

**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: **November 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	27,0	≥ 20
Standard strength, after 28 days <small>(results from previous month)</small>	MPa	60,6	≥ 42,5 i ≤ 62,5
Initial setting time	min	215	≥ 60
Expansion of cement	mm	1,0	≤ 10
Sulfate content (as SO <sub>3</sub> )	%	3,40	≤ 4,0
Chloride content Cl <sup>-</sup>	%	0,051	≤ 0,10
Loss on ignition <sup>a)</sup>	%	3,94	≤ 5,0
Insoluble residues <sup>a)</sup>	%	1,37	≤ 5,0

### 2. Additional information

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

*Anna Kozłowska*

Kierownik Jakości  
*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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