TECHNICAL MANUAL

WE
PROVIDE
SCAFFOLDING
GLOBALLY.

Building the Future.

CORONET 2026

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1. PRESENTATION

This manual provides the necessary instructions for the correct assembly and safety use Coronet Ringlock/Multidirectional Scaffold System.

The company that hires the scaffolding has the responsibility to inform the workers that they are going to use such scaffolding from the information contained in this “Technical Manual”. They must also make sure that the users who mount or use the towers are formed in accordance with current regulations.

Brief introduction of Coronet Group

Since its inception in the scaffolding business, the 'Coronet®' brand has stood for quality. With nearly two decades of successful operation, Coronet has emerged as the world's largest exporter of scaffolding to the North American market over the past years, as per the latest publicly available custom data.

Coronet USA serves as the American division of the Coronet Scaffolding Group. Our corporate offices are based in Suzhou, China, while our American operations are directed from offices in Houston, TX, New Orleans, LA, and Conception, Chile.

As a leading player in the scaffolding industry, we prioritize the well-being and happiness of our employees, whom we consider the cornerstone of our success. With values centered on 'customer first,' 'integrity,' and 'team cooperation,' Coronet stands out as an active, innovative, and passionate company. We extend our gratitude to all those who have placed their trust in Coronet over the years, and we welcome new customers to join us in our journey.

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Automated Production

Coronet® scaffolding has larger supply chain, with more than $ 100 million annual capacity.

We focus on automated scaffold production, starting with the Phase I, semi-automatic welding machines and steel deck shaping systems. Until now, it includes fully automatic hot-dip galvanizing plant, welding and packaging assembly line.

We continue to adopt highly-automated manufacturing to meet high quality and quick delivery requirements.

Coronet Ringlock System

The Coronet ringlock scaffold system uses the highest quality steel and our products are finished and protected by hot-dipped zinc galvanizing.This method of finishing maximizes the utilization and extends the product life.

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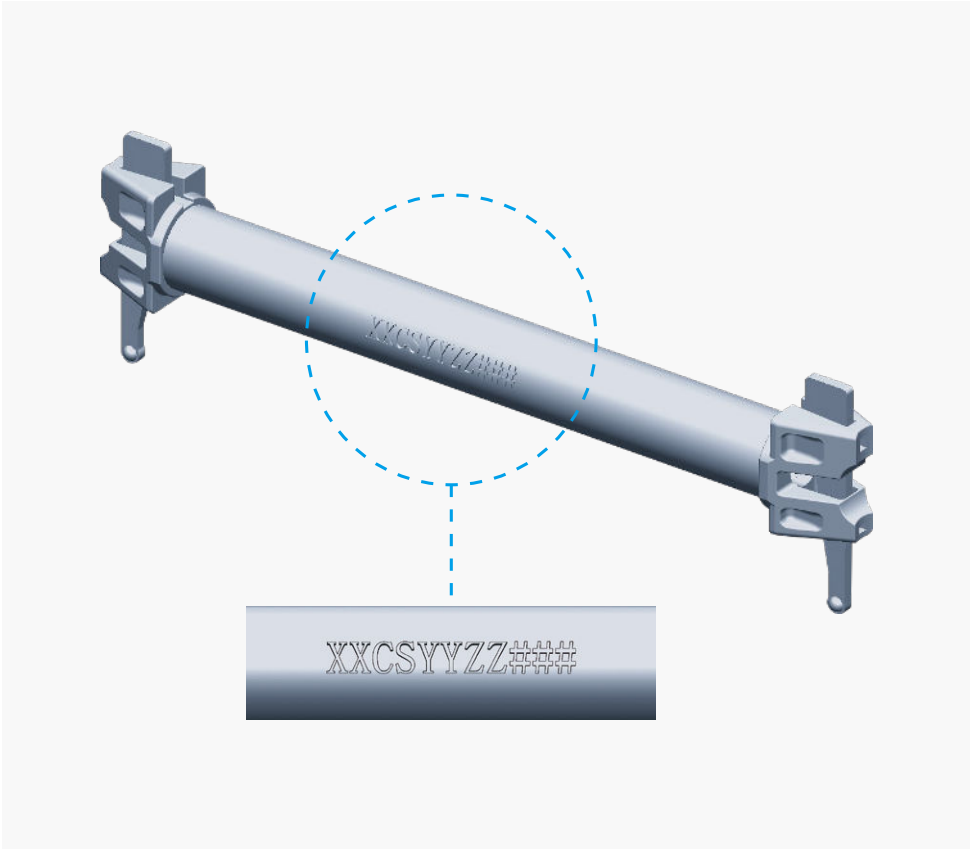
All coronet components are stamped with traceability marks.

Batch number: XX CS YY ZZ ###
XX= Serial Number CS= Coronet Scaffold YY= Month of Manufacture
ZZ= Year of Manufacture ###= Order Number



The following diagram represents the most common Ringlock components used. Most Scaffold structure are made from these basic components yet the Ringlock system comes with a variety of accessories for all your scaffolding requirements.

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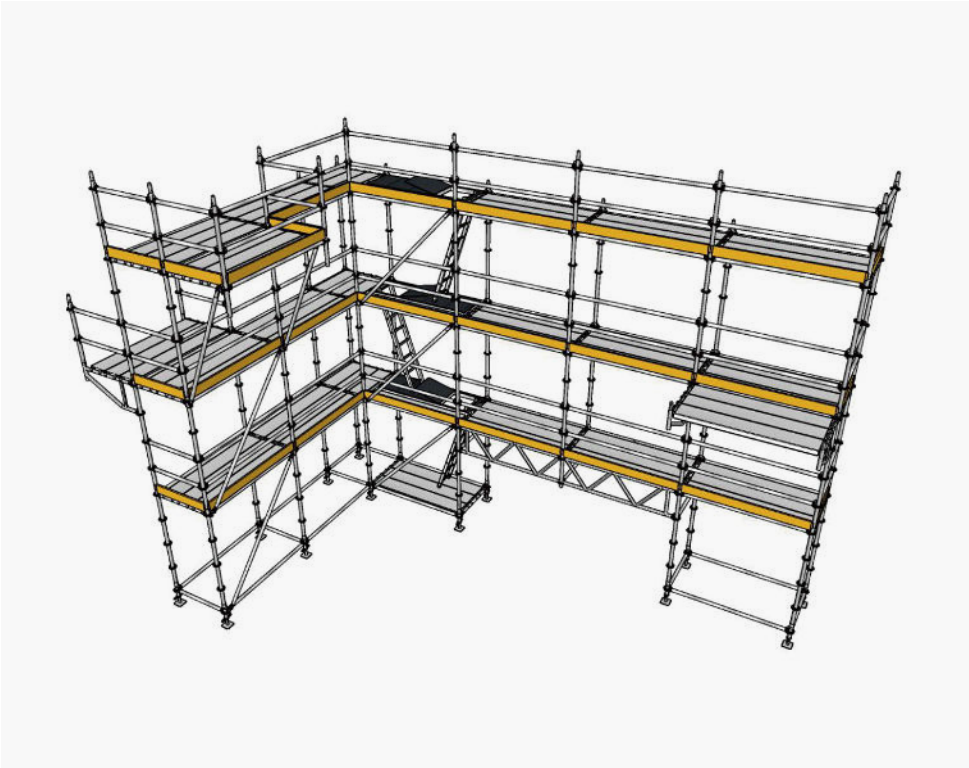

The elements that make up the supporting structure of the system, mostly tubular profiles, generally have the following measurements:

Outside Diameter: 48.3 mm
Wall thickness 3.2 mm
Steel Grade: Q355 High Tensile Strength Steel or Q235 Steel

All comply with American, Canadian, Europe, Australian, and OSHA standards.

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2.SPECIFICATION

Definition and use

The Ringlock system is a modular scaffold made up of elements Standard, Ledger and Diagonal brace that are connected to each other forming a rigid structure. The connection is a knot or rosette made up of a disk with 8 positions, located at a distance of 0.50 meters on the verticals.

Coronet ringlock scaffolding systems allow the Ledger of scaffolding to be used in diagonal or multi-angle combinations to facilitate their application on different building facades.

These systems are especially used in the construction industry, building maintenance, power generation, chemical processing, oil refining, aviation, shipbuilding and other industrial fields.

The Coronet ringlock scaffolding system is manufactured with high-strength steels and automatic welding processes. This ensures that the stability of the scaffolding is higher than that of common products.

Technical data

Modular connection by knot or rosette

The connection to the standard load-bearing element of various components of the Coronet ringlock scaffolding system is made by means of a specially shaped knot or rosette, welded every 0.50 m on the standards, in combination with the ends of the Ledger pieces, which have a wedge that must be embedded or inserted in the different holes of the rosette.

Flat rosette has four narrow holes and four large holes once the wedge is well secured,the four narrow holes fix the ledger automatically and firmly at the correct angles. Four large holes allow alignment of ledgers and diagonal braces at the required angle.

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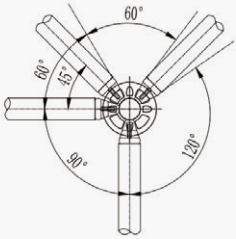
Welding details of rosette in vertical direction

Finished Products in Package

Once the wedge is well secured,the four narrow holes fix the ledger automatically and firmly at the correct angles. Four large holes allow alignment of ledgers and diagonal braces at the required angle.



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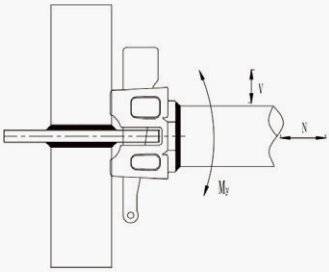
Connection of ledger elements with the rosette.

- Slide the end of the ledger that carries the wedge over the flat rosette.
- Insert the wedge into one of the holes.
- Fix the wedge with a metal hammer until the impact rebounds.

The connection becomes a force-transmitting rigid connection that can immediately carry loads in all directions.



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3.MATERIALS

We only use the highest quality steel in our products. Our steel is certified and tested in Element and MTS laboratories respectively and it conforms to or exceeds industry standards no matter the location or climate.

Steel Grade	Q355B
Lab.	Element Materials Technology
Test Method	ASTM A370
Yield Strength	63750psi (440Mpa)
Tensile Strength	75525psi (521Mpa)
Elongation	22%

Element Laboratory (United States) Testing Report:

element

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TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09683-3

RING-LOCK SYSTEM

TENSILE TEST RESULTS

Specifications: n/a
Test Method: ASTM A370

Direction: Longitudinal / Full Section

Specimen Identification	Dimensions OD x Wall Thk. (in.)	Total Load (lbs)	Yield Strength (psi)	Ultimate Tensile Strength (psi)
1	1.928 x 0.130	56,100	64,000	76,400
2	1.923 x 0.130	55,300	64,000	76,500
3	1.923 x 0.130	54,500	65,000	74,400
4	1.926 x 0.130	54,800	62,000	74,800

4.LOADING CAPACITY OF COMPONENTS

In our Coronet Ringlock Scaffolding system, we achieve the highest levels of stability and robustness, based on the great load capacity of the components that form it, together with the optimal union system by means of a knot or rosette defined above.

3 TIER RINGLOCK SYSTEM TOWER

Laboratory & Standard:
ANSI/SSFI SC100-5/05, Element Materials Technology Laboratory in Huston, United States
Part No.: 3 Meter Vertical RV910, 5' Horizontal RH50, 7' Horizontal RH70
Test Method: ANSI/SSFI SC100-5/05

Set#	Max Load	Load Per Leg	Load per Leg at 4:1 Safety Factor	Deviation from Average
	[LBS]	[LBS]	[LBS]	%
1	85,210	21,300	5,330	7%
2	74,390	18,600	4,650	6%
3	78,830	19,710	4,930	1%
Average	79,475	19,870	4,965	/

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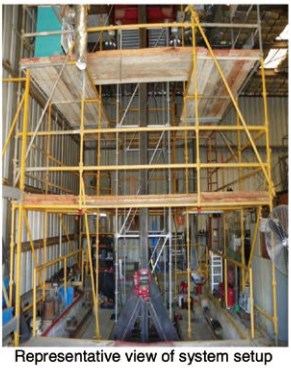
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09683-1

Sample Information: 3 Tier Ring System Shoring
Part No.: 3 Meter Vertical RV910, 5' Horizontal RH50, 7' Horizontal RH70

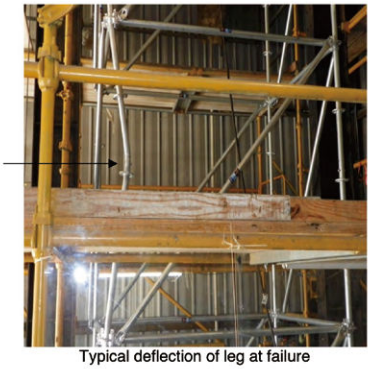
LOAD TEST RESULTS
3 TIER RING SYSTEM TOWER

Load Method: ANSI/SSFI SC100-5/05

Set #	Max Load (lbs)	Load (lbs) per Leg	Load (lbs) per Leg at 4:1 Safety Factor	Deviation from Average (%)
1	85,210	21,300	5,330	7%
2	74,390	18,600	4,650	6%
3	78,830	19,710	4,930	1%
Average:	**79,475**	**19,870**	**4,965**	---



Representative view of system setup



Typical deflection of leg at failure

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Axial Load Test Results

Laboratory & Standard:
ANSI/SSFI SC100-5/05, Element Materials Technology Laboratory in Huston, United States
Part No.: RV910 Verticals with RH50 and RH70 Horizontals
Test Method: ANSI/SSFI SC100-5/05
A ledger was connected to the rosette, and the ledger was pulled at a 90 degree angle away from the vertical leg to create an axial loading test on the rosette and ledger head connection.

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TEST CERTIFICATE — EAR-CONTROLLED DATA

Date:	01/15/2013
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W/O No.:	COR006-12-12-09683-3

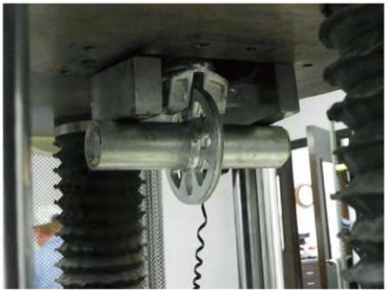
RING-LOCK SYSTEM

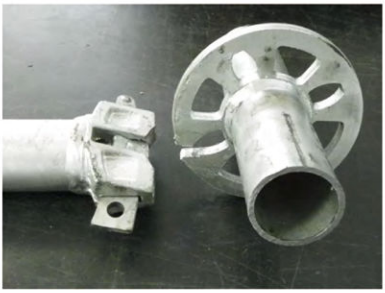
Using RV910 Verticals with RH50 and RH70 Horizontals

AXIAL LOAD TEST RESULTS

A ledger was connected to the rosette, and the ledger was pulled at a 90 degree angle away from the vertical leg to create an axial loading test on the rosette and ledger head connection.

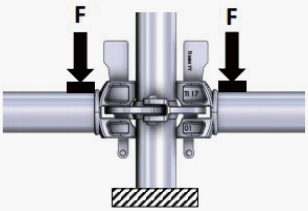
Specimen Identification	Dimensions OD x Wall Thk. (in.)	Total Load (lbs)	Failure
1	1.923 x 0.130	15,110	Rosette
2	1.923 x 0.130	16,830	Rosette
3	1.923 x 0.130	16,520	Rosette



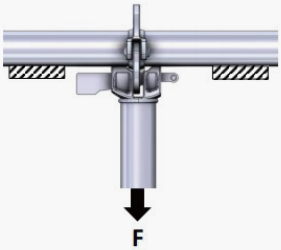


Ringlock System Node Capcitites

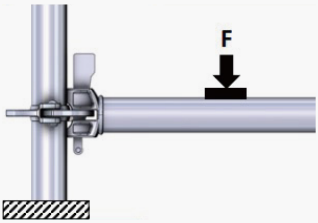
Compared with typical modular scaffolding systems used in the global market, the Coronet ringlock connection provides:
Reliable vertical shear capacity suitable for industrial scaffolding applications. Strong horizontal load resistance ensuring system stability. Adequate moment capacity consistent with modular scaffold design principles.
The following values and the values throughout this manual are "Safe Working Loads". These arederived by the testing load divided by the safe working load factor 4:1.



VERTICAL SHEAR FORCE TEST



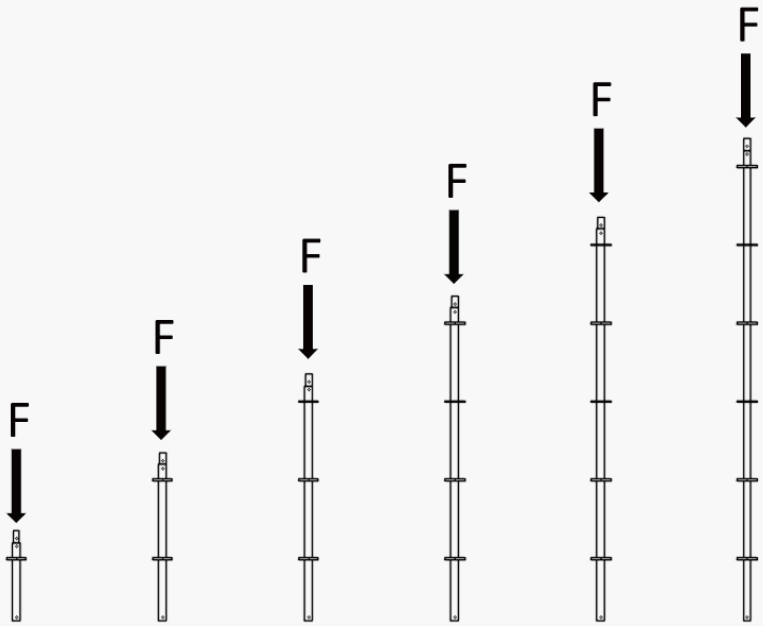
HORIZONTAL FORCE TEST



BENDING MOMENT

Description	Safe Work Load	
	Lbs	kN
Vertical Shear Force Test	2650	12
Horizontal Force Test	4130	18.7
	Lbs-ft	kN-m
Bending Moment (+)	295	0.4

Ringlock Standard



Item No.	Description	Safe Work Load	
		Lbs	kN
RL0010	1 Ring Standard 0. 5m w/spigot	8815	40.0
RL0084	2 Ring Standard 1.0m w/spigot	7050	32.0
RL0096	3 Ring Standard 1.5m w/spigot	6170	28.0
RL0218	4 Ring Standard 2.0m w/spigot	5290	24.0
RL0182	5 Ring Standard 2.5m w/spigot	4850	22.0
RL0264	6 Ring Standard 3.0m w/spigot	4410	20.0
RL0906	8 Ring Standard 4.0m w/spigot	3965	18.0

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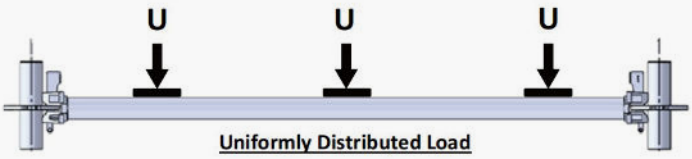
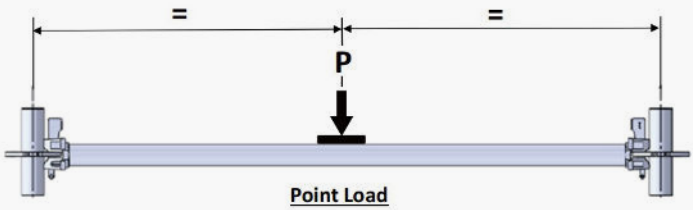
Ringlock Rossete Clamp





Safe Working Loads On Next Page.

Item No.	Description	Effective length		Uniformly Distributed Load ("U")		Centre Point Load ("P")	
		Ft-Inch	Meter	Lbs/ft	kN/m	Lbs	kN
RL0120	1′ Ledger	1′	0.305	2015	30.0	2204	10.0
RL0633	2′ Ledger	2′	0.610	1345	20.0	1652	7.5
RL0681	2′2″ Ledger	2′2″	0.650	1210	18.0	1586	7.2
RL1482	2′5″ Ledger	2′5″	0.732	1010	15.0	1542	7.0
RL1509	2′10″ Ledger	2′10″	0.880	810	12.0	1432	6.5
RL0268	3′ Ledger	3′	0.914	675	10.0	1322	6.0
RL0621	3′6″ Ledger	3′6″	1.065	555	8.2	1212	5.5
RL1483	3′7″ Ledger	3′7″	1.090	540	8.0	1190	5.4
RL0680	3′10″ Ledger	3′10″	1.150	470	7.0	1080	4.9
RL1461	4′ Ledger	4′	1.220	405	6.0	1036	4.7
RL1484	4′3″ Ledger	4′3″	1.286	340	5.0	992	4.5
RL0620	5′ Ledger	5′	1.524	260	3.8	874	3.9
RL0679	5′2″ Ledger	5′2″	1.572	230	3.4	837	3.8
RL1384	5′4″ Ledger	5′4″	1.625	205	3.0	772	3.5
RL1479	6′ Ledger	6′	1.829	175	2.6	640	2.9
RL1503	6′9″ Ledger	6′9″	2.072	155	2.3	530	2.4
RL1434	7′ Ledger	7′	2.130	150	2.2	450	2.0
RL0349	8′ Ledger	8′	2.440	135	2.0	420	1.9
RL1485	8′6″ Ledger	8′6″	2.572	125	1.8	397	1.8
RL1510	9′ Ledger	9′	2.743	110	1.6	375	1.7
RL0636	10′ Ledger	10′	3.050	102	1.5	350	1.5

● NOTES

These loading specifications are provided for ledger strength only. The maximum allowable load for this product must be determined from the verticals which the ledgers are attached to, their connection points the platform material used on the ledgers or the specification in the chart above, whichever is less.

Factor of Safety 4:1

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TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 01/15/2013
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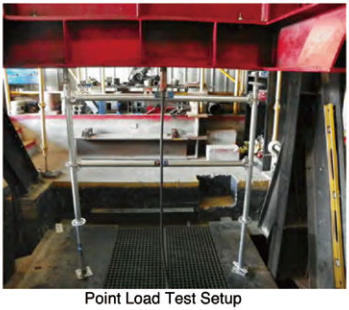
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 5'
Part No.: RH50

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

Point Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	3,497	874	0
2	3,497	874	0
3	3,497	874	0
Average	3,497	874	---


Point Load Test Setup

Typical Deflection at Maximum Load

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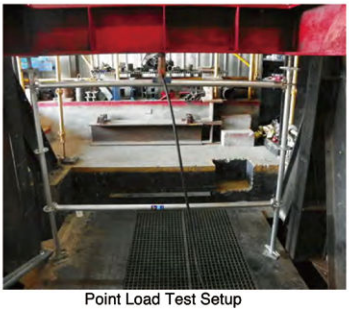
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 7'
Part No.: RH70

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

Point Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	1,790	450	1
2	1,770	440	3
3	1,860	460	3
Average	1,810	450	---


Point Load Test Setup

Typical Deflection at Maximum Load

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Date: 01/15/2013
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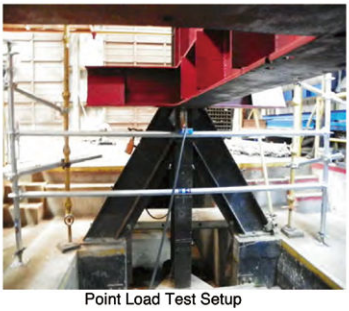
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 10'
Part No.: RH100

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

Point Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	1,370	340	1
2	1,390	350	1
3	1,390	350	1
Average	1,380	350	---


Point Load Test Setup

Typical Deflection at Maximum Load

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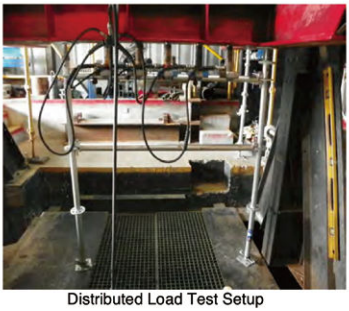
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 5'
Part No.: RH50

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

Uniform Distributed Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	5,230	1,310	1
2	5,330	1,330	3
3	5,030	1,260	4
Average	5,190	1,300	---


Distributed Load Test Setup

Typical Deflection at Maximum Load

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TEST CERTIFICATE — EAR-CONTROLLED DATA

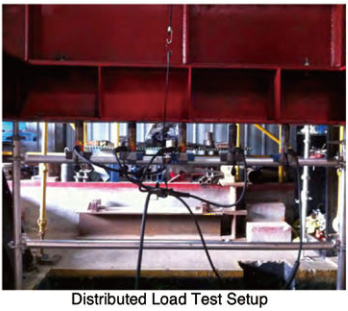
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 7'
Part No.: RH70

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

Uniform Distributed Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	4,020	1,010	7
2	4,420	1,110	3
3	4,420	1,110	3
Average	4,290	1,070	---


Distributed Load Test Setup

Typical Deflection at Maximum Load

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TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09683-2

Sample Information: Ringlock Horizontal 10'
Part No.: RH100

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

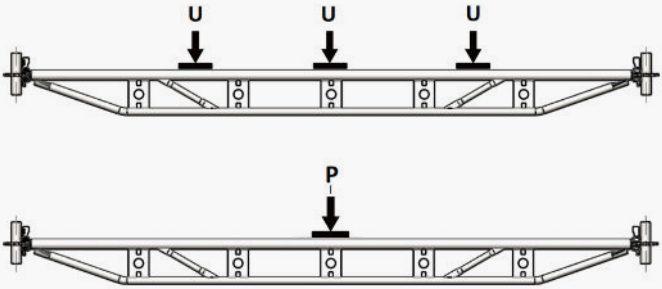
Uniform Distributed Load

Sample #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% Deviation From Average
1	4,520	1,130	9
2	3,920	980	6
3	4,020	1,010	4
Average	4,150	1,040	---

Distributed Load Test Setup

Typical Deflection at Maximum Load

Ringlock Truss Ledger O-Type



Item No.	Description	Effective length		Uniformly Distributed Load ("U")		Centre Point Load ("P")	
		Ft-Inch	Meter	Lbs/ft	kN/m	Lbs	kN
RL1511	5′ Truss Ledger	5′	1.524	875	13.0	2160	9.8
RL1512	5′2″ Truss Ledger	5′2″	1.572	805	12.0	2095	9.5
RL1513	6′ Truss Ledger	6′	1.829	740	11.0	1985	9.0
RL1514	7′ Truss Ledger	7′	2.130	605	9.0	1810	8.2
RL0624	8′ Truss Ledger	8′	2.440	505	7.5	1675	7.6
RL1515	8′6″ Truss Ledger	8′6″	2.572	440	6.5	1630	7.4
RL1516	9′ Truss Ledger	9′	2.743	405	6.0	1590	7.2
RL1517	10′ Truss Ledger	10′	3.050	370	5.5	1565	7.1

NOTES

These loading specifications are provided for double ledger strength only. The maximum allowable load for this product must be determined from the verticals to which the double ledgers are attached to, their connection points, and the platform material used on the ledgers or the specification in the chart above, whichever is less.

Factor of Safety 4:1

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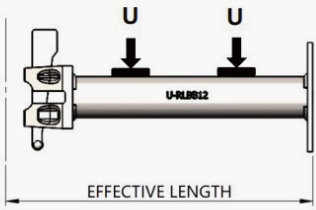
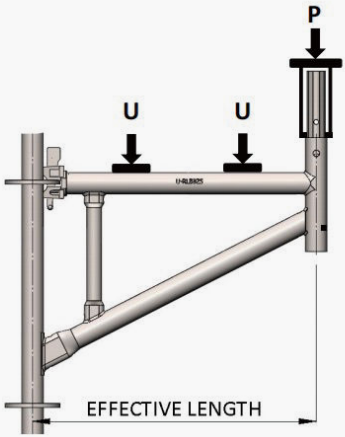
Ringlock Side Brackets





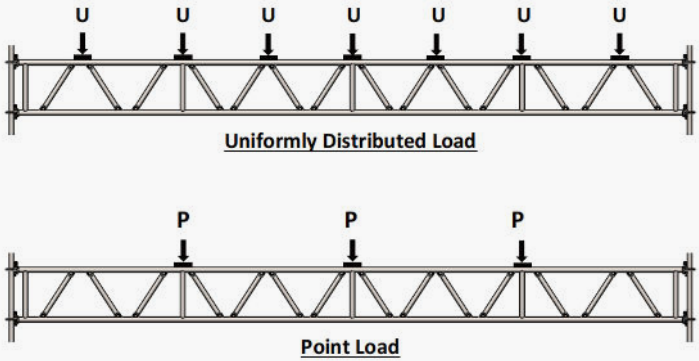
Item No.	Description	Effective length		Uniformly Distributed Load ("U")		Centre Point Load ("P")	
		Ft-Inch	Meter	Lbs/ft	kN/m	Lbs	kN
RL0642	1′ Side Bracket	1′	0.310	402	6.0	300	1.4
RL1649	2′ Side Bracket	2′	0.610	872	13.0	885	4.0
RL1523	2′2″ Side Bracket	2′2″	0.650	772	11.5	860	3.9
RL1490	2′5″ Side Bracket	2′5″	0.732	671	10.0	820	3.7
RL1524	2′10″ Side Bracket	2′10″	0.880	570	8.5	775	3.5
RL0270	3′ Side Bracket	3′	0.914	537	8.0	710	3.2

NOTES

These loading specifications are provided for double ledger strength only. The maximum allowable load for this product must be determined from the verticals to which the double ledgers are attached to, their connection points, and the platform material used on the ledgers or the specification in the chart above, whichever is less.

Factor of Safety 4:1

Ringlock Lattice Girder



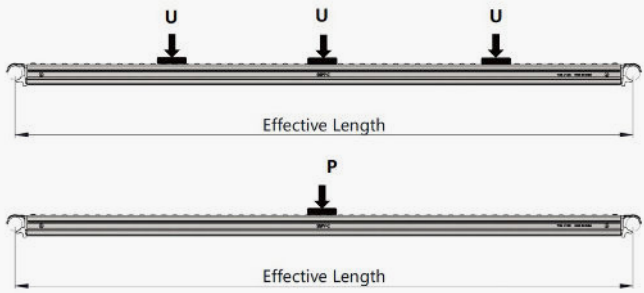
Item No.	Description	Effective length		Uniformly Distributed Load ("U")		Centre Point Load ("P")		
		Ft-Inch	Meter	Lbs	kN	Lbs	kN	No of Load Points
RL1527	10′ Lattice Girder	10′	3.05	4410	20.0	2645	12.0	1
RL1492	14′ Lattice Girder	14′	4.26	3200	14.5	1875	8.5	1
RL1528	16′ Lattice Girder	16′	4.88	3090	14.0	1765	8.0	1
RL1529	17′ Lattice Girder	17′	5.18	2980	13.5	1545	7.0	1
RL1493	21′ Lattice Girder	21′	6.39	2650	12.0	1765	8.0	2
RL1494	28′ Lattice Girder	28′	8.52	1765	8.0	1545	7.0	3

NOTES

These loading specifications are provided for double ledger strength only. The maximum allowable load for this product must be determined from the verticals to which the double ledgers are attached to, their connection points, and the platform material used on the ledgers or the specification in the chart above, whichever is less.

Factor of Safety 4:1

Low Profile Steel Plank O-Type 9.5″ (240mm)



Item No.	Description	Effective length		Uniformly Distributed Load (“U”)			Centre Point Load (“P”)	
		Ft-Inch	Meter	Lbs/ft	Lbs/ft²	kN/m²	Lbs	kN
WP0449	2′ Low Profile Steel Plank	2′	0.610	600	758	36.4	1215	5.5
WP0479	2′2″ Low Profile Steel Plank	2′2″	0.650	550	695	33.3	1190	5.4
WP0494	2′10″ Low Profile Steel Plank	2′10″	0.880	480	607	29.1	1060	4.8
WP0446	3′ Low Profile Steel Plank	3′	0.914	450	569	27.3	995	4.5
WP0448	3′6″ Low Profile Steel Plank	3′6″	1.065	400	506	24.2	885	4.0
WP0483	3′10″ Low Profile Steel Plank	3′10″	1.150	350	442	21.2	815	3.7
WP0465	4′ Low Profile Steel Plank	4′	1.220	320	405	19.4	770	3.5
WP0477	5′ Low Profile Steel Plank	5′	1.524	220	278	13.3	660	3.0
WP0478	5′2″ Low Profile Steel Plank	5′2″	1.572	200	253	12.1	620	2.8
WP0463	6′ Low Profile Steel Plank	6′	1.829	150	190	9.1	550	2.5
WP0447	7′ Low Profile Steel Plank	7′	2.130	130	175	8.4	510	2.3
WP0462	8′ Low Profile Steel Plank	8′	2.440	100	126	6.0	420	1.9
WP0487	8′6″ Low Profile Steel Plank	8′6″	2.572	88	111	5.3	330	1.5
WP0436	10′ Low Profile Steel Plank	10′	3.050	63	80	3.8	265	1.2

All low profile planks from 2′ to 10′ are above 75Lbs/ft2 at UDL, hence meets OSHA/ANSI load rating standards.

Factor of Safety – 4:1

SGS

TEST REPORT

No. : SHIN2308001241CM01_EN
Date : 2023-09-01
Page: 5 of 8

2. Test Item: Deflection at Three Person Capacity - 750 Pounds Total

Test Method: ANSI/ASSP A10.8-2019 Section 5.1.2.2.4

Test Condition:

Specimen: 2130mm×238mm×70mm, 1pc

Test span: 2130mm

Test Result:

Test Item	Test Result	Requirement in ANSI/ASSP A10.8-2019 Section 5.1.1.3	Conclusion
Deflection at Three Person Capacity - 750 Pounds Total	14.79 mm	≤35.50 mm Note	Pass

Note: The deflection at the center of the platform unit under design load shall not exceed the span divided by 60

Test Photo(s):

In Test

SGS

TEST REPORT

No. : SHIN2308001241CM01_EN
Date : 2023-09-01
Page: 4 of 8

1. Test Item: Deflection at Two Person Capacity - 500 Pounds Total

Test Method: ANSI/ASSP A10.8-2019 Section 5.1.2.2.3

Test Condition:

Specimen: 3050mm×238mm×70mm, 1pc

Test span: 3050mm

Test Result:

Test Item	Test Result	Requirement in ANSI/ASSP A10.8-2019 Section 5.1.1.3	Conclusion
Deflection at Two Person Capacity - 500 Pounds Total	17.37 mm	≤50.83 mm Note	Pass

Note: The deflection at the center of the platform unit under design load shall not exceed the span divided by 60

Test Photo(s):

In Test

SGS

TEST REPORT

No. : SHIN2308001241CM01_EN
Date : 2023-09-01
Page: 7 of 8

4. Test Item: Deflection at Uniformly Distributed Load of 75 Pounds Per Square Foot (Heavy - Duty)

Test Method: ANSI/ASSP A10.8-2019 Section 5.1.2.3.5

Test Condition:

Specimen: 2130mm×238mm×70mm, 1pc

Test span: 2130mm

Test Result:

Test Item	Test Result	Requirement in ANSI/ASSP A10.8-2019 Section 5.1.1.3	Conclusion
Deflection at Uniformly Distributed Load of 75 Pounds Per Square Foot (Heavy - Duty)	6.10 mm	≤35.50 mm Note	Pass

Note: The deflection at the center of the platform unit under design load shall not exceed the span divided by 60

Test Photo(s):

In Test

SGS

TEST REPORT

No. : SHIN2308001241CM01_EN
Date : 2023-09-01
Page: 6 of 8

3. Test Item: Deflection at Uniformly Distributed Load of 50 Pounds Per Square Foot (Medium - Duty)

Test Method: ANSI/ASSP A10.8-2019 Section 5.1.2.3.4

Test Condition:

Specimen: 3050mm×238mm×70mm, 1pc

Test span: 3050mm

Test Result:

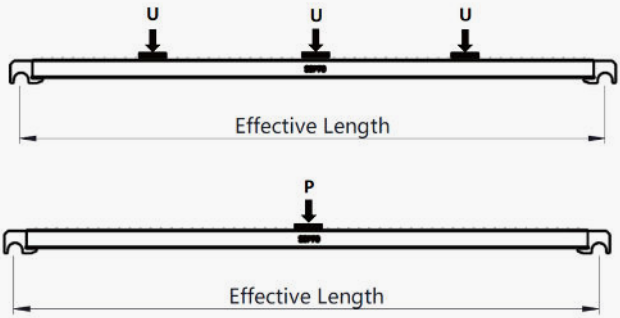
Test Item	Test Result	Requirement in ANSI/ASSP A10.8-2019 Section 5.1.1.3	Conclusion
Deflection at Uniformly Distributed Load of 50 Pounds Per Square Foot (Medium - Duty)	10.44 mm	≤50.83 mm Note	Pass

Note: The deflection at the center of the platform unit under design load shall not exceed the span divided by 60

Test Photo(s):

In Test

SSP Steel Plank O-Type 9" (228mm)



Item No.	Description	Effective length		UDL ("U")			Centre Point Load ("P")	
		Ft-Inch	Meter	Lbs/ft	Lbs/ft²	kN/m²	Lbs	kN
WP0027	2' Steel Plank	2'	0.610	750	1000	47	1105	5.0
WP0028	2'7" Steel Plank	2'7"	0.788	675	900	43	1040	4.7
WP0495	2'10" Steel Plank	2'10"	0.880	637	850	40	995	4.5
WP0029	3' Steel Plank	3'	0.914	600	800	38	930	4.2
WP0030	3'6" Steel Plank	3'6"	1.065	560	746	36	840	3.8
WP0032	4' Steel Plank	4'	1.220	450	600	29	775	3.5
WP0034	5' Steel Plank	5'	1.524	248	330	16	640	2.9
WP0041	5'2" Steel Plank	5'2"	1.570	230	306	14	620	2.8
WP0037	6' Steel Plank	6'	1.829	175	233	11	555	2.5
WP0039	7' Steel Plank	7'	2.130	130	175	8.4	510	2.3
WP0042	8' Steel Plank	8'	2.440	95	126	6	445	2.0
WP0409	8'2" Steel Plank	8'2"	2.500	90	120	5.8	400	1.8
WP0045	9' Steel Plank	9'	2.743	70	93	4.5	355	1.6
WP0046	10' Steel Plank	10'	3.050	57	76	3.6	340	1.5

All SSP planks from 2' to 10' are above 75Lbs/ft2 at UDL, hence meets OSHA/ANSI load rating standards.

Factor of Safety – 4:1

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TEST CERTIFICATE — EAR-CONTROLLED DATA

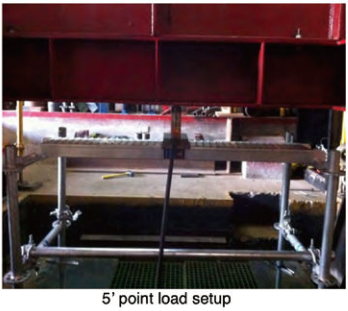
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09684-1

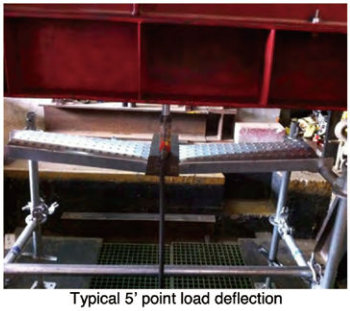
Description: 5' Steel Plank
Part No.: SSP5

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 (lbs)	% Deviation From Average
1	2,680	670	5
2	2,470	620	3
3	2,470	620	3
Average	**2,540**	**640**	**---**


5' point load setup


Typical 5' point load deflection

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TEST CERTIFICATE — EAR-CONTROLLED DATA

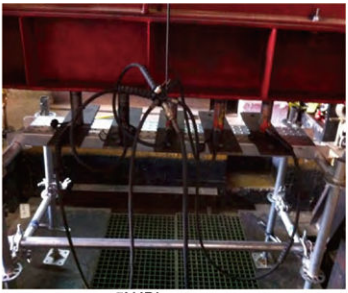
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09684-1

Description: 5' Steel Plank
Part No.: SSP5

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 (lbs)	% 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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TEST CERTIFICATE — EAR-CONTROLLED DATA

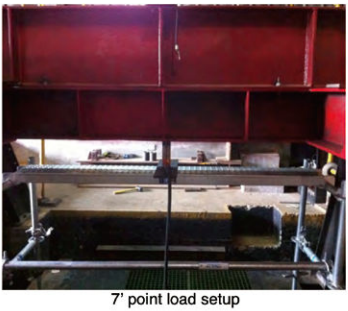
Date:	01/15/2013
P.O. No.:	EHO0006255Q/0
W/O No.:	COR006-12-12-09684-1

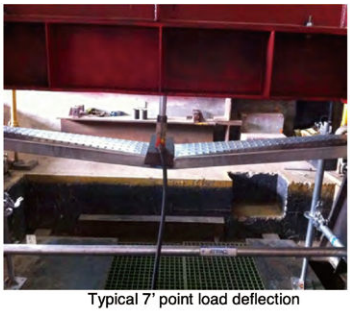
Description: 7' Steel Plank
Part No.: SSP7

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 (lbs)	% 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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TEST CERTIFICATE — EAR-CONTROLLED DATA

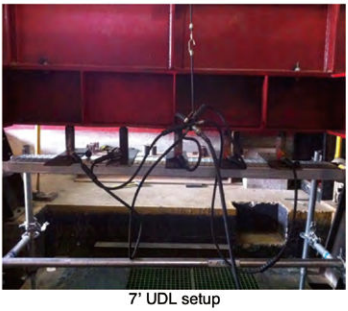
Date:	01/15/2013
P.O. No.:	EHO0006255Q/0
W/O No.:	COR006-12-12-09684-1

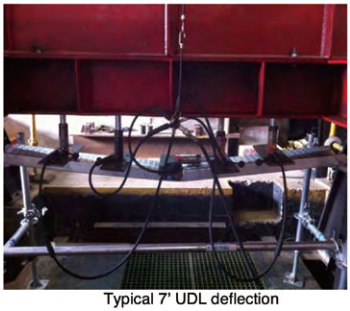
Description: 7' Steel Plank
Part No.: SSP7

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 (lbs)	% 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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TEST CERTIFICATE — EAR-CONTROLLED DATA

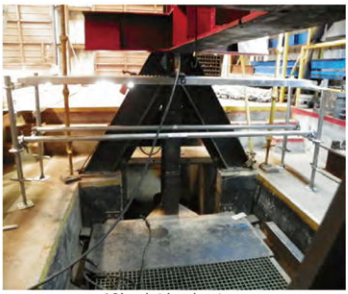
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09684-1

Description: 10' Steel Plank
Part No.: 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 (lbs)	% 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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TEST CERTIFICATE — EAR-CONTROLLED DATA

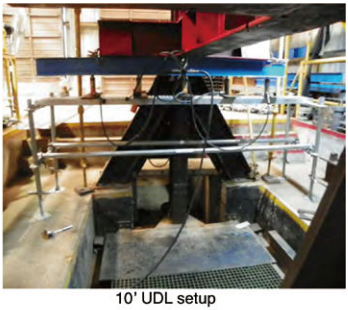
Date: 01/15/2013
P.O. No.: EHO0006255Q/0
W/O No.: COR006-12-12-09684-1

Description: 10' Steel Plank
Part No.: SSP10

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

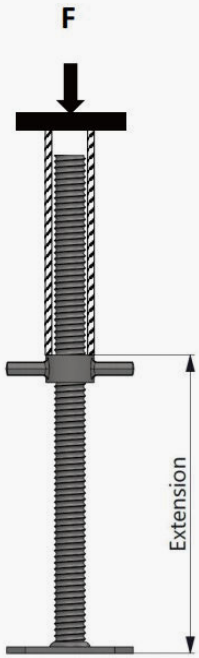
UNIFORMLY DISTRIBUTED LOAD

Test #	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% 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

Adjustable Base Jack



Item No.	Description	Extension		Safe Work Load	
		Inch	mm	Lbs	kN
AS0020	24″ Adjustable Base Jack	6″	152.4	12370	56.0
		12″	304.8	10020	45.5
		18″	457.2	9940	45.1

Factor of Safety – 4:1

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TEST CERTIFICATE — EAR-CONTROLLED DATA

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

Description: Hollow Screw Jacks
Part No.: SJB

LOAD TEST RESULTS

Test Method: ANSI/SSFI SC100-5/05

Sample #	Extension (in.)	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% 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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Description: Hollow Screw Jacks
Part No.: SJB

LOAD TEST RESULTS

Test Method: ANSI/SSFI SC100-5/05

Sample #	Extension (in.)	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% 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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TEST CERTIFICATE — EAR-CONTROLLED DATA

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

Description: Hollow Screw Jacks
Part No.: SJB

LOAD TEST RESULTS

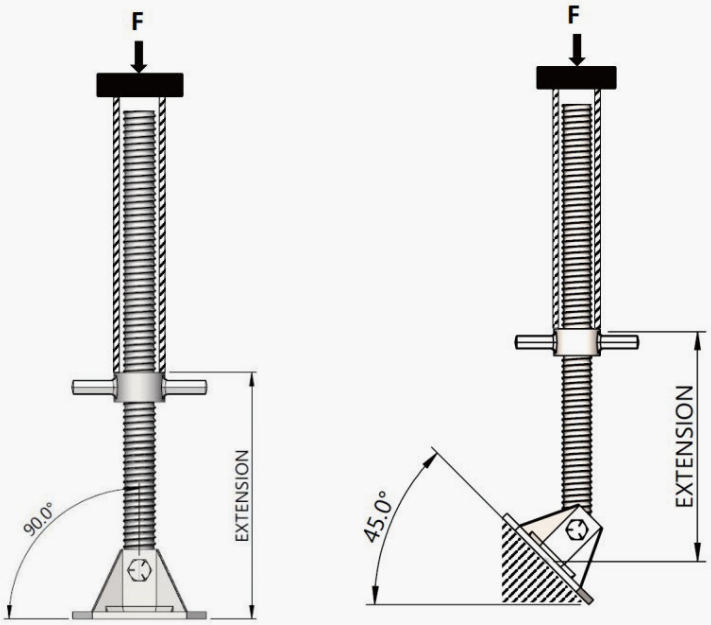
Test Method: ANSI/SSFI SC100-5/05

Sample #	Extension (in.)	Max Load (lbs)	Load at 4:1 Safety Factor (lbs)	% 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

Swivel Base Jack



Item No.	Description	Extension		Safe Work Load 90°		Safe Work Load 45°	
		Inch	mm	Lbs	kN	Lbs	kN
AS0021	24″ Swivel Base Jack	6″	152.4	11080	50	8850	40
		12″	304.8	8975	40	7695	35
		18″	457.2	8000	36	7500	34

Factor of Safety – 4:1

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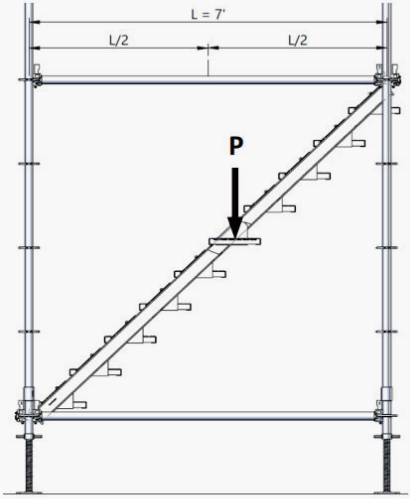
Stair Stringer & Tread

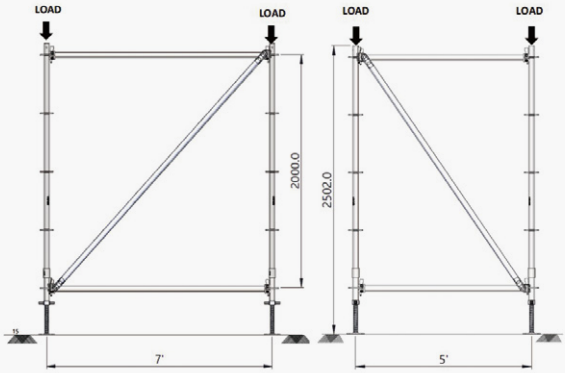


POINT LOAD TEST

Item No.	Description	Safe Point Load ("P")	
		Lbs	kN
RL1443	32" Stair Tread, 305mm Steel Board	335	1.5
RL0250	32" Stair Tread, 262mm Steel Board	335	1.5

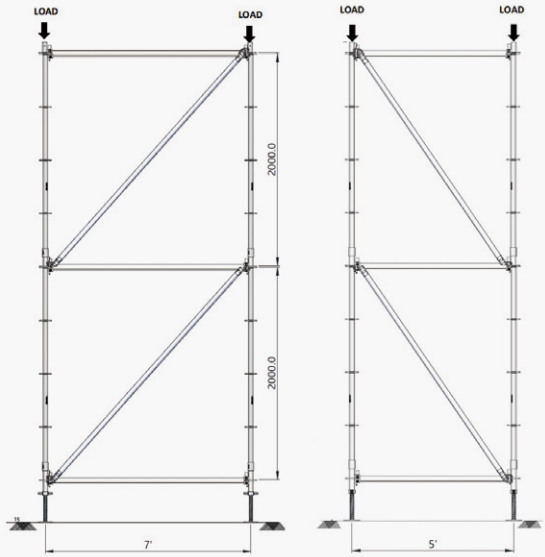
Factor of Safety – 4:1

Ringlock Tower Test



Sample Information:
One Tire Tower

Part No.:
2m Vertical × 4
5′ Horizontal × 4
7′ Horizontal × 4



Sample Information:
Two Tire Tower

Part No.:
2m Vertical × 8
5′ Horizontal × 6
7′ Horizontal × 6

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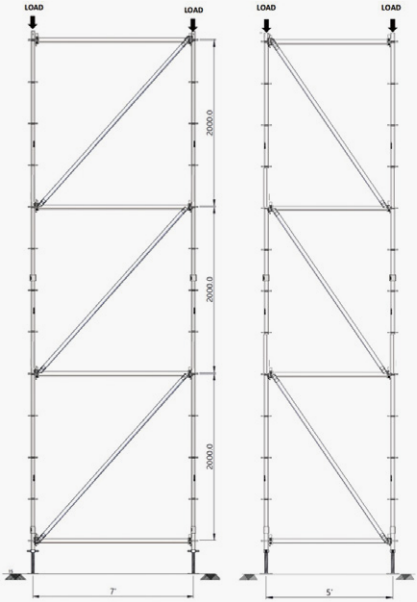
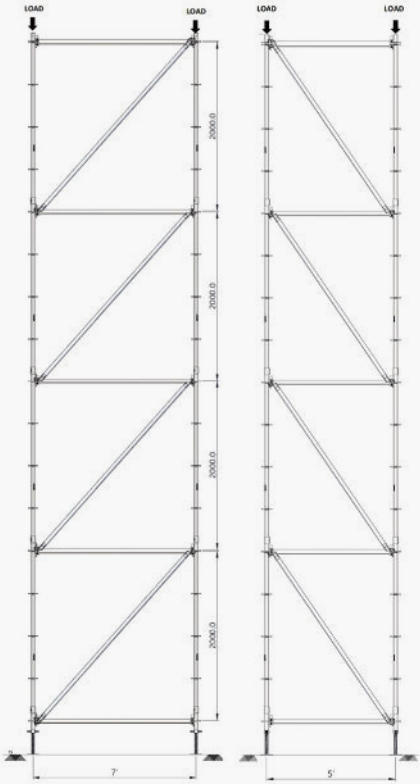


Sample Information: Three Tire Tower
Part No.: 3m Vertical × 8, 5′ Horizontal × 8
7′ Horizontal × 8



Sample Information: Four Tire Tower
Part No.: 2m Vertical × 16, 5′ Horizontal × 10
7′ Horizontal × 10

Item No.	Tier	Safe Work Load		Safe Work Load (per leg)	
	Number	Lbs	kN	Lbs	kN
Ring System Shoring	1	22920	104.0	5730	26.0
	2	21160	96.0	5290	24.0
	3	19870	90.0	4965	22.5
	4	18520	84.0	4630	21.0

Factor of Safety – 4:1

5.SECURITY INSTRUCTIONS

Safety considerations

This guide and all the handling procedures detailed in it are intended for everyone who works with the Coronet ringlock system. It contains information on standard configurations of the system and on its correct use according to the principles established by the UNE EN 12810 and UNE EN 12811 standards.

- The property and/or the optional addresses of the construction sites and premises where the system is used must ensure that all technical documents are available to all users of the scaffolding.
- In all cases, users are obliged to comply with national legislation, standards and regulations throughout the project and take additional or alternative workplace safety precautions, where necessary.
- This document may serve as a basis, support or complement at the time of writing, by the company responsible for the work or client, of the risk assessment or safety plan necessary in each of the works where it is going to be carried out. use the Coronet ringlock scaffolding system. In addition, it may be used for instructions provided to users on how to set up and use the system. However, it will never replace the indications reflected in the aforementioned documents related to safety and health in construction sites.
- If at any time the possibility of modifying the instructions, steps, advice or simply part of these, described in this guide for the assembly of the system, is foreseen or studied, new revised static calculations must be carried out for their verification, as well as instructions for complementary assembly.

Failure to follow the instructions, technical data, warnings, data on loads and other advice for the correct use of the system can lead to or cause serious accidents and significant material and personal damage.

- If the weather conditions during the assembly of the system are adverse, such as strong winds, rain or frost, the work must be stopped or in any case the steps must be carried out with an adequate rhythm in order to safeguard the equipment and the adjacent areas of the equipment and protect the operators.
- The installation of the system, once assembled and in use, must be constantly reviewed by the operators or by personnel responsible for the assembly guarantee, certifying at all times the correct arrangement of all the joints, fixings, parts and components that the system has.

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Safety procedure prior assembly

To handle scaffolding, it is important to take into account the safety procedure during all the assembly steps.

Safety equipment

All the people dedicated to the assembly and disassembly of scaffolding must have and will be obliged to use the individual protection elements that are observed in the following image.

SUGGESTIONS:

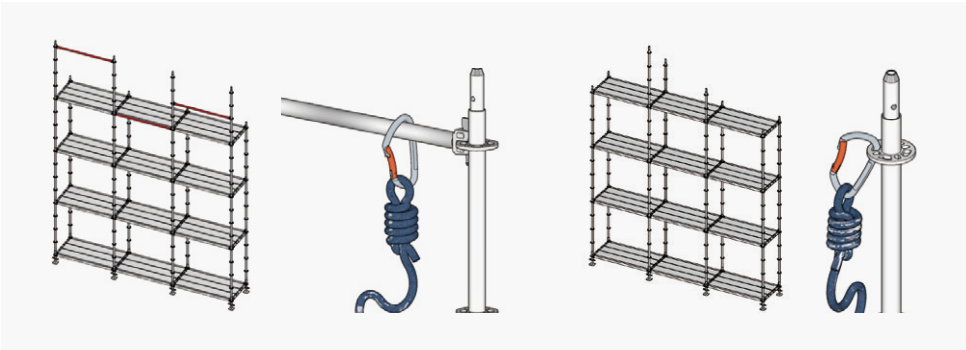
Prior to the assembly and use of the scaffolding, the following recommendations must be followed :

- Inspect all components.
- Analyze the requirements that are demanded for work at height before starting the project.
- Prepare all the protection equipment and safety elements, hammer and spirit level.
- Mark the work area with a warning notice in order to avoid accidents.
- Make sure of your position and balance before releasing the equipment. Always have one hand on the ladder or a support element.
- SUSPEND work on the scaffolding during strong winds, rain and other inclement weather conditions.r .

USE OF THE HARNESS:

If you work with a safety harness, you need to have a height rescue plan at the construction site
The harness fixing system can be made in the following elements:

- Ledger: at the point of highest available height. Both ends must be anchored
- Standard: anywhere on the standard, including the rosette



NOTES:

The connection points :

- They must respect the laws of each country / region;
- They will be carried out as high as possible above the actual work floor (minimum height of 1 meter from the work platform).

Connect the carabiner hook to the safety harness to the closed parts of the scaffold that prevent the hook from slipping.

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Initial inspection

The elements that denote a technical failure or a bad structural behavior will be dismantled immediately, proceeding to its repair or replacement.

In addition, assembly tools or protective equipment that are defective must be replaced by others. Those parts of the scaffolding that are not ready for use, mainly during assembly and disassembly, must be marked and conveniently delimited by means of physical elements that prevent access to the danger zone.

Check all loads imposed on the scaffold erection and its surroundings, and ensure the position of the loads on the scaffold and its surroundings. The various loads are:

- Weight of scaffold structure
- Workload of the work platform
- Wind load.

Check the condition of the ground scaffold and the elevation condition of the anchor point:

- Understand all safety regulations (local)
- Understanding the potential risks of an explosion or fire

Check the training of workers.

Correct repositioning is essential for safety work and must always be done in accordance with assembly drawings or technical personnel instructions. Check that the ground is strong and flat without any uneven or easily deformed for placement of bruski or pillows.

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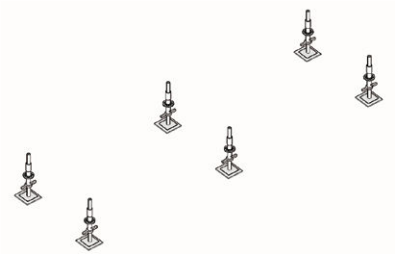
6.ASSEMBLY PROCESS

Standard assembly procedure for facade scaffold

STEP 1

Prepare the foundation for the scaffold.

The base collars and base Jacks are placed on a flat surface to distribute the pressure exerted by the scaffolding on the ground. Place the base jack or base collar (optional) to serve as support for the standard of the ringlock scaffolding and to facilitate the placement of the ledger and diagonal brace.

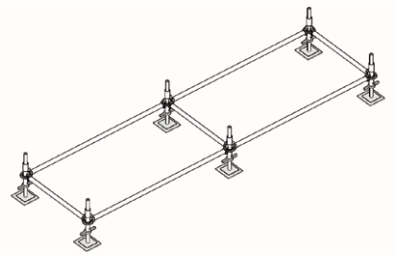


STEP 2

Connect the Ledgers

Connect the Ledgers head to the little hole position of the rosette on the Base Collar,making a angle of 90° between ledgers.In order to ensure the ledgers are horizontal, use a spirit level to adjust the base jack if necessary. Also check the distance from the scaffolding to the facade.

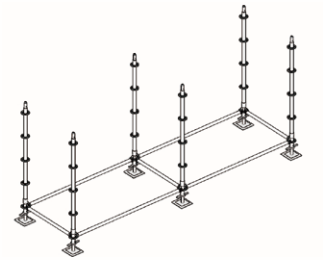
IMPORTANT: When installing platforms, they must be protected with safety equipment.



STEP 3

Place the Standard

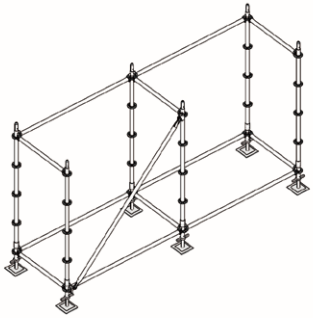
The bottom of the Standards fit into the socket tube at the top of the Base Collar.The Spigot on the Standards always point upwards.



STEP 4

Place the Ledgers and Diagonal Brace

The ledger is placed at the maximum distance of 2 meters from the previous level. The diagonal brace along the entire standard of the scaffolding and every 4 rosette as standard. Tighten the wedges to ensure the definitive rigidity of the structure.

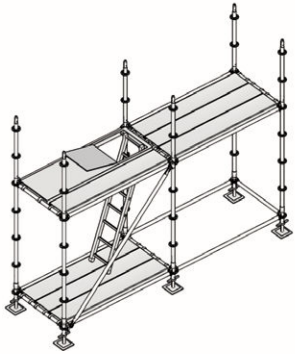


STEP 5

Place the platform and access platform

Non-slip platforms are placed on the crossbars to form a work surface with a minimum width of 60 cm.

Important: when installing the platforms, they must be secured with the security equipment.

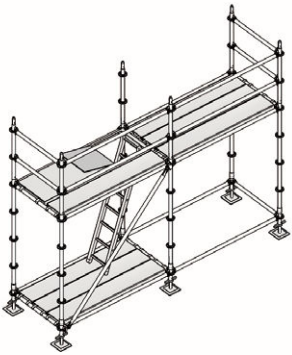


STEP 6

Place the Guardrail

Guardrail should be installed at a height of 0.5m and 1.0m in relation to the work platform in order to guarantee safety against falls from height.

Important:Before starting to climb and assemble the upper levels, the scaffolding must be tied to the structure to the vertical wall.



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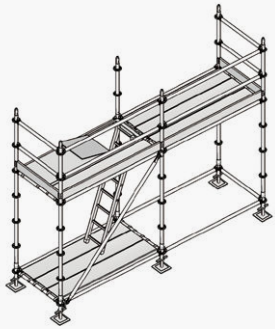
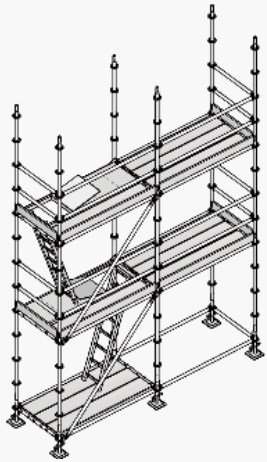
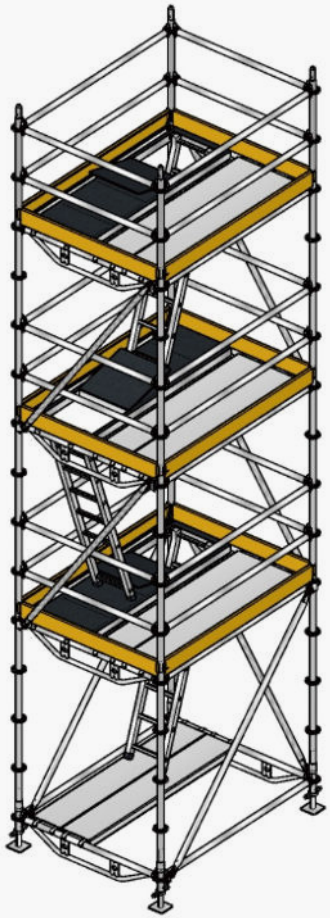
STEP 7	**Place the Toe Board** Add the toe boards which slot behind the wedge to protect falling objects.	
STEP 8	**Assembly the upper level** The process for the assembly of the upper levels is the same. The assembly is then resumed from point 5 to point 7 of this assembly manual.	

Disassembly and storage of the system:

✓	The disassembly and storage of the Coronet ringlock system must be carried out by professional operators and always in the reverse order of assembly.
✗	Items should NEVER be dropped from the top of the scaffold.
✓	The scaffold must be signaled not to use and always use individual protection equipment during dismantling.

STANDARD ASSEMBLY PROCEDURE FOR SCAFFOLD TOWERS



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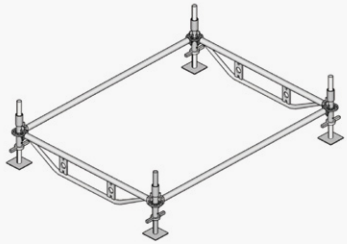
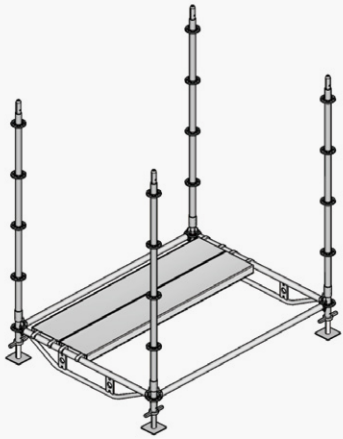
Standard Assembly process of volume scaffolding

STEP 1	Place the Base Collars over the Base Jacks(If necessary). Use wooden sole plates boards as necessary depending on the ground conditions.	
STEP 2	Assemble the Ledgers and make sure this setup is level.	
STEP 3	Thread the vertical standards onto the base collars (Preferably 3 meters).	

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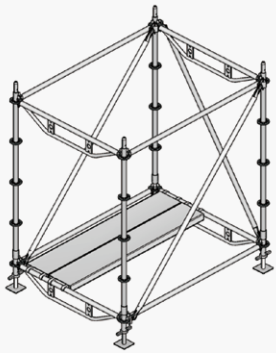
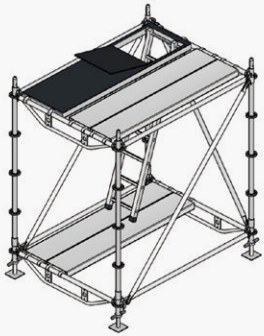
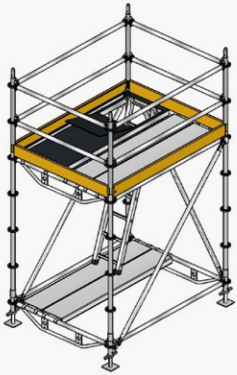
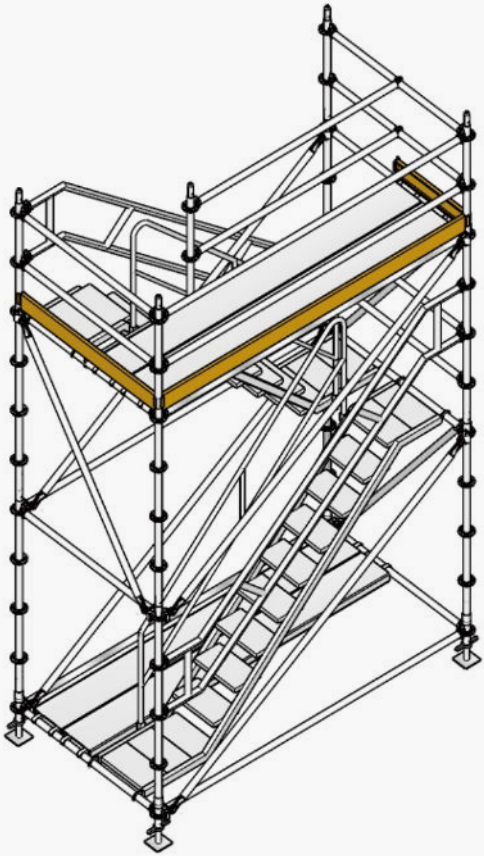
STEP 4	Assemble the 2nd level structure: bridging Ledger (1.57 meters wide) to support the platform and diagonal brace.Also assemble the Braces on the two outer sides.	
STEP 5	Assemble the 1st landing including the access platforms,steel planks and toe boards. Repeat the sequence until the desired level is reached. Use the wall tie if the scaffold tower is not stable.	
	Assemble the 1.0m standard and guardrail on the landing.	

STANDARD ASSEMBLY PROCEDURE FOR ACCESS STAIR



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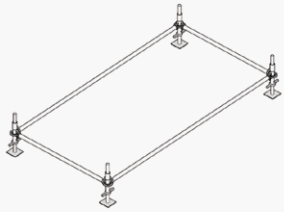
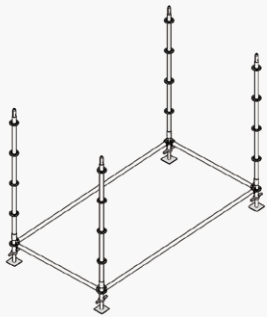
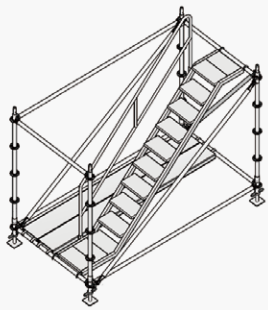
STEP 1	Place the Base Collars over the Base Jacks(If necessary).Use wooden sole plates boards as necessary depending on the ground conditions.	
STEP 2	Assemble the Ledgers and make sure this setup is level. Also Assemble steel plank.	
STEP 3	Thread the vertical standards onto the base collars (Preferably 3 meters).	
STEP 4	Place 2nd level ledger and diagonal brace and place the first level of access stair.	

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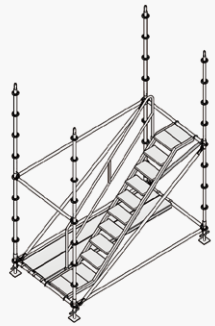
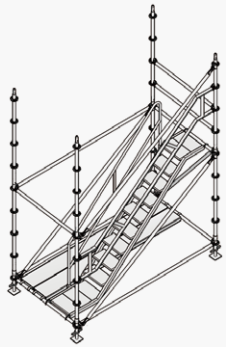
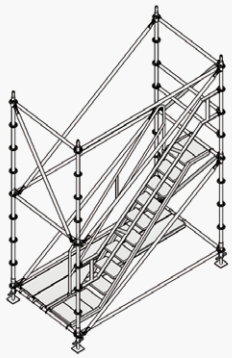
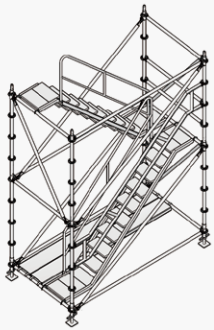
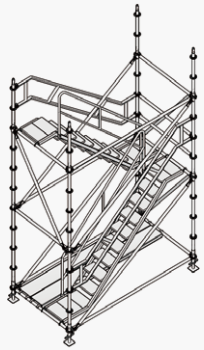
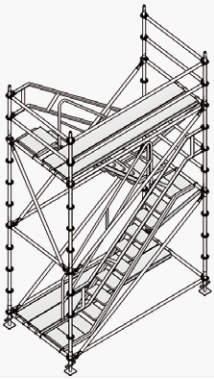
STEP 5	Place the 2nd level Standards.	
STEP 6	Assemble the 1st level internal and external handrail along the stair,as well as place safety guardrails along the next landing.	
STEP 7	Assemble the 2nd level: place standards, ledgers and diagonal braces.(Use the Scaffold Step to assemble a temporary platform and single advanced Guardrail such that this can be used to erect the second landing).	

STEP 8	Assemble the 2nd access stair.	
STEP 9	Assemble 2nd level safety elements: guardrails at 0.50 & 1.00 meters and external & internal handrails along the stairs. For the assembly of the upper levels repeat the sequence from step 6.	
STEP 10	Assemble the last level steel planks and guardrail.	

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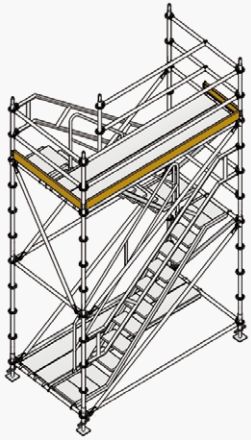
STEP 11

Assemble toe boards if necessary. Then install horizontal fall protection

- 1.0m standard+ tube +clamp
- 1.0 m standard l + ledger



Safe-stable scaffolding

Scaffold structures that are used as mobile or fixed scaffold towers are subjected to the same loads as any other type of scaffold. For towers made of steel without any type of cover, an indicative method to prove that it is self-stable is the following:

The maximum height (H) can not exceed four times the minimum side (L) in an indoor space without wind. - H (max)<=4* L(smaller).

The maximum height (H) is three times the minimum side (L) in outdoor space - H (max)<=3* L(minimum).

If this standard can not be met due to working conditions :

- Increase the size of the base by placing stabilizers.
- Installation of counterweight.
- Secure the scaffold to a solid structure.

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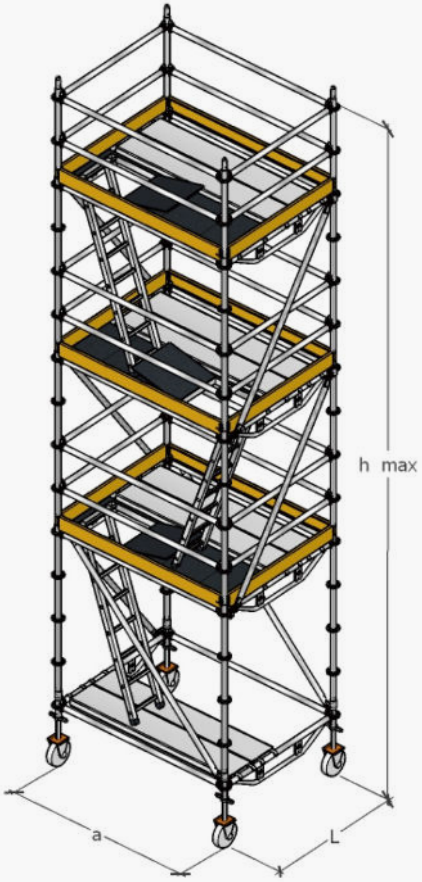
STANDARD ASSEMBLY PROCEDURE FOR SCAFFOLD TOWERS



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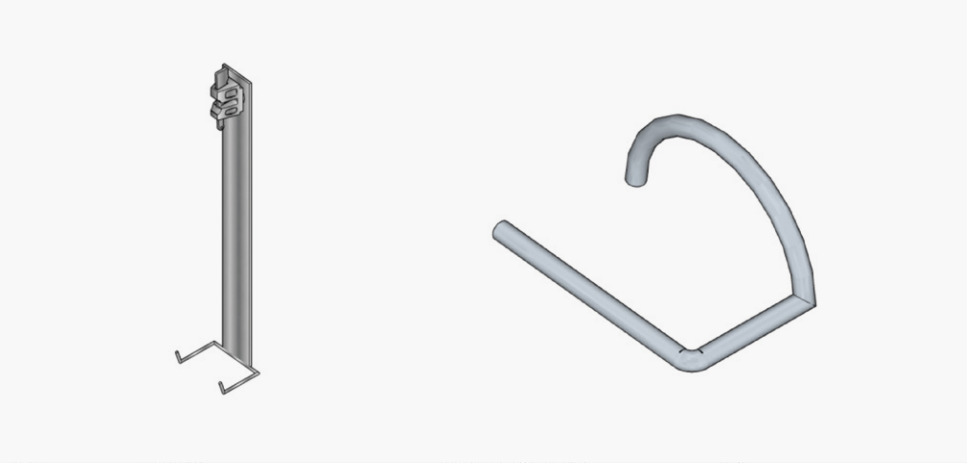
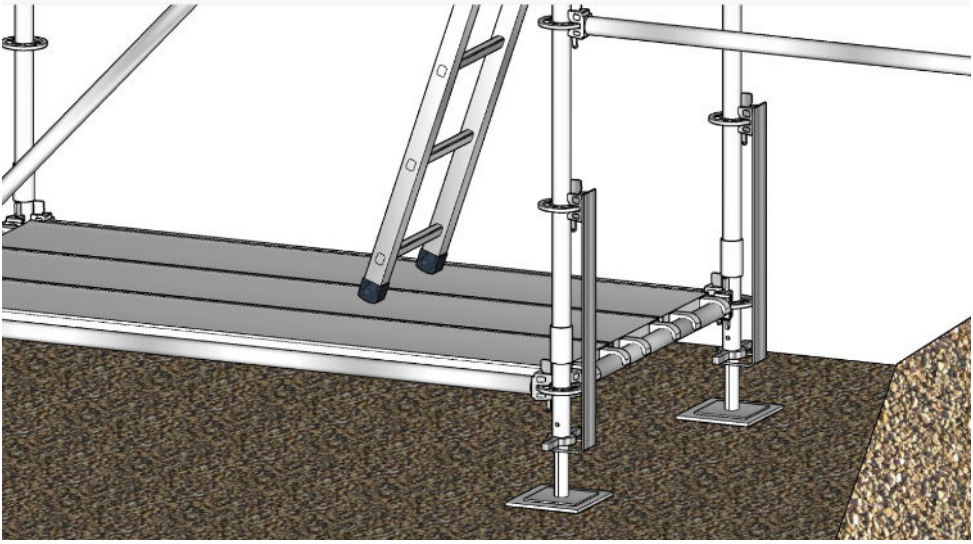
Standard for the use of cranes in scaffolding

To secure the base grader, you must

- The leveler fixer
- Pin.
- Use safety pin locking strut





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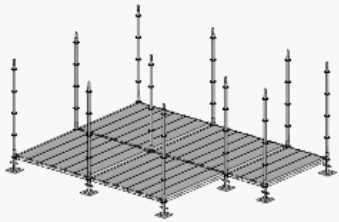
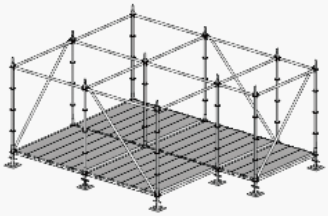
Standard Assembly process of volume scaffolding

STEP 1	**Prepare the foundation for the scaffold** The base collars and base Jacks are placed on a flat surface to distribute the pressure exerted by the scaffolding on the ground. Place the base jack or base collar (optional) to serve as support for the standard of the ringlock scaffolding and to facilitate the placement of the ledger and diagonal brace.	
STEP 2	**Assemble the foundation** Assemble the ledger of the first level.	
STEP 3	**Assemble Standard and platform** The bottom of the Standards fit into the socket tube at the top of the Base Collar.Place Planks of the correct bay length into the end bay to fully deck out the bay.	
STEP 4	**Assemble ledgers and diagonal brace** Assemble the 1st level ledgers (at 2 m. height) Optionally, the protection ledgers can also be installed at a level of 1 m height.	

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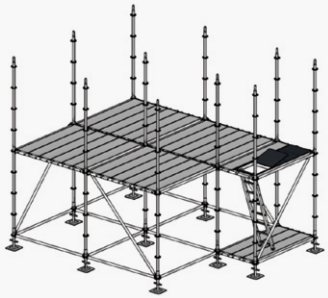
STEP 5

Assemble planks and access platform

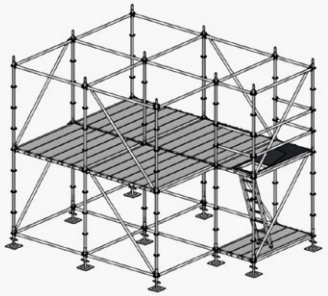
Remove low level auxiliary platform and place the platform on the height of 2.0m. Assemble the access platform.



STEP 6

Assemble horizontal guardrails

Assemble the horizontal guardrail. These can be removed when upper levels are assembled.



STEP 7

Assemble the upper levels

Place a bridging ledger to replace the ledgers as support for the platforms (spans greater than 1.50 meters).

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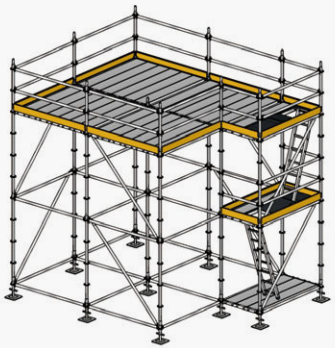
STEP 8

Assemble toe boards

For the assembly of the upper levels the process is the same. The assembly is then resumed from step 5 to step 7 of this assembly manual.



Standard Assembly process of volume scaffolding

The main purpose of our Coronet Ringlock Scaffolding system is to create work platforms, where the operators who are going to use it can carry out the necessary tasks with total confidence, stability and rigidity, so when the work is being carried out at height, is not a decrease in the quality and execution time of the same.

The work surfaces that we define are created by joining steel or aluminum and wood platforms, in combination with protection elements such as side bars and skirting boards, all supported and fastened to the tubular bearing structure of our Coronet system.

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According to the European standard for facade scaffolding (EN12811-1), the minimum width of the work platform must be:

- Class W06 minimum width. =0.60 m
- Class W09 minimum width. =0.90 m
- Class W12 minimum width. =1.20 m

The following outlines how each scaffold structure must be designed, constructed, and maintained to ensure that it will not collapse or shift unintentionally and can be used safely. This applies to all stages of use, including assembly, modification, and even complete disassembly.

Scaffold components must be designed to be transported, installed, used, maintained, dismantled and stored safely.

The structure in use must have a support or foundation capable of resisting the required loads and movement limitations.

The lateral stability of the scaffolding structure, as a whole and punctually, must be verified when it is subjected to the different possible forces, such as wind.

To cover the different working conditions, the EN 12811-1 standard specifies different load classes and work areas. The service classes of our Coronet Ringlock system are arranged in the following table:

Load Class	Uniformly Distributed Load	Concentrated load on a surface of 500mmx500mm	Concentrated load on a surface of 200mmx200mm	Load on a partial surface	
				KN/m2	Partial Surface.
1	0,75	1,50	1,00	N/A	N/A
2	1,50	1,50	1,00	N/A	N/A
3	2,00	1,50	1,00	N/A	N/A
4	3,00	3,00	1,00	5,00	0,4
5	4,50	3,00	1,00	7,50	0,4
6	6,00	3,00	1,00	10,00	0,5

Depending on the study and dimension of these loads, we must take into account the study of the possible actions that influence the calculation of our load.

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7.ANCHORING AND DIAGONAL BRACE

The anchor of our system are the connection points that we make of it to the facade. Its function is to guarantee the immobility of the scaffolding, even in adverse conditions caused by strong winds or great efforts of a different nature.

In general, the anchors or fixings support horizontal loads parallel and perpendicular to the facade.

It is essential to check the solidity of each fixing point of the facade, since a scaffolding, due to the fact that it is the union of several loose components, is a "weak" system and therefore, to create a solid and stable construction, it is necessary to stabilize the scaffold with additional components.

In general, the fixings must be placed one for every 24m2 on uncovered scaffolding or one for every 12m2 on net scaffolding.

The anchor to stabilize our Coronet Ringlock System must be executed, whenever possible, perpendicular to the facade to be covered and using a connection point that will be attached to each row of studs in our system.

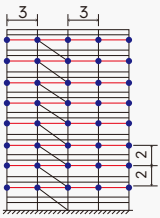
The connection points or anchoring systems used are made up of a special anchoring tubular profile that has a system at one of its ends to be able to embed it on site in the facade (chemical plug, anchor bolt, etc.) or simply a special hook that makes the tube can be fixed to a bolt or eye bolt that we have previously embedded in our facade and on the other hand we have the clamps or staples that fix the anchor tube to the vertical tubular profiles of the scaffolding.

As we have indicated previously, the fixings must be placed one for every 24m2 in uncovered scaffolding or one for every 12m2 in net scaffolding, but for a correct design the number of them must be determined by calculations or fixed according to a standard configuration, and they should always be placed in a regular pattern throughout the scaffold.

4 TYPES OF BASIC PATTERNS ARE GENERALLY USED:

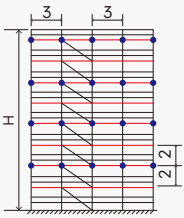
TIPO 1-1/6 m²

1 fijación en cada nudo.



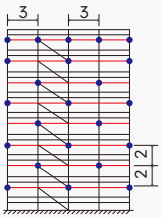
TIPO 2-1/12 m²

1 fijación en cada nudo. cada m. de altura.



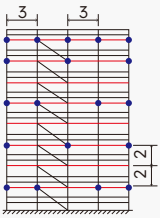
TIPO 3-1/12 m²

fijaciones alternadas cada 2 módulos y cada 4 m. de altura



TIPO 4-1/24 m²

1 fijación alternada cada 2 módulos y cada 8 m. en altura



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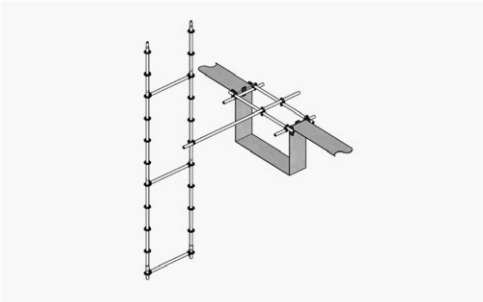
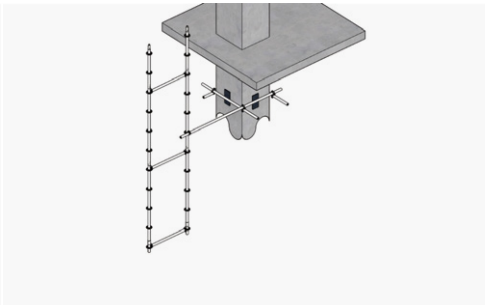
However, below are possible variants that we can find on site during the installation of our system and its fixing elements:



Fixing to window or balcony



Column fixing

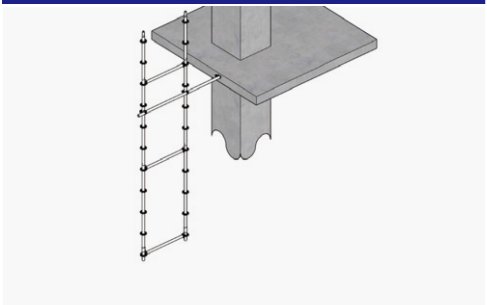
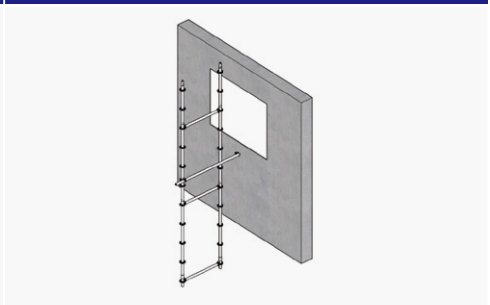
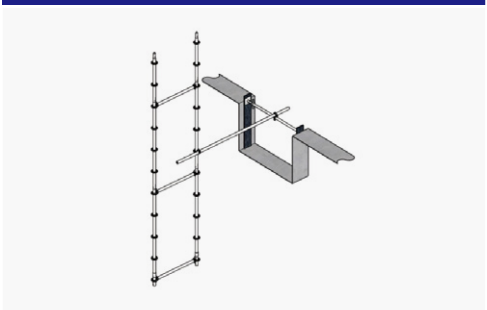


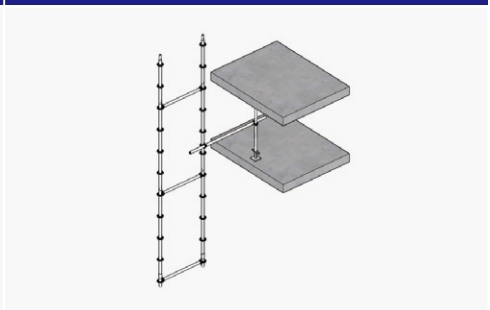
Plate fixing



Facade fixing



Strut fixing 1



Strut fixing 2

The other fundamental part when it comes to guaranteeing the stability offered by the Coronet Ringlock system is the bracing system carried out by means of the diagonal brace.

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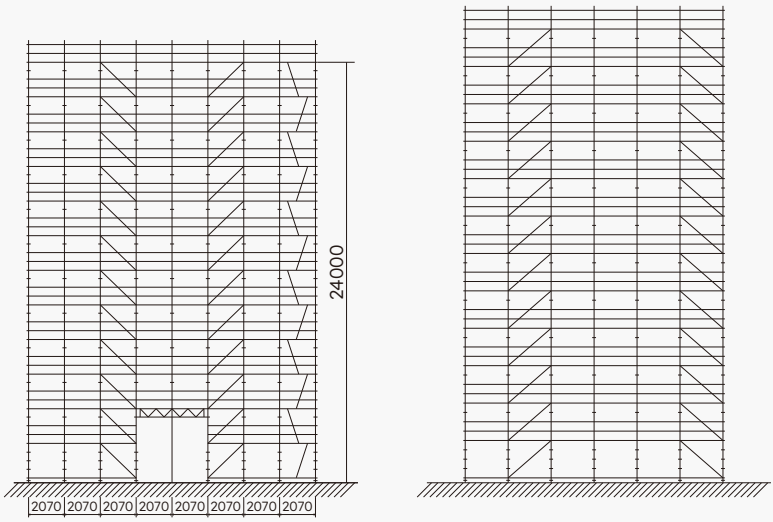
The diagonal brace has three main functions of :

- **Stability** - Supporting much of the effort (in terms of weight);
- **Counter wind** - Guaranteeing the rigidity of the structure even with strong winds;
- **Geometry** - Avoiding the deformation of the geometric configuration of the scaffolding.

We must also emphasize that, as support for the diagonals, the actions carried out by the platforms for stability in the horizontal plane are very important.

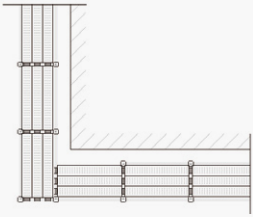
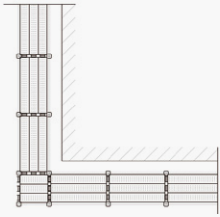
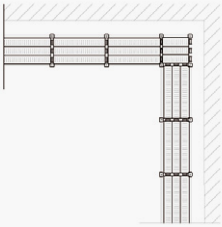
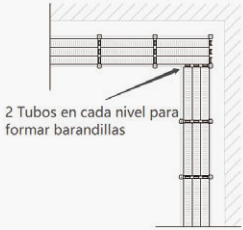
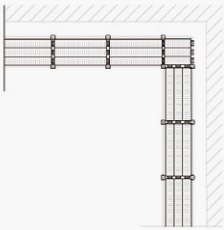
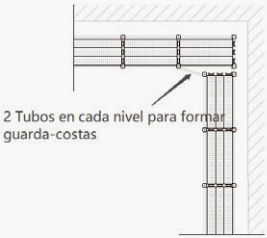
However, in the vertical plane, the rigidity of the scaffolding is supplanted by the joint action of the diagonals and the crossbars (or the railings, as necessary).

The number of steps or sections of scaffolding without diagonals will be studied according to the specific work to be carried out, recommending, however, not to leave more than 3 sections without bracing as a minimum.



8.TYPICAL SOLUTIONS

Below, we offer various examples or solutions that can be achieved with our Coronet Ringlock system, according to its different combinations or mounting methods:

Union exterior a 90°(1)	Union exterior a 90°(2)
	
Union interior a 90°(1)	**Union interior a 90°(2)**
	
Union interior a 90°(3)	**Union interior a 90°(4)**
	

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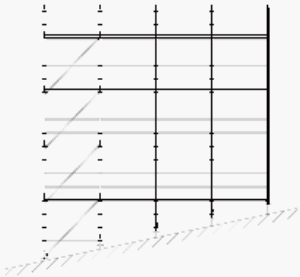
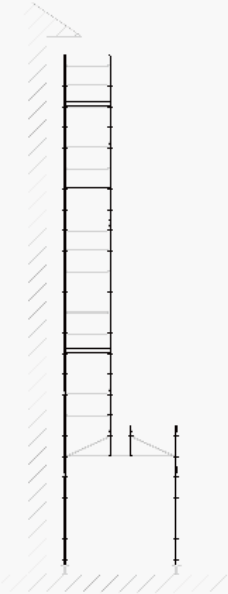
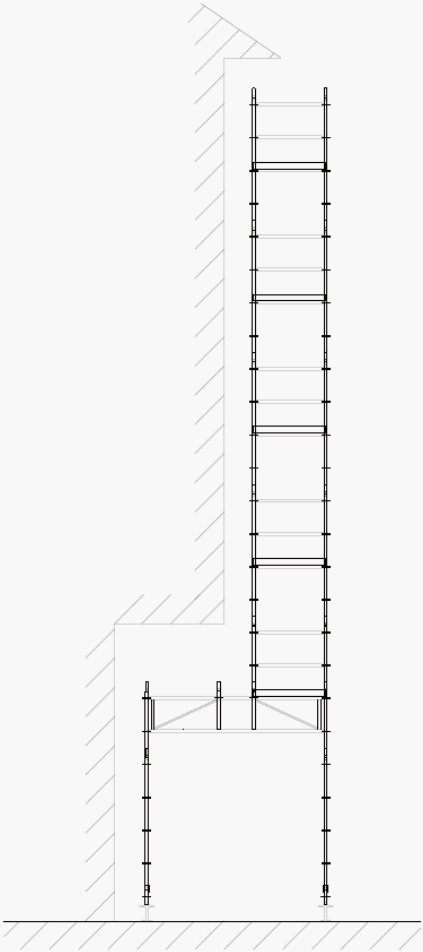
Facade leveling with a 2 meters drop



Facade with step beam



Solution for facade with highlight And use of step beam



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9.MAINTENANCE

Inspection, care and maintenance

- Scaffolding components must be handled with care during transportation and use, to avoid damage.
- All components must be checked for damage prior to use and assembly.
- The correct operation of all moving components and the existence of contaminants must be supervised.
- Damaged components must be replaced and returned to the manufacturer for repair or destruction.

General inspection and maintenance criteria:

01	The uprights, horizontals, diagonals, horizontals, steel decks, side supports may not show visible damage such as scuffs, cracks and dents; tubes must be visibly straight.
02	Tube-to-diagonal contact areas, bottom and bottom of rosettes, must be flat and free of contaminants (to ensure proper use of horizontals and diagonals). The diagonal must be visibly straight. The spigot should sit straight and tight without play inside the down tube.
03	The components of the scaffold can not be rusty.
04	Tubes/shafts must be visibly straight (deflection < l/300).
05	The adjustable nut on the plates must be undamaged and must rotate freely through the full length of the thread from the bottom to the stop position. The threaded axles of the platforms must not show any damage, such as wear, cracks or dents. The plate (base) must be visibly flat and flush with the plumb on a flat surface.
06	The welds of the verticals, horizontals, platforms, horizontals, among other components, cannot have cracks.
07	Wedges must be able to move freely and be fixed to prevent displacement; wedges must not be bent or cracked.
08	The steel deck must be visibly straight and must rest flat on the horizontals with its reinforcing hooks. Reinforcing hooks must not be bent or cracked. Anti-lift devices must be in place and operational.
09	Scaffold components must be cleaned regularly to prevent the presence of concrete or other contaminants.

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10.APPLICABLE REGULATIONS

Current legislation and applicable regulations

Coronet RingLock Scaffold System holds the Australia Registration, DITUC Certification in Chile and the Bureau Veritas Certification in Columbia. Also meets the the requirements of ANSI/SSFI SC100-5/05 approved by Element Materials Technology, the best and most reliable materials and products testing laboratory in the US.

International Certifications:

Item	Testing Laboratory	Testing Standard	Year
01	Sandberg in UK	EN12811	2007
02	Element in USA	ANSI/SSFI	2013
03	INTI in Argentina	UNE EN12811	2014
04	MTS in Australia	AS/NZS 1576 &AS/NZS 1577	2015
05	Escuela Colombiana De Ingenieria Julio Garavito	NTC	2017
06	Dictuc in Chile	NCH2501	2020
07	SGS Shanghai	EN12811	2020

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