

BUA DAM

PORTLAND CEMENT TYPE III

Bua Dam Brand is Portland Cement Type III manufactured in accordance with Thai Industrial Standard 15 vol. 1-2555 with corresponding to the ASTM C 150. Bua Dam Cement has high early compressive strength property. It is suitable for pre-stressed concrete or concrete work which needs high early compressive strength and quickly setting such as concrete piles, poles, beams, electric post etc.

Mix proportioning for application

Regular concrete



Specifications for Portland Cement Type 3

Specifications		TIS 15-2555	ASTM C 150	Typical Bua Dam Brand
Standard Chemical requirements				
Magnesium Oxide (MgO)	Max. %	6.0	6.0	2.0
Sulfur Trioxide (SO ₃)				
When (C ₃ A) is 8% or less	Max. %	3.0	3.0	-
When (C ₃ A) is more than 8%	Max. %	3.5	3.5	3.3
Loss on ignition	Max. %	3.0	3.0	2.5
Insoluble residue	Max. %	0.75	0.75	0.30
Tricalcium Aluminate (C ₃ A)	Max. %	15.0	15.0	8.5
Standard Physical requirements				
Blaine fineness (cm ² / gm)	Min.	-	-	3,900
autoclave expansion	Max. %	0.8	0.8	0.20
Time of setting (vicat test)				
Initial set	Min. Minute	45	45	70
Final set	Max. Minute	375	375	240
Air content of mortar by volume	Max. %	12.0	12.0	9.0
Compressive strength , MPa				
1 day	Min.	12.0	12.0	20.0
3 days	Min.	24.0	24.0	32.0

