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**CEMENT  
MILL  
TEST**

**Cement Identified as:** **Masonry Cement, Type S** **Date:** **12/30/21**  
**Production Dates:** **November, 2021**

| PHYSICAL REQUIREMENTS                        | SPECIFICATIONS | ASTM C 91<br>Type S | RESULTS       |
|--|----------------|---------------------|---------------|
| (ASTM C 430) 45-um sieve, % retained         | Maximum        | 24                  | 7             |
| (ASTM C 151) Autoclave Expansion, %          | Maximum        | 1.0                 | 0.11          |
| (ASTM C 266) Time of Setting (Gillmore)      |                |                     |               |
| Initial Set, minutes                         | Minimum        | 90                  | 218           |
| Final Set, minutes                           | Maximum        | 1000                | 333           |
| (ASTM C 185) Air Content, %                  | Range          | 8-19                | 18            |
| (ASTM C 1506) Water Retention                | Minimum        | 70                  | 83            |
| (ASTM C 109) Compressive Strength, psi (Mpa) |                |                     |               |
| 7 Day  | Minimum        | 1300 ( 9.0 )        | 1970 ( 13.6 ) |
| 28 Day                                       | Minimum        | 2100 (14.5 )        | 2380 ( 16.4 ) |

'We hereby certify that this cement conforms to all of the standard requirements for masonry cement in the above specification for the type specified.

By: *Rusty Strader*

Physical Testing completed by: DG, JT  
 Chemical Testing completed by: TA, NC, KL, NM

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company