



QUALITY CERTIFICATE

DESCRIPTION OF GOODS: PORTLAND COMPOSITE CEM II/B-M (P-LL) 42,5N CE NF (ELOT EN 197-1)
 PRODUCTION PLANT: THESSALONIKI
 THESSALONIKI PLANT POSSESSES THE QUALITY SYSTEM
 CERTIFICATE OF CONFORMITY No. 0654 - CPR- 0368
 ACCORDING TO ELOT EN ISO 9001 : 2015, TO NF EN 197-1, NF 002
 B/L DATE : 28/4/2022
 NAME OF MV :
 RECEIVER : INTERTITAN EMPORIKI DIETHNIS S.A. (ETABLE. DE MARSEILLE)
 QUANTITY :

TEST CHARACTERISTICS	REQUIREMENTS	TEST RESULTS
	EN 197-1 CEM II 42,5N	ACCORDANCE WITH EN 196 (Typical Analysis)
CHEMICAL ANALYSIS (%)		
Silica (SiO ₂)	-	24,01
Insoluble residue	-	10,01
Alumina (Al ₂ O ₃)	-	5,95
Ferric Oxide (Fe ₂ O ₃)	-	3,12
Lime (CaO)	-	56,80
Magnesium Oxide (MgO)	-	1,63
Sulphuric Anhydride (SO ₃)	max. 3,5	2,41
Loss on ignition	-	4,58
Potassium Oxide (K ₂ O)	-	1,15
Sodium Oxide (Na ₂ O)	-	0,35
Total Alkalies	-	1,11
Chloride (Cl)	max. 0,10	0,01
Cr+6 (ppm)	max. 2,0	0,05
Physical tests		
Initial Setting time (minutes)	min. 60	175
Final Setting time (minutes)	-	210
Soundness expansion as received (mm)	max. 10	1,0
Fineness, specific surface (cm ² /gr)	-	5080
Compressive Strength		
Mortar (N/mm ²)	min 10	29,0
Age 2 days	-	41,0
Age 7 days	-	52,0
Age 28 days	-	-

REMARKS: We hereby certify that cement shipped is in full conformity with the above mentioned specifications.

QUALITY CONTROL MANAGER

N. MANARIS

