/ 37/ 39 - Wear suitable protective clothing, gloves and eye /face protection. Inhalation: If inhaled over a prolonged or extended period, respirable dust from natural aggregate can lead to respiratory system damage and disease. Respirable crystalline silica has been associated with the lung disease silicosis. Skin Contact: Prolonged contact with skin may cause irritation and dryness, which may lead to dermatitis. Eye Contact: Particles of grit or dust from natural aggregates may irritate and scratch eyes. Ingestion: Unlikely to cause any problems | Not Dangerous. ZA.1. Council Directive 76/769/EEC  |
| Declaration of Performance   | In accordance with the CPR regulations, the Declaration of Performance (DoP) is held on our web site <a href="http://www.frimstone.co.uk/aggregates.php">http://www.frimstone.co.uk/aggregates.php</a> . The appropriate DoP is referenced A34 DOP on the CE Regulations page.   | CPR DoP Electronic Provision No. 305/2011  |