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Coronet Scaffold Group Suzhou Co., Ltd. TEST CER SIFC SIP, Suzhou City Jiangsu Province, China Date:

TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: P.O. No.: W/O No.:

01/15/2013 EHO0006255Q/0 COR006-12-12-09676-1

 Sample Information:
 3 Tier Cup-Lock System

 Part No.:
 3 Meter Vertical CV910, 5' Horizontal CH5, 7' Horizontal CH7

LOAD TEST RESULTS 3 TIER CUP-LOCK SYSTEM TOWER

Load Method: ANSI/SSFI SC100-5/05

| Set # | Max Load (lbs) | Load (Ibs) per Leg | Load (lbs) per Leg at 4:1 Safety Factor | Deviation from Average (%) |
|----------|-------------------|-----------------------|--|-------------------------------|
| 1 | 127,230 | 31,810 | 7,950 | < 1% |
| 2 | 127,960 | 31,990 | 8,000 | < 1% |
| Average: | 127,585 | 31,900 | 7,975 | |



Representative view of system setup



Typical deflection of leg at failure

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Respectfully Submitted

Terry Wilt Department Manager, Metals & Product Testing



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TENSILE TEST RESULTS

Cup-Lock CV910 Verticals

Specifications: N/A Test Method: ASTM A370

Direction: Longitudinal / Full Section

| Specimen Identification | Dimensions OD x Wall Thk. (in.) | Total Load (Ibs) | Yield Strength (psi) | Ultimate Tensile Strength (psi) | |
|----------------------------|------------------------------------|---------------------|-------------------------|------------------------------------|--|
| 1 | 1.928 x 0.130 | 58,900 | 68,000 | 80,200 | |
| 2 | 1.924 x 0.130 | 60,000 | 70,000 | 81,900 | |
| 3 | 1.922 x 0.130 🕖 | 57,900 | 71,000 | 79,200 | |
| 4 | 1.928 x 0.130 | 50,300 | 57,000 | 68,500 | |
| SUZA | | | | | |

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AXIAL LOAD TEST RESULTS

Using CV910 Verticals with CH5 and CH7 Horizontals

A ledger was connected to the cup assmebly, and the ledger was pulled at a 90 degree angle away from the vertical leg to create an axial loading test on the ledger blade and cup-lock connection.

| Specimen Identification | Dimensions OD x Wall Thk. (in.) | Total Load (Ibs) | Failure |
|-------------------------|------------------------------------|---------------------|----------------|
| 1 | 1.925 x 0.130 | 17,920 | Cup-Weld |
| 2 | 1.925 x 0.130 | 17,320 | Cup-Weld |
| 3 | 1.925 x 0.130 | 19,910 | Blade/Cup-Weld |
| 4 | 1.925 x 0.130 | 21,500 | Cup-Weld |



Cup-Weld Failure



Blade-Weld Failure

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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09676-3

CUP-LOCK SYSTEM CV 910 Verticals

Two separate verticals were tested

CHEMICAL ANALYSIS RESULTS

| 2 | Specification: Q345A | | | | | | |
|---------|----------------------|----------|---------|---------|--|--|--|
| Element | | Result % | Min. % | Max. % | | | |
| *C | ľ | 0.16 | 0.02 | 0.20 | | | |
| Mn 🔪 | - | 1.34 | 1.00 | 1.60 | | | |
| Р | = | 0.015 | - | 0.045 | | | |
| *S | | 0.005 | - | 0.045 | | | |
| Si | = | 0.31 | - | 0.55 | | | |
| Cr | = | 0.10 | - | NS | | | |
| Ni | < | 0.01 | - | NS | | | |
| Fe | = | Balance | Balance | Balance | | | |

| Element | | Result % | Min. % | Max. % | |
|---------|---|----------|---------|---------|--|
| *C | = | 0.16 | 0.02 | 0.20 | |
| Mn | = | 1.32 | 1.00 🥥 | 1.60 | |
| Р | = | 0.015 | - | 0.045 | |
| *S | = | 0.004 | - | 0.045 | |
| Si | = | 0.30 | - | 0.55 | |
| Cr | = | 0.10 | - | NS • | |
| Ni | < | 0.01 | - | NS 🍼 | |
| Fe | = | Balance | Balance | Balance | |

Chemical Analysis Performed by Optical Emission per SOP 30.01 • *Carbon and Sulfur were determined by Infrared Combustion per ASTM Method E1019

The samples tested conform to the specification requirements.

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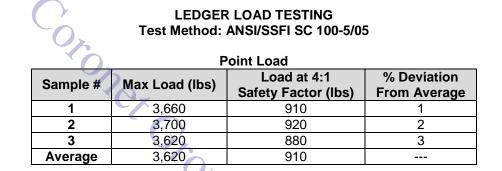
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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09676-2

Sample Information:Cuplock Horizontal 5'Part No.:CH5





Point Load Test Setup



Typical Deflection at Maximum Load

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Sample Information:Cuplock Horizontal 5'Part No.:CH5

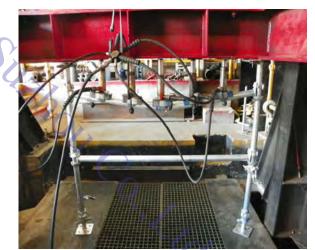
LEDGER LOAD TESTING Test Method: ANSI/SSFI SC 100-5/05

Uniform Distributed Load

| Sample # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average |
|----------|----------------|------------------------------------|-----------------------------|
| 1 | 6,230 | 1,560 | 2 |
| 2 | 6,130 | 1,530 | 0 |
| 3 | 6,030 | 1,510 | 2 |
| Average | 6,130 | 1,530 | |



Distributed Load Test Setup



Typical Deflection at Maximum Load

Respectfully Submitted

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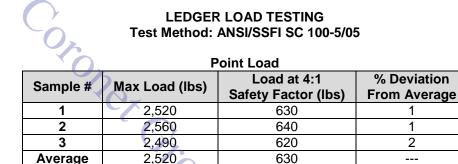
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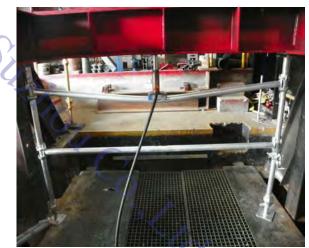
Sample Information: Part No.:

Cuplock Horizontal 7' CH7





Point Load Test Setup



Typical Deflection at Maximum Load

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Sample Information: Part No.:

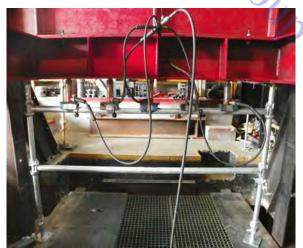
LEDGER LOAD TESTING

Cuplock Horizontal 7'

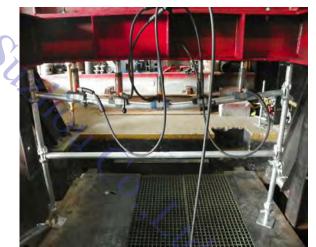
CH7

Test Method: ANSI/SSFI SC 100-5/05

| Sample # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average | |
|----------|----------------|------------------------------------|-----------------------------|--|
| 1 | 4,220 | 1,060 | 2 | |
| 2 | 4,320 | 1,080 | 1 | |
| 3 | 4,320 | 1,080 | 1 | |
| Average | 4,290 | 1,070 | | |



Distributed Load Test Setup



Typical Deflection at Maximum Load

Respectfully Submitted

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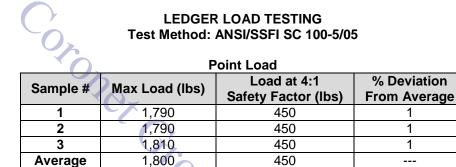
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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09676-2

Sample Information: Part No.:

Cuplock Horizontal 10' CH10





Point Load Test Setup



Typical Deflection at Maximum Load

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Sample Information: Part No.: Cuplock Horizontal 10' CH10

LEDGER LOAD TESTING Test Method: ANSI/SSFI SC 100-5/05 Uniform Distributed Load

% Deviation Max Load (lbs) Sample # Safety Factor (lbs) From Average 4,020 1,010 2 1 3,920 980 0 2 950 3 3,820 3 Average 980 3.920 ---



Distributed Load Test Setup



Typical Deflection at Maximum Load

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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09684-2

Description:Hollow Screw JacksPart No.:SJB

LOAD TEST RESULTS

Test Method: ANSI/SSFI SC100-5/05

| Sample # | Extension (in.) | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation from Average |
|----------|--------------------|-------------------|------------------------------------|-----------------------------|
| 1 | 6 | 48,100 | 12,025 | 3 |
| 2 | 6 | 48,800 | 12,200 | 1 |
| 3 | 6 | 51,500 | 12,875 | 4 |
| Average | \ | 49,470 | 12,370 | |



6" extension setup



6" typical deflection

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01/15/2013 EHO0006255Q/0 COR006-12-12-09684-2



Hollow Screw Jacks SJB

LOAD TEST RESULTS

| LOAD TEST RESULTS | | | | | | |
|-----------------------------------|---|--------|--------|---|--|--|
| Test Method: ANSI/SSFI SC100-5/05 | | | | | | |
| Sample # | Sample # Extension (in.) Max Load (lbs) Load at 4:1 % Deviation from Average | | | | | |
| 1 | 12 | 44,310 | 11,080 | 9 | | |
| 2 | 12 | 38,240 | 9,560 | 6 | | |
| 3 | 12 | 37,710 | 9,430 | 7 | | |
| 4 | 12 | 42,130 | 10,530 | 4 | | |
| Average | | 40,600 | 10,020 | | | |



12" extension setup



12" typical deflection

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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09684-2



Hollow Screw Jacks

LOAD TEST RESULTS

Test Method: ANSI/SSFI SC100-5/05

| Sample # | Extension (in.) | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation from Average |
|----------|--------------------|-------------------|------------------------------------|-----------------------------|
| 1 | 18 | 41,650 | 10,710 | 5 |
| 2 | 18 | 39,220 | 9,805 | 1 |
| 3 | 18 | 38,440 | 9,610 | 3 |
| Average | | 39,770 | 9,940 | |



18" extension setup



18" typical deflection

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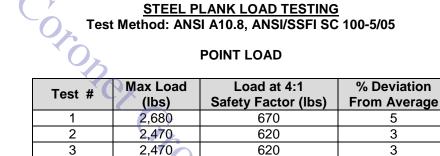
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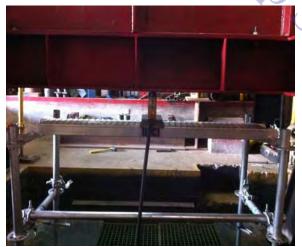
640

01/15/2013 EHO0006255Q/0 COR006-12-12-09684-1

Description:5' Steel PlankPart No.:SSP5



2,540



Average

5' point load setup



Typical 5' point load deflection

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Department Manager, Metals & Product Testing



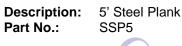
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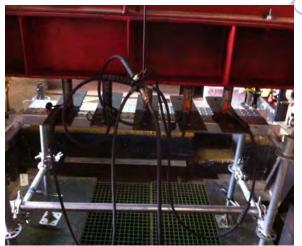
Coronet Scaffold Group Suzhou Co., Ltd.



STEEL PLANK LOAD TESTING Test Method: ANSI A10.8, ANSI/SSFI SC 100-5/05

UNIFORMLY DISTRIBUTED LOAD

| Test # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average |
|---------|-------------------|------------------------------------|-----------------------------|
| 1 | 4,820 | 1,210 | 3 |
| 2 | 5,030 | 1,260 | 1 |
| 3 | 5,030 | 1,260 | 1 |
| Average | 4,960 🤇 | 1,240 | |



5' UDL setup



Typical 5' UDL deflection

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Description: Part No.:



Coronet Scaffold Group Suzhou Co., Ltd.

STEEL PLANK LOAD TESTING Test Method: ANSI A10.8, ANSI/SSFI SC 100-5/05

POINT LOAD

| Test # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average |
|---------|-------------------|------------------------------------|-----------------------------|
| 1 | 2,060 🤇 | 520 | 2 |
| 2 | 2,060 | 520 | 2 |
| 3 | 1,950 | 490 | 4 |
| Average | 2,020 | 510 | |



7' point load setup



Typical 7' point load deflection

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Department Manager, Metals & Product Testing



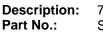
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7' Steel Plank SSP7

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STEEL PLANK LOAD TESTING Test Method: ANSI A10.8, ANSI/SSFI SC 100-5/05

UNIFORMLY DISTRIBUTED LOAD

| Test # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average |
|---------|-------------------|------------------------------------|-----------------------------|
| 1 | 3,520 | 880 | 5 |
| 2 | 3,770 🤇 | 940 | 2 |
| 3 | 3,770 | 940 | 2 |
| Average | 3,680 | 920 | |



7' UDL setup



Typical 7' UDL deflection

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Terry Wilt

Department Manager, Metals & Product Testing

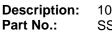


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Date: P.O. No.: W/O No.: 01/15/2013 EHO0006255Q/0 COR006-12-12-09684-1



10' Steel Plank SSP10

| STEEL PLANK LOAD TESTING Test Method: ANSI A10.8, ANSI/SSFI SC 100-5/05 POINT LOAD | | | | | |
|--|-------------------|------------------------------------|-----------------------------|--|--|
| Test # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average | | |
| 1 | 1,340 | 340 | 0 | | |
| 2 | 1,340 | 340 | 0 | | |
| 3 | 1,340 🤇 | 340 | 0 | | |
| Average | 1,340 | 340 | | | |



10' point load setup



Typical 10' point load deflection

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Jiangsu Province, China

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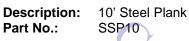
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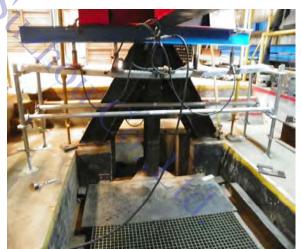
STEEL PLANK LOAD TESTING Test Method: ANSI A10.8, ANSI/SSFI SC 100-5/05

UNIFORMLY DISTRIBUTED LOAD

| Test # | Max Load (lbs) | Load at 4:1 Safety Factor (Ibs) | % Deviation From Average |
|---------|-------------------|------------------------------------|-----------------------------|
| 1 | 2,310 | 580 | 1 |
| 2 | 2,310 | 580 | 1 |
| 3 | 2,210 | 550 | 3 |
| Average | 2,280 🦕 | 570 | |



10' UDL setup



Typical 10' UDL deflection

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