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BS EN 12620:2002+A1:2008

CE Mark ref. A13 Dated 01 Jan 2019

Aggregates for concrete

Frimstone Ltd

Ashcraft Farm, Crimbleham, Norfolk, PE33 9EB

Source quarry and material description: Worlington 10/20 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 |
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| Aggregate size | 10/20 | Designation as section 4.2 BS EN 12620:2002+A1:2008 |
| Grading | Gc80/20 | 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.2 (<0.2%) | 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 http://www.frimstone.co.uk/aggregates.php . The appropriate DoP is referenced A13 DOP on the CE Regulations page. | CPR DoP Electronic Provision No. 305/2011 |