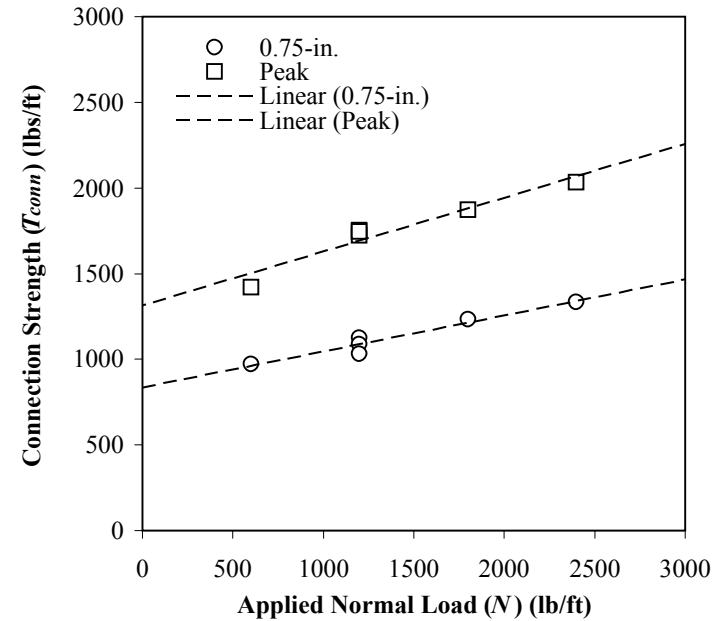
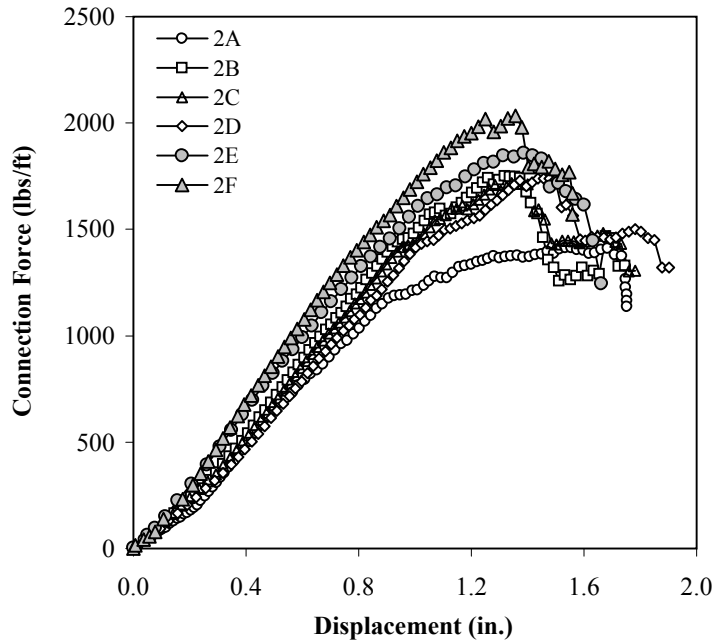


VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)

TEST SERIES NO. 2: Miragrid 3XT geogrid in machine direction within Vyking core 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})
2A	35.5	4.2	600	10	5.0	970	1418	$T_{0.75-in.} = 835 + (N) \tan (12^\circ)$
2B	35.5	8.3	1200	20	10.0	1126	1753	
2C	35.5	8.3	1200	20	10.0	1087	1721	$T_{peak} = 1315 + (N) \tan (17^\circ)$
2D	35.5	8.3	1200	20	10.0	1029	1743	
2E	35.5	12.5	1800	30	15.0	1235	1872	
2F	35.5	16.7	2400	40	20.0	1335	2033	

NOTES:

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

Weight of a Full-Size Block: 49.0 lbs.

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

DATE TESTED: 1 to 2 March 2004



SGI TESTING SERVICES, LLC

FIGURE NO.	C-2
PROJECT NO.	SGI3094
DOCUMENT NO.	SGI03122
FILE NO.	