

Instruction Manual Cool SmartLift series



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Document history

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1 INTRODUCTION

1.1 PREFACE

This operating manual is an essential aid for the correct and safe use of the insulation partition walls.

This manual contains important information for reliable, proper and efficient use of the insulating partitions. Adherence to the manual helps to avoid dangers, reduce repair costs and downtime and increase the reliability and the lifetime of insulating walls.

The instructions must be available to the operating personnel at all times. Any person who is authorized to use the insulating walls reads the operating instructions before use and then applies them accordingly.

1.2 COMMON INFORMATION

Do not expose the Cool SmartLift series wall to outside weather conditions, extreme temperatures and direct sunlight.

Any change to the product makes the CE marking invalid. Please contact the manufacturer, if a modification of the product is necessary.

Loadlok reserves the right, if not being met to the requirements, to withdraw the guarantee of their product partially or entirely.

At the end of the lifecycle:

The end user can deliver the multi temp product to Loadlok. Loadlok provides environmentally sound disposal of their product and recycles parts if these are fit for reuse.

1.3 NOTES TO THE OPERATOR

This manual is an essential part of the insulating walls. The customer shall ensure that the operator adheres these instructions.

Note that in addition to the instructions, the laws of the country of the place of use are applicable and approved rules for accident prevention alongside with approved technical regulations for safe and professional work shall apply.

Any change to the product makes the CE marking invalid. Please contact the manufacturer, if a modification of the product is necessary.

1.4 READING INSTRUCTIONS



WARNING:

This is a warning of a potentially hazardous situation, resulting moderate or minor injury and / or property damage if the appropriate instruction is not followed exactly.



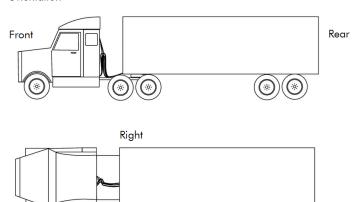
ATTENTION:

This is a reference to useful information for the safe and effective use.

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Orientation



1.5 LIST WITH ABBREVIATIONS

Left

J-formed rail to guide the wall into the trailer. 3060

J-formed rail with locking holes to guide the wall into the trailer. 3062

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2 SAFETY

2.1 SIGNS ON THE PRODUCT



ID. nr: TW60-0203

MANUFACTURED BY:

DISTRIBUTED BY:





Type designation sign

Common information of the Cool SmartLift series wall



Warning sign

Do not use the Cool SmartLift series wall as a load securing device!

WARNING
COIL SPRING UNDER
HIGH TENSION

ACHTUNG LEBENSGEFAHR!

Nur durch

PAS OP
VEER ONDER
SPANNING!

Alleen door vakkund

Warning sign

The balancer is a spring activated device.

2.2 SIGNS IN THE MANUAL



WARNING:

This is a warning of a risk of danger, with the possible consequence serious injury or death if the designated instruction is not exactly is followed.



WARNING:

This is a warning of a potentially hazardous situation, resulting moderate or minor injury and / or property damage if the appropriate instruction is not followed exactly.



ATTENTION:

This is a reference to useful information for the safe and effective use.

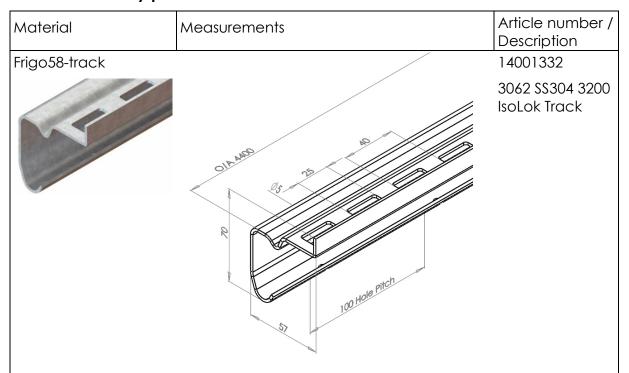
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3 MOUNTING THE ISOLOK TRACK

3.1 PARTS NEEDED

3.1.1 Mandatory parts



Alternative article numbers with descriptions:

14001345 10009470

3062 PRE GALV 4400 IsoLok Track 3062 SS304 3200 CS IsoLok Track

14001340 14001344

3062 SS304 4400 IsoLok Track 3062 SS430 3200 IsoLok Track

14003604 14001329

3062 SS430 4400 IsoLok Track 3061 PG 3200 IsoLok Track

Notes:

Rubber end stop 11060164



Rubber endstop extra hole

Notes: To be fitted on all ends. Is not accompanied with fasterners.

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3.1.2 Optional parts

Material	Measurements	Article number / Description
Steel stopper right	1	14003348
side		Steel stopper rightside for Bulkheads
Notes: Is delivered v	without fasteners	
Steel stopper left sic	de	14003346
		Steel stopper leftside for Bulkheads
Notes: Is delivered \	without fasteners	
Roller wheels on a short axle		12009541 Roller wheels axle 48mm
Notes:		
Roller wheels on a long axle		12009540 Roller wheels axle 119mm MK1

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		CLEVER IN CARGO CONTROL
Material	Measurements	Article number / Description
Notes:		
Air return vent		11060262
Notes: Opening	g closed with a tarpaulin sheet with	Air return kit Cool series wall
Air return vent	, closed with a raipadiin sheet with	12010099
		Butterfly air return
Notes: Opening	closed with a butterfly valve	
Ventilator with t	hermostat	11060320
		Cool series wall80 12V Fan



Notes: Spiral cable is included

cable switch.

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3.1.3 Consumables

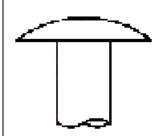
Material	Measurements	Article number / Description
Polar wear strip		12009573
NAMES OF THE PROPERTY OF THE P		PVC safestrip super polar
Notes:		

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3.1.4 Parts to be supplied by yourself

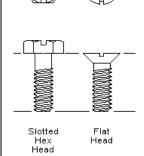
MaterialMeasurementsArticle number /
DescriptionRivetsMax 5 mm diameterN.A.



Notes: The length of the rivet is subject to the composition of the insulation wall of the trailer.

This article is not in the delivery program of LoadLok.

Screw bolt Max 5 mm diameter N.A.



Notes: The length of the screw bolt is subject to the composition of the insulation wall of the trailer.

Flathead optional: holes counter sunk for flush mounting. If this is a preference for mounting the IsoLok Track, the mounting holes can be made counter sunk.

This article is not in the delivery program of LoadLok.

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3.2 TOOLS NEEDED

Blind rivet pliers



Wrench



Spirit level tool



Allen key



Measuring tape



Extended wrench
24mm hex
1/2 inch



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Pipe wrench



Socket wrench



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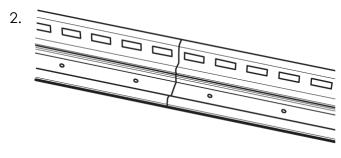
4 MOUNTING THE TRACK



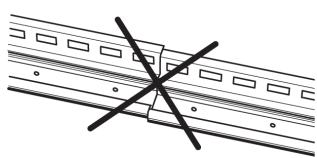
ATTENTION:

The procedure as described here must be performed twice, once on the left hand side and once on the right hand side of the trailer.

1. Measure the effective length of track to be used.



For smooth running of the balancer trolley wheels over several tracks LoadLok advises to weld the tracks in the joining point in such way the balancer or trolley wheels never can interfere with the weld.



Make sure that the end edges of the rails are straight, so that the wheels of the vehicle can run continuous smoothly.

3. If the Frigo58-track is to be shortened, please leave enough material length in order to fasten the rubber end-stop with its steel cover plate.

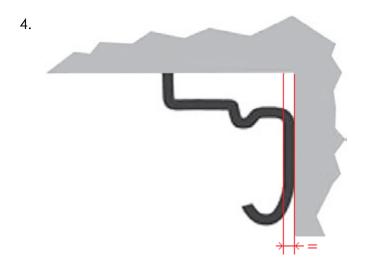


ATTENTION:

Loadlok advises to use glue between the IsoLok Track and side walls which is fit for this purpose.

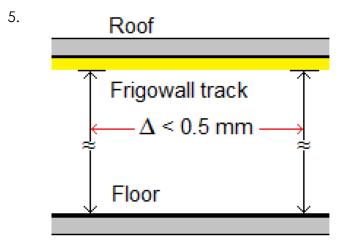
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Insert the guide rails in the outer left or right side of your vehicle.

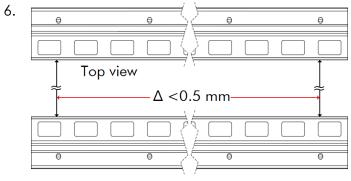
Install the rails vertical (both to the wall and also to the ceiling).



Measure the distance from the floor to the IsoLok Track on both ends of the track.

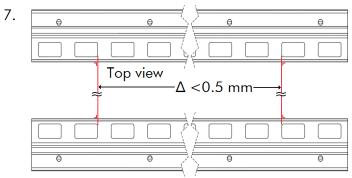
The difference must be less than 0.5 mm as is shown in figure.

Side view



Measure the distance between the tracks in the vehicle, like is shown in the figure.

The difference must be less than 0.5 mm.



The locking holes **must** be parallel.

The difference must be less than 0.5 mm.

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ATTENTION:

Maintain the Frigo58-track on level! The tolerance for smooth running is < 0.5 mm!

8. Use **all** mounting holes with a rivet or a screw bolt.



ATTENTION:

When using rivets:

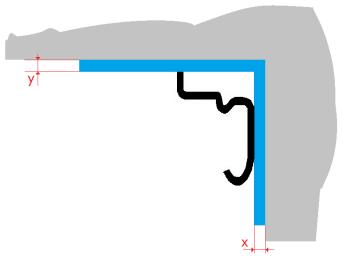
Please fasten the IsoLok Track at least of a length of 750 mm with bolts for maintenance purposes of the Frigo58 door. These sections must be opposite to each other!



ATTENTION:

Wait until the adhesive is fully hardened. Only then proceed with rolling the Cool SmartLift series wall assembly into the track.

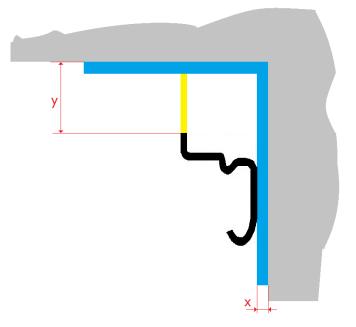
9. In the case the trailer is reinforced in the edges with corner profiles:



The corner profile is shown in blue colour.

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LoadLok advices to fill up the gap between the roof and the Frigo58-track. (shown in the figure in yellow)



ATTENTION:

The X and Y values are passed when ordering the Cool SmartLift series wall!



ATTENTION:

Note that the locking holes must remain free of obstacles

10. Mount the end stops at the bulkhead side of the track. (As is shown on position 11 or 12)





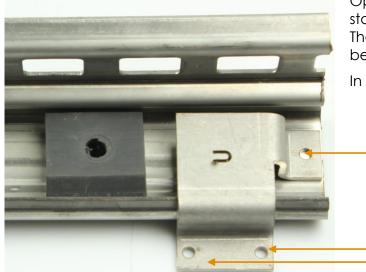
Use the drain hole to mount / attach the end stop.

LoadLok advises to use a M5 x 30 bolt.

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Optional mount the steel stopper as shown in the figure. The hole in the IsoLok Track must be drilled.

In total 3 holes must be drilled!

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5 INSTALLATION OF THE COOL SMARTLIFT SERIES WALL IN THE VEHICLE



WARNING:

Ensure that the vehicle is positioned on a horizontal plane before continuing with the installation!



WARNING:

Severe injuries are possible due to the falling wall. Use a lashing strap to secure the wall on the forks of the forklift to avoid falling.



ATTENTION:

Cover the lifting equipment as a precaution with soft material, in order to prevent damaging the Cool SmartLift series wall.

1. Secure the Cool SmartLift series wall with a lashing strap on the forks of the forklift to avoid falling.

2.



Lift the complete Cool SmartLift series wall with a forklift with extended forks (min. 1.85 m long) or other lifting tools (e.g. scissor lift).



ATTENTION:

The center of gravity of the Cool SmartLift series wall is on the balancing device.



WARNING:

Severe injuries are possible due to a falling wall. Use a lashing strap to secure the wall on the forks of the forklift to avoid falling.

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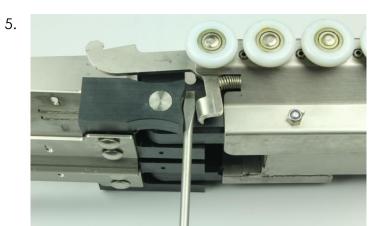
3. Carefully lift the Cool SmartLift series wall against the opening of the mounted guide rails and insert the wheels of the trolleys into the rail.



ATTENTION:

The center of gravity of the Cool SmartLift series wall is on the balancing device!

4. Slide the Cool SmartLift series wall as far into the vehicle as possible so that the Cool SmartLift series wall can not roll out of the **unsecured** rails.



Override the brake with a screwdriver on both sides.

6. Push the Cool SmartLift series wall at least so far in the trailer that the locking finger is in a breakhole



WARNING:

Severe injuries are possible due to a falling wall. Remove the override and assure that the locking finger is in a break hole!



ATTENTION:

The wheels are freely movable sideways up to 10mm to compensate for differences in vehicle width.

7. Mount the end stops at the bulkhead side of the track. (As is shown on position 8 or 9)

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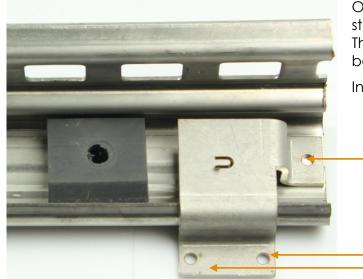
8.



Use the drain hole to mount / attach the end stop.

LoadLok advises to use a M5 x 30 bolt.

9.



Optional mount the steel stopper as shown in the figure. The hole in the IsoLok Track must be drilled.

In total 3 holes must be drilled!

10.



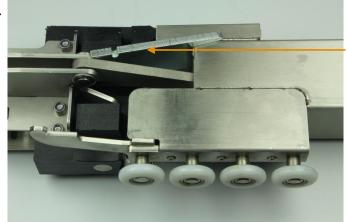
ATTENTION:

Perform step 7 also for the other side of the trailer!

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11.



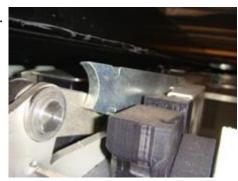
The wall is secured to the balancing device by a transport safety device.

12.



Carefully pull the wall a bit down at an angle of 45° using a belt.

13.



Close the Cool SmartLift series wall a little bit.

Remove the transport safety device from **each** balancer.

14.



Please dispose the transport safety device on environmental friendly manner.

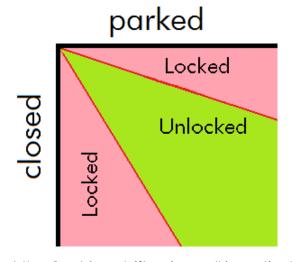
15. Put the Cool SmartLift series wall in horizontal position again.

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Carefully pull the wall down at an angle of 45° using a belt.



When the Cool SmartLift series wall is in an angle within the green area the Cool SmartLift series wall can be moved freely along the IsoLok Track.

17. Set the Cool SmartLift series wall in vertical position.

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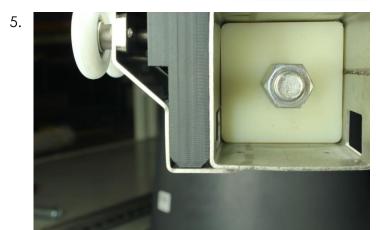
6 CHECK THE FUNCTIONALITY OF COOL SMARTLIFT SERIES WALL

6.1 ADJUST SPRING TENSION

- 1. Open the Cool SmartLift series wall now to approx. 45°.
- 2. Move Cool SmartLift series wall with a sweep to the roof.
- 3. If the Cool SmartLift series wall is not resting in a **parallel** position then:



Remove the plastic cap on the back of the balancing device.



The bolt which holds the spring is visible.

The spring tension is at is minimum when the door is delivered.



Measure the depth of the each balancer.

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7.



Use an extended tube wrench (24 mm).

This tool is available at Loadlok





WARNING:

Do **not** use an electric or pneumatic tool!

8. Maximum of 10 mm per side.



ATTENTION:

When the nuts are tightened too far, the mechanism may be damaged!

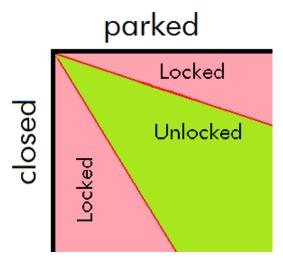
- Check if the Cool SmartLift series wall does go smoothly when opening.
 If the Cool SmartLift series wall "bangs" to the roof the tension is too tight. Loosen the bolts a bit.
- 10. Repeat steps 6 to 9, until the Cool SmartLift series wall opens smoothly.
- 11. Attach the plastic cap at the rear of the balancing device on both sides.

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6.2 CHECK THE BREAK FUNCTIONALITY

1.

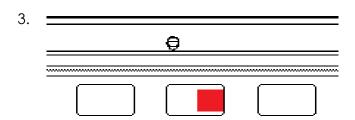


This picture shows the side view of the working area of the Cool SmartLift series wall.

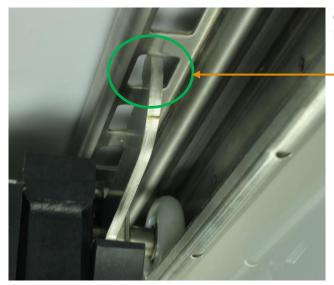
The green colour shows the area in where the Cool SmartLift series wall is unlocked and can be moved freely along the guide rails.

The red areas the Cool SmartLift series wall must grasp in its locking. This area is about 20° from the horizontal and the vertical.

2. Lift the Cool SmartLift series wall into such an angle that it is in the area which is coloured red.



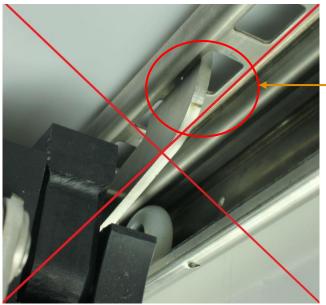
The break locks must be positioned in the middle of the breaking hole (as shown in red).



Correct position of the brake in the IsoLok Track

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Incorrect position of the brake in the IsoLok Track

4. If this is not the case bend the break lock until it does!

5.



WARNING:

Check both sides!



WARNING:

If the functionality of the breaking locks cannot be assured:

- Contact Loadlok immediately!
- Do not deliver vehicle to the public road!

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6.3 CONNECTING THE BUILT-IN FAN

6.3.1 Without the power supply kit



This slider is mounted by LoadLok, if a fan is built in the Cool SmartLift series wall. The power to the fan is to be supplied via the IsoLok Track.

In this case connect:

- Left side to the power supply, the cable is coloured red.
- Right side to the trailers earth, the cable is coloured black.



WARNING:

In the case of:

• Possibility of short circuit

Use the power supply kit!

Make sure the power supply is secured with a 10A fuse.

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6.3.2 With the power supply kit



WARNING:

In the case of:

Possibility of short circuit

Use the power supply kit!



This slider must be mounted on the balancer after the Frigo58 door is set in its place according the instructions in paragraph "Mounting the track".

In this case connect:

- Left side to the power supply, the cable is coloured red.
- Right side to the trailers earth, the cable is coloured black.

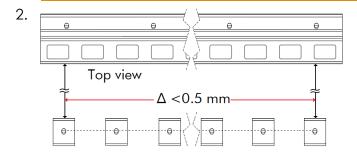


WARNING:

In the case of:

• Possibility of short circuit

Use the power supply kit!



Mount the isolator strips parallel to the IsoLok Track.

- 3. Every 500 mm an isolator bracket is to be mounted with the tolerance shown in step 2.
- 4. Slide the aluminum track into the isolator brackets. Make sure that every joint is electrically connected.



ATTENTION:

Check if there is a short circuit before continuing with the installation activities!

5. Connect the power supply to the aluminum rail.

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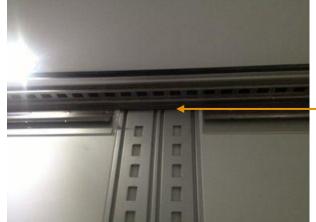
- 6. Connect the earthing to the right side.
- 7. Make sure the power supply is secured with a 10A fuse.

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6.4 DOUBLE DECKING SYSTEMS AND COOL SMARTLIFT SERIES WALL

1.



In order to minimize the height loss, the double deck rail ends within the IsoLok Track.

This is shown in the figure here.



The wheels on the balancer are extended as show in this figure.

Loadlok builds these type of balancers when ordering the double decking systems.

3. As both pictures are showing the end result, the built in of the IsoLok Track has to be performed as described the paragraph "Mounting the track".



ATTENTION:

The notch in the IsoLok Track where the double deck rail has to be mounted should be a minimum of 4 mm (2 mm on each side) wider as the chosen double deck rail.



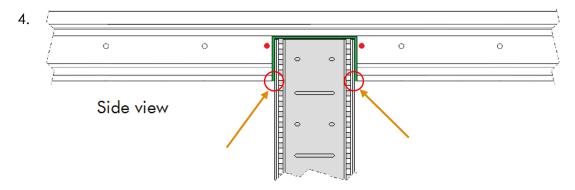
WARNING:

The IsoLok Track loses its stiffness when notches are present.

Despite this loss of stiffness, keep the tolerances smaller than 0,5 mm!

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This picture shows a schematic view of how to build the double deck system (vertical rail recessed) into the IsoLok Track (horizontal rail).

The tolerance should be a minimum of 2mm at each side (green colour).

Drill extra mounting holes in the IsoLok Track (red dots), if required.



ATTENTION:

Loadlok advises to bend the IsoLok Track a bit open, for a better guidance of the balancer wheels!

Sections are marked with an red circle in the picture above and in the following picture



ATTENTION:

If the double deck rail cannot be recessed then Loadlok advises not to cut out the IsoLok Track!





The maximum cutout (intersection) as side and front view



WARNING:

When creating room for the double deck guidance rails, keep in mind the tolerances for the guidance and locking systems!

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7 MAINTENANCE

Maintenance table			
Manifestation of the failure	Possible cause or procedure to detect the failure	Solution	Performed by (unskilled till certified)
Leaking cold PVC-seal has wear	Icing on the sidewall is to be seen	Replace or repair seal of the Cool series wall Manual Lift in the same way as encountered.	Mechanic
The Cool SmartLift series wall is not easily going in to a horizontal or vertical position	Spring tension is not correct	Adjust the spring tension according paragraph "Adjust spring tension"	Mechanic
The breakfingers are not locking in the center of the breaking hole		Adjust the breaking fingers according paragraph "Check the break functionality"	Mechanic

If the Cool SmartLift series wall is inspected on a regular basis on above mentioned inspection points the product lasts a lifetime.

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8 DOCUMENT INFORMATION

Principal	Contractor	Digital file name
LoadLok Nederland B.V.	Foxiz BV	Mounting Instructions

Remarks, corrections or suggestions are welcomed by the technical department.

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