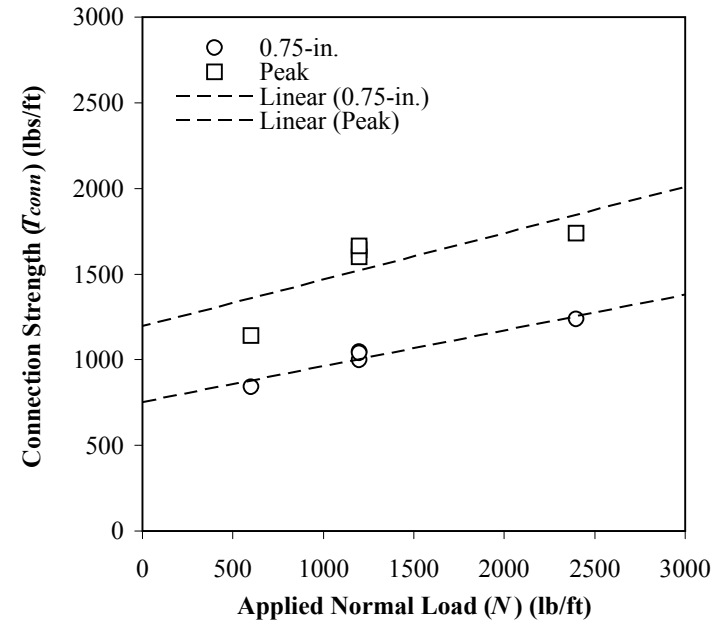
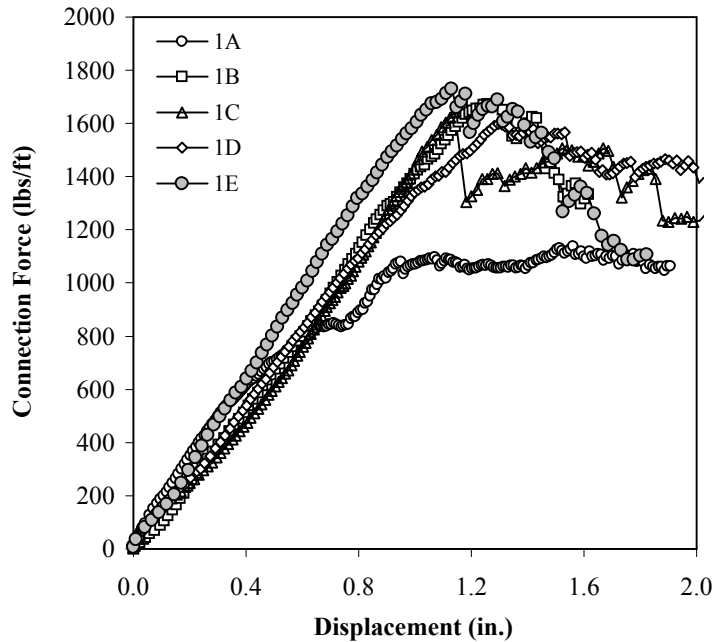


**VYKING WALL SYSTEMS, LLC.  
CONNECTION STRENGTH TESTING (ASTM D 6638)**

TEST SERIES NO. 1: Miragrid 3XT geogrid in machine direction within Vyking solid block units with 2 pins per block and 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)	Connection Strength Equations ( $T_{conn}$ )
1A	34.5	4.2	600	10	5.0	841	1139	$T_{0.75-in.} = 755 + (N) \tan ( 12^\circ )$
1B	35.5	8.3	1200	20	10.0	1046	1641	
1C	35.5	8.3	1200	20	10.0	996	1598	$T_{peak} = 1200 + (N) \tan ( 15^\circ )$
1D	35.5	8.3	1200	20	10.0	1037	1663	
1E	35.5	16.7	2400	40	20.0	1236	1738	

**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.

Failure Mode of Geogrid: pullout in Test 1A, abrasion and rupture of the geogrid ribs in Test 1B through 1E.

DATE TESTED: 19 to 20 February 2004



**SGI TESTING SERVICES, LLC**

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