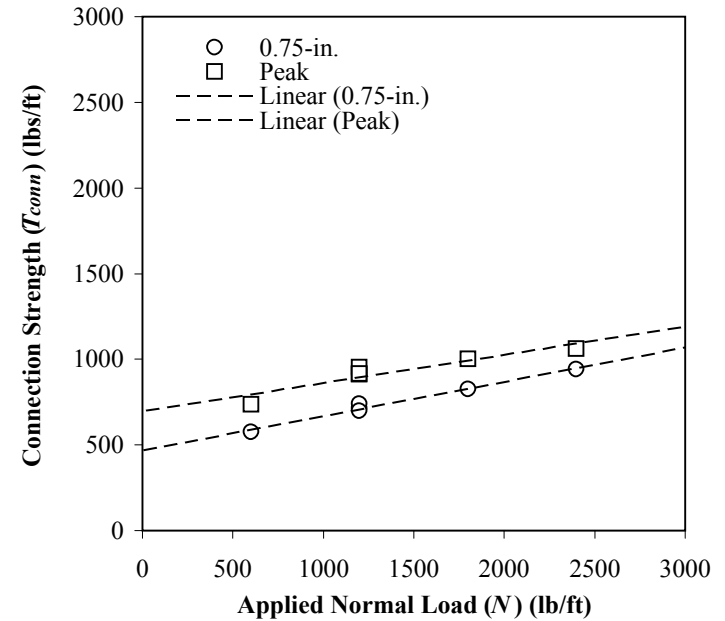
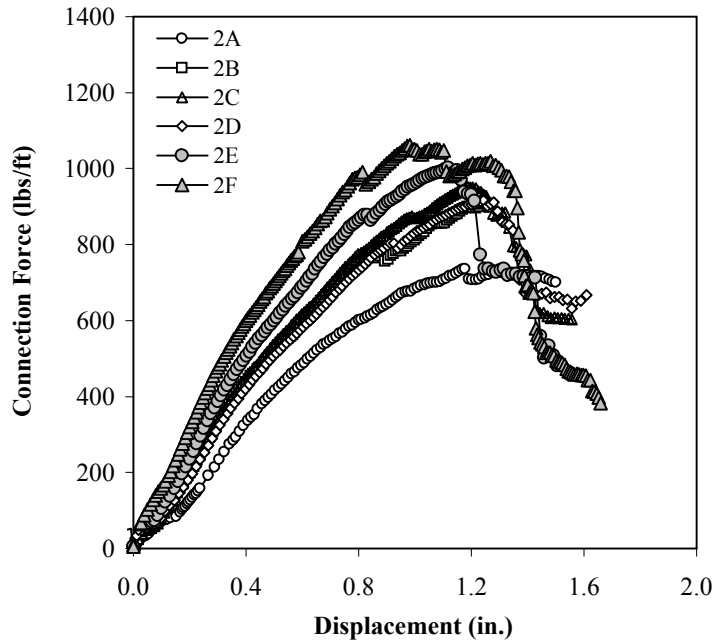


**VYKING WALL SYSTEMS, LLC.  
CONNECTION STRENGTH TESTING (ASTM D 6638)**

TEST SERIES NO. 2: Raugrid 3/3-20 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 $(T_{conn})$
2A	35.0	4.2	600	10	5.0	574	737	$T_{0.75-in.} = 470 + (N) \tan ( 11^{\circ} )$
2B	35.0	8.3	1200	20	10.0	715	910	
2C	35.0	8.3	1200	20	10.0	738	952	$T_{peak} = 700 + (N) \tan ( 9^{\circ} )$
2D	35.0	8.3	1200	20	10.0	698	917	
2E	35.0	12.5	1800	30	15.0	827	1002	
2F	35.0	16.7	2400	40	20.0	943	1061	

**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: 23 to 25 March 2004



**SGI TESTING SERVICES, LLC**

FIGURE NO.	C-2
PROJECT NO.	SGI3094
DOCUMENT NO.	SGI03122
FILE NO.	