

Lafarge Cement S.A.
ul. Warszawska 110
28-366 Małogoszcz
Cementownia Kujawy
Doradztwo Techniczne
www.lafarge.pl

tel.: (52) 58 65 000, fax: (52) 58 65 011
tel.: (41) 24 87 533, fax: (41) 24 87 531

KUJAWY CEMENT PLANT IN BIELAWY

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: **October 2022**

	Unit	Results	Requirements acc. to: EN 197-1:2011
--	------	---------	--

1.Properties (by standards)

Compressive strength			
Early strength, after 2 days	MPa	26,0	≥ 20
Standard strength, after 28 days (results from previous month)	MPa	54,7	≥ 42,5 i ≤ 62,5
Initial setting time	min	200	≥ 60
Expansion of cement	mm	0,5	≤ 10
Sulfate content (as SO ₃)	%	2,80	≤ 4,0
Chloride content Cl ⁻	%	0,077	≤ 0,10
Loss on ignition ^{a)}	%	-	-
Insoluble residues ^{a)}	%	-	-

2. Additional information

Laser particle size distribution passing 8 µm/32 µm	%	31/72	-
--	---	-------	---

a) only for CEM I and CEM III

Anna Kozłowska

Kierownik Jakości
Kozłowska
Cementownia Kujawy w Bielawie

.....
stamp/signature