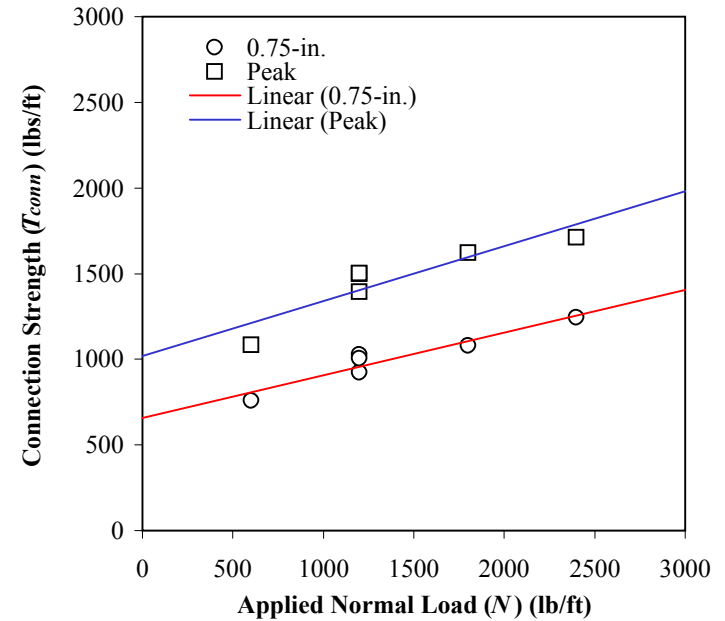
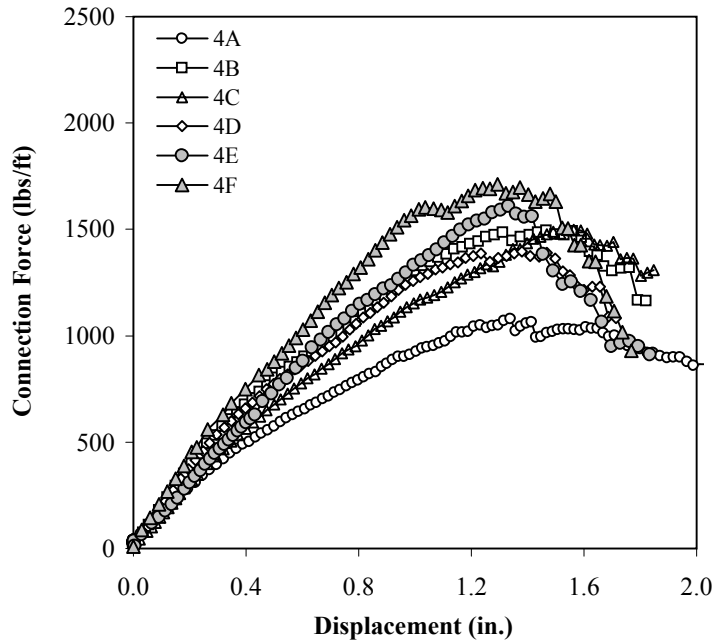


VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)

TEST SERIES NO. 4: Synteen SF35 (SRW5) 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})
4A	35.5	4.2	600	10	5.0	759	1083	$T_{0.75-in.} = 660 + (N) \tan (14^\circ)$
4B	35.5	8.3	1200	20	10.0	1028	1497	
4C	35.5	8.3	1200	20	10.0	923	1503	$T_{peak} = 1020 + (N) \tan (18^\circ)$
4D	35.5	8.3	1200	20	10.0	1005	1395	
4E	35.5	12.5	1800	30	15.0	1080	1623	
4F	35.5	16.7	2400	40	20.0	1245	1711	

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

DATE TESTED: 3 to 4 March 2004



SGI TESTING SERVICES, LLC

FIGURE NO.	C-4
PROJECT NO.	SGI3094
DOCUMENT NO.	SGI04052
FILE NO.	