

**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 I 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	26,5	≥ 20
Standard strength, after 28 days <small>(results from previous month)</small>	MPa	58,5	≥ 42,5 i ≤ 62,5
Initial setting time	min	190	≥ 60
Expansion of cement	mm	0,5	≤ 10
Sulfate content (as SO ₃)	%	3,33	≤ 4,0
Chloride content Cl ⁻	%	0,058	≤ 0,10
Loss on ignition ^{a)}	%	3,94	≤ 5,0
Insoluble residues ^{a)}	%	1,14	≤ 5,0

2. Additional information

Laser particle size distribution passing 8 μm/32 μm	%	30/77	-
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a)only for CEM I and CEM III

Anna Kozłowska
Kierownik Jakości
Anna Kozłowska
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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