

# STORK

## Stork Herron Testing Laboratories

### Material Technology

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P.O. NO.: Verbal

W/O NO.: ABT002-07-20-15501-1

DATE TESTED: 7/28/2006  
 ABT PART NUMBER: 2542  
 PART DESCRIPTION: 2 Piece D.O.T.Ductile Iron Slotted Frame & Grate  
 PART DIMENSIONS: 5.71 in W x 19.57 in L x 1.18 in H  
 TRENCH WIDTH: 4 in  
 TEST PROCEDURE: AASHTO M306-04 with trench width compensation  
 TEST BLOCK DIMENSIONS: 3 in Wide x 9 in Long x 1 in Thick (27 in<sup>2</sup>)  
 TEST BLOCK LOCATION: Centered on the top surface of the grate  
 BUFFER MATERIAL: 7/8 in thick oriented strand board (same dimension as test block)  
 SETTLING LOAD: 50% of proof load, remove load, zero deflection setting  
 PROOF LOAD TEST: Load for 60 sec., remove, measure permanent deflection, inspect for cracks  
 APPROVAL CRITERIA: Maximum permanent deflection of 0.125 in and no cracks at proof load

| SAMPLE NUMBER | PROOF LOAD (LBS) | EQUIVALENT PRESSURE (PSI) | PERMANENT DEFLECTION (in) | ULTIMATE FAILURE LOAD (LBS) | EQUIVALENT PRESSURE (PSI) | TEST RESULTS (PASS/FAIL) |
|---------------|------------------|---------------------------|---------------------------|-----------------------------|---------------------------|--------------------------|
| 1             | 13,500           | 500                       | 0.001                     | 29,100                      | 1,078                     | PASS                     |
| 2             | 13,500           | 500                       | 0.002                     | 29,900                      | 1,107                     | PASS                     |
| 3             | 13,500           | 500                       | 0.005                     | 28,500                      | 1,056                     | PASS                     |
|               |                  |                           |                           |                             |                           |                          |
|               |                  |                           |                           |                             |                           |                          |
|               |                  |                           |                           |                             |                           |                          |
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Respectfully Submitted



Sam Jackins  
 General Manager