

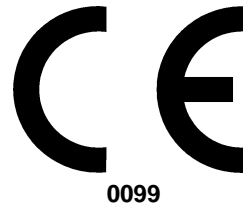
Cement Data Sheet

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

Date: 21/03/2025

Portland Cement

I.S EN 197-1:2011	CEM II/B-LL 42,5 R (White)	01/04/2002
	Certificate of Conformity No: 0099 - CPR - 0287	
CE	CEM II/B-LL 42,5 R (White)	01/04/2002



Declared Composition (%)

<u>Constituents</u>	<u>Calcium Sulfate</u>
Portland Cement Clinker (K).....	Gypsum.....
Blastfurnace slag (S).....	Other source of Calcium Sulfate.....
Silica fume (D).....	
Natural pozzolana (P).....	
Natural calcined pozzolana (Q).....	
Siliceous fly ash (V).....	<u>Additives</u>
Calcareous fly ash (W).....	Grinding Aid.....
Burnt Shale (T).....	
Limestone (L).....	

65 - 79 **3.0 - 5.0**
21 - 35 **< 0.1**

Compressive Strengths (MPa)

<u>Time</u>	<u>Test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>		
2 Day	IS EN 196 - 1	29.6	27.0	-	33.0
7 Day	IS EN 196 - 1	40.4	37.0	-	44.0
28 Day	IS EN 196 - 1	51.0	48.0	-	56.0

Physical Properties

<u>Property</u>	<u>Test Method</u>	<u>Mean Values</u>	<u>Range of Values</u>		
Specific density (Kg/M ³)	IS EN 196 - 6	3130	3050	-	3200
Specific surface (M ² /Kg)	IS EN 196 - 6	498	460	-	460
Initial setting time (min)	IS EN 196 - 3	156	90	-	200
Soundness (mm)	IS EN 196 - 3	0.6	0.0	-	3.0
Whitness L*		90.7	89.0	-	93.0

Chemical Properties

<u>Property</u>	<u>Test Method</u>	<u>Mean</u>	<u>Range</u>	<u>Property</u>	<u>Test Method</u>	<u>Mean</u>	<u>Range</u>
LOI (%)	IS EN 196 - 2	12.0	13.0 - 17.0	SO ₃ (%)	IS EN 196 - 2	3.0	2.0 - 3.5
IR (%)	IS EN 196 - 2	0.7	0.0 - 3.0	K ₂ O (%)	IS EN 196 - 2	0.62	0.10 - 0.90
SiO ₂ (%)	IS EN 196 - 2	16.4	15.0 - 18.0	Na ₂ O (%)	IS EN 196 - 2	0.01	0.00 - 0.25
Al ₂ O ₃ (%)	IS EN 196 - 2	3.5	3.0 - 4.0	Cl (%)	IS EN 196 - 2	0.01	0.00 - 0.08
Fe ₂ O ₃ (%)	IS EN 196 - 2	0.2	0.0 - 1.5	FCaO (%)	ISO 29581 - 2	1.4	0.5 - 3.0
CaO (%)	IS EN 196 - 2	70.2	68.0 - 73.0	Na ₂ O _{eqv} (%)	IS EN 196 - 2	0.39	0.00 - 0.75
MgO (%)	IS EN 196 - 2	0.4	0.0 - 1.0	Cr(VI) (ppm)	IS EN 196 - 10	0.0	0.0 - 2.0