

222 Cavalcade Street, 77009-3213
P.O. Box 8768, Houston, Texas 77249-8768
Tel: (713) 692-9151 Fax: (713) 696-6205

Attention: Sam Reese
Sunshine Enterprise, Inc.
2005 Fletcher Creek Dr.
Memphis, TN 38133
P: (901) 452-0188 / F: 901/452-8688

W/O. No.: SUN088-02-27-05571-1
P.O. No.:
Report Date: 2/27/2006

Identification: 3M Verticals with Ledgers

Testing to establish load capacity of rosette/ledger arrangement

AXIAL LOAD TEST RESULTS

Test	Failure Mode	Maximum Load	4:1 Safety Factor
1	Rosette broke	11,811 lbs.	2,953 lbs.
2	Wedge broke	14,173 lbs.	3,543 lbs.

Ledger secured in test frame; axial load applied pulling wedge of ledger away from rosette

VERTICAL SHEAR LOAD TEST RESULTS

Test	Failure Mode	Maximum Load	4:1 Safety Factor
1	Rosette cracked	11,000 lbs.	2,750 lbs.
2	Rosette cracked	11,500 lbs.	2,875 lbs.

Load applied vertically near one wedge of ledger secured between two vertical members.

DOUBLE SHEAR CAPACITY LOAD TEST RESULTS

Loads applied 12" from wedge center, simultaneously on two ledgers.

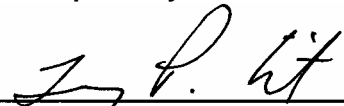
Ledgers secured at both ends between verticals.

Test	Failure Mode	Maximum Load	4:1 Safety Factor
1	Rosette deflection	9,700 lbs.	2,425 lbs.

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Stork SWL, is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork group

Respectfully Submitted

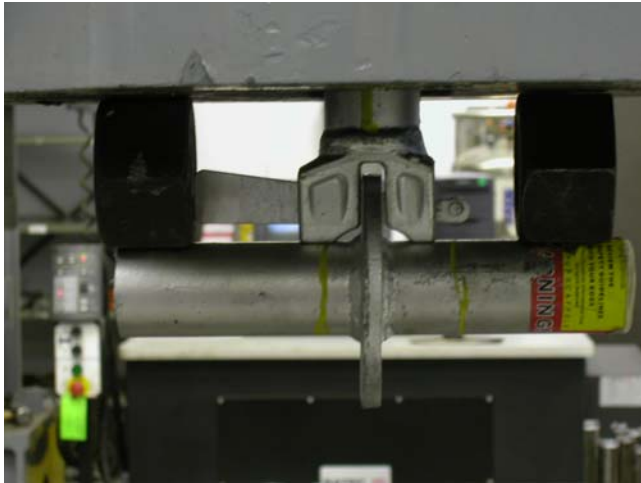

Terry Wilt
Manager, Product Evaluation

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AXIAL LOAD TESTS



Axial Load Test Arrangement



Failure of rosette at 111,811 lbs.

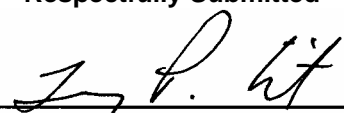


Failure of wedge at 14,173 lbs.

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VERTICAL DOWNWARD SHEAR LOAD TESTS



Test arrangement



Rosette deflection at 11,000 lbs.



Crack in rosette, test #1 at 11,000 lbs.

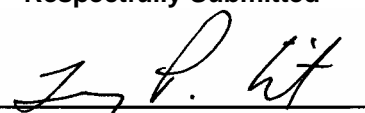


Crack in rosette, test #2 at 11,500 lbs.

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DOUBLE VERTICAL LOAD TEST



Test Arrangement

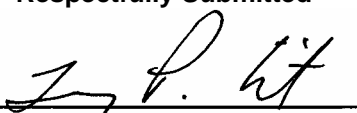


Deflection of rosettes at 9,700 lbs.

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