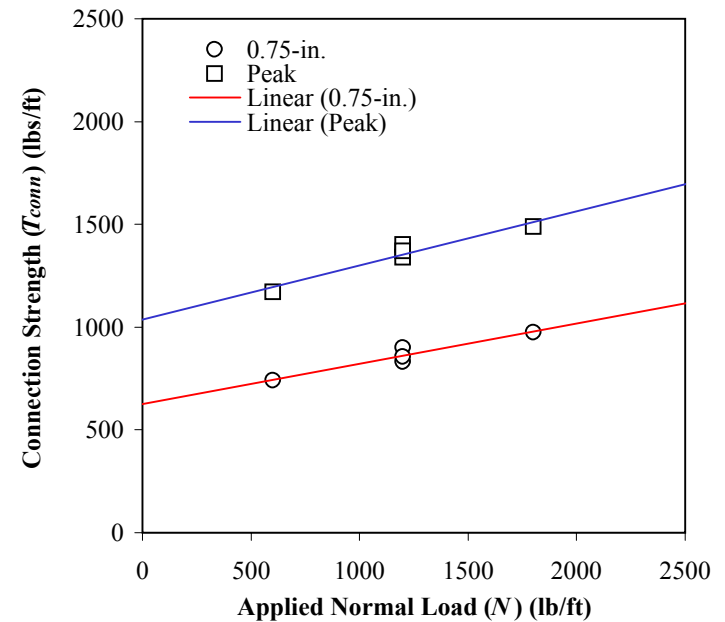
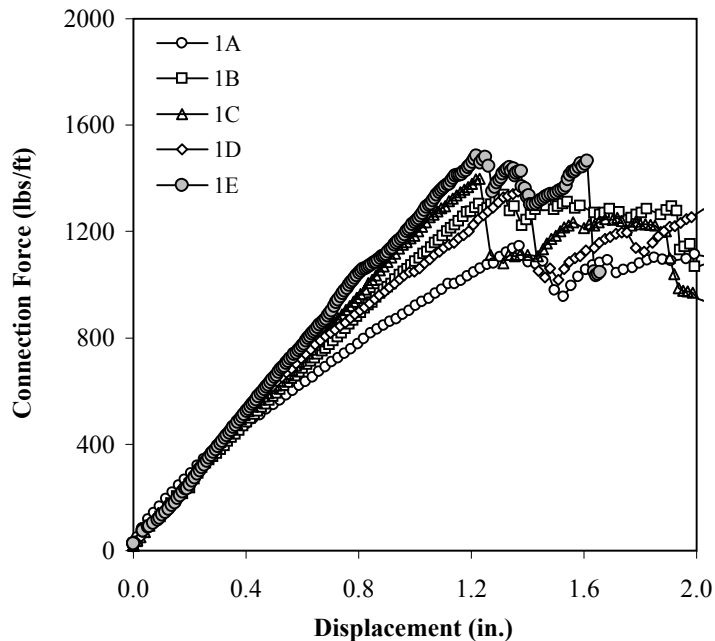


**VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)**

TEST SERIES NO. 1: Synteen SF 20 (SRW3) geogrid in machine direction within Vyking core block units with 2 Vyking interlocking 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. Wall Height (ft)	0.75-in. Strength (lb/ft)	Peak Strength (lb/ft)	Connection Strength Equations (T_{conn})
1A	34.0	4.2	600	15	5.0	740	1171	$T_{0.75-in.} = 625 + (N) \tan (11^\circ)$ $T_{peak} = 1035 + (N) \tan (15^\circ)$
1B	34.0	8.3	1200	30	10.0	833	1337	
1C	34.0	8.3	1200	30	10.0	900	1400	
1D	34.0	8.3	1200	30	10.0	856	1370	
1E	34.0	12.5	1800	45	15.0	976	1487	

NOTES:

Dimensions of Vyking Block Unit: 18 in. wide by 12 in. long and 4 in. high.
 Weight of a Full-Size Block: 33.0 lbs.
 Failure Mode of Geogrid: abrasion and rupture of the geogrid ribs in each test.

DATE TESTED: 14 to 22 April 2005



SGI TESTING SERVICES, LLC

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