

**KUJAWY CEMENT
PLANT IN BIELAWY**

Holcim Polska S.A.
Kujawy Cement Plant
Technical Support

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Quality Certificate of cement

Type of cement : **CEM II/A-V 42,5R**

Requirements acc. to: EN 197-1:2011

Values obtained for the period of: **July 2024**

	Unit	Results	Requirements acc. to: EN 197-1:2011
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1. Properties (by standards)

Compressive strength			
Early strength, after 2 days	MPa	27,1	≥ 20
Standard strength, after 28 days (results from previous month)	MPa	58,0	$\geq 42,5$ i $\leq 62,5$
Initial setting time	min	230	≥ 60
Expansion of cement	mm	0	≤ 10
Sulfate content (as SO ₃)	%	2,99	$\leq 4,0$
Chloride content Cl ⁻	%	0,072	$\leq 0,10$
Loss on ignition ^{a)}	%	-	-
Insoluble residues ^{a)}	%	-	-

2. Additional information

Laser particle size distribution passing 8 µm/32 µm	%	35/79	-
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a) only for CEM I and CEM III

Anna Kozłowska
Kierownik Jakości
Cementownia Kujawy w Bielawach
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stamp/signature

Holcim Polska S.A.

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KRS: 0000062569 (Sąd Rejonowy w Kielcach X Wydział Gospodarczy KRS)
Kapitał akcyjny: 811.329.500 opłacony w pełni, nr rejestracyjny BDO 000001937

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