SULFATE Resisting Cement Data Sheet

Manufactured in: - Lansdown, Killaskillen, Kinnegad, Co. Westmeath, Ireland.

Date: 21/03/2025

Blast furnace Cement

I.S EN 197-1:2011	**CEM III/A 52,5 L**	29/08/2013
	Certificate of Conformity No: 0050 - CPR - 0107	
CE	**CEM III/A 52,5 L**	29/08/2013

CE 0050

CPC Construction Products Certification — Responsibly Sourced Product BES 6001

CEMENT I.S. EN 197-1:2011 NSAI Certified

QUALITY I.S. EN ISO 9001:2015 NSAI Certified

Declared Composition (%)

Constituents		Calcium Sulfate	
Portland Cement Clinker (K)	**35 - 64**	Gypsum	**3.0 - 5.0**
Blastfurnace slag (S)	**36 - 65**	Other source of Calcium Sulfate	**-**
Silica fume (D)	**-**		
Natural pozzolana (P)	**-**		
Natural calcined pozzolana (Q)	**-**	**Additives**	
Siliceous fly ash (V)	**-**	Grinding Aid	**< 0.1**
Calcareous fly ash (W)	**-**	Ferrous Sulphate	**< 0.3**
Burnt Shale (T)	**-**		
Limestone (L)	**-**		

Compressive Strengths (MPa)

Time	Test Method	Mean Values	Range of Values
2 Day	IS EN 196 - 1	**21.6**	**18.0 - 28.0**
7 Day	IS EN 196 - 1	**39.1**	**33.0 - 43.0**
28 Day	IS EN 196 - 1	**57.1**	**53.0 - 62.0**

Physical Properties

Property	Test Method	Mean Values	Range of Values
Specific density (Kg/M^3)	IS EN 196 - 6	**3080**	**2950 - 3150**
Specific surface (M^2/Kg)	IS EN 196 - 6	**394**	**360 - 430**
Initial setting time (min)	IS EN 196 - 3	**163**	**120 - 240**
Soundness (mm)	IS EN 196 - 3	**0.4**	**0.0 - 4.0**

Chemical Properties

Property	Test Method	Mean	Range	Property	Test Method	Mean	Range
LOI (%)	IS EN 196 - 2	**2.3**	**1.0 - 4.0**	SO_3 (%)	IS EN 196 - 2	**1.6**	**1.2 - 2.7**
IR (%)	IS EN 196 - 2	**0.2**	**0.1 - 2.0**	K_2O (%)	IS EN 196 - 2	**0.52**	**0.40 - 0.80**
SiO_2 (%)	IS EN 196 - 2	**25.2**	**22.5 - 27.5**	Na_2O (%)	IS EN 196 - 2	**0.22**	**0.15 - 0.35**
Al_2O_3 (%)	IS EN 196 - 2	**7.1**	**6.0 - 8.0**	Cl (%)	IS EN 196 - 2	**0.05**	**0.01 - 0.08**
Fe_2O_3 (%)	IS EN 196 - 2	**2.2**	**1.3 - 2.8**	FCaO (%)	ISO 29581 - 2	**1.3**	**1.0 - 3.0**
CaO (%)	IS EN 196 - 2	**59.2**	**58.5 - 61.5**	Na_2O_{eqv} (%)	IS EN 196 - 2	**0.56**	**0.45 - 0.75**
MgO (%)	IS EN 196 - 2	**3.1**	**2.2 - 3.7**	C_3A	IS EN 196 - 2	**5.5**	**3.5 - 6.5**
Cr(VI) (ppm)	IS EN 196 - 10	**0.5**	**0.0 - 2.0**				