

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

Roped Driven TRIO 6m Homelift Layout Drawing Submittal

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

The Liftinstituut B.V., an accredited ANSI AECO, has certified the elevator system meets the requirements of the ASME A17.7-2007 / CSA B44.7-07 per certificate no. NA17-0842-1004-026-01 revision no. 3.

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



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PRINT MAY BE REDUCED - DO NOT SCALE.

GENERAL DATA

Type:	
Capacity:	
Speed:	
Maximum travel:	
Car floor area:	
Landings:	
Car entrances:	
Operation:	

MACHINE EQUIPMENT

•		
Manufacturer:	Nord Gear Ltd	
Type:	SK9016.1 AX VL-80SH/4 DBR6 HL TF OL/H (Bevel gear unit)	
Motor Power:	0.55 kW	
Output Speed:	1420 / 16 rpm	
Reduction:	01:91.77	
Output Torque:	339 Nm	
Brake torque; manufacturer:	5 Nm; Precima	
Drum; manufacturer:	YangZhou Saierda Nylon manufacture Co. Ltd.	
Material:	Cast Iron	
Diameter:	7.874 in (200mm)	
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:

242 lbs	
99 lbs	
440.0 lbs.	

TRIO Homelift 500 lbs. 21.7 ft/min 19.685 ft 8.5 sq ft 3 max.

1 in-line, 2 thru Constant pressure

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	

GUIDE RAILS

Manufacturer:
Type:
Size:

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

CAR

Туре:
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

ELECTRICAL

Main power:	220-1-60 HZ - 20 AMP
Signal voltage:	24 VDC
Emergency lowering system:	Battery 12 V - 12 AMP, with emergency lighting
PLC; manufacturer:	Mitsubishi
Type:	AL2-24MR-D
VFD; manufacturer:	Mitsubishi
Type:	FR-D720

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

APPLIED COMPONENTS

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

Stiltz, mechanial gripper plates and rods
Stiltz (Kunshan) Limited, ES 20M
102448987CRT-001

Car door contact; manufacturer;	Kronenberg, PZ 73
UL certificate:	20141104-SA34041
Machine brake; manufacturer;	Precima
UL certificate:	1478630

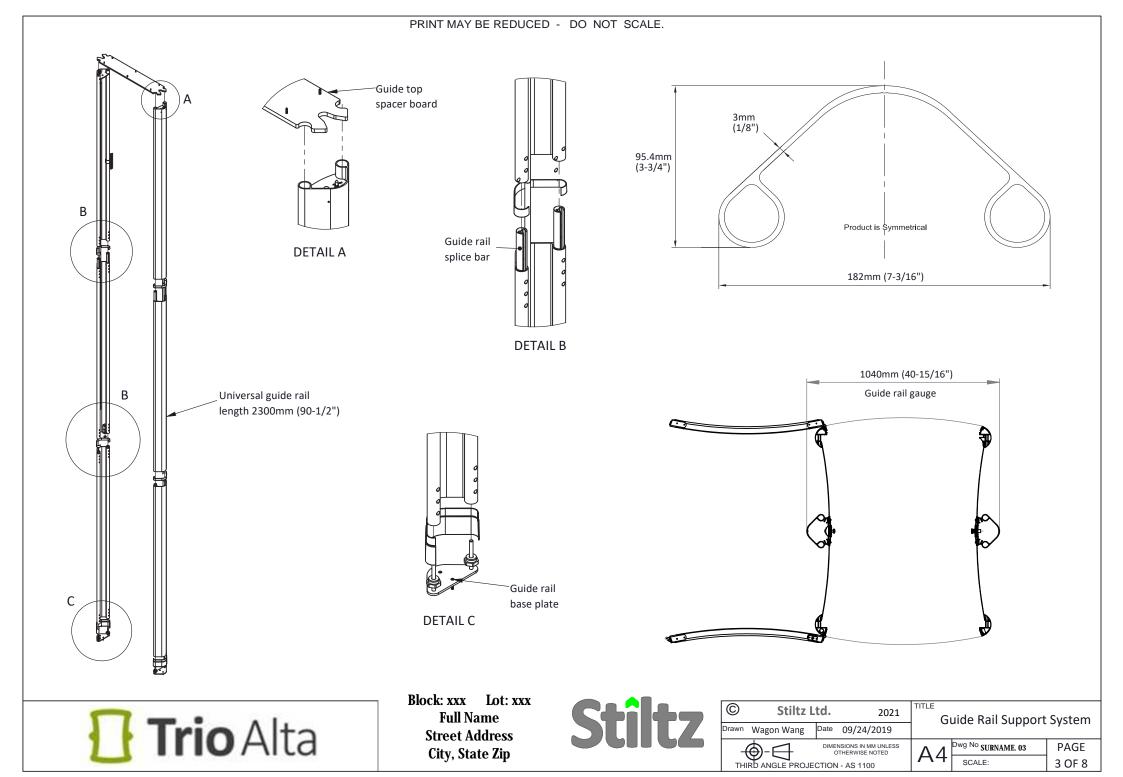


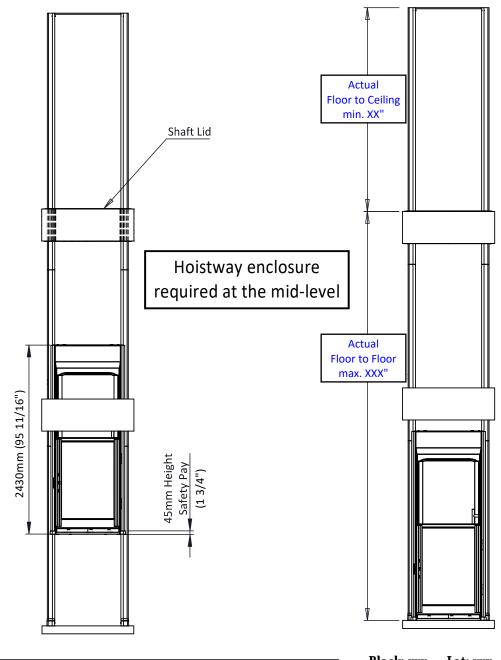


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Stiltz

A17.1.5.3-2013 / CSA B44-13 deviations:

(1) 5.3.1.3 – Insufficient car top clearance

(3) 5.3.1.16.2.j – Top of car

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.

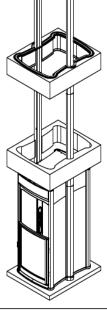
The main switch to disconnect all power to the hoist, is located just below the protection panel. This allows the hoist to be disabled from about the lift cab, and therefore the lift cannot travel in either direction electrically.

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

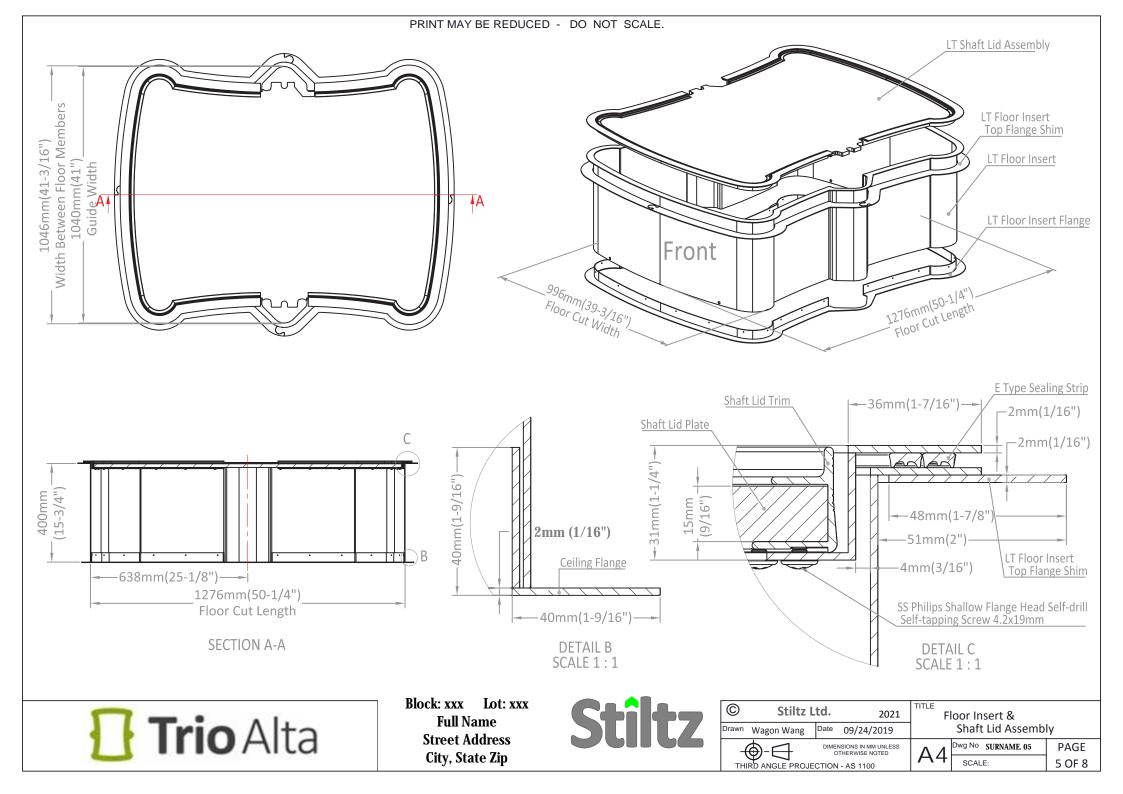
of the six micro switches or extreme upper switch and the lift will stop moving upwards immediately. If the extreme upper limit is activated, the reset button (adjacent to the extreme upper limit) will be depressed to move the lift downwards.

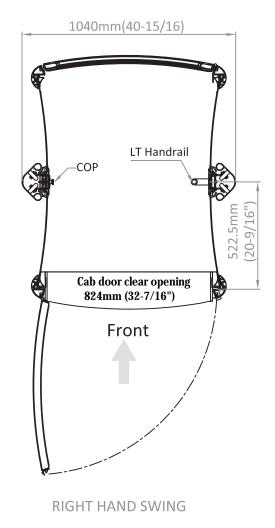
In addition, signage is installed to inform and remind people of the low head height clearance above the lift car.

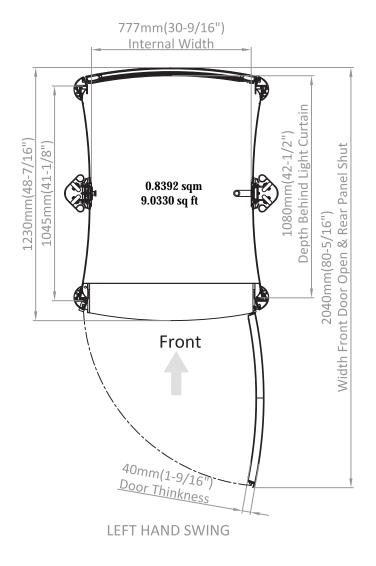




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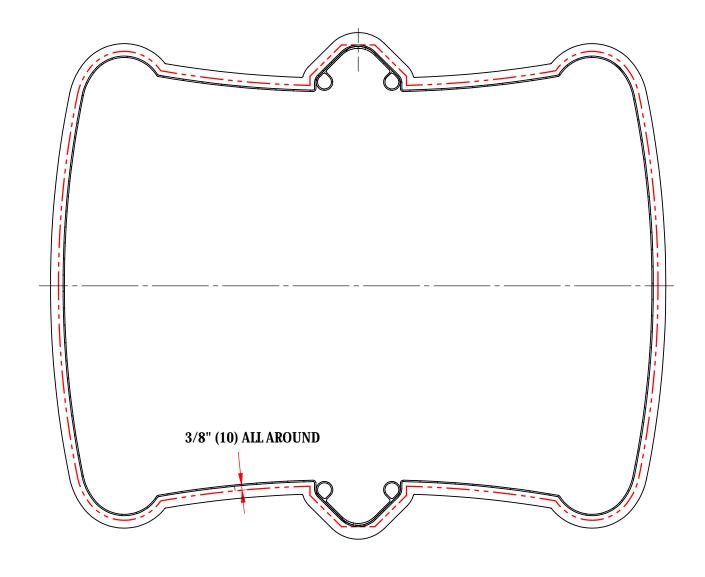








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