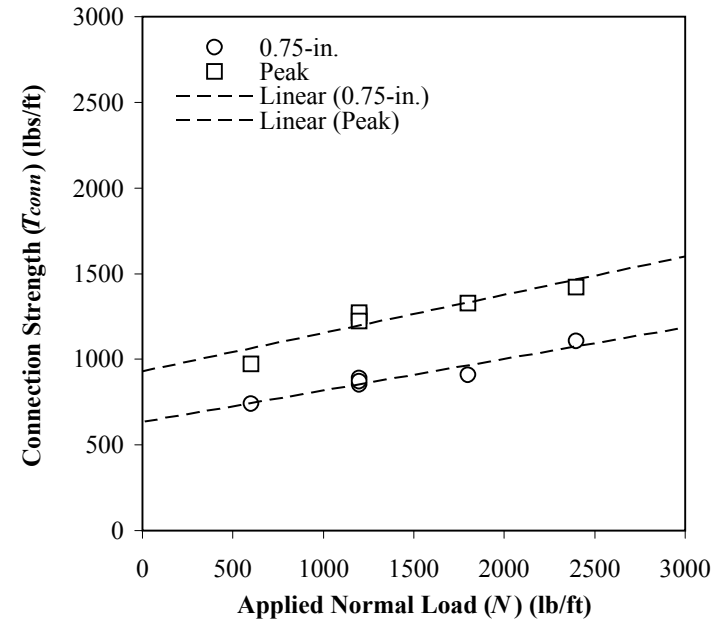
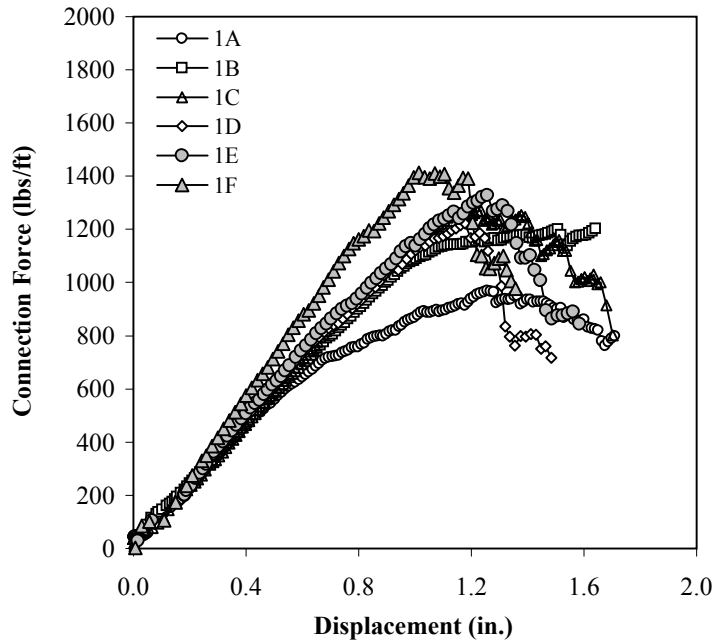


**VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)**

TEST SERIES NO. 1: Fortrac 35/20-20 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	35.5	4.2	600	10	5.0	741	970	$T_{0.75-in.} = 635 + (N) \tan (10^\circ)$ $T_{peak} = 930 + (N) \tan (13^\circ)$
1B	35.5	8.3	1200	20	10.0	850	1250	
1C	35.5	8.3	1200	20	10.0	889	1271	
1D	35.5	8.3	1200	20	10.0	870	1222	
1E	35.5	12.5	1800	30	15.0	907	1328	
1F	35.5	16.7	2400	40	20.0	1105	1421	

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: 19 to 20 February 2004



SGI TESTING SERVICES, LLC

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