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Date

2023-02-17

Reference

1162560-03

Page

1 (2)

Cementa AB
Box 47210
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Verification document for moderate heat of hydration (MH), low alkali content (LA) and national sulfate resistance (NSR) for Portland-fly ash cement CEM II/A-V 42,5 N Slite.

Issued for

Cementa AB

Box 47210, SE-100 74 Stockholm, Sweden
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Product description

Portland-fly ash cement CEM II/A-V 42,5 N Slite, CE certificate number 0402 – CPR – SC1082-14, which fulfils the requirements of SS-EN 197-1:2011.

Trade name

Portland-fly ash cement CEM II/A-V 42,5 N – MH/LA/NSR – Slite

Intended use

Preparation of concrete, mortar, grout and other mixes for construction and for the manufacture of construction products .

Verification

The product has been verified against the requirements for :

- Moderate heat of hydration (MH) according to SS 134202:2021
(heat of hydration ≤ 320 J/g at 7 days, characteristic value, determined according to SS-EN 196-11),
- Low alkalinity (LA) according to SS 134203:2022
(characteristic value of $\text{Na}_2\text{O}_{\text{eq}}$ in the Portland cement clinker is $\leq 0,6$ %)
- National sulfate resistance (NSR) according to SS 134204:2022
(SO_3 content in the cement $\leq 3,0$ %, characteristic value
 C_3A content in the Portland cement clinker ≤ 3 %, characteristic value)

Control

According to an agreement between Cementa AB and RISE, the manufacturers autocontrol with regard to the above properties will during 2023 be surveilled by RISE Research Institutes of Sweden AB. RISE is a notified body (number 0402) for product certification against EN 197-1.

RISE Research Institutes of Sweden AB

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Confidentiality level
C2 - Internal

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The control is carried out by RISE Infrastructure and Concreting. The control includes evaluation of tests (carried out by RISE and Cementa AB) with regard to heat of hydration and sulfate content on audit samples of the cement, taken by RISE six times per year. The verification of alkali content and C_3A content is carried out based on the manufacturers documented autocontrol and is not determined on audit samples, since these requirements, according to the standards, are related to the Portland cement clinker.

Producing factory

Owner: Cementa AB
Factory: Cementa Slite
Product identification: Portland-fly ash cement EN 197-1 – CEM II/A-V 42,5 N – MH/LA/NSR – Slite

Assessment basis:

Documents from RISE AB:

- Report P108881-08 SL dated 2021-10-26 (test report for 2021)
- Report P108881-10 SL dated 2021-12-10 (test report for 2021)
- Report P108881-12 SL dated 2022-02-14 (test report for 2021)
- Report P113648-02 SL dated 2022-04-01 (test report for 2021)
- Report P113648-04 SL dated 2022-06-21 (test report for 2021)
- Report P113648-06 SL dated 2022-09-05 (test report for 2022)
- Report P113648 utv1 SLFA dated 2022-11-01 (evaluation for 2021/2022)

Documents from Cementa AB:

- Documented autocontrol covering July 2021 to June 2022
- The manufacturers audit sample test results during 2021/2022 (six samples)

Verification

The product fulfils the requirements for moderate heat of hydration (MH) according to SS 134202:2021, low alkali content (LA) according to SS 134203:2022 and national sulfate resistance (NSR) according to SS 134204:2022.

Comments

The product is CE-marked, declaration of performance Nr 0402-DoP-SE13-SC1082-14 dated 2015-08-24, and fulfils the requirements in EN 197-1:2011 and EN 197-2:2000. Heat of hydration has during 2021 been determined with the method EN 196-9:2010 and not EN 196-11:2018 which is the assigned method in SS 134202:2021. SS-EN 196-9 was the assigned method in the earlier version of SS 134202. The correlation between these method has been established.

Period of validity

This verification document is valid until December 31, 2023

**RISE Research Institutes of Sweden AB
Infrastruktur och Betongbyggande - Materiallab**

Issued by



Lovise Sjöqvist

Verifikat

Transaktion 09222115557487337015

Dokument

Intyg Anl FA 2023-02-17_eng

Huvuddokument

2 sidor

*Startades 2023-02-17 11:41:11 CET (+0100) av Lovise
Sjöqvist (LS)*

Färdigställt 2023-02-17 11:41:32 CET (+0100)

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