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**CEMENT
MILL
TEST**

Cement Identified as: Mortar Cement, Type S **Date:** 03/04/20
Production Dates: January, 2020

PHYSICAL REQUIREMENTS	ASTM C 1329 SPECIFICATIONS			RESULTS
	Type S			
(ASTM C 430) 45-um sieve, % retained	Maximum	24		11
(ASTM C 151) Autoclave Expansion, %	Maximum	1.0		0.1
(ASTM C 266) Time of Setting (Gillmore)				
Initial Set, minutes	Minimum	90		175
Final Set, minutes	Maximum	1000		245
(ASTM C 185) Air Content, %	Range	8-19		15
(ASTM C 1506) Water Retention	Minimum	70		79
(ASTM C 109) Compressive Strength, psi (Mpa)				
7 Day	Minimum	1300 (3.5)		2520 (17.4)
28 Day	Minimum	2100 (14.5)		2880 (19.9)

We hereby certify that this cement conforms to all of the standard requirements for mortar cement in the above specification for the type specified. ASTM C 1357 testing is performed by an independent testing firm and results are available upon request.

By: *Rusty Strader*

Physical Testing completed by: DG, MS
 Chemical Testing completed by: TA, NC, JD, NM

Rusty Strader
 Quality Control Manager
 Fairborn Cement Company