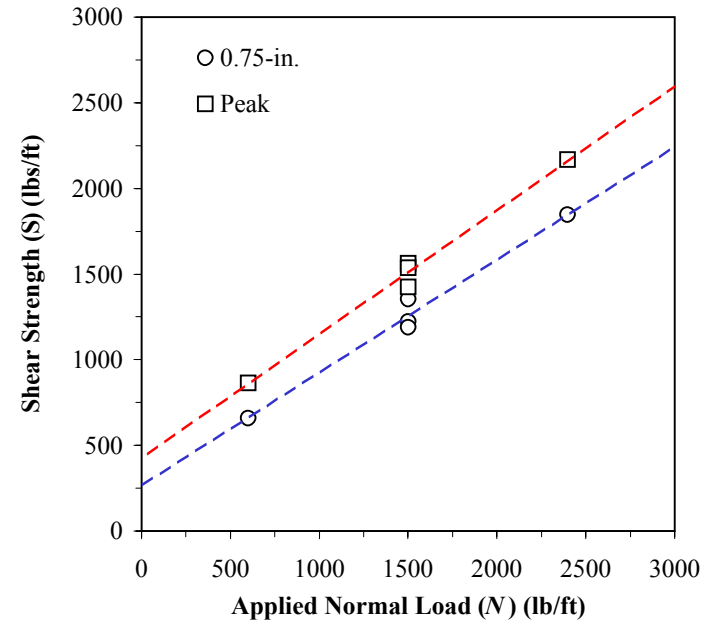
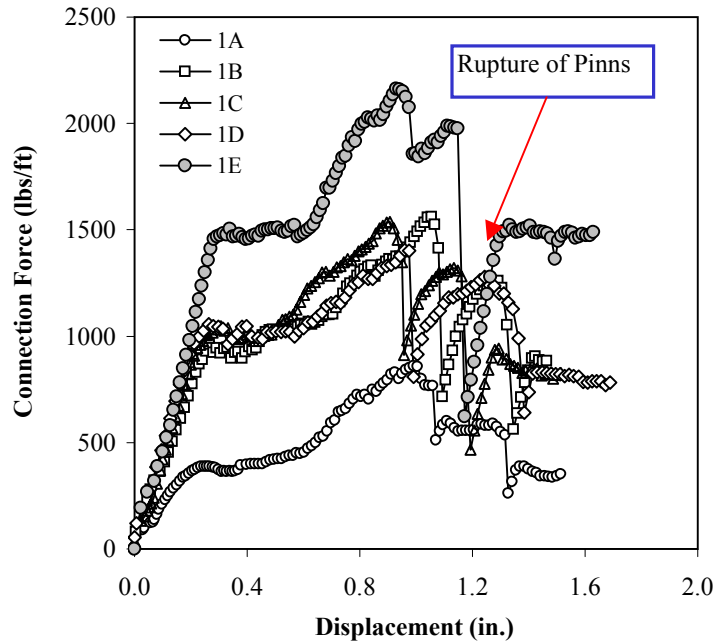


**VYKING WALL SYSTEMS, LLC.  
BLOCK SHEAR TESTING (ASTM D 6916)**

TEST SERIES NO.1: Vyking solid block unit /Vyking solid block units with 2 pins per block and with compacted AASHTO #57 stone



| Test No. | Test Specimen Width (in.) | Test Normal Stress (psi) | Equivalent Normal Load (lb/ft) | Approx. No. of Blocks | Approx. Height (ft) | 0.75-in. Strength (lb/ft) | Peak Strength (lb/ft) | Shear Strength Equations (S)  |
|----------|---------------------------|--------------------------|--------------------------------|-----------------------|---------------------|---------------------------|-----------------------|---|
| 1A       | 18.0                      | 4.2                      | 600                            | 8                     | 5.0                 | 659                       | 862                   | $S_{0.75-in.} = 265 + (N) \tan ( 33^\circ )$<br>$ST_{peak} = 420 + (N) \tan ( 36^\circ )$ |
| 1B       | 18.0                      | 10.4                     | 1500                           | 19                    | 12.5                | 1223                      | 1560                  |   |
| 1C       | 18.0                      | 10.4                     | 1500                           | 19                    | 12.5                | 1354                      | 1536                  |   |
| 1D       | 18.0                      | 10.4                     | 1500                           | 19                    | 12.5                | 1187                      | 1422                  |   |
| 1E       | 18.0                      | 16.7                     | 2400                           | 30                    | 20.0                | 1846                      | 2166                  |   |

**NOTES:**

Dimensions of Vyking Block Unit: 18 in. wide by 12 in. long and 6 in. high.

Weight of a Full-Size Block: 70.0 lbs.

Rupture (shear failure) of both pins occurred during each test.

DATE TESTED: 5 to 8 March 2004



**SGI TESTING SERVICES, LLC**

|              |          |
|--------------|----------|
| FIGURE NO.   | C-1      |
| PROJECT NO.  | SGI3094  |
| DOCUMENT NO. | SGI03122 |
| FILE NO.     |          |