

Spantower System

Façade Scaffold System

Suspended Platform System

Ladders and Stepladders

Inspection and Certification

Special Products



PROFESSIONALS BUILD ON ALTREX



SUSPENDED PLATFORM SYSTEM

The suspended platform systems

Altrex products are primarily designed and manufactured with a focus on the future and a great emphasis on safety. Furthermore, perfecting the Aluminum Suspended Platform System is a continuing challenge for Altrex. This leads to new developments as an ongoing process.

ALTREX - THE TOTAL SUPPLIER OF SUSPENDED PLATFORM SOLUTIONS

The Altrex suspended platform system is recognized throughout the world as the standard for the Industry. There are many reasons why the Altrex suspended platform system is the preferred choice. A "safety first" emphasis in the design and construction of products, then a high degree of dedication to quality, next is the use of very durable components going into the final products. All these qualities lead to end product with high load capacity that can be marketed at competitive prices.

In addition to the Altrex Aluminum Modular Platform, Altrex offers a complete range of Access Equipment for a wide variety of applications. These products are designed on CAD-CAM and manufactured with state of the art welding robots to ensure a high degree of quality control.

Altrex Suspended Platforms Meet Or Exceed The Most Stringent Applicable Safety Standards

ALTREX CAN PROVIDE "SPECIAL" PRODUCTS

Depending on the work to be done, the Altrex System's versatility offers solutions for almost any situation. When a special fabrication is required, Altrex' experienced special products department can design and manufacture small access components to complete special assemblies.



altrex
PROFESSIONAL



for a wide variety of applications

The Altrex Suspended Platform "Line" consists of the heavy duty modular platform (the MHB), which is U.L. classified. Additionally, Altrex manufactures the new "Boiler Stage System" that is designed to pass through small "openings" prior to assembly.

THE COMPLETE SYSTEM

The MHB Platform

The Versatile Modular Aluminum Platform System

A complete aluminum system consisting of section lengths of 1/2, 1, 2 & 3 meters

Versatile - Has many standard components

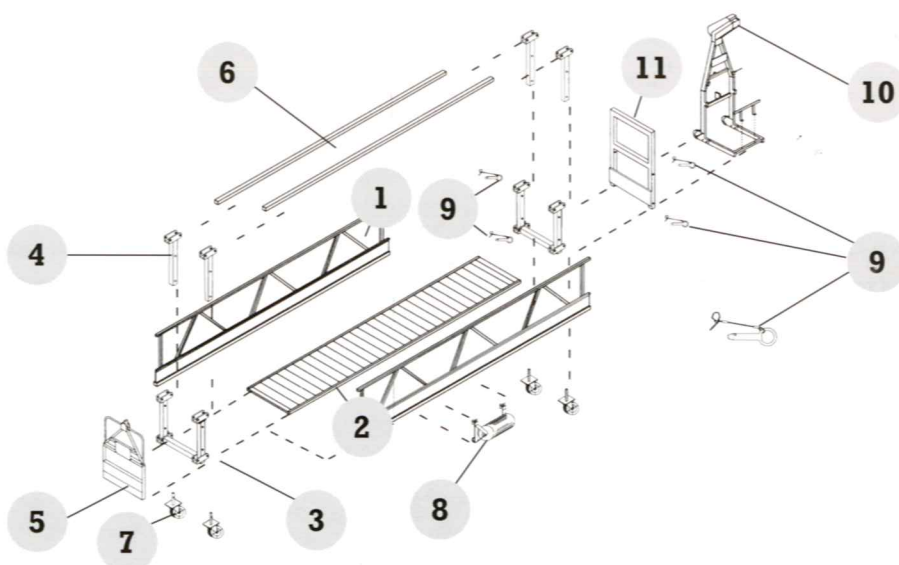
Availability of practical additional options

Lightweight - Weighs approximately 45 lbs. per meter length

Quick assembly without any special tools

High load capacity - up to 2,000 lbs., depending on platform length

Applications: Suitable for almost all kinds of maintenance and repair of curtain walls, inspection of structures, chimneys, silos, oil tanks, bridges and many other applications. Special configurations for the most exacting structures. Maximum platform span between two hoists is 49'-3" (15 m), which can be extended up to 62'-4" (19 m) with the use of walkthrough stirrups and end cantilevered sections of 6'-6" (2 m) each. Adjustable and fixed corner sections permit square and circular configurations to fit the most irregular shaped structures. The versatility of the Altrex Modular Platform allows rental companies to provide equipment in situations that previously could not be considered.



C.N. TOWER TORONTO CANADA

PARTS LIST

- | | |
|----|---------------------------|
| 1 | Side Frame |
| 2 | Deck |
| 3 | U-Frame with 8 Quick Pins |
| 4 | Guard-rail Post |
| 5 | End Stirrup |
| 6 | guard-rail |
| 7 | Caster |
| 8 | Wall Roller |
| 9 | Quick Pins |
| 10 | Walk-thru Stirrup |
| 11 | End guard-rail |

SIDE FRAMES

The use of special aluminum alloys and the unique design of the side frame, integrating the toe board and mid rail, form the base for a rigid platform with a high load capacity. The side frames are provided with UL and configuration stickers.

P/N 421005
1/2 m Side Frame
W = 7 lbs

P/N 421061
1 m Side Frame
W = 12 lbs

P/N 421062
2 m Side Frame
W = 23 lbs

P/N 421063
3 m Side Frame
W = 38 lbs

ALUMINUM DECKS

Welded aluminum decks with openings between deck segments in order to let dirt fall through and to reduce the influence of wind gusts on the platform. The decks are very strong in construction and extremely lightweight.

P/N 422950
1/2 m deck
W = 8 lbs

P/N 422901
1 m deck
W = 15 lbs

P/N 422902
2 m deck
W = 25 lbs

P/N 422903
3 m deck
W = 38 lbs

"U" FRAMES

The "U" frames connect side frames by means of "quickpins". Guard-rail posts, that can be raised and lowered, are held in place by the "U" frames. Guard-rails are then supported and connected to the guard-rail posts. Decks are then held in place by the "U" frames and side frames. The "U" frames are also used to connect and keep the end stirrups securely in place. When using walk through stirrups, end guard-rails are used and they are attached to the "U" frames.

P/N 421508
"U" Frame • W = 14 lbs

P/N 421520
Guard-rail Post • W = 2 lbs

GUARD-RAILS

Guard-rails are connected to the guard-rail posts by compression fastening buttons. The mid-rail is built into the side frame. The guard-rail posts can be adjusted to two levels to meet various standards.

P/N 422055
1/2 m Guard-rail
W = 1,5 lbs

P/N 422011
1 m Guard-rail
W = 2 lbs

P/N 422012
2 m Guard-rail
W = 4 lbs

P/N 422013
3 m Guard-rail
W = 6 lbs

ROLLER BUMPERS

Most structures require roller bumpers to keep the platform from damaging or marking the wall surfaces. They can be evenly positioned anywhere over the total length of the platform depending on job and structure conditions.

P/N 423030
Roller Bumper
W = 6 lbs

CASTERS

Casters allow the platform to be moved easily when it is not suspended. A minimum of four casters are recommended, but longer length platforms may require an additional number of casters. Casters are fastened to metal stems that are inserted into and connected to the "U" frames with a quickpin.

P/N 423010

Caster
W = 12 lbs



STIRRUPS

The Altrex Platforms can be suspended by means of end or walk through stirrups. There are two types of walk-through stirrups. The "C" walk-through stirrup that can be fastened anywhere on the length of the platform.

P/N 423015

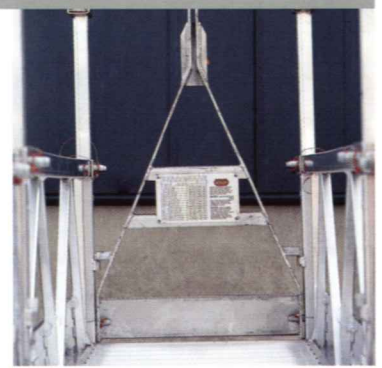
End Stirrup
W = 28 lbs

P/N 423024

Alum. Walk-through
Rectangular Stirrup
W = 60 lbs

P/N

Walk-through
"C" Stirrup
W = 140 lbs



The fact that the "C" walk-through stirrup can be positioned at any location over the length of the platform is important; because it is necessary for the suspension wire ropes to be rigged hanging perpendicular to the rigging devices. Additionally, the suspension wire ropes must be rigged to be parallel to each other. The "C" stirrups must be used when cantilever sections are needed at the end of the platform. When cantilever sections are used, the use of end guard-rails is necessary. Plan on having 4 quickpins to attach the end guard-rail to the U-frame.

P/N 423072

End Guard-rail



QUICKPINS

Quickpins are the pins with locking clips that secure the side frames and end guard-rails to the U-frames. The quickpins are attached to the U-frame via a wire rope lanyard to prevent loss on pins. Plan on having one extra pin to attach each caster to the U-frame. Stocking extra quickpins saves time in case of loss.

P/N 424001

Quickpin
(Individual pins)
W = 0,7 lbs

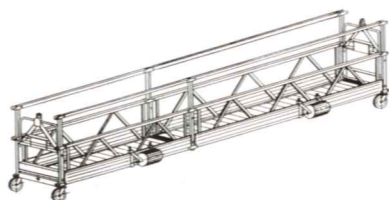
P/N 424016

Quickpin Set
(2 quickpins connected with a small dia. wire rope lanyard)
W = 1,5 lbs



END-STIRRUPS

All Platforms must be assembled as detailed in the platform configuration table (below). This is how the platforms were tested and classified by U.L. This chart takes into consideration that 2 powered scaffold hoists will be used. Any platform configuration not listed on this chart must be designed and tested under the guidance of a professional engineer. Total platform weight does not include weight of hoist, material or workers. Rated working loads must be evenly distributed on platform.



TECHNICAL DATA

		“6’9” ft	“9’9” ft	“13’6” ft	“16’6” ft	“19’6” ft	“23’3” ft	“26’3” ft	“29’3” ft	33’ ft	36’ ft	39’ ft	“42’9” ft	“45’9” ft	“48’9” ft
Total Platform Length		2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m
Max. dist. between stirrups	Feet	6’9” ft	9’9” ft	13’6” ft	16’6” ft	19’6” ft	23’3” ft	26’3” ft	29’3” ft	33’ ft	36’ ft	39’ ft	42’9” ft	45’9” ft	48’9” ft
	Meter	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m
Platform Configuration	Meter	2	3	2-2	3-2	3-3	2-3-2	3-2-3	3-3-3	3-2-2-3	3-3-3-2	3-3-3-3	3-3-2-2-3	3-3-2-3-3	3-3-3-3-3
Max. Rated working load	LBS	2000	2000	2000	2000	2000	1500	1500	1000	1000	1000	1000	750	750	750
	KG	909	909	909	909	909	682	682	455	455	455	455	341	341	341
Total platform weight	LBS	160	200	271	310	348	420	458	446	568	607	645	717	755	830
	KG	73	91	123	141	158	191	208	203	258	276	293	326	343	361

CONFIGURATION TABLE

With end-stirrups

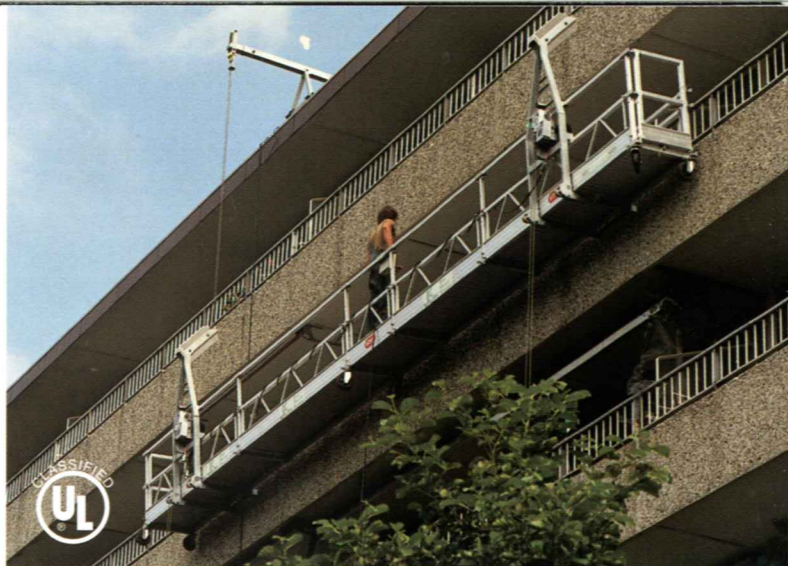
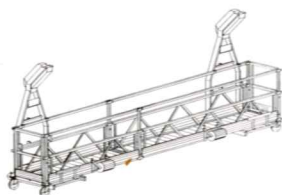
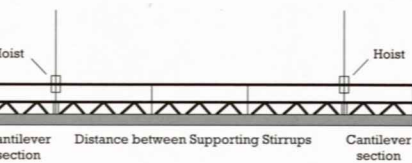
Required components for platform length:

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SUSPENDED PLATFORM WITH WALK-THROUGH STIRRUPS

Notes: see page 6

Explanation of Cantilevered Sections



TECHNICAL DATA: WITH WALK-THROUGH STIRRUPS AND 3 FOOT (1 MTR) CANTILEVER SECTIONS

		30'9" ft	33'9" ft	36'9" ft	40'6" ft	43'6" ft	46'6" ft	50'3" ft	52'6" ft	56'3" ft
Platform Length		9m	10m	11m	12m	13 m	14m	15m	16m	17m
Max. Length of each cantilever	Feet	3	3	3	3	3	3	3	3	3
	Meter	1	1	1	1	1	1	1	1	1
Max. dist. between stirrups	Feet	23	26	30	33	36	40	43	46	49
	Meter	7	8	9	10	11	12	13	14	15
Platform Configuration	Meter	1 2-3-2 1	1 3-2-3 1	1 3-3-3 1	1 3-2-2-3 1	1 3-3-3-2 1	1 3-3-3-3 1	1 3-3-2-2-3 1	1 3-3-2-3-3 1	1 3-3-3-3-3 1
Max. Rated working load	LBS	750	1000	1000	1000	1000	1000	750	750	750
	KG	341	455	455	455	455	455	341	341	341
Total platform weight	LBS	847	884	924	994	1034	1071	1144	1181	1221
	KG	385	402	420	452	470	487	520	537	555

TECHNICAL DATA: WITH WALK-THROUGH STIRRUPS AND 6 FOOT (2 MTR) CANTILEVER SECTIONS

		46'6" ft	50'3" ft	52'6" ft	56'3" ft	59'3" ft	62'3" ft
Platform Length		14m	15m	16m	17m	18m	19m
Max. Length of each cantilever	Feet	6	6	6	6	6	6
	Meter	2	2	2	2	2	2
Max. dist. between stirrups	Feet	33	36	40	43	46	49
	Meter	10	11	12	13	14	15
Platform Configuration	Meter	2 3-2-2-3 2	2 3-3-3-2 2	2 3-3-3-3 2	2 3-3-2-2-3 2	2 3-3-2-3-3 2	2 3-3-3-3-3 2
Max. Rated working load	LBS	750	750	750	750	750	750
	KG	341	341	341	341	341	341
Total platform weight	LBS	1056	1096	1133	1206	1243	1283
	KG	480	498	515	548	565	583

CONFIGURATION TABLE

With walkthrough-stirrups

Required components for platform length:

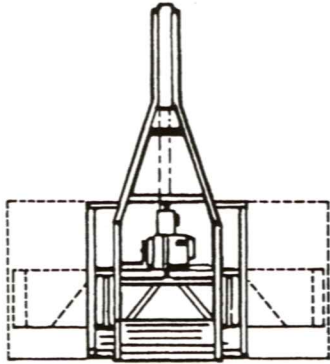
	Part.	9'9" ft	13'6" ft	16'6" ft	19'6" ft	23'3" ft	26'3" ft	30'9" ft	33'9" ft	36'9" ft	40'6" ft	43'6" ft	46'6" ft	50'3" ft	52'6" ft	56'3" ft	59'3" ft	62'3" ft
Description	Nr.	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m
Deframe 1 m (UL)	421061																	
Deframe 2 m (UL)	421062		4	2		4	2		4	2		4	2		4	8	6	4
Deframe 3 m (UL)	421063	2		2	4	2	4	6	4	6	8	6	8	10	8	6	8	10
Deck 1 m Halfopen (UL)	422901																	
Deck 2 m Halfopen (UL)	422902		2	1		2	1		2	1		2	1		2	4	3	2
Deck 3 m Halfopen (UL)	422903	1		1	2	1	2	3	2	3	4	3	4	5	4	3	4	5
Frame without guard-rail post (UL)	421508	2	3	3	3	4	4	4	5	5	5	6	6	6	7	8	8	8
Guard-rail post (UL)	421520	4	6	6	6	8	8	8	10	10	10	12	12	12	14	16	16	16
Guard-rail 1 m (UL)	422011																	
Guard-rail 2 m (UL)	422012		4	2		4	2		4	2		4	2		4	8	6	4
Guard-rail 3 m (UL)	422013	2		2	4	2	4	6	4	6	8	6	8	10	8	6	8	10
Roller wheel (UL)	423010	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Roller	423030	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
End guard-rail (UL)	423072	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Walkthrough stirrup	on req.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

WORKCAGE

A workcage is a standard configuration of the Altrex suspended platform system. It is a platform of 3'9" or 6'9" ft. (1 or 2 meters) with just one walk-through stirrup and one suspension point.

Workcages are a practical solution in case of narrow working conditions.

All workcages must be assembled as detailed in the platform configuration table (below). This is how the platforms were tested and classified by U.L. This chart takes into consideration that 1 powered scaffold hoist will be used. Any platform configuration not listed on this chart must be designed and tested under the guidance of a professional engineer. Total platform weight does not include weight of hoist, material or workers. Rated working loads must be evenly distributed on platform.



Dual purpose walk-through stirrups allow you to construct continuous runs, or assemble various size workcages.



TECHNICAL DATA

Workcage		3'9" ft	6'9" ft
		1 m	2m
Total weight	lbs	200	230
	kg	90	105
Max. rated working load	lbs	330	660
	kg	150	300

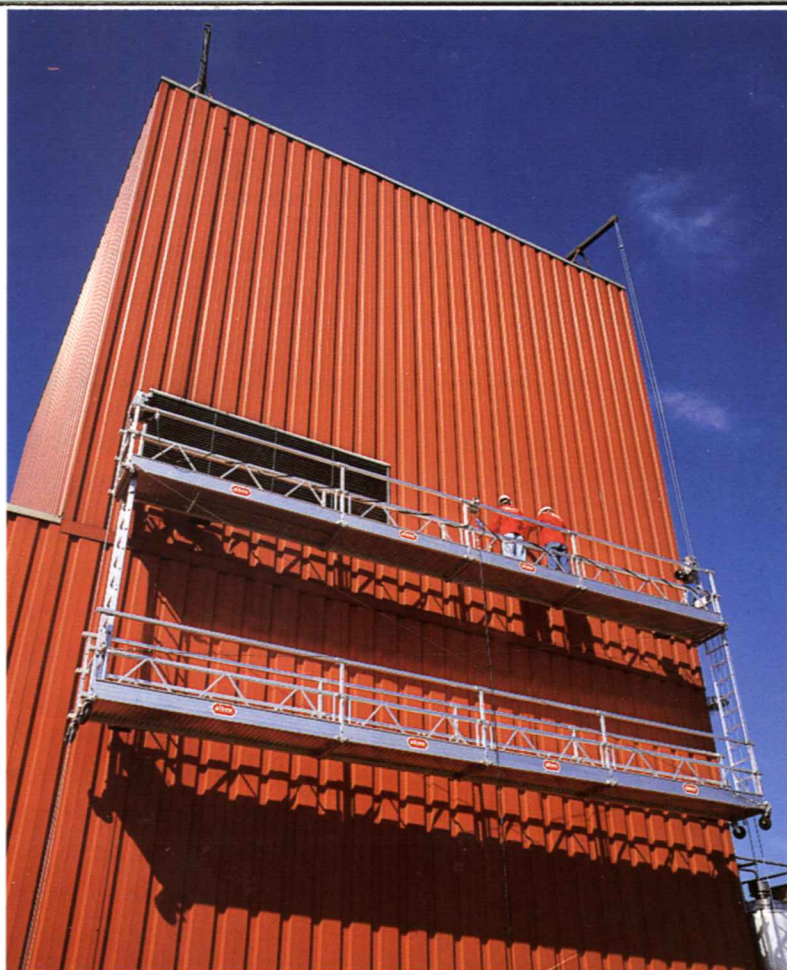
CONFIGURATION TABLE

Description	Part. Nr.	Required components for workcage length	
		1 m	2 m
Sideframe 1 m (UL)	421061	2	
Sideframe 2 m (UL)	421062		2
Alu deck 1 m Halfopen (UL)	422901	1	
Alu deck 2 m Halfopen (UL)	422902		1
U-frame without guard-rail post (UL)	421508	2	2
Guard-rail post (UL)	421520	4	4
Guard-rail 1 m (UL)	422011	2	
Guard-rail 2 m (UL)	422012		2
Caster wheel (UL)	423010	4	4
Wall roller	423030	2	2
End guard-rail (UL)	423072	2	2
Walk-through stirrup	on req.	1	1

DOUBLE DECK

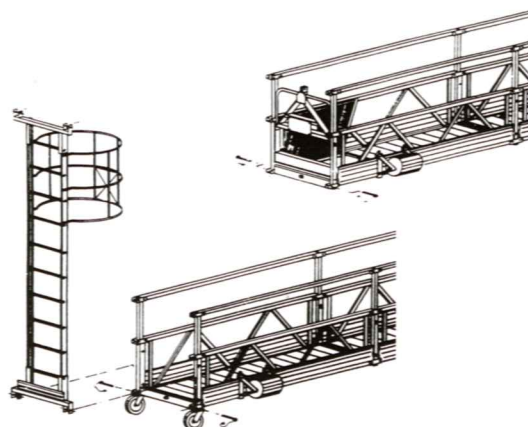
SUSPENDED PLATFORM

Altrex modular suspended platform system can be configured as a multi-level platform. Altrex designed a special double deck kit for this situation. Using this double deck configuration, workers can work simultaneously on two levels (or more) for cladding operations at relatively low additional cost (for rigging and other required equipment). Two ladder type frames connect the suspended platforms. When the platform is located on the ground, these ladder type frames can be used to climb from one level to another. The length of the platform decks on any "multi-level" platform arrangement should be equal to each other (i.e. the same length). The upper platform can be fitted with deck sections which are 2 or 3 meters long, as well as an access trapdoor between the upper and lower deck levels.



Advantages of the double deck kit:

- Working on two or more levels simultaneously
- Only two hoists required for lifting the loads
- Minimal amount of roof rigging required
- Adjustable vertical height between the levels
- Meets or exceeds existing safety standards
- Stable construction of platform arrangement
- Platform lengths of 2 to 10 meters in length (depending on lifting capacity of hoists and rigging used)



P/N 423083
Double Deck Kit

P/N 422602
Alum. Deck (2m)
With Trap Door

P/N 422603
Alum. Deck (3m)
With Trap Door

CONFIGURATION TABLE

Part. Nr.	Description	Min. Required
423076	Attachment MHB	4
423082	Ladder 110-rung MHB (or 423081)	2
424002	Assembly pin	8
557003	Steel cable 10 m - 9 mm	2
551082	Cable tensioner M12	2
735500	Tension bar L=500 mm - Ø 16	8
702008	Nut Nyloc M16	8
551080	Steel cable clamp 9 mm	5
723091	Bushing Ø 32 x 26 x 17 L=12 mm	16
423083	Double Deck kit complete	
	Remaining parts Double Deck kit	
423081	Ladder 10-rung + safety cage (Option)	1
422602	Alu deck 2 m with trapdoor	1
422603	Alu deck 3 m with trapdoor	1

TECHNICAL DATA

up to 2 x 33 feet (10 meter)
Rated working load of 1000 lbs (450 kg)
1000 lbs on 1 platform or 500 lbs on 2 platforms
Total platform weight will be 1200 lbs (550 kg)
Max. load on 1 hoist will be 1600 lbs (725 kg)

CORNER SECTIONS

The unique Altrex adjustable and fixed corner sections always provide the right angle you require!

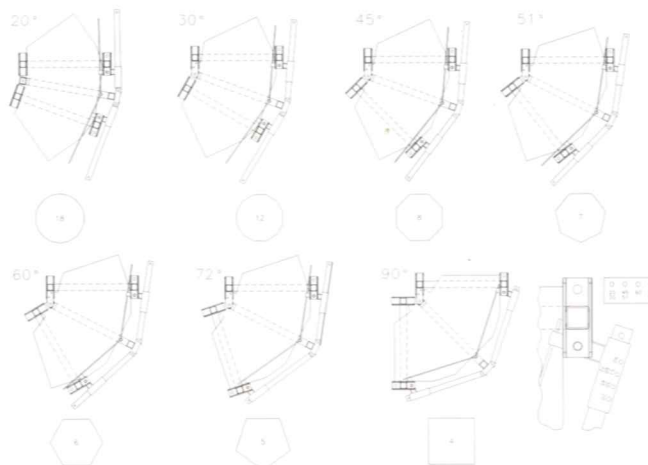
THE ADJUSTABLE CORNER SECTION

The adjustable corner section can form angles from 20 to 90 degrees. This allows for a great deal of versatility to one single corner section!

Advantages Of The Altrex Adjustable Corner Section:

- Unique in design and construction.
- Makes platform assembly and rigging easier.
- Fits together well with the rest of the suspended platform.
- Assembly by means of connecting with quickpins.
- Can make corner sections of 20, 30, 45, 51, 60, 72 and 90 degrees in order to make easy angle changes!
- Manufactured from anti-corrosive steel combined with aluminum components.
- Can be used with a wide variety of platform configurations.
- Can be supplied with a spindle for ease of adjustment (option).

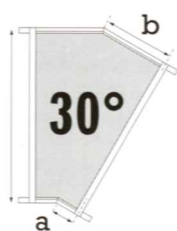
Finally, this unique adjustable corner section will allow for inventory component reduction (cost saving!) compared with fixed corner sections.



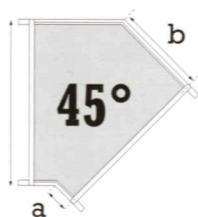
P/N 123069
Adjustable Corner
Section
W = 128 lbs



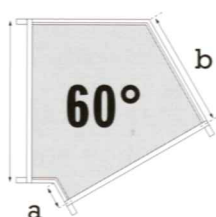
FIXED CORNER SECTIONS



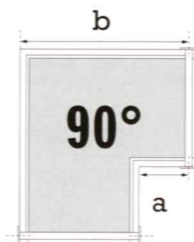
P/N 423065
W = 18 lbs



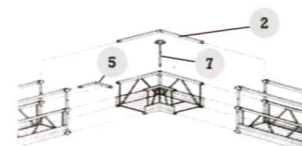
P/N 423060
W = 23 lbs



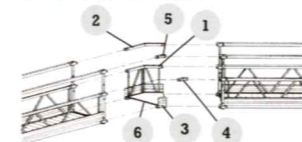
P/N 423055
W = 30 lbs



P/N 423050
W = 64 lbs



90° Corner Section



30° • 45° • 60° Corner Section

DIMENSION TABLE

Corner section	a		b	
	inch	mm	inch	mm
30°	4,6	116	11,9	303
45°	4,5	114	16,1	410
60°	4,1	105	20,5	520
90°	15,8	401	43,7	1111

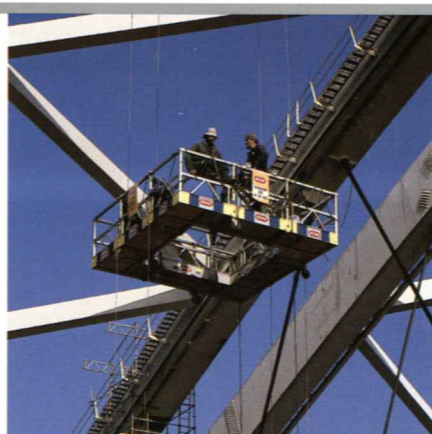
Dimensions from corner to the center of the U-frames

CONFIGURATION TABLE

Nr. Description	30°	45°	60°	90°
1 Outside Sideframe	1	1	1	*
2 Outside Guard-rail	1	1	1	1
3 Inside Toeboard	1	1	1	*
4 Inside Midrail	1	1	1	*
5 Inside Guard-rail	1	1	1	1
6 Deck	1	1	1	*
7 Guard-rail post			1	1

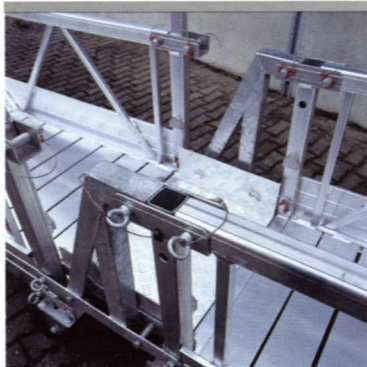
*= one fixed part

APPLICATIONS



PLATFORM OPTIONS

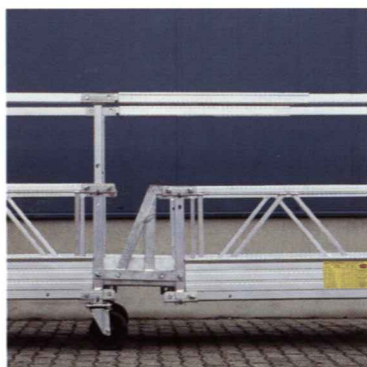
THE HINGE SECTION



Whenever more than two stirrups are supporting a straight platform you have to use a hinge section. With a hinge section you can make a platform longer than the standard configuration.

You do not need a hinge section on a corner platform with 3 suspension points.

Contact your Altrex dealer with your application requirements.



P/N 423028
Hinge Section
W = 35 lbs



CONFIGURATION TABLE

Part.		Min.
Nr.	Description	Required
735627	Adaptor guard-rail hinge section	2
576050	Hinge part	2
735626	Deck hinge section	1
424001	Quick pin MHB	6
423028	Hinge section complete	

THE ADJUSTABLE WALL ROLLER



Whenever you need a different distance to the wall other than a standard roller bumper, you have to use an adjustable wall roller. They can be evenly positioned over the length of the platform.

P/N 423030
Adjustable wall roller

BOILER STAGE

A special design of Altrex are the Boiler Stages. Boiler stages have been specifically designed for use in enclosed spaces, which cannot be accessed with standard equipment because of their size. In practice, this applies to situations where "access entrance" does not exceed 18 inches in diameter. Often, it is recommended that some sort of "false floor" be temporarily constructed inside the boiler (or similar structure) in order to facilitate assembly of the platform.

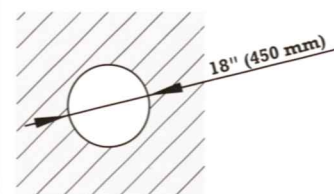
The minimum diameter of entrance access is 18 inches with a maximal wall thickness of 7 inches

Special Components:

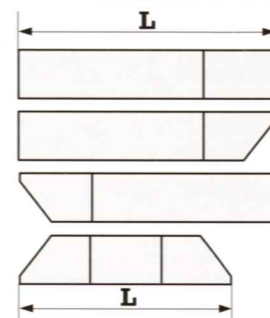
- Foldable deck
- Two part stirrup, which can be placed anywhere on the platform
- Support under the deck
- Custom guard-rail lengths

Other Special Considerations:

- Tailormade boiler stages can be made to fit non-standard boiler conditions.
- Contact your Altrex dealer with your requirements.



The platform is completely modular. All components are detachable to allow passage through a manhole of Ø 18 inch (450 mm).



Configurations (top view)

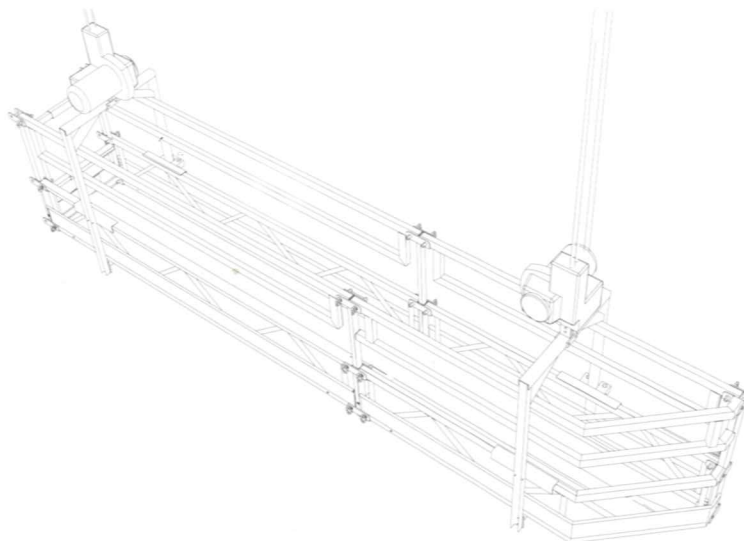
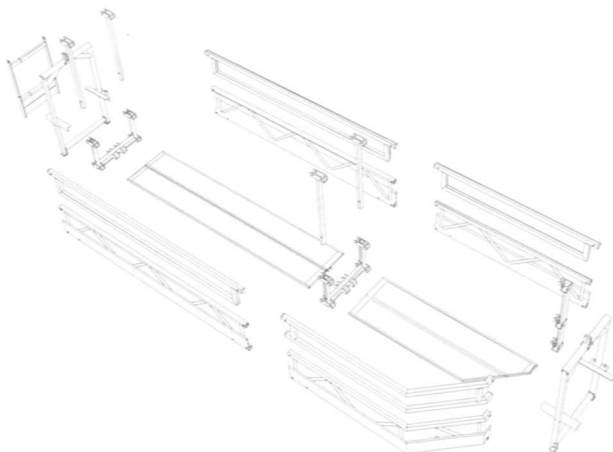
- 2 Square ends
- Square end + chamfer left hand
- Square end + chamfer right hand
- 2 Chamfers

TECHNICAL DATA

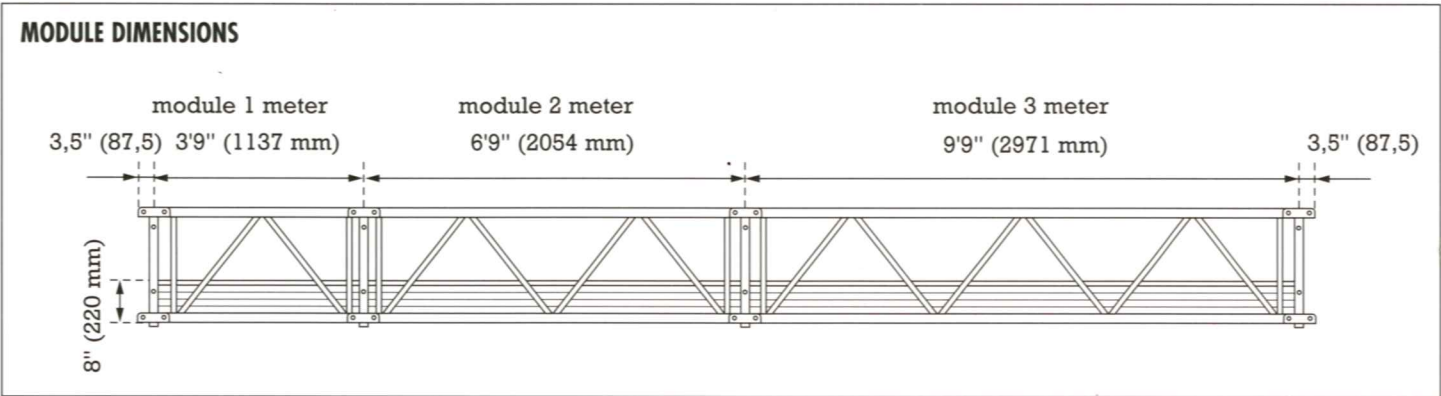
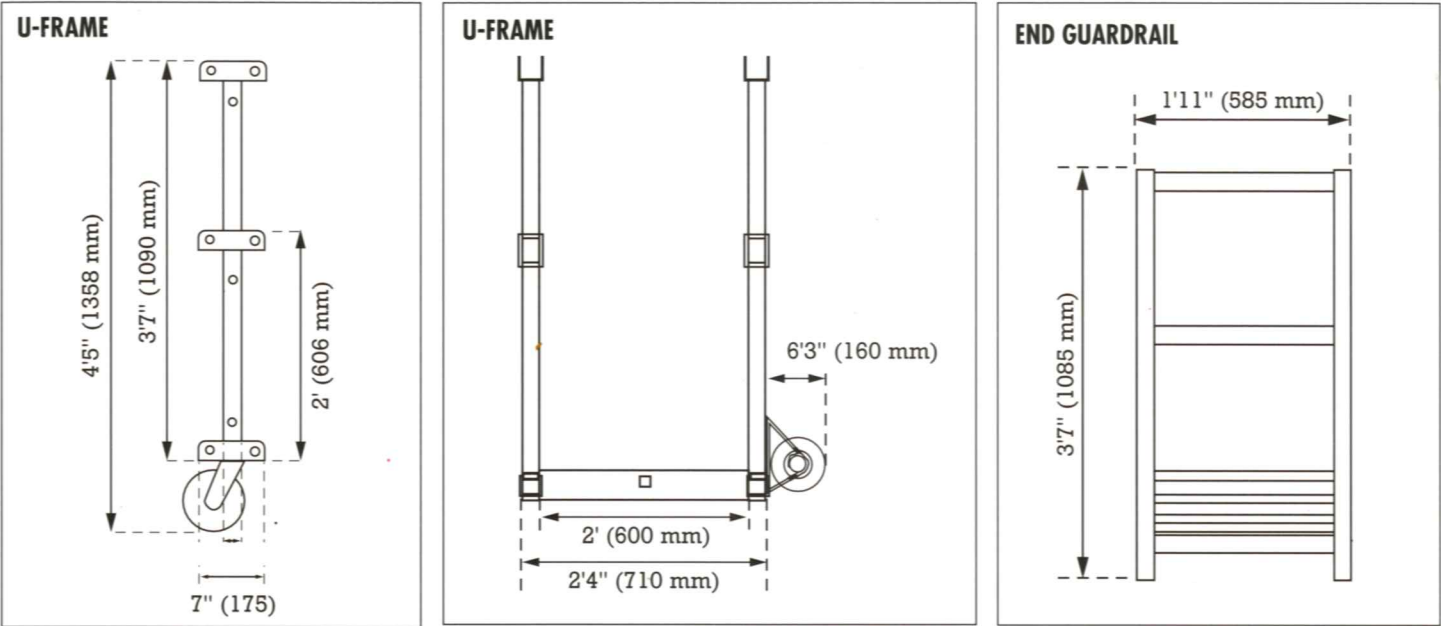
Total platform length		Working load		Selfweight	
Ft.	M	lbs	kg	lbs	kg
9'9"	3	750	350	420	191
13'6"	4	750	350	500	227
16'6"	5	750	350	580	263
19'6"	6	1650	750	590	268
23'3"	7	1650	750	670	304
26'3"	8	1650	750	750	341
29'3"	9	1150	540	760	345
33'	10	1150	540	870	395
36'	11	1150	540	910	413
39'	12	750	350	920	418
42'9"	13	750	350	1000	454
45'9"	14	750	350	1080	490

Max. load on cantilever = 275 lbs (150 kg)

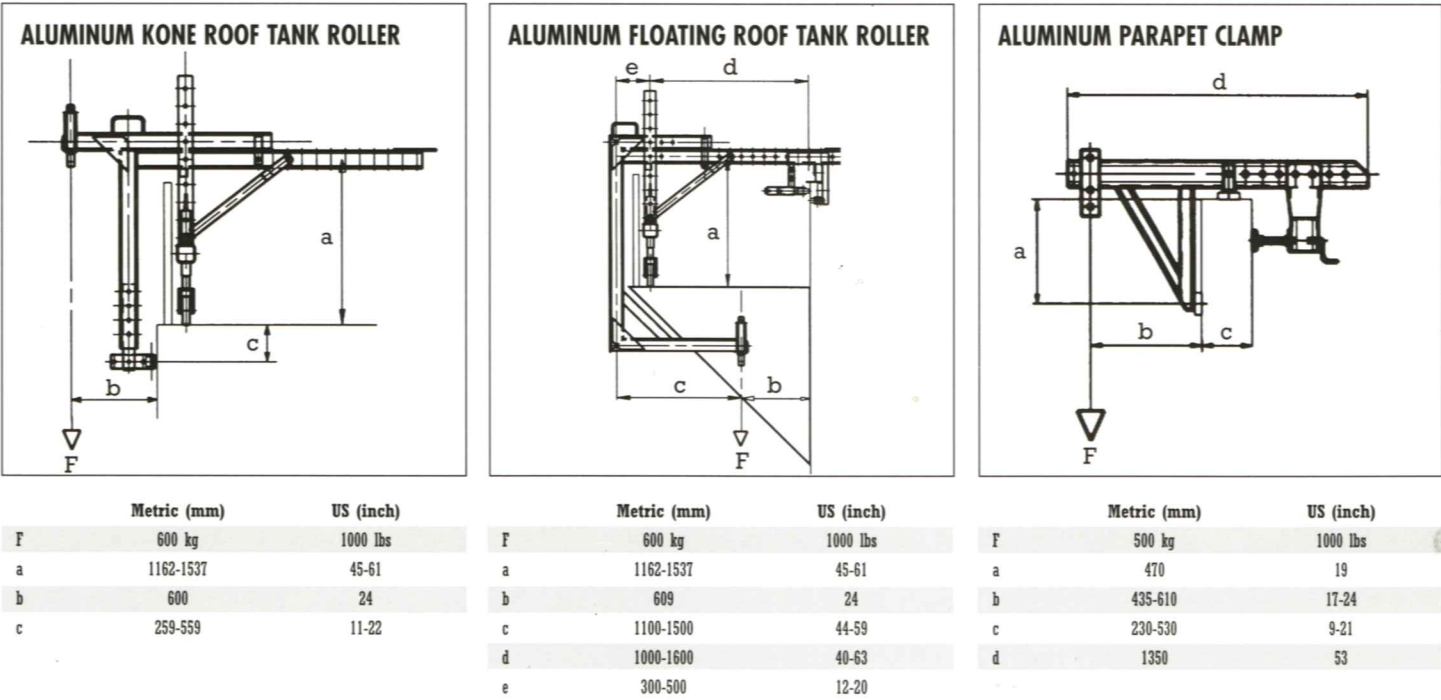
Max. length of cantilever = 3 ft. (1 m)



PLATFORM DIMENSIONS



SUSPENSION OPTIONS



SPECIAL APPLICATIONS WITH STANDARD COMPONENTS

IN SOME PROJECTS ADDED WITH SPECIAL PARTS





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