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**CEMENT  
MILL  
TEST**

**Cement Identified as:** **Masonry Cement, Type S** **Date:** **09/02/22**  
**Production Dates:** **July, 2022**

| PHYSICAL REQUIREMENTS                       | SPECIFICATIONS | ASTM C 91<br>Type S | RESULTS       |
|---|----------------|---------------------|---------------|
| (ASTM C430) 45-um sieve, % retained         | Maximum        | 24                  | 9             |
| (ASTM C151) Autoclave Expansion, %          | Maximum        | 1.0                 | 0.06          |
| (ASTM C266) Time of Setting (Gillmore)      |                |                     |               |
| Initial Set, minutes                        | Minimum        | 90                  | 215           |
| Final Set, minutes                          | Maximum        | 1000                | 307           |
| (ASTM C185) Air Content, %                  | Range          | 8-19                | 18            |
| (ASTM C1506) Water Retention                | Minimum        | 70                  | 81            |
| (ASTM C109) Compressive Strength, psi (Mpa) |                |                     |               |
| 7 Day                                       | Minimum        | 1300 ( 9.0 )        | 2147 ( 14.8 ) |
| 28 Day                                      | Minimum        | 2100 ( 14.5 )       | 2517 ( 17.4 ) |

'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: TL, JT  
 Chemical Testing completed by: CA, NC, KL, NM

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company