

# **Verification document**

Contact person RISE

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2023-12-18 Rev. Date 2023-12-19

Date

O100634-1234494-02Rev1

Heidelberg Materials Cement Sverige AB

Page

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100 74 STOCKHOLM

Sweden

Box 47210

Verification document 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

The revision refers to a new dating of the manufacturer's declaration of performance. The verification document replaces the edition dated 2023-12-18.

Issued for

# Heidelberg Materials Cement Sverige AB

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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 196-11:2019)
- Low alkalinity (LA) according to SS 134203:2022 (characteristic value of Na<sub>2</sub>O<sub>eq</sub> in the Portland cement clinker is ≤0,6 %)
- National sulfate resistance (NSR) according to SS 134204:2022 (SO₃ content in the cement ≤3,0 %, characteristic value C₃A content in the Portland cement clinker ≤ 3 %, characteristic value)

#### RISE Research Institutes of Sweden AB

Postal address Box 857 501 15 BORÅS SWEDEN Office location Brinellgatan 4 504 62 Borås Phone / Fax / E-mail +46 10-516 50 00 +46 33-13 55 02 info@ri.se Confidentiality level C2 - Internal

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#### Control

The manufacturers autocontrol will be monitored in 2024 by RISE Research Institutes of Sweden AB. RISE is a notified body (number 0402) for product certification against EN 197-1. The control is carried out by RISE Infrastructure and Concrete technology. The control includes evaluation of tests (carried out by RISE and Heidelberg Materials Cement Sverige 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<sub>3</sub>A 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: Heidelberg Materials Cement Sverige AB Factory: Heidelberg Materials Cement Sverige AB, 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 P113648-08 SL dated 2022-10-18 (test report for 2022)
- Report P113648-10 SL dated 2022-12-20 (test report for 2022)
- Report P113648-12 SL dated 2023-02-01 (test report for 2022)
- Report P117271-02 SL dated 2023-03-29 (test report for 2023)
- Report P117271-04 SL dated 2023-05-19 (test report for 2023)
- Report P117271-06 SL dated 2023-07-21 (test report for 2023)
- Report P117271 utv 1 SLFA dated 2023-10-16 (evaluation for 2022/2023)

Documents from Heidelberg Materials Cement Sverige AB:

- Documented autocontrol covering July 2022 to June 2023
- The manufacturers audit sample test results during 2022/2023 (six samples)

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 as well as the requirements of third part control in AMA Anläggning 23 chapter EBE 1.

#### Comments

The product is CE-marked, declaration of performance Nr 0402-DoP-SE13-SC1082-14 dated 2023-12-19, and fulfils the requirements in EN 197-1:2011 and EN 197-2:2000.

### Period of validity

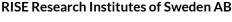
This verification document is valid until December 31, 2024

RISE Research Institutes of Sweden AB Infrastructure and Concrete technology - Material Lab

Issued by

Lovise Sjögvist

Louise Spogest



# Verifikat

Transaktion 09222115557507113717

## Dokument

# IntygREV1 Anl FA Slite eng

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# Signerare

# Lovise Sjöqvist (LS)

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Signerade 2023-12-19 15:02:42 CET (+0100)

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