

**Quality Certificate****QUALITY ASSURANCE****SPECIAL PORTLAND CEMENT 35,0 R****Period:01/01/2016 - 01/31/2016****CHEMICAL ANALYSIS**

Description	Abbrev	Unit	Applicable Test Method	Spec. Limit RTD 178	Test Result
Sulfur trioxide	SO ₃	%	ASTM C114	≤ 4.0	3.08
Insoluble residue	IR	%		≤ 3.5	1.07
Loss on ignition	LOI	%		≤ 5.0	4.7

PHYSICAL ANALYSIS

Description	Abbrev	Unit	Applicable Test Method	Spec. Limit RTD 178	Test Result
Sieve 325 (% pass)	-	%	-	-	95
Fineness, specific surface (Blaine)	SSB	cm ² /g	NORDOM 179 / ASTM C204	≥ 2800	3551
Autoclave expansion	Exp	%	NORDOM 213 / ASTM C151	≤ 0.8	0
Flow	Flow	%	NORDOM 375 / ASTM C 1437	-	95
Time of setting					
Time of initial setting	TIS	minutes	ASTM C 191	≥ 45	160
Time of final setting	TFS	minutes		-	215
Compressive strength					
Compressive strength 1 day	CS1	MPa	NORDOM 366 / ASTM C 109	-	15.2 (2189)
Compressive strength 3 days	CS3	MPa		≥ 22.0	27.3 (3931)
Compressive strength 7 days	CS7	MPa		-	33.2 (4814)
Compressive strength 28 days	CS28	MPa		≥ 35.0	42.2 (6117)



Complies with all compulsory quality requirements as per the Dominican Technical Regulation RTD 178



Manufactured by Domicem, S.A. Certified Company ISO 9001. Plant of Palenque - Dominican Republic