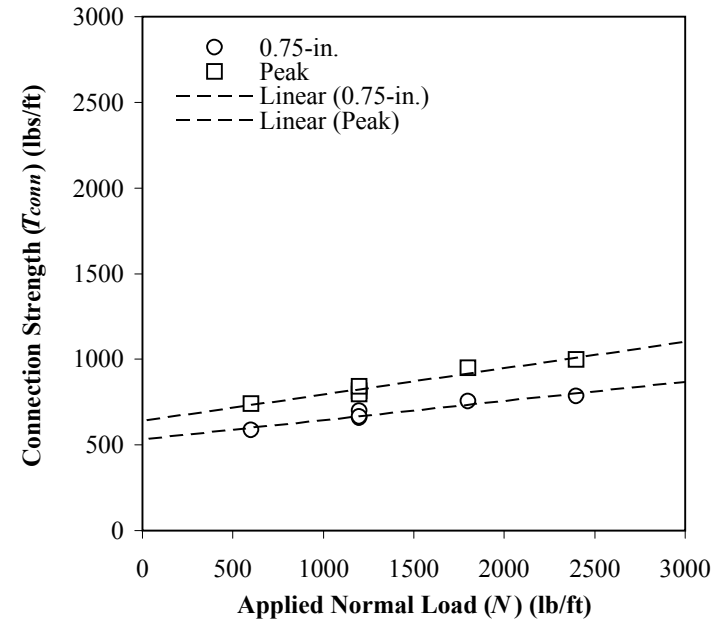
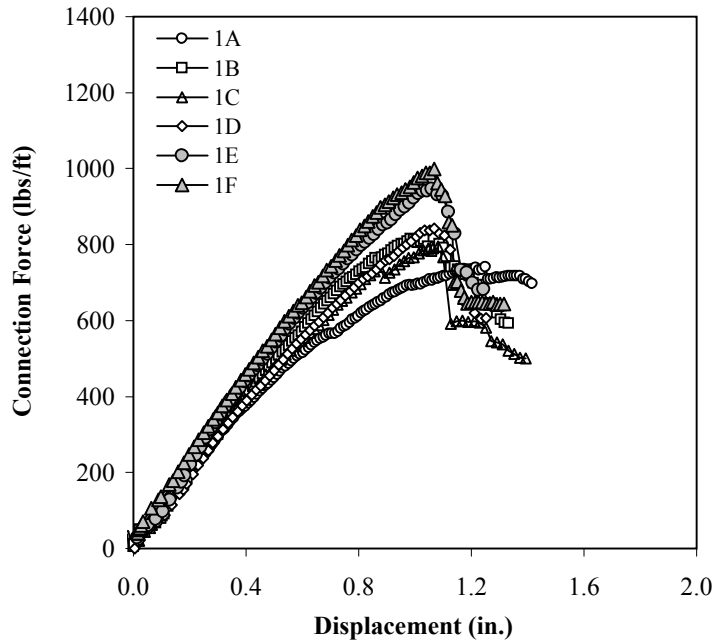


VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)

TEST SERIES NO. 1: Raugrid 3/3-20 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	35.0	4.2	600	10	5.0	585	741	$T_{0.75-in.} = 535 + (N) \tan (6^\circ)$ $T_{peak} = 640 + (N) \tan (9^\circ)$
1B	35.0	8.3	1200	20	10.0	699	815	
1C	35.0	8.3	1200	20	10.0	656	795	
1D	35.0	8.3	1200	20	10.0	663	842	
1E	35.0	12.5	1800	30	15.0	753	948	
1F	35.0	16.7	2400	40	20.0	786	999	

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: abrasion and rupture of the geogrid ribs in each test.

DATE TESTED: 22 to 23 March 2004



SGI TESTING SERVICES, LLC

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