STORK
Materials Technology

Stork Southwestern Laboratories

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-4
P.O. No.: Screw Jacks
Report Date: 10/3/2005

Identification: Screw Jacks, Item #378J

COMPRESSIVE LOAD TESTING

Screw Jack Extension	Load at Yield	4:1 Safety Factor
6”	52,050 lbs.	13,013 lbs.
12”	35,800 lbs.	8,950 lbs.
18”	35,350 lbs.	8,838 lbs.

Jacks were selected at random from available stock. Jack tested at 12” extension had bend in base plate upon receipt, which lowered the yield load value.


Compressive load test configuration.


6” extension; yield load at 52,050 lbs.

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-4
P.O. No.: Screw Jacks
Report Date: 10/3/2005

12” extension; yield load at 35,800 lbs.

18” extension; yield load at 35,350 lbs.

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

STORK
Materials Technology

Stork Southwestern Laboratories

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-5
P.O. No.: Plank
Report Date: 10/3/2005

7 FT. ALUMINUM PLANK, ITEM #379
LOAD TESTING

Test	Maximum Load	Load, divided by 4:1 Safety Factor	Calculated lbs/ft. load (load/length)
Point load	1,000 lbs.	250 lbs.	---
Uniform Load	1,200 lbs.	300 lbs.	43 lbs. ft.


Point load test configuration


Point load at yield of 1,000 lbs.

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-5
P.O. No.: Plank
Report Date: 10/3/2005

Uniform load test configuration

Uniform load at yield of 1,200 lbs.

Hydraulic rams spaced at 12” centers.

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

STORK
Materials Technology

Stork Southwestern Laboratories

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-6
P.O. No.: Tensiles
Report Date: 10/3/2005

TENSILE TESTING

A section of frame leg, and side bracket were tested from each type of framing submitted.

Test	Dimensions, OD x Wall (in.)	Area, Sq. in	Yield Strength, 0.2% Offset (psi)	Tensile Strength (psi)	Elongation
6'6" x 5" Walk Through	1.65 x 0.084	0.413	67,100	74,700	33 %
5' x 5' Mason	1.65 x 0.098	0.478	50,800	59,500	23 %
Side Bracket	1.65 x 0.080	0.392	56,200	65,900	33 %

Walk through frame – Item #371
Mason frame – Item #377
Side Bracket – Item #373

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

STORK
Materials Technology

Stork Southwestern Laboratories

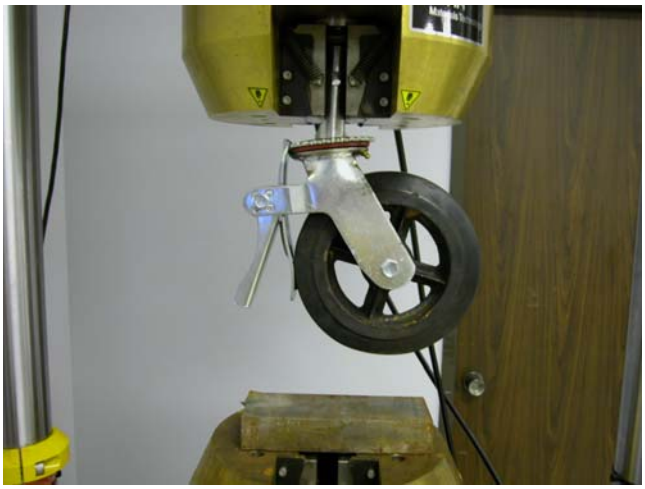
222 Cavalcade Street, 77009-3213
P.O. Box 8768, Houston, Texas 77249-8768
Tel: (713) 692-9151 Fax: (713) 696-6205

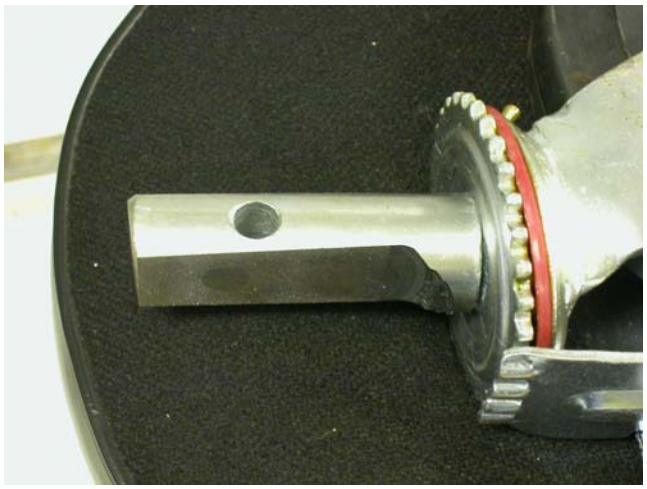
Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-7
P.O. No.: Casters
Report Date: 10/3/2005

SCAFFOLD CASTERS, ITEM #378
COMPRESSIVE LOAD TESTING
Casters tested with 5˚ Offset Load as directed in ANSI/SSFI SC 100-5

Test #	Maximum load
1	4,300 lbs.
2	4,100 lbs.


Test configuration


Both failed at base of stem at base plate

Stems machined to parallel surfaces, at 5˚ angles.

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation

STORK
Materials Technology

Stork Southwestern Laboratories

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

Attention: *Grady Smith*
Urenco
1705 S. Evans Street
Greenville, NC 27834
P: 252-756-3862 / F: 252/756-3849

W/O. No.: URE004-09-08-94079-8
P.O. No.: Side Bracket
Report Date: 10/3/2005

SIDE BRACKET, ITEM #373
LOAD TESTING

Test	Maximum Load	4:1 Safety Factor
1	2,900 lbs.	725 lbs.
2	2,300 lbs.	575 lbs.

A side bracket was attached to scaffold frame member. A load was distributed across the bracket span, and a downward load was applied until failure occurred. The saddle of each bracket tested was the point of failure, as the saddle deflected, or "opened up".

Respectfully Submitted

Terry Wilt
Manager, Product Evaluation