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BS EN 12620:2002+A1:2008

CE Mark ref. A42 Dated 01 Jan 2018

Aggregates for concrete

Frimstone Ltd

Ashcraft Farm, Crimbleham, Norfolk, PE33 9EB

**Source quarry and material description: Cambridge 4/10 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	4/10	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	AS <sub>0.8</sub> (<0.08%)	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 A42 DOP on the CE Regulations page.	CPR DoP Electronic Provision No. 305/2011