

**KUJAWY CEMENT
PLANT IN BIELAWY****Holcim Polska S.A.
Kujawy Cement Plant
Technical Support**tel.: (52) 58 65 000, fax: (52) 58 65 011
tel.: (41) 24 87 533, fax: (41) 24 87 531**Quality Certificate of cement**Type of cement : **CEM I 42,5R**

Requirements acc. to: EN 197-1:2011

Values obtained for the period of: **April 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	25,2	≥ 20
Standard strength, after 28 days <small>(results from previous month)</small>	MPa	56,6	≥ 42,5 i ≤ 62,5
Initial setting time	min	175	≥ 60
Expansion of cement	mm	0,5	≤ 10
Sulfate content (as SO ₃)	%	3,22	≤ 4,0
Chloride content Cl ⁻	%	0,057	≤ 0,10
Loss on ignition ^{a)}	%	3,78	≤ 5,0
Insoluble residues ^{a)}	%	1,09	≤ 5,0


2. Additional information

Laser particle size distribution passing 8 µm/32 µm	%	30/76	-
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a) only for CEM I and CEM III

Anna Kozłowska

Kierownik Jakości


Cementownia Kujawy w Bielawach.....
stamp/signature**Holcim Polska S.A.**ul. Warszawska 110, 28-366 Małogoszcz
NIP: 526-10-60-765, REGON: 011843520
KRS: 0000062569 (Sąd Rejonowy w Kielcach X Wydział Gospodarczy KRS)
Kapitał akcyjny: 811.329.500 opłacony w pełni, nr rejestracyjny BDO 000001937