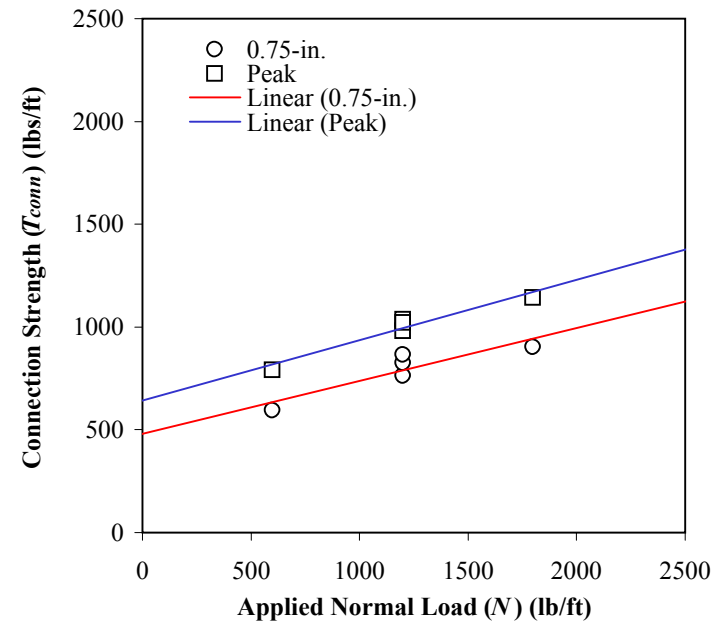
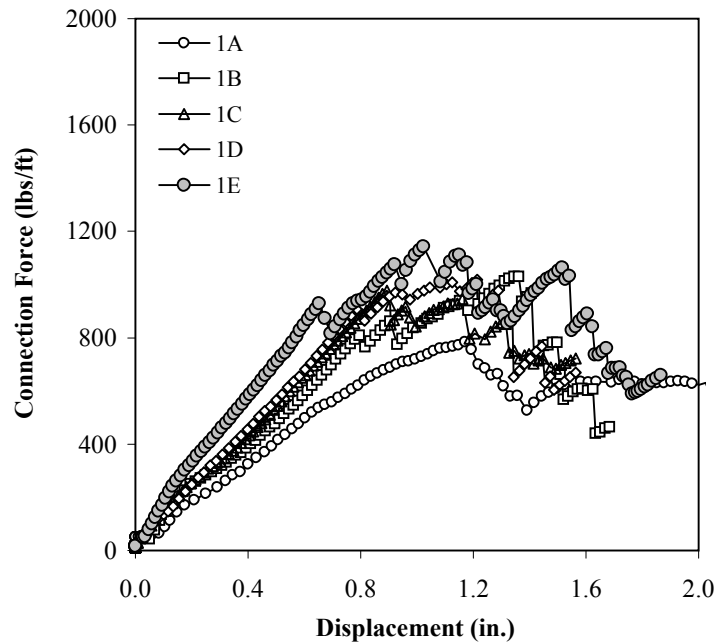


**VYKING WALL SYSTEMS, LLC.
CONNECTION STRENGTH TESTING (ASTM D 6638)**

TEST SERIES NO. 2: Synteen SF 20 (SRW3) geogrid in machine direction within Vyking solid block units with 2 Vyking interlocking pins per block (No 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	34.0	4.2	600	13	6.4	594	791	$T_{0.75-in.} = 480 + (N) \tan (14^\circ)$ $T_{peak} = 640 + (N) \tan (16^\circ)$
1B	34.0	8.3	1200	26	12.9	763	1038	
1C	34.0	8.3	1200	26	12.9	824	981	
1D	34.0	8.3	1200	26	12.9	865	1020	
1E	34.0	12.5	1800	39	19.3	903	1144	

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: 23 to 24 January 2005



SGI TESTING SERVICES, LLC

FIGURE NO.	C-1
PROJECT NO.	SGI3094
DOCUMENT NO.	SGI04052
FILE NO.	