HAWAIIAN CEMENT

B20260422
CERTIFICATE NUMBER

April 22, 2026
DATE

Laboratory Test Certificate

MASONRY CEMENT/PLASTIC CEMENT/MORTAR CEMENT
(ULTRAMORTAR)

			Type S	Type M
Compressive Strength	**Value**		**Limit**	**Limit**
7 Days	**5230 psi**		**1300 psi**	**1800 psi**
	(36.0 MPa)		**(9.0 MPa)**	**(12.4 MPa)**
28 Days	**5800 psi**		**2100 psi**	**2900 psi**
	(40.0 MPa)		**(14.5 MPa)**	**(20.0 MPa)**
Fineness - Retained on No. 325, %	**2.7 %**		**24% Max**	**24% Max**
Air Content of mortar, %	**12.9 %**		**8.0 Min**	**8.0 Min**
Masonry, C91			**19.0 Max**	**19.0 Max**
Plastic, C1328			**20.0 Max**	**20.0 Max**
Mortar, C1329			**19.0 Max**	**19.0 Max**
Time of Set, Gilmore Method				
Initial Set, minutes	**210**	**min.**	**90 Min**	**90 Min**
Final Set, minutes	**335**	**min.**	**1000 Max**	**1000 Max**
Autoclave Expansion, %		**0.02 %**	**1.0 Max**	**1.0 Max**

We certify that the above described cement, at the time of shipment, meets the requirements of ASTM C91-18 Type "M" Masonry Cement, C1328-23 Type "M" Plastic Cement and C1329-25 Type "S" Mortar Cement.

Cement Division

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