

57 South Commerce Way #130, Bethlehem PA 18017 (610) 443-2282

Roped Driven TRIO Homelift Layout Drawing Submittal

Customer:	
Address:	
Phone:	
Contact:	
Project Name:	
Location:	

Stiltz Homelift has certified the lift system meets the requirements of the ASME A18.1-2019 - Sect. 5 - Private Residence Vertical Platform Lifts

The TRIO Homelift complies with NFPA 70 NEC 2014 / CSA C22.1 and applicable building codes.



Block: xxx Lot: xxx Full Name Street Address City, State Zip



0	Stiltz L	td.	2021	TITLE	TRIO Homelift Title	Page
Drav	wn Wagon Wang	Date	03/19/2020			
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PRINT MAY BE REDUCED - DO NOT SCALE.

GENERAL DATA

Type:	Tr
Capacity:	55
Speed:	19
Maximum travel:	14
Car floor area:	11
Landings:	2
Car entrances:	1 i
Operation:	Co

Trio Alta Homelift	
550 lbs.	
19.2 ft/min	
14 ft	
11.1 sq ft	
2	
1 in-line, 2 pass thru	
Constant pressure	

MACHINE EQUIPMENT

	Manufacturer:	Nord Gear Ltd
]	Type:	SK9016.1 VL-80S/4 BRE10 HL SR OL/H (Bevel gear unit)
]	Motor Power:	0.55 kW
]	Output Speed:	1375 / 15 rpm
]	Reduction:	02:37.0
]	Output Torque:	339 Nm
]	Brake torque; manufacturer:	10 Nm; Precima
]	Drum; manufacturer:	YangZhou Saierda Nylon manufacture Co. Ltd.
	Material:	Nylon
	Diameter:	8.856 in (225mm)
	Diverter pulley; manufacturer:	YangZhou Saierda Nylon manufacture Co. Ltd.
]	Material:	Nylon
	Quantity:	2

LIFT WEIGHT

Hoist unit (machine room above car):
Car body:
Total empty lift:

266 lbs.	
316 lbs.	
582 lbs.	

SUSPENSION ROPES

Manufacturer:
Type:
Dimensions:
Min. breaking force:

Pfeifer Drako
Drako 7 x 19 WSC (Mil Spec 83420)
0.2362 in (6mm)
29,0 kN

ELECTRICAL

Main power:	220-1-60 HZ - 15 AMP	
Signal voltage:	24 VDC	
Emergency lowering system:	Battery 12 V - 7 AMP, with emergency lighting	
PLC; manufacturer:	Mitsubishi	
Type:	AL2-24MR-D	
VFD; manufacturer:	Nord	
Type:	SK 500E - 750 - 323 - A	

GUIDE RAILS

Manufacturer:
Type:
Size:

Stiltz
Specific Aluminium Alloy (AA 6063) extrusion
Overall depth 7.165 in, width 3.756 in

SIGNAL/SAFETY FEATURES

Landing controls:	Remote transmitters hold-to-run buttons, with back lights
Car controls:	Hold-to-run call buttons, with back lights
On/off and reset switch:	Keyed on car operating panel
Emergency stop:	Push emergency stop switch with alarm siren
Emergency signalling device:	Two way voice communication telephone, to landline
Car indicator lights:	Over-speed, over-load, out-of-balance, bottom-top obstruction
Car Lighting:	LED strip lighting in ceiling and LED puck lighting cab floor
Top of car/machine room:	Load sensitive top plate above lift
Bottom of car:	Obstruction sensor pad at base of lift car

CAR

Type:
Suspension:
Walls:
Door:
Floor surface:
Apron minimum vertical height:
Handrail:

Centrally guided, 1 or 2 entrances
2 ropes, drum
Sides have full walls.
Manual operation swing full height doors.
In accordance with clause 5.3.1.11
2.362 in
Included as standard

APPLIED COMPONENTS

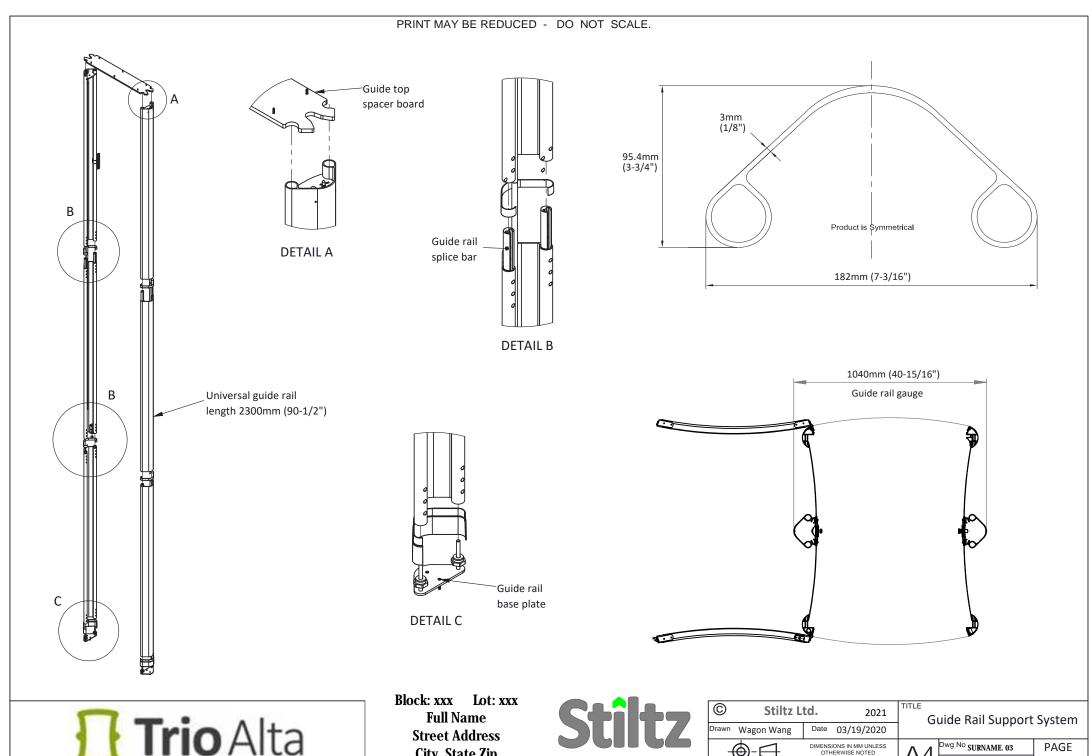
Safety gear; manufacturer; type: Car door lock; manufacturer; type:
Car door lock; manufacturer; type:

Stiltz, mechanial gripper plates and rods Stiltz (Kunshan) Limited, ES 20M





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Trio Alta

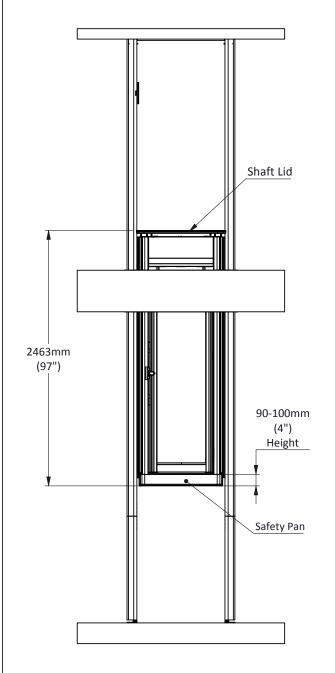
Street Address City, State Zip



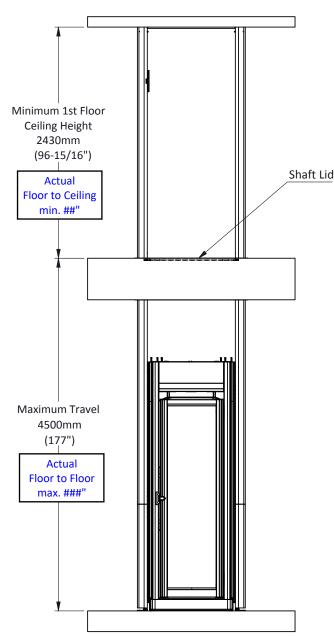
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THIRD ANGLE PROJECTION - AS 1100

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Trio Alta



The top of the mechanical hoist enclosure, which is positioned on top of the lift car, is equipped with; (i) a fixed protection panel; (ii) six micro switch limits; (iii) an extreme upper limit switch; and (iv) in most cases the shaft lid.

The fixed protection panel will prevent penetration into the hoist enclosure, but is not designed to be stood on. Signage is installed to inform and remind people not to stand on top of the lift. A micro switch will activate, and stop the lift, if the protection panel is removed. In addition, the shaft lid that protects the second floor opening (from falling hazard) travels on top of, and protects, the car top mounted hoist unit. A wire rope clamp and locking mechanism is fitted to the shaft lid preventing removal.

The main switch to disconnect all power to the hoist, is located just below the protection panel. This allows the hoist to be disabled from about the lift cab, and therefore the lift cannot travel in either direction electrically.

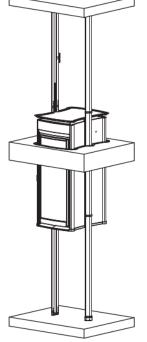
The six micro switches and extreme upper limit switch (absolute final limit) will activate when depressed. So if any top clearance risk occurs, the person/s can depress any one of the six micro switches or extreme upper switch and the lift will stop moving upwards immediately. If the extreme upper limit is activated, the reset

button (adjacent to the extreme upper limit) will be depressed to move the lift downwards.

In addition, signage is installed to inform and remind people of the low head height clearance above the lift car.



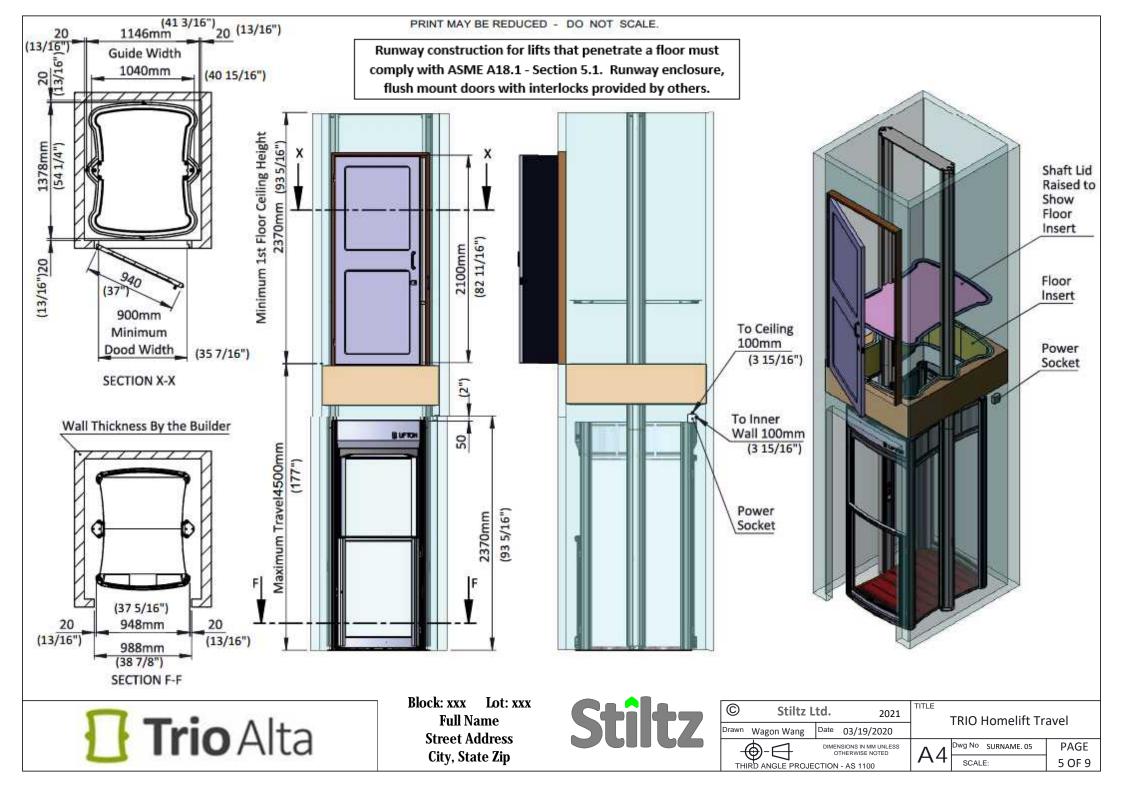
THIRD ANGLE PROJECTION - AS 1100

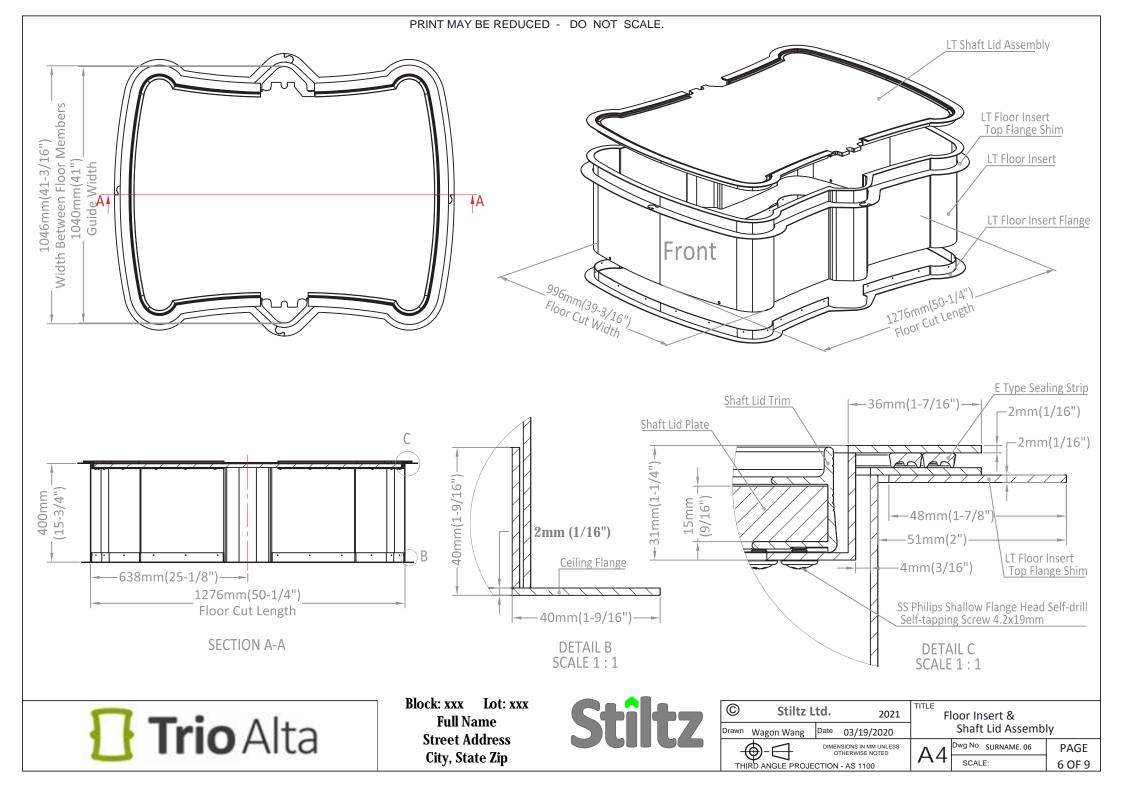


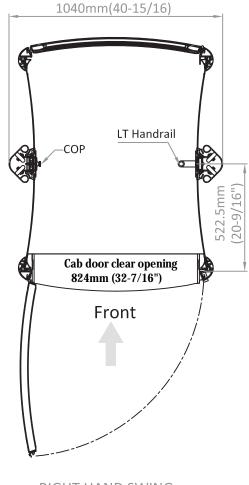
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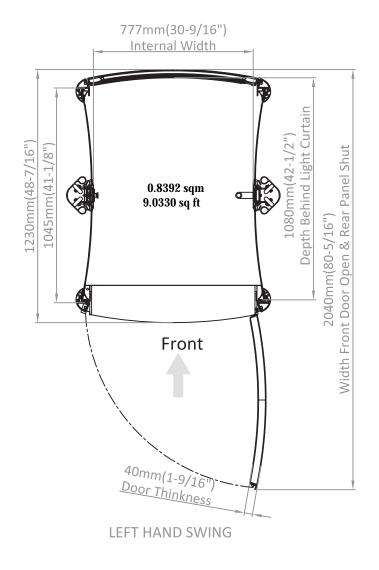


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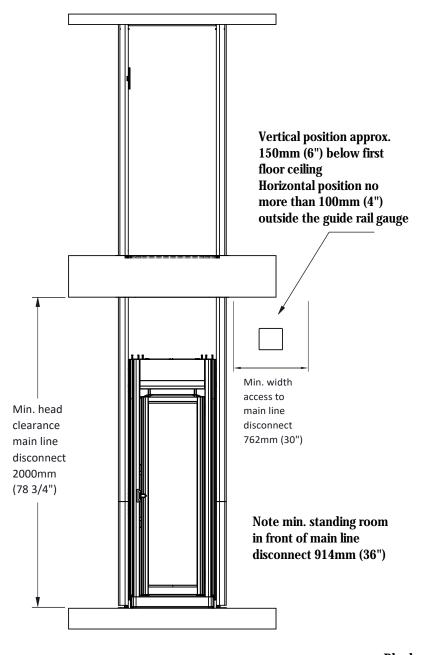


RIGHT HAND SWING

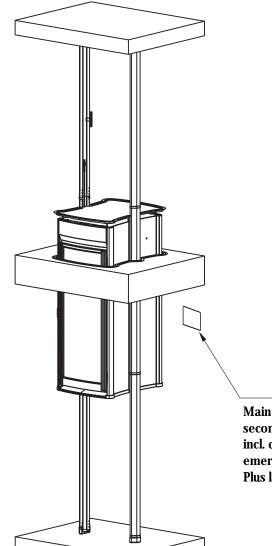




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Trio Alta



The electrical safety lowering system is equipped with redundant power supply, so that the lift can disconnect itself from the main power and verify that the safety relay MR is in fact operational and available in the event of a power failure. The lowering system can be used in lieu of a manually operated system and has been confirmed as being suitable. The electrical emergency operation is superior (to mechanical release), it allows any trapped occupant to be released from the LCU (car) in a short amount of time. Rather than time delays to the occupant waiting for elevator personnel to mechanically lower the LCU (car) from outside the lift.

The battery backup system will automatically switch from main power to emergency power, when power is lost. And return to main power when main power is re-established.

The battery backup system is self-checking and verifies it is availability by checking the system two consecutive times between 1 AM and 1:30 AM each Sunday morning.

Main line disconnect and secondary disconnect incl. car lighting and emergency lowering Plus landline telephone

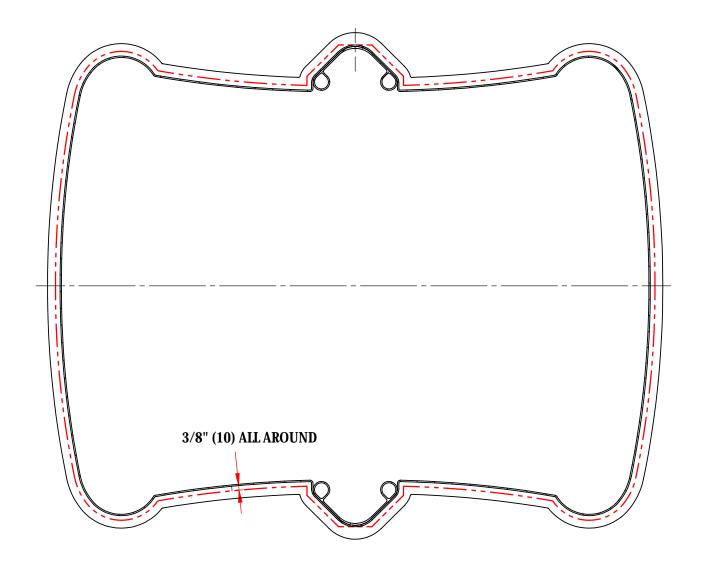
> Example main line disconnect 20 Amp 240-Volt Fusible Indoor General-Duty Safety Switch PROVIDED BY OTHERS



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